

**APPLICATION TO RENEW AND REVISE  
TITLE V OPERATING PERMIT NO. P090R3  
JAL #3 GAS PLANT  
LEA COUNTY, NM**

**MARCH 2023**

Submitted to:  
**New Mexico Environment Department**  
Air Quality Bureau, Permits Section  
525 Camino de los Marquez, Suite 1  
Santa Fe, NM 87505

Prepared for:  
**ETC Texas Pipeline LTD**  
600 N. Marienfeld St., Suite 700  
Midland, TX 79701  
575-810-8674

Prepared by:  
**Altamira-US, LLC**  
525 Central Park Dr., Suite 500  
Oklahoma City, OK 73105  
405-702-1618

## **TABLE OF CONTENTS**

### **SECTIONS**

- Section 1: General Facility Information**
- Section 2: Tables**
- Section 3: Application Summary**
- Section 4: Process Flow Sheet**
- Section 5: Plot Plan Drawn to Scale**
- Section 6: All Calculations**
- Section 6a: Green House Gas Emissions**
- Section 7: Information Used to Determine Emissions**
- Section 8: Map(s)**
- Section 9: Proof of Public Notice**
- Section 10: Written Description of the Routine Operations of the Facility**
- Section 11: Source Determination**
- Section 12: PSD Applicability Determination for All Sources**
- Section 13: Determination of State & Federal Air Quality Regulations**
- Section 14: Operational Plan to Mitigate Emissions**
- Section 15: Alternative Operating Scenarios**
- Section 16: Air Dispersion Modeling**
- Section 17: Compliance Test History**
- Section 19: Requirements for Title V Program**
- Section 20: Other Relevant Information**
- Section 22: Certification**

<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>  <div style="font-size: 2em; font-weight: bold; color: blue;">RECEIVED</div> <div style="color: red; font-weight: bold;">MAR 24 2023</div> <div style="color: blue; font-weight: bold;">Air Quality Bureau</div>  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.: \_\_\_\_\_ in the amount of \_\_\_\_\_  
☒ 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.  
☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: [www.env.nm.gov/air-quality/permit-fees-2/](http://www.env.nm.gov/air-quality/permit-fees-2/).  
☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full \$500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: [www.env.nm.gov/air-quality/small-biz-eap-2/](http://www.env.nm.gov/air-quality/small-biz-eap-2/).)

**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.): 569	Updating Permit/NOI #: P090-R3
1	Facility Name: Jal #3 Gas Plant	Plant primary SIC Code (4 digits): 4922	
		Plant NAIC code (6 digits): 211130	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): The facility is 4 miles north-northeast of Jal, NM.		
2	Plant Operator Company Name: ETC Texas Pipeline, Ltd	Phone/Fax: 575-810-8674 / NA	
a	Plant Operator Address: 600 N Marienfeld St., Suite 700, Midland, TX 79701		

b	Plant Operator's New Mexico Corporate ID or Tax ID:	
3	Plant Owner(s) name(s): ETC Texas Pipeline, Ltd	Phone/Fax: 575-810-8674 / NA
a	Plant Owner(s) Mailing Address(s): 600 N Marienfeld St., Suite 700, Midland, TX 79701	
4	Bill To (Company): ETC Texas Pipeline, Ltd	Phone/Fax: 214-840-5650 / NA
a	Mailing Address: 8111 Westchester Drive, Suite 600, Dallas, TX 75225	E-mail: christopher.hansen@energytranser.com
5	<input type="checkbox"/> Preparer: <input checked="" type="checkbox"/> Consultant: Laura Worthen Lodes, Altamira-US, LLC	Phone/Fax: 405-702-1618 / 405-843-4687
a	Mailing Address: 525 Central Park Dr., Ste. 500 Oklahoma City, OK 73105	E-mail: <a href="mailto:laura.worthen-lodes@altamira-us.com">laura.worthen-lodes@altamira-us.com</a>
6	Plant Operator Contact: Alena Miro	Phone/Fax: 575-810-8674 /NA
a	Address: 600 N Marienfeld St., Suite 700, Midland, TX 79701	E-mail: alena.miro@energytranser.com
7	Air Permit Contact: Alena Miro	Title: Environmental Manager
a	E-mail: alena.miro@energytranser.com	Phone/Fax: 575-810-8674 / NA
b	Mailing Address: 600 N Marienfeld St., Suite 700, Midland, TX 79701	
c	The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.	

### Section 1-B: Current Facility Status

1.a	Has this facility already been constructed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.b If yes to question 1.a, is it currently operating in New Mexico? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Is the facility currently shut down? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: P090R3
7	Has this facility been issued a No Permit Required (NPR)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the NPR No. is:
8	Has this facility been issued a Notice of Intent (NOI)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the NOI No. is:
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: 1092-M10
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the register No. is:

### Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 2.92 MMscf	Daily: 70 MMscf	Annually: 25,550 MMscf
b	Proposed	Hourly: 2.92 MMscf	Daily: 70 MMscf	Annually: 25,550 MMscf
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 2.92 MMscf	Daily: 70 MMscf	Annually: 25,550 MMscf
b	Proposed	Hourly: 2.92 MMscf	Daily: 70 MMscf	Annually: 25,550 MMscf

**Section 1-D: Facility Location Information**

1	Section: 33	Range: 37E	Township: 24S	County: Lea	Elevation (ft): 3260
2	UTM Zone: <input type="checkbox"/> 12 or <input checked="" type="checkbox"/> 13			Datum: <input type="checkbox"/> NAD 27 <input checked="" type="checkbox"/> NAD 83 <input type="checkbox"/> WGS 84	
a	UTM E (in meters, to nearest 10 meters): 672129			UTM N (in meters, to nearest 10 meters): 3561167	
b	AND Latitude (deg., min., sec.): 32°10'25"			Longitude (deg., min., sec.): 103°10'27"	
3	Name and zip code of nearest New Mexico town: Jal, 88252				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): The facility is 4 miles north-northeast of Jal, NM.				
5	The facility is 4 (distance) miles north-northeast (direction) of Jal (nearest town).				
6	Status of land at facility (check one): <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian/Pueblo <input type="checkbox"/> Federal BLM <input type="checkbox"/> Federal Forest Service <input type="checkbox"/> Other (specify)				
7	List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: Jal, NM; Indian Tribes: None; Counties: Lea (NM),				
8	20.2.72 NMAC applications <b>only</b> : Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see <a href="http://www.env.nm.gov/aqb/modeling/class1areas.html">www.env.nm.gov/aqb/modeling/class1areas.html</a> )? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: 10.1 km from Texas				
9	Name nearest Class I area: Carlsbad Caverns National Park				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 112.6 km				
11	Distance (meters) from the perimeter of the Area of Operations (AO is defined as the plant site inclusive of all disturbed lands, including mining overburden removal areas) to nearest residence, school or occupied structure: 2030 meters				
12	Method(s) used to delineate the Restricted Area:  "Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.				
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.				
14	Will this facility operate in conjunction with other air regulated parties on the same property? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, what is the name and permit number (if known) of the other facility?				

**Section 1-E: Proposed Operating Schedule** (The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.)

1	Facility <b>maximum</b> operating ( $\frac{\text{hours}}{\text{day}}$ ): 24	( $\frac{\text{days}}{\text{week}}$ ): 7	( $\frac{\text{weeks}}{\text{year}}$ ): 52	( $\frac{\text{hours}}{\text{year}}$ ): 8760
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$ )? Start: N/A		<input type="checkbox"/> AM <input type="checkbox"/> PM	End: N/A <input type="checkbox"/> AM <input type="checkbox"/> PM
3	Month and year of anticipated start of construction: N/A			
4	Month and year of anticipated construction completion: N/A			
5	Month and year of anticipated startup of new or modified facility: N/A			
6	Will this facility operate at this site for more than one year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

**Section 1-F: Other Facility Information**

1	Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, specify:	
a	If yes, NOV date or description of issue:	NOV Tracking No:



b	Is this application in response to any issue listed in 1-F, 1 or 1a above? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide the 1c & 1d info below:		
c	Document Title:	Date:	Requirement # (or page # and paragraph #):
d	Provide the required text to be inserted in this permit:		
2	Is air quality dispersion modeling or modeling waiver being submitted with this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3	Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
a	If Yes, what type of source? <input type="checkbox"/> <b>Major</b> ( <input type="checkbox"/> $\geq 10$ tpy of any single HAP <b>OR</b> <input type="checkbox"/> $\geq 25$ tpy of any combination of HAPS) <b>OR</b> <input checked="" type="checkbox"/> <b>Minor</b> ( <input type="checkbox"/> $< 10$ tpy of any single HAP <b>AND</b> <input checked="" type="checkbox"/> $< 25$ tpy of any combination of HAPS)		
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
a	If yes, include the name of company providing commercial electric power to the facility: _____ Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

**Section 1-G: Streamline Application**

(This section applies to 20.2.72.300 NMAC Streamline applications only)

1	<input type="checkbox"/> I have filled out Section 18, "Addendum for Streamline Applications." <input checked="" type="checkbox"/> N/A (This is not a Streamline application.)
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**Section 1-H: Current Title V Information - Required for all applications from TV Sources**

(Title V-source required information for all applications submitted pursuant to 20.2.72 NMAC (Minor Construction Permits), or 20.2.74/20.2.79 NMAC (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V))

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC): Toby Clark		Phone: 432-614-9387
a	R.O. Title: Vice President of Operations	R.O. e-mail: <a href="mailto:toby.clark@energytransfer.com">toby.clark@energytransfer.com</a>	
b	R. O. Address: 711 Louisiana St., Suite 900, Houston, TX 77002		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): Mike McCracken		Phone: 817-302-9806
a	A. R.O. Title: Sr. Director, Operations	A. R.O. e-mail: <a href="mailto:mike.mccracken@energytransfer.com">mike.mccracken@energytransfer.com</a>	
b	A. R. O. Address: 600 N. Marienfeld St., Suite 700, Midland, TX 79701		
3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship): Energy Transfer Company Field Services, LLC		
4	Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.): Energy Transfer Equity, L.P.		
a	Address of Parent Company: 800 E. Sonterra Blvd., Suite 400, San Antonio, TX 78258		
5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.): None		
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: Alena Miro, Environmental Manager, (575) 810-8674		
7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: Texas, 10.1 km		

## Section 1-I – Submittal Requirements

Each 20.2.73 NMAC (NOI), a 20.2.70 NMAC (Title V), a 20.2.72 NMAC (NSR minor source), or 20.2.74 NMAC (PSD) application package shall consist of the following:

### Hard Copy Submittal Requirements:

- 1) One hard copy **original signed and notarized application package printed double sided 'head-to-toe' 2-hole punched** as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be **head-to-head**. Please use **numbered tab separators** in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. **Please include a copy of the check on a separate page.**
- 2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This **copy** should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-toe 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.
- 3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, **two CD** copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a **single CD** submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB's secure file transfer service.

### Electronic files sent by (check one):

☐ CD/DVD attached to paper application

☒ secure electronic transfer. Air Permit Contact Name: Laura Worthen Lodes

Email: [Laura.Worthen-Lodes@Altamira-US.com](mailto:Laura.Worthen-Lodes@Altamira-US.com)

Phone number: 405-702-1618

a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**

- 4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.
- 5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling **summary report only** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.
- 6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
  - a. one additional CD copy for US EPA,
  - b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
  - c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

If the application is submitted electronically through the secure file transfer service, these extra CDs do not need to be submitted.

### Electronic Submittal Requirements [in addition to the required hard copy(ies)]:

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible

format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc.), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.

- 3) It is preferred that this application form be submitted as 4 electronic files (3 MSWord docs: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and 1 Excel file of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.
- 4) The **electronic file names** shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the **core permit number** (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the **section #** (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the **header information** throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

## Table of Contents

<b>Section 1:</b>	<b>General Facility Information</b>
<b>Section 2:</b>	<b>Tables</b>
<b>Section 3:</b>	<b>Application Summary</b>
<b>Section 4:</b>	<b>Process Flow Sheet</b>
<b>Section 5:</b>	<b>Plot Plan Drawn to Scale</b>
<b>Section 6:</b>	<b>All Calculations</b>
<b>Section 7:</b>	<b>Information Used to Determine Emissions</b>
<b>Section 8:</b>	<b>Map(s)</b>
<b>Section 9:</b>	<b>Proof of Public Notice</b>
<b>Section 10:</b>	<b>Written Description of the Routine Operations of the Facility</b>
<b>Section 11:</b>	<b>Source Determination</b>
<b>Section 12:</b>	<b>PSD Applicability Determination for All Sources &amp; Special Requirements for a PSD Application</b>
<b>Section 13:</b>	<b>Discussion Demonstrating Compliance with Each Applicable State &amp; Federal Regulations</b>
<b>Section 14:</b>	<b>Operational Plan to Mitigate Emissions</b>
<b>Section 15:</b>	<b>Alternative Operating Scenarios</b>
<b>Section 16:</b>	<b>Air Dispersion Modeling</b>
<b>Section 17:</b>	<b>Compliance Test History</b>
<b>Section 18:</b>	<b>Addendum for Streamline Applications (streamline applications only)</b>
<b>Section 19:</b>	<b>Requirements for the Title V (20.2.70 NMAC) Program (Title V applications only)</b>
<b>Section 20:</b>	<b>Other Relevant Information</b>
<b>Section 21:</b>	<b>Addendum for Landfill Applications</b>
<b>Section 22:</b>	<b>Certification Page</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 #				
S1	Natural Gas Compressor Engine	Superior	2416G	333489	3200 hp	3201 hp	1996	S1	20200254	<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	4SLB	
							2004	S1				
S2	Natural Gas Compressor Engine	Superior	2416G	333519	3200 hp	3201 hp	1996	S2	20200254	<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	4SLB	
							2008	S2				
S3	Natural Gas Compressor Engine	Superior	2416G	333529	3200 hp	3201 hp	1997	S3	20200254	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional Unit <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	
							2004	S3				
S4	Natural Gas Compressor Engine	Superior	2416G	334729	3200 hp	3201 hp	1997	S4	20200254	<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	4SLB	
							2004	S4				
S5	Natural Gas Compressor Engine	Superior	12 SGTA	2932559	2000 hp	2000 hp	1983	S5	20200254	<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	4SLB	
							2004	S5				
C1	Natural Gas Compressor Engine	Caterpillar	G3612	1YG00065	3550 hp	3550 hp	8/7/2018	C1	20200254	<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	4SLB	
							2019	C1				
C2	Natural Gas Compressor Engine	Caterpillar	G3612	BKE00660	3550 hp	3550 hp	1/2/2008	C2	20200254	<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	4SLB	
							2016	C2				
C3	Natural Gas Compressor Engine	Caterpillar	G3612	BKE00662	3550 hp	3550 hp	1/2/2008	C3	20200254	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional Unit <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	
							2016	C3				
C4	Natural Gas Compressor Engine	Caterpillar	G3612	BKE00659	3550 hp	3550 hp	1/2/2008	C4	20200254	<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	4SLB	
							2016	C4				
C5	Natural Gas Compressor Engine	Caterpillar	G3606	TBD	1875 hp	1875 hp	Post 7/1/2010	C5	20200254	<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	4SLB	
							TBD	C5				
C6	Natural Gas Compressor Engine	Caterpillar	G3606	TBD	1875 hp	1875 hp	Post 7/1/2010	C6	20200254	<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	4SLB	
							TBD	C6				
1A	Natural Gas Compressor Engine	Cooper-Bessemer	GMV-10TF LE	42109	1100 hp	1100 hp	9/1/1948	N/A	20200252	<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	
							1948	1				
2A	Natural Gas Compressor Engine	Cooper-Bessemer	GMV-10TF LE	42110	1100 hp	1100 hp	9/1/1948	N/A	20200252	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional Unit <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	2SLB	
							1948	2				
3A	Natural Gas Compressor Engine	Cooper-Bessemer	GMV-10TF LE	42107	1100 hp	1100 hp	9/1/1948	N/A	20200252	<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	
							1948	3				
4A	Natural Gas Compressor Engine	Cooper-Bessemer	GMV-10TF LE	42108	1100 hp	1100 hp	9/1/1948	N/A	20200252	<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	
							1948	4				

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 #				
5A	Natural Gas Compressor Engine	Cooper-Bessemer	GMV-10TF LE	42106	1100 hp	1100 hp	9/1/1948	N/A	20200252	<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	
							1948	5				
7H	Gas Heater	Entec	N/A	76152	2.5 MMbtu/hr	2.5 MMbtu/hr	Unknown	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		
							Unknown	7H				
11H	Gas Heater	Eclipse	N/A	47973	3.5 MMbtu/hr	3.5 MMbtu/hr	Unknown	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		
							Unknown	11H				
12H	Regeneration Gas Heater	TBD	N/A	TBD	28 MMbtu/hr	28 MMbtu/hr		N/A	31000404	<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		
							TBD	12H				
13H	Dehy Reboiler	TBD	N/A	TBD	2.0 MMbtu/hr	2.0 MMbtu/hr			31000404	<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		
							TBD	13H				
14H	Stabilizer Heater	TBD	N/A	TBD	10 MMbtu/hr	10 MMbtu/hr			31000404	<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		
							TBD	14H				
9S	Thermal Oxidizer	Entec	N/A	N/A	8 MMbtu/hr	8 MMbtu/hr	Unknown	N/A	31000209	<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		
							1993	9S				
31B	Boiler	Nebraska	MS-E-59	D-3792	90.9 MMbtu/hr	90.9 MMbtu/hr	1998	N/A	3100414	<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		
							12/12/2011	31B				
32B	Boiler	Victory Energy VS-5-71	VS-5-71	12017	120.9 MMbtu/hr	120.9 MMbtu/hr	7/15/2013	N/A	31000414	<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		
							TBD	32B				
8F	Gas Plant Flare	John Zink	N/A	N/A	10 MMcf/d	10 MMcf/d	Unknown	N/A	31000215	<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		
							1971	8F				
9F	Treatment Flare	John Zink	N/A	N/A	2.9 MMcf/d	2.9 MMcf/d	Unknown	N/A	31000215	<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		
							1993	9F				
10F	Inlet Flare	John Zink	N/A	N/A	75 MMcf/d	75 MMcf/d	Unknown	N/A	31000215	<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		
							1950	10F				
TK-3	Scrubber Liquids Tank	N/A	N/A	N/A	8,820 gal	8,820 gal	Unknown	N/A	40400301	<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		
							1970	N/A				
TK-4	Scrubber Liquids Tank	N/A	N/A	N/A	8,820 gal	8,820 gal	Unknown	N/A	40400301	<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		
							1970	N/A				
TK-46	Scrubber Liquids Tank	N/A	N/A	N/A	4,512 gal	4,512 gal	Unknown	N/A	40400301	<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		
							1970	N/A				
FUG1	Fugitive Emissions	N/A	N/A	N/A	N/A	N/A	N/A	8F-10F	31088811	<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		
							N/A	8F-10F				

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 #				
FUG2	Fugitive Emissions	N/A	N/A	N/A	N/A	N/A	N/A	9F	31088811	<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		
							N/A	9F				
DR1	Dehydrator Regenerator (with condenser)	Unknown	N/A	N/A	150 MMscfd	150 MMscfd	Unknown	9F	31000301	<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		
							1959 (Regen)	9F				
DR2	Dehydrator Regenerator (with condenser)	TBD	N/A	TBD	70 MMscfd	70 MMscfd	TBD	9F	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		
							TBD	9F				
LOADOUT	Condensate Truck Loadout	N/A	N/A	N/A	800 bbl/day	800 bbl/day	Unknown	N/A	40400301	<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		
							Unknown	N/A				
SSM/M	Startup, Shutdown, Maintenance/ Malfunction	N/A	N/A	N/A	N/A	N/A	N/A	8F, 10F	31088811	<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		
							N/A	8F, 10F				
SSM-Inlet (Flare 10F)	Routine Inlet Blow Downs	N/A	N/A	N/A	N/A	N/A	N/A	10F	31088811	<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		
							N/A	10F				
TK-519	Gunbarrel	N/A	N/A	N/A	600 bbl	600 bbl	N/A	VRU	40400311	<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		
							2015	N/A				
TK-519C	Scrubber Oil Tank	N/A	N/A	N/A	500 bbl	500 bbl	N/A	N/A	40400311	<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		
							2015	N/A				
TK-519A	Water Tank	N/A	N/A	N/A	500 bbl	500 bbl	N/A	N/A	40400315	<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		
							2015	N/A				
LOAD	Scrubber Oil Loading	N/A	N/A	N/A	500 bbl	500 bbl	N/A	N/A	31088811	<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		
							2015	N/A				

<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-B: Insignificant Activities<sup>1</sup> (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)**

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 20.2.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see [http://www.env.nm.gov/aqb/permit/aqb\\_pol.html](http://www.env.nm.gov/aqb/permit/aqb_pol.html)), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction <sup>2</sup>	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction <sup>2</sup>	
P1	Fire Pump	Unknown	Unknown	N/A	20.2.72.202.A.4	Unknown	<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
			Unknown	N/A	N/A	Unknown	
P2	Fire Pump	Chrysler	Unknown	N/A	20.2.72.202.A.4	Unknown	<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
			Unknown	N/A	N/A	Unknown	
TK-6	Waste Oil Tank	N/A	N/A	8820	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-7	Waste Oil Tank	N/A	N/A	390	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-8	Out of Service	N/A	N/A	2100	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-9	Jacket Water Tank	N/A	N/A	4200	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-10	Lube Oil Tanks	N/A	N/A	8820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-11	Lube Oil Tanks	N/A	N/A	8820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-12	Detergent Tank	N/A	N/A	190	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-13	Water Treater	N/A	N/A	930	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-14	Lube Oil Tanks	N/A	N/A	8820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-15	Antifreeze Tank	N/A	N/A	8820	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-16	Lube Oil Tanks	N/A	N/A	8820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-17	Lube Oil Tank	N/A	N/A	480	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction <sup>2</sup>	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction <sup>2</sup>	
TK-18	Solvent Tank	N/A	N/A	660	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-19	Waste Oil Tank	N/A	N/A	1130	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-20	Detergent Tank	N/A	N/A	1670	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-21	Solvent Tank	N/A	N/A	370	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-22	Methanol Tank	N/A	N/A	290	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-23	Methanol Tank	N/A	N/A	2960	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-24	Methanol Tank	N/A	N/A	2060	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-25	Corrosion Inhibitor Tank	N/A	N/A	330	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-26	Waste Oil Tank	N/A	N/A	410	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-27	Lube Oil Tank	N/A	N/A	110	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-28	Lube Oil Tank	N/A	N/A	110	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-29	Water Treater Tank	N/A	N/A	730	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-30	Out of Service	N/A	N/A	1000	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-31	Triethylene Glycol Tank	N/A	N/A	2820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-32	Amine Tank	N/A	N/A	8820	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-33	Amine Tank	N/A	N/A	8820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	



Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction <sup>2</sup>	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction <sup>2</sup>	
TK-34	Amine Tank	N/A	N/A	8820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-35	Lube Oil Tanks	N/A	N/A	8820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-36	Antifreeze Tank	N/A	N/A	8820	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-37	Detergent Tank	N/A	N/A	180	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-38	Antifreeze Tank	N/A	N/A	1690	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-39	Brine Tank	N/A	N/A	12,600	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-40	Solvent Tank	N/A	N/A	1100	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-41	Gasoline Tank	N/A	N/A	560	20.2.72.202.B.5	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-42	Diesel Tank	N/A	N/A	315	2.72.202.B..2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-44	Lube Oil Tank	N/A	N/A	12,690	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-45	Detergent Tank	N/A	N/A	210	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-47	Lube Oil Tank	N/A	N/A	510	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-48	Natural Gas Liquids Tank	N/A	N/A	102,270	Pressure Vessel (not a source)	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-49	Propane Tank	N/A	N/A	26,040	Pressure Vessel (not a source)	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-50	Condensate Tank	N/A	N/A	57,540	Pressure Vessel (not a source)	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-51	Condensate Tank	N/A	N/A	57,540	Pressure Vessel (not a source)	Unknown	<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
			N/A	gal	N/A	Unknown	

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction <sup>2</sup>	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction <sup>2</sup>	
TK-52	Condensate Tank	N/A	N/A	57,540	Pressure Vessel (not a source)	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-53	Treated Water Tank	N/A	N/A	610	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-60	Treated Water Tank	N/A	N/A	3380	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-61	Treated Water Tank	N/A	N/A	8460	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-62	Treated Water Tank	N/A	N/A	44,040	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-63	Treated Water Tank	N/A	N/A	44,040	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-64	Raw Water Tank	N/A	N/A	426,540	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	gal	N/A	Unknown	
TK-65	Sulfur Tank	N/A	N/A	55	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	tons	N/A	Unknown	
TK-66	Amine Tank	N/A	N/A	8820	20.2.72.202.B.2	Unknown	<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
			N/A	gal	N/A	Unknown	
VENT	Plant Vent	Unknown	N/A	N/A	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	N/A	N/A	Unknown	
TK-67	Treated Water Tank	N/A	N/A	TBD	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	TBD	N/A	Unknown	
TK-68	Bullet Tank	N/A	N/A	TBD	Pressure Vessel (not a source)	Unknown	<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
			N/A	TBD	N/A	Unknown	
TK-71	Underground Water Sump Tank	N/A	N/A	TBD	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	TBD	N/A	Unknown	
TK-72	Underground Water Sump Tank	N/A	N/A	TBD	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	TBD	N/A	Unknown	
N/A	Electric Compressor	Unknown	N/A	N/A	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	N/A	N/A	Unknown	
N/A	Electric AGI Compressor 1	Unknown	N/A	N/A	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	N/A	N/A	Unknown	

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction <sup>2</sup>	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction <sup>2</sup>	
N/A	Electric AGI Compressor 2	Unknown	N/A	N/A	Not a Source of any Regulated Pollutant	Unknown	<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
			N/A	N/A	N/A	Unknown	

<sup>1</sup> Insignificant activities exempted due to size or production rate are defined in 20.2.70.300.D.6, 20.2.70.7.Q NMAC, and the NMED/AQB List of Insignificant Activities, dated September 15, 2008. Emissions from these insignificant activities do not need to be reported, unless specifically requested.

<sup>2</sup> Specify date(s) required to determine regulatory applicability.

**Table 2-C: Emissions Control Equipment**

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s) <sup>1</sup>	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
C1	Oxidation Catalyst	TBD	CO, VOC, HCHO, acetaldehyde	C1	65.63% VOC, 90% CO & HCHO, 83% Acetaldehyde	Mfg. Data
C2	Oxidation Catalyst	TBD	CO, VOC, HCHO, acetaldehyde	C2	65.63% VOC, 90% CO & HCHO, 83% Acetaldehyde	Mfg. Data
C3	Oxidation Catalyst	TBD	CO, VOC, HCHO, acetaldehyde	C3	65.63% VOC, 90% CO & HCHO, 83% Acetaldehyde	Mfg. Data
C4	Oxidation Catalyst	TBD	CO, VOC, HCHO, acetaldehyde	C4	65.63% VOC, 90% CO & HCHO, 83% Acetaldehyde	Mfg. Data
C5	Oxidation Catalyst	TBD	CO, VOC, HCHO, acetaldehyde	C5	29.58% VOC, 79.51% CO, 60.87% HCHO, 83% Acetaldehyde	Mfg. Data
C6	Oxidation Catalyst	TBD	CO, VOC, HCHO, acetaldehyde	C6	29.58% VOC, 79.51% CO, 60.87% HCHO, 83% Acetaldehyde	Mfg. Data
8F	Gas Plant Flare	Unknown	VOCs, HAPs, H <sub>2</sub> S	Amine	98%	Eng. Judgement
9F	Dehy Flare	Unknown	H <sub>2</sub> S, VOC	DR2	98%	Eng. Judgement
10F	Inlet Flare	Unknown	VOC, HAPs, H <sub>2</sub> S	FUG1, Process Vents	98%	Eng. Judgement
DR2	Condenser, Flare	TBD	VOC	DR2	98% VOCs	ProMax
N/A	Acid Gas Injection System	TBD	H <sub>2</sub> S	N/A	100%	ProMax
VRU	Vapor Recovery Unit	TBD	VOC	TK-519, TK-519A, TK-519C	95%	ProMax

<sup>1</sup> List each control device on a separate line. For each control device, list all emission units controlled by the control device.

**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
C1	3.91	14.73	21.52	94.27	7.23	31.72	0.380	1.670	0.27	1.17	0.27	1.17	0.27	1.17	lb/hr	ton/yr	lb/hr	ton/yr
C2	3.91	14.73	21.52	94.27	7.23	31.72	0.380	1.670	0.27	1.17	0.27	1.17	0.27	1.17	-	-	-	-
C3	3.91	14.73	21.52	94.27	7.23	31.72	0.380	1.670	0.27	1.17	0.27	1.17	0.27	1.17	-	-	-	-
C4	3.91	14.73	21.52	94.27	7.23	31.72	0.380	1.670	0.27	1.17	0.27	1.17	0.27	1.17	-	-	-	-
C5	1.24	5.43	10.08	44.14	3.90	17.09	0.010	0.040	0.14	0.62	0.14	0.62	0.14	0.62	-	-	-	-
C6	1.24	5.43	10.08	44.14	3.90	17.09	0.010	0.040	0.14	0.62	0.14	0.62	0.14	0.62	-	-	-	-
12H	2.75	12.02	2.31	10.10	0.15	0.66	0.020	0.070	0.21	0.91	0.21	0.91	0.21	0.91	-	-	-	-
13H	0.20	0.86	0.16	0.72	0.01	0.05	0.001	0.010	0.010	0.07	0.010	0.070	0.010	0.070	-	-	-	-
14H	0.98	4.29	0.82	3.61	0.05	0.24	0.010	0.030	0.070	0.33	0.070	0.33	0.070	0.00	-	-	-	-
8F	0.38	1.65	0.75	3.29	0.38	1.67	-	-	-	-	-	-	-	-	-	-	-	-
9F	0.14	0.60	0.28	1.21	0.14	0.61	-	-	-	-	-	-	-	-	-	-	-	-
10F	0.40	1.76	0.80	3.52	0.41	1.79	-	-	-	-	-	-	-	-	-	-	-	-
TK-3	-	-	-	-	0.13	0.57	-	-	-	-	-	-	-	-	-	-	-	-
TK-4	-	-	-	-	0.13	0.57	-	-	-	-	-	-	-	-	-	-	-	-
TK-46	-	-	-	-	1.35	5.89	-	-	-	-	-	-	-	-	-	-	-	-
FUG1	-	-	-	-	3.97	34.75	-	-	-	-	-	-	-	-	-	-	-	-
FUG2	-	-	-	-	0.001	0.610	-	-	-	-	-	-	-	-	-	-	-	-
LOAD	-	-	-	-	0.17	0.76	-	-	-	-	-	-	-	-	-	-	-	-
TK-519C	-	-	-	-	0.22	0.97	-	-	-	-	-	-	-	-	-	-	-	-
TK-519A	-	-	-	-	0.22	0.97	-	-	-	-	-	-	-	-	-	-	-	-
TK-519	-	-	-	-	0.00061	0.0027	-	-	-	-	-	-	-	-	-	-	-	-
LOADOUT	-	-	-	-	41.75	29.35	-	-	-	-	-	-	-	-	-	-	-	-
DR2	-	-	-	-	53.69	1069.61	-	-	-	-	-	-	-	-	-	-	-	-
Amine	-	-	-	-	12.12	53.09	-	-	-	-	-	-	-	-	1605.83	703.354	0	0
<b>Totals</b>	22.97	90.96	111.36	487.81	151.61	1363.22	1.571	6.87	1.65	7.23	1.65	7.23	1.65	6.9	1605.83	703.354	0	0

<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.	NO <sub>x</sub>		CO		VOC		SO <sub>x</sub>		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
C1	3.91	17.12	2.15	9.42	1.96	8.59	0.38	1.67	0.27	1.17	0.27	1.17	0.27	1.17	-	-	-	-
C2	3.91	17.12	2.15	9.42	1.96	8.59	0.38	1.67	0.27	1.17	0.27	1.17	0.27	1.17	-	-	-	-
C3	3.91	17.12	2.15	9.42	1.96	8.59	0.38	1.67	0.27	1.17	0.27	1.17	0.27	1.17	-	-	-	-
C4	3.91	17.12	2.15	9.42	1.96	8.59	0.38	1.67	0.27	1.17	0.27	1.17	0.27	1.17	-	-	-	-
C5	1.24	5.43	2.06	9.04	2.46	10.76	0.01	0.04	0.14	0.62	0.14	0.62	0.14	0.62	-	-	-	-
C6	1.24	5.43	2.06	9.04	2.46	10.76	0.01	0.04	0.14	0.62	0.14	0.62	0.14	0.62	-	-	-	-
12H	2.75	12.02	2.31	10.10	0.15	0.66	0.02	0.07	0.21	0.91	0.21	0.91	0.21	0.91	-	-	-	-
13H	0.20	0.86	0.16	0.72	0.01	0.05	0.001	0.01	0.01	0.07	0.01	0.07	0.01	0.07	-	-	-	-
14H	0.98	4.29	0.82	3.61	0.05	0.24	0.01	0.03	0.07	0.33	0.07	0.33	0.07	0.33	-	-	-	-
8F	2.08	4.12	4.15	8.22	4.31	5.07	9.10	8.52	-	-	-	-	-	-	0.097	0.090	-	-
9F	0.32	1.38	0.63	2.76	4.67	20.46	9.11	39.91	-	-	-	-	-	-	-	-	-	-
10F	414.30	3.52	827.10	7.00	1443.90	7.80	1250.00	5.31	-	-	-	-	-	-	-	-	-	-
TK-3	-	-	-	-	0.13	0.57	-	-	-	-	-	-	-	-	-	-	-	-
TK-4	-	-	-	-	0.13	0.57	-	-	-	-	-	-	-	-	-	-	-	-
TK-46	-	-	-	-	1.35	5.89	-	-	-	-	-	-	-	-	-	-	-	-
FUG1	-	-	-	-	3.97	34.75	-	-	-	-	-	-	-	-	-	-	-	-
FUG2	-	-	-	-	0.001	0.61	-	-	-	-	-	-	-	-	-	-	-	-
LOAD	-	-	-	-	0.17	0.76	-	-	-	-	-	-	-	-	-	-	-	-
TK-519C	-	-	-	-	0.02	0.09	-	-	-	-	-	-	-	-	-	-	-	-
TK-519A	-	-	-	-	0.000002	0.00001	-	-	-	-	-	-	-	-	-	-	-	-
TK-519	-	-	-	-	0.00061	0.0027	-	-	-	-	-	-	-	-	-	-	-	-
LOADOUT	-	-	-	-	41.75	29.35	-	-	-	-	-	-	-	-	-	-	-	-
<b>Totals</b>	438.75	105.53	847.89	88.17	1513.37	162.75	1269.78	60.61	1.65	7.23	1.65	7.23	1.65	7.23	0.10	0.09	-	-

<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).

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).

<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).

☒ I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

Use this table to list stack emissions (requested allowable) from split and combined stacks. List Toxic Air Pollutants (TAPs) and Hazardous Air Pollutants (HAPs) in Table 2-I. List all fugitives that are associated with the normal, routine, and non-emergency operation of the facility. Unit and stack numbering must correspond throughout the application package. Refer to Table 2-E for instructions on use of the “-” symbol and on significant figures.

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**Table 2-H: Stack Exit Conditions**

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H=Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
C1	C1	V		54.7	838	401			81.7	2.5
C2	C2	V		54.7	838	401			81.7	2.5
C3	C3	V		54.7	838	401			81.7	2.5
C4	C4	V		54.7	838	401			81.7	2.5
C5	C5	V		35	838	199			112.6	2
C6	C6	V		35	838	199			112.6	2
12H	12H	V		35	500	280.8			57.2	2.5
13H	13H	V		24	500	18.7			10.6	1.5
14H	14H	V		16.7	500	93.6			29.8	2
8F	8F	V		124	1832	99.7			65.6	1.4
9F	9F	V		240	1832	99.7			65.6	1.4
10F	10F	V		135	1832	55.76			65.6	1

**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		Formaldehyde <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Acrolein <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input 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
C1	C1	0.4	1.9	0.2	0.9	0.1	0.6	-	-	-	-	-	-	-	-				
C2	C2	0.4	1.9	0.2	0.9	0.1	0.6	-	-	-	-	-	-	-	-				
C3	C3	0.4	1.9	0.2	0.9	0.1	0.6	-	-	-	-	-	-	-	-				
C4	C4	0.4	1.9	0.2	0.9	0.1	0.6	-	-	-	-	-	-	-	-				
C5	C5	0.5	2.2	0.4	1.6	0.1	0.3	-	-	-	-	-	-	-	-				
C6	C6	0.5	2.2	0.4	1.6	0.1	0.3	-	-	-	-	-	-	-	-				
8F	8F	0.5	0.1	-	-	-	-	-	-	-	-	-	-	-	-				
9F	9F	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
10F	10F	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
12H	12H	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
13H	13H	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
14H	14H	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
N/A	TK-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
N/A	TK-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
N/A	TK-46	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
8F-10F	FUG1	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
9F	FUG2	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
N/A	LOAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
N/A	TK-519C	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
N/A	TK-519A	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
N/A	LOADOUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
<b>Totals:</b>		3.1	12.1	1.6	6.8	0.6	3.0	-	-	-	-	-	-	-	-				



**Table 2-J: Fuel**

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, ...)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units				
			Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
C1	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	26.2 Mscf	229.5 MMscf	N/A	
C2	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	26.2 Mscf	229.5 MMscf	N/A	
C3	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	26.2 Mscf	229.5 MMscf	N/A	
C4	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	26.2 Mscf	229.5 MMscf	N/A	
C5	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	13.8 Mscf	121.1 MMscf	N/A	
C6	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	13.8 Mscf	121.1 MMscf	N/A	
12H	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	27.5 Mscf	240.5 MMscf	N/A	
13H	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	2.0 Mscf	17.2 MMscf	N/A	
14H	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	9.8 Mscf	85.9 MMscf	N/A	
8F (Pilot Only)	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	2.7 Mscf	23.4 MMscf	N/A	
9F (Pilot Only)	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	1.0 Mscf	8.6 MMscf	N/A	
10F (Pilot Only)	Natural Gas	Pipeline Quality Natural Gas	1020 Btu/scf	2.9 Mscf	25.1 MMscf	N/A	

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.

[illegible]

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

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**Table 2-L2: Liquid Storage Tank Data Codes Reference Table**

Roof Type	Seal Type, Welded Tank Seal Type		Seal Type, Riveted Tank Seal Type		Roof, Shell Color	Paint Condition
<b>FX:</b> Fixed Roof	<b>Mechanical Shoe Seal</b>	<b>Liquid-mounted resilient seal</b>	<b>Vapor-mounted resilient seal</b>	<b>Seal Type</b>	<b>WH:</b> White	Good
<b>IF:</b> Internal Floating Roof	<b>A:</b> Primary only	<b>A:</b> Primary only	<b>A:</b> Primary only	<b>A:</b> Mechanical shoe, primary only	<b>AS:</b> Aluminum (specular)	Poor
<b>EF:</b> External Floating Roof	<b>B:</b> Shoe-mounted secondary	<b>B:</b> Weather shield	<b>B:</b> Weather shield	<b>B:</b> Shoe-mounted secondary	<b>AD:</b> Aluminum (diffuse)	
<b>P:</b> Pressure	<b>C:</b> Rim-mounted secondary	<b>C:</b> Rim-mounted secondary	<b>C:</b> Rim-mounted secondary	<b>C:</b> Rim-mounted secondary	<b>LG:</b> Light Gray	
Note: 1.00 bbl = 0.159 M <sup>3</sup> = 42.0 gal					<b>MG:</b> Medium Gray	
					<b>BL:</b> Black	
					<b>OT:</b> Other (specify)	

Note:  $1.00 \text{ bbl} = 0.159 \text{ M}^3 = 42.0 \text{ gal}$

**Table 2-M: Materials Processed and Produced** (Use additional sheets as necessary.)

[illegible]

Enter Continuous Emissions Measurement (CEM) Data in this table. If CEM data will be used as part of a federally enforceable permit condition, or used to satisfy the requirements of a state or federal regulation, include a copy of the CEM's manufacturer specification sheet in the Information Used to Determine Emissions attachment. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

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**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.

Unit No.	GWP <sub>s</sub> <sup>1</sup>	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>
		1	298	25	22,800	footnote 3										
C1	mass GHG	15048	0.03	0.28											15049	
	CO <sub>2</sub> e	15048	7	8												15063
C2	mass GHG	15048	0.03	0.28											15049	
	CO <sub>2</sub> e	15048	7	8												15063
C3	mass GHG	15048	0.03	0.28											15049	
	CO <sub>2</sub> e	15048	7	8												15063
C4	mass GHG	15048	0.03	0.28											15049	
	CO <sub>2</sub> e	15048	7	8												15063
C5	mass GHG	7938	0.01	0.15											7938	
	CO <sub>2</sub> e	7938	4.46	3.74												7946
C6	mass GHG	7938	0.01	0.15											7938	
	CO <sub>2</sub> e	7938	4.46	3.74												7946
12H	mass GHG	15769	0.03	0.30											15769	
	CO <sub>2</sub> e	15769	8.9	7.4												15785
13H	mass GHG	1126	0.002	0.02											1126	
	CO <sub>2</sub> e	1126	0.6	0.5												1128
14H	mass GHG	5632	0.01	0.11											5632	
	CO <sub>2</sub> e	5632	3	3												5638
8F	mass GHG	15243	0.000	0.2											15243	
	CO <sub>2</sub> e	15243	0.09	5												15248
9F	mass GHG	107330	0.001	3											107333	
	CO <sub>2</sub> e	107330	0.27	78												107408
10F	mass GHG	1372	0.000	5											1377	
	CO <sub>2</sub> e	1372	0.000	5												1377
TK-3	mass GHG															
	CO <sub>2</sub> e															
TK-4	mass GHG															
	CO <sub>2</sub> e															
TK-46	mass GHG															
	CO <sub>2</sub> e															
FUG1	mass GHG	9		77											86	
	CO <sub>2</sub> e	9		1925												1933
FUG2	mass GHG															
	CO <sub>2</sub> e															

**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>
Unit No.	GWPs <sup>1</sup>	1	298	25	22,800	footnote 3										
LOAD	mass GHG			0.2											0.2	
	CO <sub>2</sub> e			5												5
TK-519C	mass GHG															
	CO <sub>2</sub> e															
TK-519A	mass GHG															
	CO <sub>2</sub> e															
LOADO UT	mass GHG			8											8	
	CO <sub>2</sub> e			182												182
MSS-1	mass GHG															
	CO <sub>2</sub> e															
	mass GHG															
	CO <sub>2</sub> e															
Total	mass GHG	222548	0.2	94.92											222,644	
	CO <sub>2</sub> e	222547	50	2249												224,846

<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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This is an application for renewal and modification of Operating Permit No. P090R3 pursuant to 20.2.70.300.B.2. NMAC. Operating Permit No. P090R3, issued to the Jal #3 Gas Plant (Jal #3), was last revised on March 27, 2019 and expires on March 27, 2024. A renewal application is due 12 months prior to permit expiration.

Jal #3 Gas Plant is authorized under New Source Review (NSR) Permit No. 1092-M10, which was last modified on November 7, 2022. This application to renew and revise Operating Permit No. P090-R3 incorporates the Significant Permit Revision authorized under NSR Permit No. 1092-M10. There have been no other Technical or Significant Revisions to NSR Permit No. 1092-M10.

The ETC Texas Pipeline Ltd (ETC) Jal #3 Gas Plant (Jal 3) is a natural gas processing plant located near Jal, NM in Lea County. Lea County is attainment or non-classifiable for all criteria air pollutants. Jal 3 is currently a minor source under the Prevention of Significant Deterioration (PSD) Permit program and is a minor source of hazardous air pollutants (HAPs).

With this application, ETC plans to remove ten (10) natural gas compressor engines, two (2) heaters, two (2) boilers, one (1) glycol dehydrator, one (1) thermal oxidizer, and supporting equipment. Two (2) Caterpillar 3606 engines, one (1) 28 MMBtu/hr amine system heater, one (1) glycol dehydration unit with associated reboiler and thermal oxidizer, one (1) AGI compressor, and (1) 10 MMBtu/hr condensate stabilizer heater will be added.

# Section 4

## Process Flow Sheet

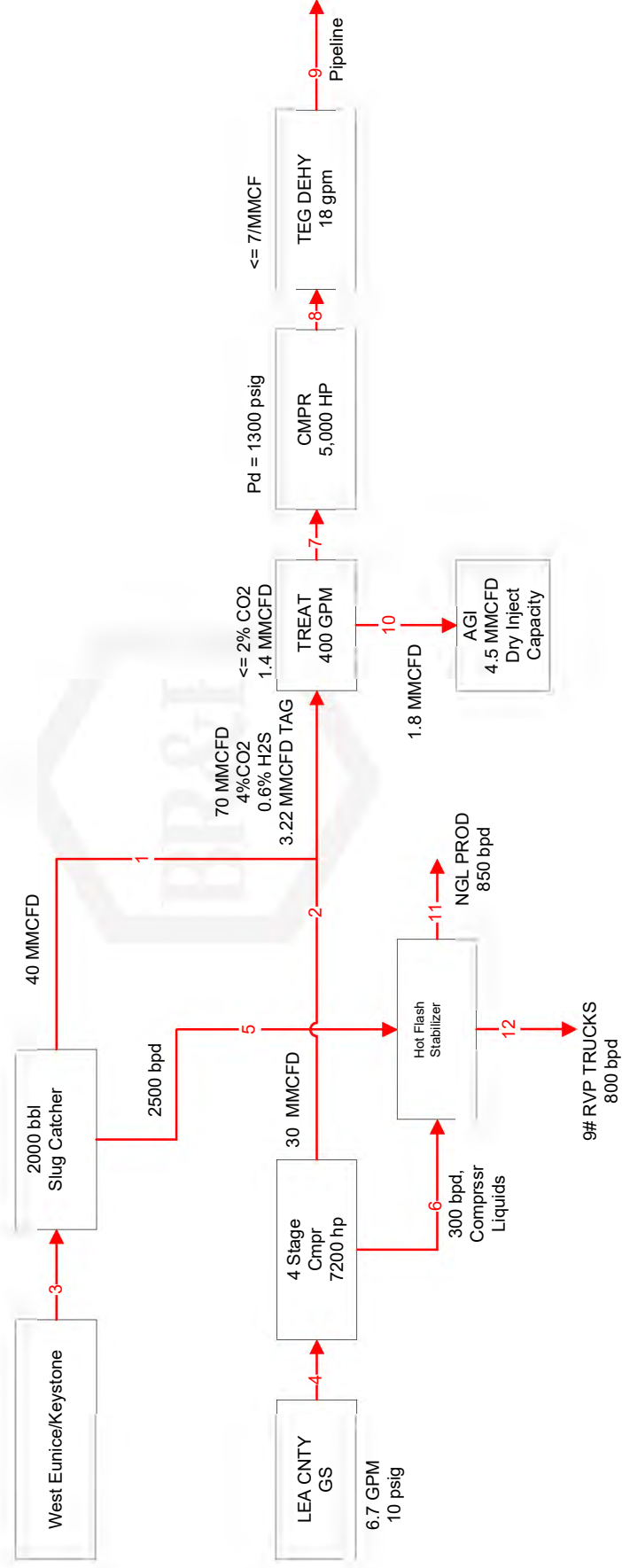
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A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

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A process flow sheet is provided in this section.

Jal 3 Shutdown Cryo  
Install new Treater  
Rev2  
02/9/2022



# Section 5

## Plot Plan Drawn To Scale

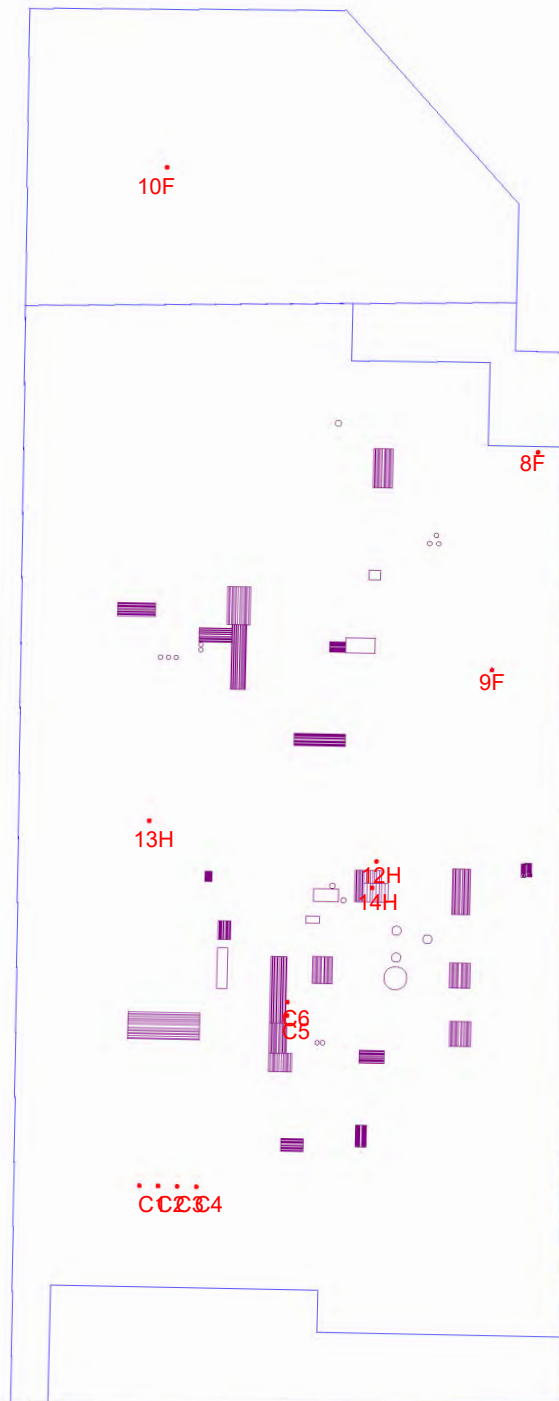
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A **plot plan drawn to scale** showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

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A current plot plan of the Facility is provided in this section.

# Facility Layout





# Section 6

## All Calculations

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**Show all calculations** used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

**Tank Flashing Calculations:** The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

**SSM Calculations:** It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). 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 calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

**Glycol Dehydrator Calculations:** The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

**Road Calculations:** Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

### Significant Figures:

**A.** All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.

**B.** At least 5 significant figures shall be retained in all intermediate calculations.

**C.** In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

- (1) If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
- (2) If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; **and**
- (3) If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
- (4) The final result of the calculation shall be expressed in the units of the standard.

**Control Devices:** In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device

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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Site-wide emissions calculations are included in this section.

**TABLE 6-1  
POTENTIAL EMISSIONS SUMMARY  
JAL #3 GAS PLANT  
ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO**

Emissions Source	Unit ID	NO <sub>x</sub>		VOC		CO		PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		H <sub>2</sub> S		Total HAP		Formaldehyde		Acetaldehyde		Acrolein		Other HAPs	
		(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)
<b>Equipment</b>																							
3550 Hp Caterpillar 3612	C1	3.91	17.12	1.96	8.59	2.15	9.42	0.27	1.17	0.38	1.67	--	--	0.43	1.89	0.20	0.89	0.04	0.17	0.14	0.60	0.19	0.83
3550 Hp Caterpillar 3612	C2	3.91	17.12	1.96	8.59	2.15	9.42	0.27	1.17	0.38	1.67	--	--	0.43	1.89	0.20	0.89	0.04	0.17	0.14	0.60	0.19	0.83
3550 Hp Caterpillar 3612	C3	3.91	17.12	1.96	8.59	2.15	9.42	0.27	1.17	0.38	1.67	--	--	0.43	1.89	0.20	0.89	0.04	0.17	0.14	0.60	0.19	0.83
3550 Hp Caterpillar 3612	C4	3.91	17.12	1.96	8.59	2.15	9.42	0.27	1.17	0.38	1.67	--	--	0.43	1.89	0.20	0.89	0.04	0.17	0.14	0.60	0.19	0.83
1875 Hp Caterpillar 3606	C5	1.24	5.43	2.46	10.76	2.06	9.04	0.14	0.62	0.01	0.04	--	--	0.49	2.16	0.37	1.63	0.02	0.09	0.07	0.32	0.10	0.44
1875 Hp Caterpillar 3606	C6	1.24	5.43	2.46	10.76	2.06	9.04	0.14	0.62	0.01	0.04	--	--	0.49	2.16	0.37	1.63	0.02	0.09	0.07	0.32	0.10	0.44
Hot Oil Heater (28 MMBTU/hr)	12H	2.75	12.02	0.15	0.66	2.31	10.10	0.21	0.91	0.02	0.07	--	--	--	--	--	--	--	--	--	--	--	--
Dehy Reboiler	13H	0.20	0.86	0.01	0.05	0.16	0.72	0.01	0.07	0.001	0.01	--	--	--	--	--	--	--	--	--	--	--	--
Stabilizer Heater	14H	0.98	4.29	0.05	0.24	0.82	3.61	0.07	0.33	0.01	0.03	--	--	--	--	--	--	--	--	--	--	--	--
NE Flare	8F	--	--	3.93	3.39	--	--	--	--	--	--	0.097	0.090	0.47	0.15	--	--	--	--	--	--	0.47	0.15
NE Flare	8F	2.08	4.12	0.38	1.67	4.15	8.22	--	--	9.10	8.52	--	--	--	--	--	--	--	--	--	--	--	--
Plant Flare	10F	0.40	1.76	1443.47	6.13	--	--	--	--	1250.00	5.31	24.15	0.10	9.46	0.04	--	--	--	--	--	--	9.46	0.04
Plant Flare - MSS	10F	413.87	3.52	0.41	1.79	827.05	7.03	--	--	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--
Acid Gas Flare	9F	0.32	1.38	0.14	0.61	0.63	2.76	--	--	9.11	39.91	0.10	0.42	192.80	0.07	--	--	--	--	--	--	192.80	0.57
Acid Gas Flare	9F	--	--	4.53	19.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Scrubber liquids tank	TK-3	--	--	0.13	0.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Scrubber liquids tank	TK-4	--	--	0.13	0.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Scrubber liquids tank	TK-46	--	--	1.35	5.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Scrubber Oil Tank	TK-519C	--	--	0.020	0.089	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Water Tank	TK-519A	--	--	0.000002	0.00001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gunbarrel	TK-519	--	--	0.00061	0.0027	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Condensate Loading	LOADOUT	--	--	41.75	29.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Scrubber Oil Loading	LOAD	--	--	0.17	0.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Site Fugitives	FUG-1	--	--	3.97	34.75	--	--	--	--	--	--	<0.01	0.77	--	--	--	--	--	--	--	--	--	--
Site Fugitives	FUG-2	--	--	0.0001	0.61	--	--	--	--	--	--	<0.01	0.35	--	--	--	--	--	--	--	--	--	--
<b>Total Facility Emissions</b>		<b>438.71</b>	<b>107.31</b>	<b>1513.35</b>	<b>162.89</b>	<b>847.86</b>	<b>88.20</b>	<b>1.65</b>	<b>7.21</b>	<b>1269.78</b>	<b>60.61</b>	<b>24.35</b>	<b>1.73</b>	<b>205.44</b>	<b>12.14</b>	<b>1.56</b>	<b>6.82</b>	<b>0.19</b>	<b>0.84</b>	<b>0.69</b>	<b>3.04</b>	<b>203.69</b>	<b>4.98</b>
Venting	MSS-1	--	--	2.2	0.7	--	--	--	--	--	--	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--
Malfunction	Malfunction	--	10.0	--	10.0	--	10.0	--	--	10.0	--	--	10.0	--	--	--	--	--	--	--	--	--	--
Dehy Flare Combustion of SSM Emissions	9F SSM	2.0	7.6	0.4	6.6	16.4	25.1	--	--	3820.9	130.4	40.6	1.5	--	--	--	--	--	--	--	--	--	--
Inlet Flare Combustion of SSM Emissions	10F SSM	430.1	--	1008.6	--	1630.6	--	--	--	2773.2	--	29.5	--	--	--	--	--	--	--	--	--	--	--
C1 - C6 SSM	C1 - C6 SSM	--	--	5.0	0.5	21.5	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total SSM and Malfunction Emissions</b>		<b>432.1</b>	<b>17.6</b>	<b>1016.2</b>	<b>17.8</b>	<b>1668.5</b>	<b>37.2</b>	<b>--</b>	<b>--</b>	<b>6594.1</b>	<b>140.4</b>	<b>70.1</b>	<b>11.5</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>

**TABLE 6-2  
POTENTIAL EMISSIONS FROM  
CATERPILLAR 3612 (C1)  
JAL #3 GAS PLANT  
ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO**

Pollutant	Horsepower	Operating Hours	Emission Factors		Potential Emission Rate <sup>3</sup>	
			(grams/Hp-hr) <sup>1</sup>	(lb/MMBtu) <sup>2</sup>	(lb/hr)	(T/yr)
NO <sub>x</sub>	3,550	8,760	0.50	--	3.91	17.12
VOC	3,550	8,760	0.22	--	1.72	7.53
CO	3,550	8,760	0.28	--	2.15	9.42
SO <sub>2</sub>	3,550	8,760	0.04885	--	0.38	1.67
PM <sub>10</sub>	3,550	8,760	--	0.009987	0.27	1.17
HCHO	3,550	8,760	0.026	--	0.20	0.89
Benzene	3,550	8,760	--	0.00044	0.01	0.05
Acetaldehyde	3,550	8,760	--	0.00142	0.04	0.17
Acrolein	3,550	8,760	--	0.00514	0.14	0.60
Ethylbenzene	3,550	8,760	--	0.00004	0.001	0.005
N-Hexane	3,550	8,760	--	0.00110	0.03	0.13
Toluene	3,550	8,760	--	0.00041	0.01	0.05

Notes:

1. Emission factors for NO<sub>x</sub>, VOC, formaldehyde, and CO are based on manufacturer data, with a safety factor on NO<sub>x</sub>.
2. Emission factors for SO<sub>2</sub>, PM<sub>10</sub>, and benzene obtained from AP-42, Table 3.2-2, 4-stroke lean-burn engines, 7/00.  
The acetaldehyde factor reflects a reduction due to the catalyst.
3. Potential emissions based on emission factors, maximum horsepower, fuel consumption rate of 6,795 Btu/Hp-hr, operation of an oxidation catalyst, and 8,760 hours of operation per year.

**TABLE 6-3  
POTENTIAL EMISSIONS FROM  
CATERPILLAR 3612 (C2)  
JAL #3 GAS PLANT  
ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO**

Pollutant	Horsepower	Operating Hours	Emission Factors		Potential Emission Rate <sup>3</sup>	
			(grams/Hp-hr) <sup>1</sup>	(lb/MMBtu) <sup>2</sup>	(lb/hr)	(T/yr)
NO <sub>x</sub>	3,550	8,760	0.50	--	3.91	17.12
VOC	3,550	8,760	0.22	--	1.72	7.53
CO	3,550	8,760	0.28	--	2.15	9.42
SO <sub>2</sub>	3,550	8,760	0.04885	--	0.38	1.67
PM <sub>10</sub>	3,550	8,760	--	0.009987	0.27	1.17
HCHO	3,550	8,760	0.026	--	0.20	0.89
Benzene	3,550	8,760	--	0.00044	0.01	0.05
Acetaldehyde	3,550	8,760	--	0.00142	0.04	0.17
Acrolein	3,550	8,760	--	0.00514	0.14	0.60
Ethylbenzene	3,550	8,760	--	0.00004	0.001	0.005
N-Hexane	3,550	8,760	--	0.00110	0.03	0.13
Toluene	3,550	8,760	--	0.00041	0.01	0.05

Notes:

1. Emission factors for NO<sub>x</sub>, VOC, formaldehyde, and CO are based on manufacturer data, with a safety factor on NO<sub>x</sub>.
2. Emission factors for SO<sub>2</sub>, PM<sub>10</sub>, and benzene obtained from AP-42, Table 3.2-2, 4-stroke lean-burn engines, 7/00.  
The acetaldehyde factor reflects a reduction due to the catalyst.
3. Potential emissions based on emission factors, maximum horsepower, fuel consumption rate of 6,795 Btu/Hp-hr, operation of an oxidation catalyst, and 8,760 hours of operation per year.

**TABLE 6-4**  
**POTENTIAL EMISSIONS FROM**  
**CATERPILLAR 3612 (C3)**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Pollutant	Horsepower	Operating Hours	Emission Factors		Potential Emission Rate <sup>3</sup>	
			(grams/Hp-hr) <sup>1</sup>	(lb/MMBtu) <sup>2</sup>	(lb/hr)	(T/yr)
NO <sub>x</sub>	3,550	8,760	0.50	--	3.91	17.12
VOC	3,550	8,760	0.22	--	1.72	7.53
CO	3,550	8,760	0.28	--	2.15	9.42
SO <sub>2</sub>	3,550	8,760	0.04885	--	0.38	1.67
PM <sub>10</sub>	3,550	8,760	--	0.009987	0.27	1.17
HCHO	3,550	8,760	0.026	--	0.20	0.89
Benzene	3,550	8,760	--	0.00044	0.01	0.05
Acetaldehyde	3,550	8,760	--	0.00142	0.04	0.17
Acrolein	3,550	8,760	--	0.00514	0.14	0.60
Ethylbenzene	3,550	8,760	--	0.00004	0.001	0.005
N-Hexane	3,550	8,760	--	0.00110	0.03	0.13
Toluene	3,550	8,760	--	0.00041	0.01	0.05

Notes:

1. Emission factors for NO<sub>x</sub>, VOC, formaldehyde, and CO are based on manufacturer data, with a safety factor on NO<sub>x</sub>.
2. Emission factors for SO<sub>2</sub>, PM<sub>10</sub>, and benzene obtained from AP-42, Table 3.2-2, 4-stroke lean-burn engines, 7/00.  
The acetaldehyde factor reflects a reduction due to the catalyst.
3. Potential emissions based on emission factors, maximum horsepower, fuel consumption rate of 6,795 Btu/Hp-hr, operation of an oxidation catalyst, and 8,760 hours of operation per year.

**TABLE 6-5  
POTENTIAL EMISSIONS FROM  
CATERPILLAR 3612 (C4)  
JAL #3 GAS PLANT  
ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO**

Pollutant	Horsepower	Operating Hours	Emission Factors		Potential Emission Rate <sup>3</sup>	
			(grams/Hp-hr) <sup>1</sup>	(lb/MMBtu) <sup>2</sup>	(lb/hr)	(T/yr)
NO <sub>x</sub>	3,550	8,760	0.50	--	3.91	17.12
VOC	3,550	8,760	0.22	--	1.72	7.53
CO	3,550	8,760	0.28	--	2.15	9.42
SO <sub>2</sub>	3,550	8,760	0.04885	--	0.38	1.67
PM <sub>10</sub>	3,550	8,760	--	0.009987	0.27	1.17
HCHO	3,550	8,760	0.026	--	0.20	0.89
Benzene	3,550	8,760	--	0.00044	0.01	0.05
Acetaldehyde	3,550	8,760	--	0.00142	0.04	0.17
Acrolein	3,550	8,760	--	0.00514	0.14	0.60
Ethylbenzene	3,550	8,760	--	0.00004	0.001	0.005
N-Hexane	3,550	8,760	--	0.00110	0.03	0.13
Toluene	3,550	8,760	--	0.00041	0.01	0.05

Notes:

1. Emission factors for NO<sub>x</sub>, VOC, formaldehyde, and CO are based on manufacturer data, with a safety factor on NO<sub>x</sub>.
2. Emission factors for SO<sub>2</sub>, PM<sub>10</sub>, and benzene obtained from AP-42, Table 3.2-2, 4-stroke lean-burn engines, 7/00.  
The acetaldehyde factor reflects a reduction due to the catalyst.
3. Potential emissions based on emission factors, maximum horsepower, fuel consumption rate of 6,795 Btu/Hp-hr, operation of an oxidation catalyst, and 8,760 hours of operation per year.

**TABLE 6-6**  
**POTENTIAL EMISSIONS FROM**  
**CATERPILLAR 3606 (C5)**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Pollutant	Horsepower	Operating Hours	Emission Factors		Potential Emission Rate <sup>3</sup>	
			(grams/Hp-hr) <sup>1</sup>	(lb/MMBtu) <sup>2</sup>	(lb/hr)	(T/yr)
NO <sub>x</sub>	1,875	8,760	0.30	--	1.24	5.43
VOC	1,875	8,760	0.50	--	2.06	9.04
CO	1,875	8,760	0.50	--	2.06	9.04
SO <sub>2</sub>	1,875	8,760	--	0.000588	0.01	0.04
PM <sub>10</sub>	1,875	8,760	--	0.009987	0.14	0.62
HCHO	1,875	8,760	0.090	--	0.37	1.63
Benzene	1,875	8,760	--	0.00044	0.01	0.03
Acetaldehyde	1,875	8,760	--	0.00142	0.02	0.09
Acrolein	1,875	8,760	--	0.00514	0.07	0.32
Ethylbenzene	1,875	8,760	--	0.00004	0.001	0.002
N-Hexane	1,875	8,760	--	0.00110	0.02	0.07
Toluene	1,875	8,760	--	0.00041	0.01	0.03

Notes:

1. Emission factors for NO<sub>x</sub>, VOC, formaldehyde, and CO are based on manufacturer data, with a safety factor on NO<sub>x</sub>.
2. Emission factors for SO<sub>2</sub>, PM<sub>10</sub>, and benzene obtained from AP-42, Table 3.2-2, 4-stroke lean-burn engines, 7/00.  
The acetaldehyde factor reflects a reduction due to the catalyst.
3. Potential emissions based on emission factors, maximum horsepower, fuel consumption rate of 6,811 Btu/Hp-hr, operation of an oxidation catalyst, and 8,760 hours of operation per year.



**TABLE 6-7**  
**POTENTIAL EMISSIONS FROM**  
**CATERPILLAR 3606 (C6)**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Pollutant	Horsepower	Operating Hours	Emission Factors		Potential Emission Rate <sup>3</sup>	
			(grams/Hp-hr) <sup>1</sup>	(lb/MMBtu) <sup>2</sup>	(lb/hr)	(T/yr)
NO <sub>x</sub>	1,875	8,760	0.30	--	1.24	5.43
VOC	1,875	8,760	0.50	--	2.06	9.04
CO	1,875	8,760	0.50	--	2.06	9.04
SO <sub>2</sub>	1,875	8,760	--	0.000588	0.01	0.04
PM <sub>10</sub>	1,875	8,760	--	0.009987	0.14	0.62
HCHO	1,875	8,760	0.090	--	0.37	1.63
Benzene	1,875	8,760	--	0.00044	0.01	0.03
Acetaldehyde	1,875	8,760	--	0.00142	0.02	0.09
Acrolein	1,875	8,760	--	0.00514	0.07	0.32
Ethylbenzene	1,875	8,760	--	0.00004	0.001	0.002
N-Hexane	1,875	8,760	--	0.00110	0.02	0.07
Toluene	1,875	8,760	--	0.00041	0.01	0.03

Notes:

1. Emission factors for NO<sub>x</sub>, VOC, formaldehyde, and CO are based on manufacturer data, with a safety factor on NO<sub>x</sub>.
2. Emission factors for SO<sub>2</sub>, PM<sub>10</sub>, and benzene obtained from AP-42, Table 3.2-2, 4-stroke lean-burn engines, 7/00.  
The acetaldehyde factor reflects a reduction due to the catalyst.
3. Potential emissions based on emission factors, maximum horsepower, fuel consumption rate of 6,811 Btu/Hp-hr, operation of an oxidation catalyst, and 8,760 hours of operation per year.

**TABLE 6-8**  
**POTENTIAL EMISSIONS FROM**  
**HOT OIL HEATER (12H)**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Pollutant	Max Firing Rate (MMBtu/hr)	Gas Heating Value (MMBtu/scf)	Emission Factor (lb/MMSCF) <sup>1</sup>	Potential Emission Rates <sup>2</sup>	
				(lb/hr)	(T/yr)
NO <sub>x</sub>	28.00	1020	100.0	2.75	12.02
VOC	28.00	1020	5.5	0.15	0.66
CO	28.00	1020	84.0	2.31	10.10
SO <sub>2</sub>	28.00	1020	0.60	0.016	0.07
PM <sub>10</sub>	28.00	1020	7.6	0.21	0.91
Benzene	28.00	1020	0.0021	0.00006	0.0003

Notes:

1. Emission factors obtained from AP-42 Table 1.4-1 through 1.4-3 for commercial boilers.
2. Potential emissions based on AP-42 emission factors, maximum firing rate of 28 MMBtu/hr.  
1,020 Btu/scf fuel heating value, and 8,760 hours per year of operation.

**TABLE 6-9**  
**POTENTIAL EMISSIONS FROM**  
**DEHY REBOILER (13H)**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Pollutant	Max Firing Rate (MMBtu/hr)	Gas Heating Value (MMBtu/scf)	Emission Factor (lb/MMSCF) <sup>1</sup>	Potential Emission Rates <sup>3</sup>	
				(lb/hr)	(T/yr)
NO <sub>x</sub>	2.0	1020	100.0	0.20	0.86
VOC	2.0	1020	5.5	0.01	0.05
CO	2.0	1020	84.0	0.16	0.72
SO <sub>2</sub>	2.0	1020	0.6	0.00	0.01
PM <sub>10</sub>	2.0	1020	7.6	0.01	0.07
Benzene	2.0	1020	0.0021	0.000004	0.00002

Notes:

1. Emission factors obtained from AP-42 Table 1.4-1 through 1.4-3 for commercial boilers.
3. Potential emissions based on AP-42 emission factors, maximum firing rate of 2.0 MMBtu/hr.  
1,020 Btu/scf fuel heating value, and 8,760 hours per year of operation.

**TABLE 6-10**  
**POTENTIAL EMISSIONS FROM**  
**STABILIZER HEATER (14H)**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Pollutant	Max Firing Rate (MMBtu/hr)	Gas Heating Value (MMBtu/scf)	Emission Factor (lb/MMSCF) <sup>1</sup>	Potential Emission Rates <sup>3</sup>	
				(lb/hr)	(T/yr)
NO <sub>x</sub>	10.0	1020	100.0	0.98	4.29
VOC	10.0	1020	5.5	0.05	0.24
CO	10.0	1020	84.0	0.82	3.61
SO <sub>2</sub>	10.0	1020	0.6	0.01	0.03
PM <sub>10</sub>	10.0	1020	7.6	0.07	0.33
Benzene	10.0	1020	0.0021	0.00002	0.0001

Notes:

1. Emission factors obtained from AP-42 Table 1.4-1 through 1.4-3 for commercial boilers.
3. Potential emissions based on AP-42 emission factors, maximum firing rate of 10.0 MMBtu/hr, 1,020 Btu/scf fuel heating value, and 8,760 hours per year of operation.

**TABLE 6-11  
POTENTIAL EMISSIONS SUMMARY  
PLANT FLARE (8F)  
JAL #3 GAS PLANT  
ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO**

FLARE FEED AND EXHAUST RATES												FLARE EMISSION RATES							
Feed Rates and Compositions						Flare DRE %	NGL Exhaust Rate		Component Heating Value BTU/SCF	Total Heat Release MMBtu/yr	Total Heat Release MMBtu/hr								
Component	Molecular Weight	Cu Ft/lb	NGL Flare				lb/hr <sup>1</sup>	T/yr											
			lb/hr	MCF/yr	MCF/hr							Pollutant	Emission Factors (lb/MMBtu) <sup>2</sup>	Pilot Gas Emission Rates <sup>3</sup>		Flare Exhaust Emission Rates		Total Potential Emission Rates	
														(lbs/hr)	(T/yr)	(lbs/hr)	(T/yr)	(lbs/hr)	(T/yr)
H2S	34	11.1351	4.83	100.76	0.04	98%	0.10	0.09	586.80	59.13	0.02								
N2	28	13.5460	--	--	--	--	--	--	--	--	--								
SO2			--	--	--	--	9.10	8.52		--	--								
CO2	44	8.6229	20,761.45	335,166.07	119.35	0%	20,761.45	19,434.65	--	--	--								
C1	16	23.6540	488.69	21,641.59	7.71	98%	9.77	9.15	909.40	19,680.86	7.01	NOx	0.138	0.377	1.65	1.70	2.47	2.08	4.12
C2	30	12.6200	203.44	4,806.68	1.71	98%	4.07	3.81	1,618.70	7,780.57	2.77	VOC	0.14	0.382	1.67	3.93	3.39	4.31	5.07
C3	44	8.6059	113.47	1,828.14	0.65	98%	2.27	2.12	2,314.90	4,231.95	1.51	CO	0.2755	0.752	3.29	3.40	4.93	4.15	8.22
IC4	58	6.5291	8.40	102.74	0.04	98%	0.17	0.16	3,000.40	308.25	0.11	SO2	--	--	--	9.10	8.52	9.10	8.52
NC4	58	6.5291	39.95	488.40	0.17	98%	0.80	0.75	3,010.80	1,470.47	0.52	H2S	--	--	--	0.10	0.09	0.10	0.09
IC5	72	5.2596	4.44	43.77	0.02	98%	0.09	0.08	3,699.00	161.89	0.06	Flaring Period : <u>8760</u> hrs/yr  Flare Pilot and Shepard Ring Rating: <u>2.7</u> MMBtu/hr							
NC5	72	5.2596	6.05	59.54	0.02	98%	0.12	0.11	3,706.90	220.70	0.08								
Benzene	86	4.4035	23.39	192.80	0.0687	98%	0.4677	0.15	3,707.90	714.88	0.25								
C6+	86	4.4035	0.60	262.26	0.00	98%	0.01	0.01	4,403.80	1,154.94	0.01								
Total		--	21,654.72	364,692.73	129.77	--	20,788.42	19,459.61	--	35,783.63	12.34								
Total VOC <sup>4</sup>		--	--	--	--	--	3.93	3.39	--	--	--								

Notes:

1. Flare Exhaust (lb/hr) = Total Volume (MCF/hr) x 1000 / (Cu Ft/#) x (100-Flare DRE (%)).
2. Flare CO and NOx emission factors from TCEQ Air Permit Technical Guidance for Chemical Sources: Flares and Vapor Oxidizers, October 2000 RG-109 (Draft), Table 4, high Btu, "other" flare type. VOC based on AP-42 Table 13.5-1 (2/18).
3. Pilot gas potential emissions based on AP-42 emission factors, maximum pilot/shepard ring gas rate of 2.7 MMBtu/hr, 1,020 Btu/scf fuel heating value, and continuous operations of 8,760 hours of operation per year.
4. Total VOC includes components C3, IC4, NC4, IC5, NC5, & C6+

**TABLE 6-12  
POTENTIAL EMISSIONS SUMMARY  
PLANT FLARE (10F)  
JAL #3 GAS PLANT  
ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO**

FLARE FEED AND EXHAUST RATES																						
Feed Rates and Compositions							Flare DRE	PROCESS-1 Exhaust Rates		Component Heating Value	Heat Release		FLARE EMISSION RATES									
Component	Molecular Weight	Cu Ft/lb	Process Vents (PROCESS-1)					%	lb/hr <sup>1</sup>		T/yr	BTU/SCF	MMBtu/hr	MMBtu/yr	Pollutant	Emission Factors (lb/MMBtu) <sup>2</sup>	Pilot Gas Emission Rates <sup>3</sup>		Flare Exhaust Emission Rates		Total Potential Emission Rates	
			lb/hr	T/yr	MCF/hr	MCF/yr											(lbs/hr)	(T/yr)	(lbs/hr)	(T/yr)	(lbs/hr)	(T/yr)
H2S	34	11.1351	1,207.61	10,264.70	13.447	114.299	98%	24.15	0.10	586.8	7.89063	67.07036	NOx VOC CO SO2 H2S	0.138 0.14 0.2755 -- --	0.40 0.41 0.80 -- --	1.76 1.79 3.52 -- --	413.87 1443.47 826.25 1250.00 24.15	1.76 6.13 3.51 5.31 0.10	414.28 1443.88 827.05 1250.00 24.15	3.52 7.92 7.03 5.31 0.10		
N2	28	13.5460	2,615.15	11.11	35.42	301.11	--	2615.15	11.11	--	--	--										
SO2								1,250.000	5.31	--	--	--										
CO2	44	8.6229	5,937.83	25.24	51.20	435.21	--	5937.83	25.24	--	--	--										
C1	16	23.6540	53,196.46	226.08	1,258.31	10,695.63	98%	1063.93	4.52	909.4	1,144.306	9,726.60										
C2	30	12.6200	21,115.93	89.74	266.48	2,265.11	98%	422.32	1.79	1,618.7	431.356	3,666.53										
C3	44	8.6059	21,823.62	92.75	187.81	1,596.40	98%	436.47	1.86	2,314.9	434.766	3,695.51										
IC4	58	6.5291	1,711.12	7.27	11.17	94.96	98%	34.22	0.15	3,000.4	33.521	284.93										
NC4	58	6.5291	14,859.72	63.15	97.02	824.68	98%	297.19	1.26	3,010.8	292.110	2,482.93										
IC5	72	5.2596	9,436.79	40.11	49.63	421.89	98%	188.74	0.80	3,699.0	183.595	1,560.56										
NC5	72	5.2596	9,020.46	38.34	47.44	403.27	98%	180.41	0.77	3,706.9	175.870	1,494.90										
Benzene	86	4.4035	473.11	2.01	2.08	17.71	98%	9.46	0.04	3,707.9	7.725	65.66										
C6+	86	4.4035	14,848.64	63.11	65.39	555.78	98%	296.973	1.26	4,403.8	287.947	2,447.55										
Total		--	156,246.44	10,923.62	2,085.4	17,726.0	--	12756.85	54.22	--	2999.09	25492.23										
Total VOC <sup>4</sup>		--	--	--	--	--	--	1443.47	6.13	--	--	--										
Flaring Period :													8760	hrs/yr								
Flare Pilot/Sweep Gas Rating:													2.92	MMBtu/hr								
Process Gas Flaring:													8.5	hrs/yr								
Closed Drain & Cond. Re-run Tank Gas Volume:																						
50000													Maximum daily rate (Mcf/d)									
50000													Avg daily throughput (Mcf/day)									
													17,708.33	Annual Max. throughput (Mcf)								

Notes:

1. Flare Exhaust (lb/hr) = Total Volume (MCF/hr) x 1000 / (Cu Ft/#) x (100-Flare DRE (%)). Process vents include vapors from equipment such as stabilizer compressors, closed drain tanks, and condensate re-run tanks. Volumes are conservatively assumed to be 50000.0 Mcf/day of gas.
2. Flare CO and NOx emission factors from TCEQ Air Permit Technical Guidance for Chemical Sources: Flares and Vapor Oxidizers, October 2000 RG-109 (Draft), Table 4, high Btu, "other" flare type. VOC based on AP-42 Table 13.5-1 (2/18).
3. Pilot gas potential emissions based on AP-42 emission factors, maximum pilot/sweep gas rate of 2.92 MMBtu/hr, 1,020 Btu/scf fuel heating value, and continuous operations of 8,760 hours of operation per year.
4. Total VOC includes components C3, IC4, NC4, IC5, NC5, & C6+

**TABLE 6-13  
POTENTIAL EMISSIONS SUMMARY  
TREATMENT FLARE (9F)  
JAL #3 GAS PLANT  
ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO**

FLARE FEED AND EXHAUST RATES													FLARE EMISSION RATES										
Feed Rates and Compositions								Flare DRE %	Flare Exhaust Rate		Component Heating Value BTU/SCF	Total Heat Release MMBtu/yr									Total Heat Release MMBtu/hr		
Component	Molecular Weight	Cu Ft/lb	DEHY-2		AMINE																		
			lb/hr	MCF/hr	lb/hr	T/yr	MCF/hr																
H2S	34	11.1351	0.01	0.00	4.83	100.76	0.04	98%	0.097	0.42	586.80	0.00	0.00	Pollutant	Emission Factors (lb/MMBtu) <sup>2</sup>	Pilot Gas Emission Rates <sup>3</sup>		Flare Exhaust Emission Rates		Total Potential Emission Rates			
N2	28	13.5460	--	--	--	--	--	--			--	--	--			(lbs/hr)	(T/yr)	(lbs/hr)	(T/yr)	(lbs/hr)	(T/yr)		
SO2			--	--	--	--	--	--	9.11	39.91		--	--										
CO2	44	8.6229	--	--	20,761.45	335,166.07	119.35	0%	--	--	--	--	--										
C1	16	23.6540	3.99	0.09	488.69	21,641.59	7.71	98%	9.854	43.16	909.40	0.09	0.09			NOx	0.138	0.138	0.60	0.18	0.78	0.32	1.38
C2	30	12.6200	7.18	0.09	203.44	4,806.68	1.71	98%	4.21	18.45	1,618.70	0.15	0.15			VOC	0.14	0.140	0.61	4.53	19.85	4.67	20.46
C3	44	8.6059	14.07	0.12	113.47	1,828.14	0.65	98%	2.55	11.17	2,314.90	0.28	0.28	CO	0.2755	0.276	1.21	0.35	1.55	0.63	2.76		
IC4	58	6.5291	2.99	0.02	8.40	102.74	0.04	98%	0.23	1.00	3,000.40	0.06	0.06	SO2	--	--	--	9.11	39.91	9.11	39.91		
NC4	58	6.5291	14.95	0.10	39.95	488.40	0.17	98%	1.10	4.81	3,010.80	0.29	0.29	H2S	--	--	--	0.10	0.42	0.10	0.42		
IC5	72	5.2596	6.39	0.03	4.44	43.77	0.02	98%	0.22	0.95	3,699.00	0.12	0.12	Flaring Period : <u>8760</u> hrs/yr									
NC5	72	5.2596	9.03	0.05	6.05	59.54	0.02	98%	0.30	1.32	3,706.90	0.18	0.18										
Benzene	86	4.4035	--	--	23.39	192.80	0.0687	98%	--	--	3,707.90	--	--	Flare Pilot and Shepard Ring Rating: <u>1.0</u> MMBtu/hr									
C6+	86	4.4035	6.26	0.03	0.60	262.26	0.00	98%	0.14	0.60	4,403.80	0.12	0.12										
Total		--	64.86	0.53	21,654.724	364,692.733	129.772	--	27.81	121.79	--	1.29	1.29										
Total VOC <sup>4</sup>		--						--	4.53	19.85	--		--										

Notes:

Dehy has 50% safety factor applied

1. Flare Exhaust (lb/hr) = Total Volume (MCF/hr) x 1000 / (Cu Ft/#) x (100-Flare DRE (%)). Dehy and Amine rates from Promax process simulation with a 50% safety factor).
2. Flare CO and NOx emission factors from TCEQ Air Permit Technical Guidance for Chemical Sources: Flares and Vapor Oxidizers, October 2000 RG-109 (Draft), Table 4, high Btu, "other" flare type. VOC based on AP-42 Table 13.5-1 (2/18).
3. Pilot gas potential emissions based on AP-42 emission factors, maximum pilot/shepard ring gas rate of 1.0 MMBtu/hr, 1,020 Btu/scf fuel heating value, and continuous operations of 8,760 hours of operation per year.
4. Total VOC includes components C3, IC4, NC4, IC5, NC5, & C6+

**TABLE 6-14**  
**POTENTIAL EMISSIONS FROM**  
**STORAGE TANKS - TRAIN 1**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Source	FIN	Annual Throughput <sup>1</sup> (gallons/year)	Tank Capacity (barrels)	Potential VOC Emissions <sup>1</sup>			
				Annual Breathing Losses <sup>2</sup> (lbs)	Annual Working Losses <sup>2</sup> (lbs)	VOC Emissions <sup>5</sup>	
						(lb/hr)	(T/yr)
Scrubber liquids tank	TK-3	11,200	210	1,050.39	88.63	0.13	0.57
Scrubber liquids tank	TK-4	11,200	210	1,050.39	88.63	0.13	0.57
Scrubber liquids tank	TK-46	11,200	107	794.61	10,989.08	1.35	5.89
Scrubber Oil Tank	TK-519C	735,840	500	-	-	0.020	0.089
Water Tank	TK-519A	7,665,000	500	-	-	0.0000016	0.0000070
Gunbarrel	TK-519	8,400,840	600	-	-	0.00061	0.0027
						1.63	7.12

Notes:

1. Based on maximum expected annual condensate and sump tank throughputs.
2. Annual breathing and working losses were calculated using AP-42 Section 7 calculations. Note that all tanks have negligible flash losses.
3. Annual VOC losses from Vertical Roof Tanks were estimated using AP-42 Section 7 calculations.
4. Benzene emissions based on benzene % of condensate analysis and assuming 1% of VOC emissions for diesel and gasoline.
5. Emission Calculation Examples:

Total Annual VOC Emissions (T/yr) = (Breathing Losses (lbs) + Working Losses (lbs)) / 2000

95% of Vapors from TK-519, TK-519A, and TK-519C are captured by a VRU. Emissions are calculated using Promax.



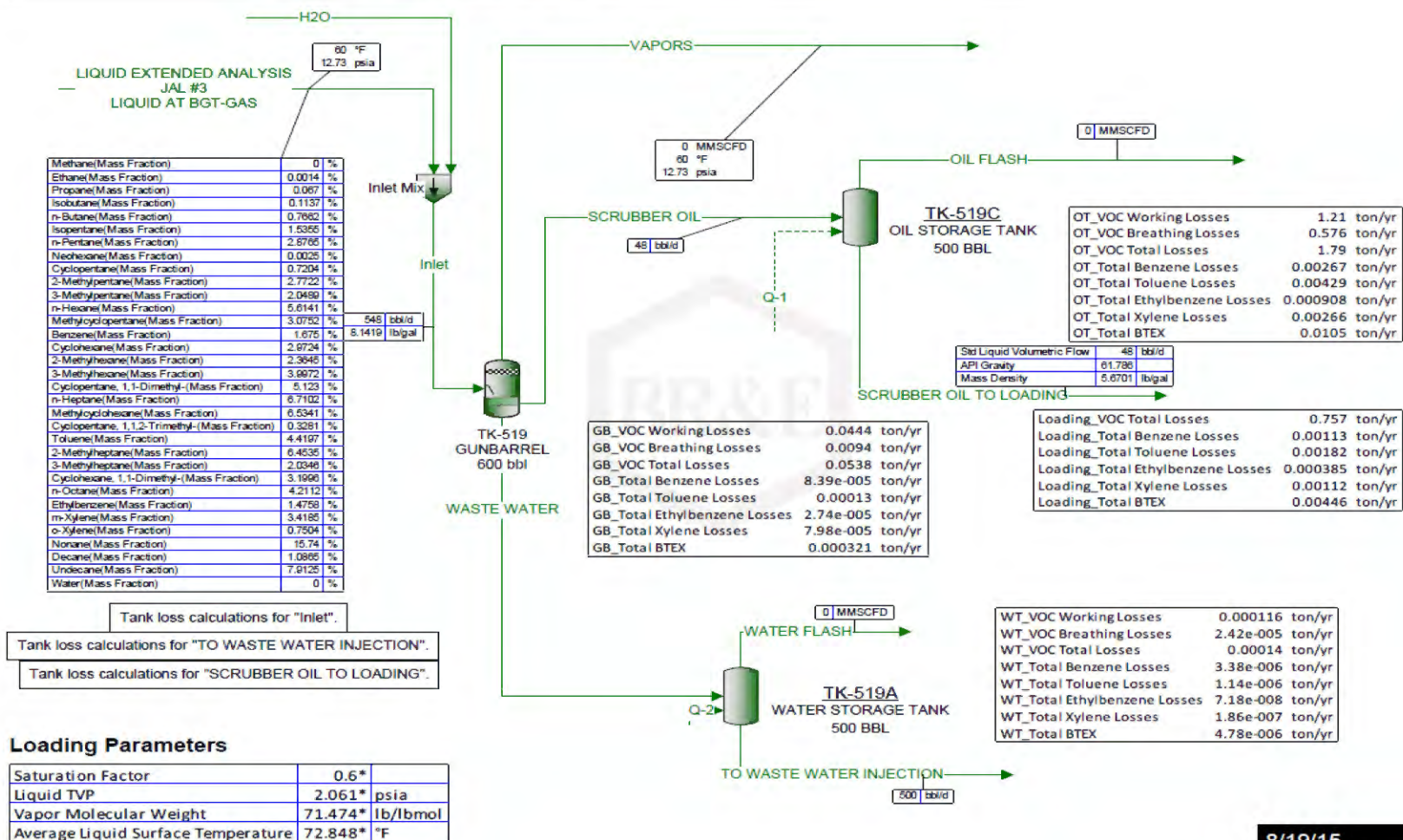
TABLE 6-15

**POTENTIAL EMISSIONS SUMMARY**  
**AP-42 SECTION 7 FIXED-ROOF TANK EMISSIONS**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Tank Identification	TK-3 & TK-4	TK-46
Actual Location	Midland, TX	Midland, TX
Location for Calculation Purposes	Roswell, New Mexico	Roswell, New Mexico
Contents of Tank	Gasoline (RVP 9)	Gasoline (RVP 9)
Tank/Roof Type	Cone	Cone
Underground?	Aboveground	Aboveground
Will flashing occur at the tank?	No	No
Are the tanks vapor balanced?	No	No
Diameter, ft	10.0	10.0
Shell Height or Length, ft	15.0	7.5
Nominal Capacity, gal	210	107
Throughput, gallons/yr	11,200	7,665,000
Tank Paint Color	White	White
Tank Paint Condition	Average	Average
Effective Diameter, ft	10.0	10.0
Geometric Capacity, gal	8,225	3,819
Maximum Liquid Height, ft	14.0	6.5
Average Liquid Height, ft	7.0	3.3
Minimum Liquid Height, ft	1.0	1.0
Cone Tank Roof Slope, ft/ft	0.0625	0.0625
Dome Tank Roof Radius, ft	N/A	N/A
Dome Tank Roof Height, ft	N/A	N/A
Roof Outage, ft	0.104	0.104
Vapor Space Outage, ft	8.10	4.35
Vapor Space Volume, ft <sup>3</sup>	636	342
Average Daily Minimum Ambient Temperature, F	47.60	47.60
Average Daily Maximum Ambient Temperature, F	75.80	75.80
Daily Maximum Ambient Temperature, F	93.90	93.90
Daily Total Solar Insolation Factor, Btu/ft <sup>2</sup> /day	1722	1722
Daily Average Ambient Temperature, F	61.7	61.7
Tank Paint Solar Absorbance, dimensionless	0.250	0.250
Daily Vapor Temperature Range, R	30.6	29.3
Daily Average Liquid Surf. Temperature, F	64.1	64.4
Daily Minimum Liquid Surf. Temperature, F	56.5	57.0
Daily Maximum Liquid Surf. Temperature, F	71.8	71.7
Liquid Bulk Temperature	62.99	62.99
Vapor Molecular Weight, lb/lbmol	67.0	67.0
Antoine's Coefficient A	N/A	N/A
Antoine's Coefficient B	N/A	N/A
Antoine's Coefficient C	N/A	N/A
Type of Substance (for use in calculations)	Gas	Gas
Vapor Pressure at Daily Av. Liquid Surf. Temp., psia	4.998	5.020
Vapor Pressure at Daily Min. Liquid Surf. Temp., psia	4.300	4.348
Vapor Pressure at Daily Max. Liquid Surf. Temp., psia	5.783	5.774
Vapor Pressure Calculation Method	AP-42 Figure 7.1-14b: RVP=9 ASTM Slope=3	AP-42 Figure 7.1-14b: RVP=9 ASTM Slope=3
Vapor Density, lb/ft <sup>3</sup>	0.059571	0.059815
Daily Vapor Pressure range, psi	1.482	1.426
Breather Vent Pressure Setting, psig	0.0300	0.0300
Breather Vent Vacuum Setting, psig	-0.0300	-0.0300
Breather Vent Pressure Setting Range, psi	0.0600	0.0600
Ambient Pressure, psia	12.9	12.9
Vapor Space Expansion Factor	0.2388	0.2297
Vented Vapor Saturation Factor	0.318	0.463
Annual Turnovers	1.47	2371.83
Turnover Factor	1.00	0.18
Working Loss K <sub>B</sub> Factor	0.99	1.00
Working Loss Product Factor	1.00	1.00
Standing Storage Loss, lb/yr	1,050.39	794.61
Working Loss, lb/yr	88.63	10,989.08
Total Losses, lb/yr	1,139.02	11,783.69
Standing Storage Loss, TPY	0.52519	0.39731
Working Loss, TPY	0.04432	5.49454
Total Losses, TPY	0.56951	5.89185

Based on AP-42, June 2020, Section 7.1.3.1.

# Regency Energy JAL #3



8/19/15

**TABLE 6-16**  
**POTENTIAL EMISSIONS FROM**  
**TRUCK LOADING**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Material Name	EU	Saturation Factor <sup>1</sup> (S)	True Vapor Pressure <sup>2</sup> (P)		Molecular Weight of Vapors <sup>2</sup> (M) (lb/lb-mole)	Temp of Loaded Liquid <sup>2</sup> (F)	Max Temp of Loaded Liquid (F)	Emission Factor <sup>1</sup> (lb VOC/10 <sup>3</sup> gal)		Annual Throughput <sup>3</sup> (gals)	Estimated Hourly Throughput <sup>3</sup> (gal)	Total Uncontrolled VOC Emissions	
			Avg	Max				Avg	Max			(lb/hr) <sup>4</sup>	(T/yr) <sup>5</sup>
Condensate Scrubber Oil	LOADOUT LOAD	0.6 -	5.00 -	5.78 -	67.00 -	62.9915 -	95 -	4.786 -	5.22 -	12,264,000 735,840	8,000 -	41.75 0.17	29.35 0.76
											<b>TOTAL</b>	<b>41.92</b>	<b>30.11</b>

Notes:

1. Per AP-42, 5<sup>th</sup> Edition (6/08), Section 5.2, Equation 1

$$\text{Emission Factor (lb VOC/10}^3\text{gal)} = \frac{S \times P \times M \times 12.46}{F + 460}$$

Saturation Factor = 0.6 for submerged loading: dedicated normal service

2. True vapor pressure, weight of vapors and temp of loaded liquid obtained from AP-42 run using Gasoline RVP-9.
3. Throughput is the amount of condensate loaded out from the storage tank. It is estimated that one truck can load 8,000 gallons in one hour.
4. Uncontrolled Hourly VOC Emissions = Estimated Hourly Throughput (gal/hr) x Max Emission Factor (lb VOC/10<sup>3</sup> gal) / 1000  
Emissions from LOAD are calculated using Promax
5. Uncontrolled Annual VOC Emissions = Annual Throughput (gal) x Avg Emission Factor (lb VOC/10<sup>3</sup> gal) / 1000 / 2000 (lb/T)  
Emissions from LOAD are calculated using Promax

TABLE 6-17

**FUGITIVE EMISSIONS (FUG1)**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

## Fugitive Emissions

Emission Unit: 79 & 80  
 Stack ID: FUG 1  
 Source Description: Fugitive Emissions

### Components

	Valves		Pump seals		Connectors		Flanges		Open lines		Other		Stream						KKK?	VOC	H2S
	gas	liq	gas	liq	gas	liq	gas	liq	gas	liq	gas	liq	inlet	residue	product	amine stream *	refrigeran t	acid			
EU 79																				%	%
Fuel gas	277		25				1046				36			X						2%	0.00%
Inlet gas	1648		16				1635		164		18		X						X	22%	0.65%
Scrubber oil gas	172		4				75		34		1				X				X	71%	0.00%
Rich amine		53						159		11		1				X		X	X	0%	15.61%
Sweet gas	44						53		8		1			X					X	2%	0.00%
Dry gas	855						2540		171		1			X					X	2%	0.00%
NGL		86		17				137		17		2			X				X	71%	0.00%
Refrigerant	47	47	2	1			141	141	10	9							X		X	100%	0.00%
Residue	282		9				846		57					X						2%	0.00%
"S" Plant units	48	12	12				360	60			6		X						X	22%	0.65%
"S" Plant refrig	9	9	3	3			30	30			1	1					X		X	100%	0.00%
EU 80																					
Storage tanks (total)		28				100									X					71%	0.00%
Storage tanks (per tk)		7				25										* assumed = acid gas					

### Control Efficiencies

Valves		Pump seals		Connectors		Flanges		Open lines		Other	
gas	liq	gas	liq	gas	liq	gas	liq	gas	liq	gas	liq
67%	61%			45%							

### Total Fittings

Valves		Pump seals		Connectors		Flanges		Open lines		Other	
gas	liq	gas	liq	gas	liq	gas	liq	gas	liq	gas	liq
3382	235	71	21	0	100	6726	527	444	37	64	4

**Emission Calculations--VOCs**

Emission Calculations--VOCs				Factors		(kg/hr/source)								
(lb/yr)	Valves		Pump seals		Connectors		Flanges		Open lines		Other		Total	
Unit	gas	liq	gas	liq	gas	liq	gas	liq	gas	liq	gas	liq	(lb/yr)	
	4.5E-03	2.5E-03	2.4E-03	1.3E-02	2.0E-04	2.1E-04	3.9E-04	1.1E-04	2.0E-03	1.4E-03	8.8E-03	7.5E-03		
EU 79														
Fuel gas	415	0	20	0	0	0	136	0	0	0	106	0	677	
Inlet gas	10379	0	163	0	0	0	2704	0	1391	0	672	0	15309	
Scrubber oil gas	3518	0	132	0	0	0	403	0	937	0	121	0	5111	
Rich amine	0	0	0	0	0	0	0	0	0	0	0	0	1	
Sweet gas	22	0	0	0	0	0	7	0	5	0	3	0	37	
Dry gas	423	0	0	0	0	0	330	0	114	0	3	0	870	
NGL	0	1155	0	1674	0	0	0	208	0	328	0	207	3571	
Refrigerant	1345	883	93	138	0	0	1060	299	385	243	0	0	4445	
Residue	423	0	7	0	0	0	110	0	38	0	0	0	578	
"S" Plant units	302	50	122	0	0	0	595	28	0	0	224	0	1321	
"S" Plant refig	258	169	139	413	0	0	225	64	0	0	170	145	1582	
EU 80													0	
Storage tanks (total)	0	964	0	0	0	289	0	0	0	0	0	0	1253	
													lb/yr	tpy
													34755	17.38
													100% safety factor	34.75

**Emission Calculations -- H2S**

(lb/yr) Unit	Valves		Pump seals		Connectors		Flanges		Open lines		Other		Total (lb/yr)	
	gas	liq	gas	liq	gas	liq	gas	liq	gas	liq	gas	liq		
	4.5E-03	2.5E-03	2.4E-03	1.3E-02	2.0E-04	2.1E-04	3.9E-04	1.1E-04	2.0E-03	1.4E-03	8.8E-03	7.5E-03		
Inlet gas	304	0	5	0	0	0	79	0	41	0	20	0	449	
Rich amine	0	155	0	0	0	0	0	53	0	46	0	23	277	
"S" Plant units	9	1	4	0	0	0	17	1	0	0	7	0	39	
													lb/yr	tpy
													765	0.38
													100% safety factor	0.76

### Inlet gas composition

### Residue gas composition

Component	MW	Wet vol/mol %	Dry vol/mol %	MW * dry vol %	LHV Btu/scf	Btu/scf * dry vol %	Mass Fraction (dry)	Spec. Volume ft <sup>3</sup> /lb	Spec. Volume VOC ft <sup>3</sup> /lb
Water	18.02	0.00%						21.06	
Nitrogen	28.01	2.16%	2.16%	0.605	0	0.00	3.54%	13.547	
CO <sub>2</sub>	44.01	0.00%	0.00%	0.000	0	0.00	0.00%	8.623	
H <sub>2</sub> S	34.08	0.00%	0.00%	0.000	586.71	0.00	0.00%	11.136	
Methane	16.04	93.08%	93.10%	14.936	909.1	846.36	87.42%	23.65	
Ethane	30.07	4.15%	4.15%	1.248	1617.8	67.15	7.31%	12.62	
Propane	44.10	0.38%	0.38%	0.168	2315.9	8.80	0.98%	8.606	5.543
I-Butane	58.12	0.07%	0.07%	0.041	3001	2.10	0.24%	6.529	0.775
N-Butane	58.12	0.10%	0.10%	0.058	3010.5	3.01	0.34%	6.529	1.107
I-Pentane	72.15	0.02%	0.02%	0.014	3697.9	0.74	0.08%	5.26	0.178
N-Pentane	72.15	0.02%	0.02%	0.014	3706.8	0.74	0.08%	5.26	0.178
Hexanes +	86.18	0.00%	0.00%	0.000	4403.9	0.00	0.00%	4.404	0.000
Total		100%	1.00	17.08		929	100%		7.781
Dry total		100.0%			(mixture mol. wt)(mixture heating value)				
	NMHC	4.74%							
	NMEHC (VOC)	0.59%					1.73%		

Product (liquid) composition

Component	MW	Wet vol/mol %	Dry vol/mol %	MW * dry vol %	LHV Btu/scf	Btu/scf * dry vol %	Mass Fraction (dry)	Spec. Volume ft³/lb	Spec. Volume VOC ft³/lb
Water	18.02	0.00%						21.06	
Nitrogen	28.01	0.00%	0.00%	0.000	0	0.00	0.00%	13.547	
CO <sub>2</sub>	44.01	0.00%	0.00%	0.000	0	0.00	0.00%	8.623	
H <sub>2</sub> S	34.08	0.00%	0.00%	0.000	586.71	0.00	0.00%	11.136	
Methane	16.04	0.35%	0.35%	0.056	909.1	3.18	0.13%	23.65	
Ethane	30.07	40.75%	40.75%	12.254	1617.8	659.25	28.40%	12.62	
Propane	44.10	34.10%	34.10%	15.037	2315.9	789.72	34.86%	8.606	4.982
I-Butane	58.12	4.61%	4.61%	2.679	3001	138.35	6.21%	6.529	0.511
N-Butane	58.12	12.00%	12.00%	6.975	3010.5	361.26	16.17%	6.529	1.330
I-Pentane	72.15	1.64%	1.64%	1.183	3697.9	60.65	2.74%	5.26	0.146
N-Pentane	72.15	4.91%	4.91%	3.543	3706.8	182.00	8.21%	5.26	0.438
Hexanes +	86.18	1.64%	1.64%	1.413	4403.9	72.22	3.28%	4.404	0.123
Total		100%	1.00	43.14		2267	100%		7.531
Dry total		100.0%	(mixture mol. wt)(mixture heating value)						
	NMHC	99.65%							
	NMEHC (VOC)	58.90%					71.47%		

Acid gas composition

Component	MW	Wet vol/mol %	Dry vol/mol %	MW * dry vol %	LHV Btu/scf	Btu/scf * dry vol %	Mass Fraction (dry)	Spec. Volume ft³/lb	Spec. Volume VOC ft³/lb
Water	18.02	6.00%						21.06	
Nitrogen	28.01	0.00%	0.00%	0.000	0	0.00	0.00%	13.547	
CO <sub>2</sub>	44.01	74.88%	79.66%	35.058	0	0.00	83.86%	8.623	
H <sub>2</sub> S	34.08	18.00%	19.15%	6.526	586.71	112.35	15.61%	11.136	
Methane	16.04	1.00%	1.06%	0.171	909.1	9.67	0.41%	23.65	
Ethane	30.07	0.10%	0.11%	0.032	1617.8	1.72	0.08%	12.62	
Propane	44.10	0.00%	0.00%	0.000	2315.9	0.00	0.00%	8.606	0.000
I-Butane	58.12	0.00%	0.00%	0.000	3001	0.00	0.00%	6.529	0.000
N-Butane	58.12	0.00%	0.00%	0.000	3010.5	0.00	0.00%	6.529	0.000
I-Pentane	72.15	0.00%	0.00%	0.000	3697.9	0.00	0.00%	5.26	0.000
N-Pentane	72.15	0.00%	0.00%	0.000	3706.8	0.00	0.00%	5.26	0.000
Hexanes +	86.18	0.02%	0.02%	0.018	4403.9	0.94	0.04%	4.404	4.404
Total		100%	1.00	41.81		125	100%		4.404
Dry total		94.0%	(mixture mol. wt)(mixture heating value)						
	NMHC	0.12%							
	NMEHC (VOC)	0.02%					0.04%		

### Refrigerant composition

[illegible]



**FUGITIVE EMISSIONS (FUG2)  
JAL #3 GAS PLANT  
ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO**

Emission Unit: EU81  
Stack ID: FUG 2  
Source Description: Fugitive Emissions  
emission factors from EPA-453/R-95-017

### Emission Calculations--VOCs

### Emission Calculations -- H2S

## Gas Analyses

(from application for 1092-M4)

### Inlet gas composition

### Acid gas composition

Component	MW	Wet vol/mol %	Dry vol/mol %	MW * dry vol %	LHV Btu/scf	Btu/scf * dry vol %	Mass Fraction	Spec. Volume ft <sup>3</sup> /lb	Spec. Volume VOC ft <sup>3</sup> /lb
Water	18.02	6.00%						21.06	
Nitrogen	28.01	0.00%	0.00%	0.000	0	0.00	0.00%	13.547	
CO <sub>2</sub>	44.01	74.88%	79.86%	35.058	0	0.00	83.86%	8.623	
H <sub>2</sub> S	34.08	18.00%	19.15%	6.526	586.71	112.35	15.61%	11.136	
Methane	16.04	1.00%	1.06%	0.171	909.1	9.67	0.41%	23.65	
Ethane	30.07	0.10%	0.11%	0.032	1617.8	1.72	0.08%	12.62	
Propane	44.10	0.00%	0.00%	0.000	2315.9	0.00	0.00%	8.606	0.000
i-Butane	58.12	0.00%	0.00%	0.000	3001	0.00	0.00%	6.529	0.000
n-Butane	58.12	0.00%	0.00%	0.000	3010.5	0.00	0.00%	6.529	0.000
i-Pentane	72.15	0.00%	0.00%	0.000	3697.9	0.00	0.00%	5.26	0.000
n-Pentane	72.15	0.00%	0.00%	0.000	3706.8	0.00	0.00%	5.26	0.000
Hexanes +	86.18	0.02%	0.02%	0.018	4403.9	0.94	0.04%	4.404	4.404
Total		100%	1.00	41.81		125	100%		4.404
Dry total		94.0%			(mixture mol. wt) (mixture heating value)				
		NMHC 0.12%							
		NMHC (VOC) 0.02%					0.04%		

**TABLE 6-19**  
**POTENTIAL EMISSIONS FROM**  
**MSS ACTIVITIES (10F)**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

Summary of MSS Activities						
Activity	VOC <sup>1</sup>		Other HAPs		H <sub>2</sub> S	
	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)
Engine, compressor, turbine and other combustion facilities maintenance	0.12	0.55	-	-	0.001028	0.004501
Repair, adjustment, calibration, lubrication and cleaning of site process equipment			-	-		
Replacement of piping components, pneumatic controllers, boiler refractories, wet and dry seals, meters, instruments, analyzers, screens and filters			-	-		
Turbine or engine component swaps			-	-		
Piping used to bypass a facility during maintenance			-	-		
Pigging and purging of piping	2.04	0.19	-	-	0.01680	0.001533
<b>Total =</b>	<b>2.16</b>	<b>0.73</b>	<b>0.00</b>	<b>0.0000</b>	<b>0.01783</b>	<b>0.006034</b>

**MSS - Pigging Operations**

Description	Pigging
Number of Events per Year	365
Number of Events per hour	2
Volume per Event, scf	50
Stream Specific Gravity	0.6970
Air MW, lb/mole	28.96
Fuel Stream Density, lb/scf	0.053
VOC Percentage in Gas Stream, wt%	38.21%
VOC Hourly Emission Rate (lb/hr):	2.04
VOC Annual Emission Rate (T/yr):	0.19

# Section 6.a

## Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

**Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC)** applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O), methane (CH<sub>4</sub>), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>).

### Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO<sub>2</sub>e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO<sub>2</sub>e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO<sub>2</sub>e emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
5. All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO<sub>2</sub>e emissions for each unit in Table 2-P.
6. For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 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 GHGs as a second separate unit; 3) or check the following ☐ By checking this box, the applicant acknowledges the total CO<sub>2</sub>e emissions are less than 75,000 tons per year.

### Sources for Calculating GHG Emissions:

- Manufacturer's Data
- AP-42 Compilation of Air Pollutant Emission Factors at <http://www.epa.gov/ttn/chief/ap42/index.html>
- EPA's Internet emission factor database WebFIRE at <http://cfpub.epa.gov/webfire/>
- 40 CFR 98 Mandatory Green House Gas Reporting except that tons should be reported in short tons rather than in metric tons for the purpose of PSD applicability.
- API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. August 2009 or most recent version.
- Sources listed on EPA's NSR Resources for Estimating GHG Emissions at <http://www.epa.gov/nsr/clean-air-act-permitting-greenhouse-gases>:

### Global Warming Potentials (GWP):

Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO<sub>2</sub> over a specified time period.

**"Greenhouse gas"** for the purpose of air permit regulations is defined as the aggregate group of the following six gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. **(20.2.70.7 NMAC, 20.2.74.7 NMAC)**. You may also find GHGs defined in 40 CFR 86.1818-12(a).

### Metric to Short Ton Conversion:

Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.

1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

**TABLE 6a-1**  
**ESTIMATION OF FACILITY-WIDE GHG EMISSIONS**  
**JAL #3 GAS PLANT**  
**ETC TEXAS PIPELINE, LTD.**  
**LEA COUNTY, NEW MEXICO**

GHG Emission Source	Total GHG Emissions	
	(m.t. CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)
Natural Gas Combustion	5,912,213	6,517,091
Fugitives Amine Unit	1,555,545	1,714,693
<b>1 Estimated Facility Emissions:</b>	<b>7,467,758</b>	<b>8,231,784</b>

Conversion Factors		Global Warming Potential	
1.10231	ton/m.t.	CO <sub>2</sub>	1
0.001	m.t./kg	CH <sub>4</sub>	
8.760	Hrs/yr	N <sub>2</sub> O	298

CO <sub>2</sub> (mol %)	CH <sub>4</sub> (mol %)	C <sub>2</sub> H <sub>6</sub> (mol %)	C <sub>3</sub> H <sub>8</sub> (mol %)	C <sub>4</sub> H <sub>10</sub> (mol %)	C <sub>5</sub> + CH <sub>4</sub>
2.45766	60.39883	12.79118	9.01497	5.19325	7.85526

\* Processing emissions for compressor, venting and flaring estimated using EPA's 40 CFR Subpart W Onshore Natural Gas Processing Screening Tool  
Mole % CO<sub>2</sub> for Acid gas venting used for screening obtained from process simulation data.

Note:  
Carbon Dioxide Equivalent (CQe) emissions are calculated in the tables below by multiplying emissions by global warming potentials for each pollutant.  
Emissions estimates converted to short tons in the tables below using conversion factor from 40 CFR 98 Subpart A for comparison to PSD/TV thresholds.  
Global Warming Potentials obtained from 40 CFR 98 Subpart A, Table A-1.  
Mol % values obtained from the gas analysis from a representative facility.

Emissions Source	Emission Point Identification	Rated Horsepower	Capacity (MMBtu/hr)	Emissions Factors <sup>1</sup>			Emissions (m.t.)			Emissions (m.t. CO <sub>2</sub> e)			Total Emissions	
				CO <sub>2</sub> (kg/MMBtu)	CH <sub>4</sub> (kg/MMBtu)	N <sub>2</sub> O (kg/MMBtu)	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	(m.t. CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)
CATERPILLAR 3612 (C1)	C1	3,550	26.72	58.32	0.0011	0.00011	13,651.70	0.26	0.026	13,651.70	6.44	7.67	13,666	15,064
CATERPILLAR 3612 (C2)	C2	3,550	26.72	58.32	0.0011	0.00011	13,651.70	0.26	0.026	13,651.70	6.44	7.67	13,666	15,064
CATERPILLAR 3612 (C3)	C3	3,550	26.72	58.32	0.0011	0.00011	13,651.70	0.257	0.0257	13,651.70	6.44	7.67	13,666	15,064
CATERPILLAR 3612 (C4)	C4	3,550	26.72	58.32	0.0011	0.00011	13,651.70	0.257	0.0257	13,651.70	6.44	7.67	13,666	15,064
CATERPILLAR 3606 (C5)	C5	1,875	14.09	58.32	0.0011	0.00011	7,200.83	0.136	0.0136	7,200.83	3.40	4.05	7,208	7,946
CATERPILLAR 3606 (C6)	C6	1,875	14.09	58.32	0.0011	0.00011	7,200.83	0.136	0.0136	7,200.83	3.40	4.05	7,208	7,946
HOT OIL HEATER (12H)	12H	--	28.00	58.32	0.0011	0.00011	14,305.22	0.270	0.0270	14,305.22	6.75	8.04	14,320	15,785
DEHY REBOILER (13H)	13H	--	2.00	58.32	0.0011	0.00011	1,021.80	0.019	0.0019	1,021.80	0.48	0.57	1,023	1,128
STABILIZER HEATER (14H)	14H	--	10.00	58.32	0.0011	0.00011	5,109.01	0.096	0.0096	5,109.01	2.41	2.87	5,114	5,638
<b>Total Natural Gas Combustion:</b>													<b>89,537</b>	<b>98,697</b>

Notes:  
1. Emission factors for GHG obtained from 40 CFR 98 Subpart C, Tables C-1 and C-2.

Source ID Number	Description	Maximum Hours of Operation	Annual Gas Usage (scf/yr)	Annual Gas Processed (scf/yr)	Emissions Factors <sup>1</sup>		Emission Factor N <sub>2</sub> O (m.t./MMscf)	Emissions (m.t.)			Global Warming Potential			Emissions (m.t. CO <sub>2</sub> e)			Total Emissions	
					CO <sub>2</sub> (mol %)	CH <sub>4</sub> (mol %)		CO <sub>2</sub> (m.t.)	CH <sub>4</sub> (m.t.)	N <sub>2</sub> O (m.t.)	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> (m.t. CO <sub>2</sub> e)	CH <sub>4</sub> (m.t. CO <sub>2</sub> e)	N <sub>2</sub> O (m.t. CO <sub>2</sub> e)	(m.t. CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)
8F	PLANT FLARE (8F)	8,760	129,772	364,692,733	0.000	0.00	7.10E-07	1,380,367.17	0.1816	0.0002589	1	25	298	1,380,367.17	4.54	0.07716	1,380,371.79	1,521,597.63
10F	PLANT FLARE (10F)	8,760	2,083,333	17,708,333	0.025	0.60	7.10E-07	67,599.53	4.0930	0.0000126	1	25	298	67,599.53	102.32	0.00375	67,701.86	74,628.44
9F	TREATMENT FLARE (9F)	8,760	130,304	1,141,460,382	0.895	0.01	7.10E-07	4,374,531.34	2.8231	0.0008104	1	25	298	4,374,531.34	70.58	0.24151	4,374,602.16	4,822,167.71
<b>Total Flare Combustion:</b>																	<b>1,380,371.79</b>	<b>6,418,393.78</b>

Note - CO<sub>2</sub> and N<sub>2</sub>O Emissions estimated using API Compendium Section 4.6

**Amine Units - without process simulation**

Source ID Number	Description	Maximum Days of Operation	Annual Gas Processed (MMscf/yr)	Conversion Factor	Emissions <sup>1</sup>			Global Warming Potential			Emissions			Total Emissions	
					CO <sub>2</sub> (tons)	CH <sub>4</sub> (tons)	N <sub>2</sub> O (tons)	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> (m.t. CO <sub>2</sub> e)	CH <sub>4</sub> (m.t. CO <sub>2</sub> e)	N <sub>2</sub> O (m.t. CO <sub>2</sub> e)	(m.t. CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)
AMINE	AMINE UNIT VENT (AMINE)	0	1.10231		19,434.65	45.75	--	1	25	298	17,630.84	1,037.51	--	18,668.34	20,578.30

<sup>1</sup> Emissions estimated using process simulation and a natural gas feed rate of 60 and 40 MMcfd/day.

**Vented Sources**

Emissions Source	Emission Point Identification	Days of Operation	Annual Gas Processed (MMscf/yr)	Default CH <sub>4</sub>			Emission Factor CH <sub>4</sub> (m.t./MMscf)	Emissions (m.t.)			Global Warming Potential			Emissions (m.t. CO <sub>2</sub> e)			Total Emissions	
				Default CH <sub>4</sub> (mol %)	CO <sub>2</sub> (mol %)	CH <sub>4</sub> (mol %)		CO <sub>2</sub> (m.t.)	CH <sub>4</sub> (m.t.)	N <sub>2</sub> O (m.t.)	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> (m.t. CO <sub>2</sub> e)	CH <sub>4</sub> (m.t. CO <sub>2</sub> e)	N <sub>2</sub> O (m.t. CO <sub>2</sub> e)	(m.t. CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)
Pneumatic Devices 1	--	365	40,150	0.868	2.458	60.40	0.0001425	44.55	398.12	--	1	25	298	44.55	9,952.89	--	9,997.44	11,020.28

Note - Emissions estimated using API Compendium Sections 5.7.3 and 6.1 for non-routine events and pneumatic devices

**Fugitive Sources**

Emissions Source	Emission Point Identification	Annual Condensate Production (tbb/yr)	Annual Condensate Production (1,000 gal/yr)	Default Liquid CH <sub>4</sub> Content <sup>1</sup> (mol %)	Emission Factor VOC (lb/1,000 gal)	Emissions		Control (%)	Controlled VOC (m.t.)	Emissions <sup>1</sup>		Total Emissions	
						VOC (tons)	VOC (m.t.)			CH <sub>4</sub> (m.t.)	(m.t. CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)
Condensate Truck Loading 1	LOADOUT	292,000	12,264	27.40	4.79	29.35	26.63	0%	26.63	7.30	182.39	182.39	
Scrubber Oil	LOAD	17,520	736	28.40	-	0.76	0.69	0%	0.69	0.20	4.90	4.90	

Notes:  
1. Default CH<sub>4</sub> content for crude oil per API compendium Section 5.4 and Appendix B.  
2. Emissions estimated using API Compendium, Section 5.5.

Emissions Source	Emission Point Identification	Days of Operation	Annual Gas Processed (MMscf/yr)	Emission Factor CH <sub>4</sub> (m.t./MMscf processed)	Conversion Factor (ton/m.t.)	Default CH <sub>4</sub>			Emissions			Global Warming Potential		Emissions		Total Emissions	
						Default CH <sub>4</sub> (mol %)	CO <sub>2</sub> CH <sub>4</sub> (mol %)	CH <sub>4</sub> (mol wt)	CO <sub>2</sub> CH <sub>4</sub> (mol wt)	CO <sub>2</sub> (m.t.)	CH <sub>4</sub> (m.t.)	CO <sub>2</sub>	CH <sub>4</sub>	CO <sub>2</sub> (m.t. CO <sub>2</sub> e)	CH <sub>4</sub> (m.t. CO <sub>2</sub> e)	(m.t. CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)
Plant Fugitives 1	FUG-1	365	40,150	0.0025	1.10231	0.868	0.041	60.399	2.75	781.557	6984.48	1	25	781.56	174,612.12	175,393.68	193,338.20

Note - Emissions estimated using API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry Table 6-1

Emissions Source	Emission Point Identification	Days of Operation	Annual Operating Hours (hrs/yr)	Emission Factor CH <sub>4</sub> (m.t./runtime hr)	Conversion Factor (ton/m.t.)	Default CH <sub>4</sub>			Emissions CO <sub>2</sub> /CH <sub>4</sub> (mol/wt)			Global Warming Potential		Emissions CO <sub>2</sub> /CH <sub>4</sub> (m.t. CO <sub>2</sub> e)		Total Emissions (tons CO <sub>2</sub> e)		
						Default CH <sub>4</sub> (mol %)	CO <sub>2</sub> /CH <sub>4</sub> (mol %)	CH <sub>4</sub> (mol %)	CO <sub>2</sub> /CH <sub>4</sub> (mol/wt)	No. of Comps.	CO <sub>2</sub> (m.t.)	CH <sub>4</sub> (m.t.)	CO <sub>2</sub>	CH <sub>4</sub>	CO <sub>2</sub> (m.t. CO <sub>2</sub> e)	CH <sub>4</sub> (m.t. CO <sub>2</sub> e)	(m.t. CO <sub>2</sub> e)	(tons CO <sub>2</sub> e)
Reciprocating Comp. Fugitive 1	FUG-1	365	8,760	0.00895	1.10231	0.868	0.041	60.399	2.75	10	6,104.674	54555.18	1	25	6104.67	1,363,879.40	1,369,984.07	1,510,147.14

Note - Emissions estimated using API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry Table 6-1

# Section 7

## Information Used To Determine Emissions

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**Information Used to Determine Emissions** shall include the following:

- ☒ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
  - ☐ If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
  - ☒ If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
  - ☐ If an older version of AP-42 is used, include a complete copy of the section.
  - ☐ If an EPA document or other material is referenced, include a complete copy.
  - ☒ Fuel specifications sheet.
  - ☒ If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model. For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., permit or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.
- 

Supporting documentation is included in this section.

# GAS ENGINE SITE SPECIFIC TECHNICAL DATA

## Standard Equipment Company

### New Avalon HWY 285 CS

GAS COMPRESSION APPLICATION

ENGINE SPEED (rpm): 1000  
 COMPRESSION RATIO: 7.6  
 AFTERCOOLER TYPE: SCAC  
 AFTERCOOLER - STAGE 2 INLET (°F): 130  
 AFTERCOOLER - STAGE 1 INLET (°F): 214  
 JACKET WATER OUTLET (°F): 230  
 ASPIRATION: TA  
 COOLING SYSTEM: JW+1AC, OC+2AC  
 CONTROL SYSTEM: ADEM4  
 EXHAUST MANIFOLD: DRY  
 COMBUSTION: LOW EMISSION  
 NOx EMISSION LEVEL (g/bhp-hr NOx): 0.5  
 SET POINT TIMING: 17

RATING STRATEGY:

RATING LEVEL:

FUEL SYSTEM:

**SITE CONDITIONS:**

FUEL:  
 FUEL PRESSURE RANGE(psig): (See note 1)  
 FUEL METHANE NUMBER:  
 FUEL LHV (Btu/scf):  
 ALTITUDE(ft):  
 MAXIMUM INLET AIR TEMPERATURE(°F):  
 STANDARD RATED POWER:

STANDARD  
 CONTINUOUS  
 GAV  
 WITH AIR FUEL RATIO CONTROL

New Avalon Hwy 285 CS

58.0-70.3

56.7

1106

2950

110

1875 bhp@1000rpm

RATING	NOTES	LOAD	MAXIMUM RATING	SITE RATING AT MAXIMUM INLET AIR TEMPERATURE			
			100%	100%	75%	50%	
ENGINE POWER (WITHOUT FAN)	(2)	bhp	1875	1875	1406	938	
INLET AIR TEMPERATURE		°F	110	110	110	110	

ENGINE DATA							
FUEL CONSUMPTION (LHV)	(3)	Btu/bhp-hr	6816	6816	7093	7673	
FUEL CONSUMPTION (HHV)	(3)	Btu/bhp-hr	7517	7517	7823	8462	
AIR FLOW (@inlet air temp, 14.7 psia) (WET)	(4)(5)	ft <sup>3</sup> /min	5030	5030	3806	2609	
AIR FLOW (WET)	(4)(5)	lb/hr	21011	21011	15900	10897	
FUEL FLOW (60°F, 14.7 psia)		scfm	193	193	150	108	
INLET MANIFOLD PRESSURE	(6)	in Hg(abs)	103.9	103.9	79.5	56.2	
EXHAUST TEMPERATURE - ENGINE OUTLET	(7)	°F	813	813	883	966	
EXHAUST GAS FLOW (@engine outlet temp, 14.5 psia) (WET)	(8)(5)	ft <sup>3</sup> /min	11939	11939	9549	6966	
EXHAUST GAS MASS FLOW (WET)	(8)(5)	lb/hr	21645	21645	16395	11254	

EMISSIONS DATA - ENGINE OUT							
NOx (as NO <sub>2</sub> )	(9)(10)	g/bhp-hr	0.50	0.50	0.50	0.50	
CO	(9)(10)	g/bhp-hr	2.44	2.44	2.44	2.44	
THC (mol. wt. of 15.84)	(9)(10)	g/bhp-hr	3.28	3.28	3.46	3.41	
NMHC (mol. wt. of 15.84)	(9)(10)	g/bhp-hr	1.27	1.27	1.34	1.32	
NMNEHC (VOCs) (mol. wt. of 15.84)	(9)(10)(11)	g/bhp-hr	0.71	0.71	0.75	0.74	
HCHO (Formaldehyde)	(9)(10)	g/bhp-hr	0.23	0.23	0.11	0.12	
CO <sub>2</sub>	(9)(10)	g/bhp-hr	452	452	466	497	
EXHAUST OXYGEN	(9)(12)	% DRY	11.4	11.4	11.2	10.8	

HEAT REJECTION							
HEAT REJ. TO JACKET WATER (JW)	(13)	Btu/min	21024	21024	17260	14209	
HEAT REJ. TO ATMOSPHERE	(13)	Btu/min	6654	6654	6554	6417	
HEAT REJ. TO LUBE OIL (OC)	(13)	Btu/min	11716	11716	10807	9353	
HEAT REJ. TO A/C - STAGE 1 (1AC)	(13)(14)	Btu/min	17242	17242	8059	1785	
HEAT REJ. TO A/C - STAGE 2 (2AC)	(13)(14)	Btu/min	10754	10754	6829	3715	

COOLING SYSTEM SIZING CRITERIA			
TOTAL JACKET WATER CIRCUIT (JW+1AC)	(14)(15)	Btu/min	45354
TOTAL STAGE 2 AFTERCOOLER CIRCUIT (OC+2AC)	(14)(15)	Btu/min	27886
A cooling system safety factor of 10% has been added to the cooling system sizing criteria.			

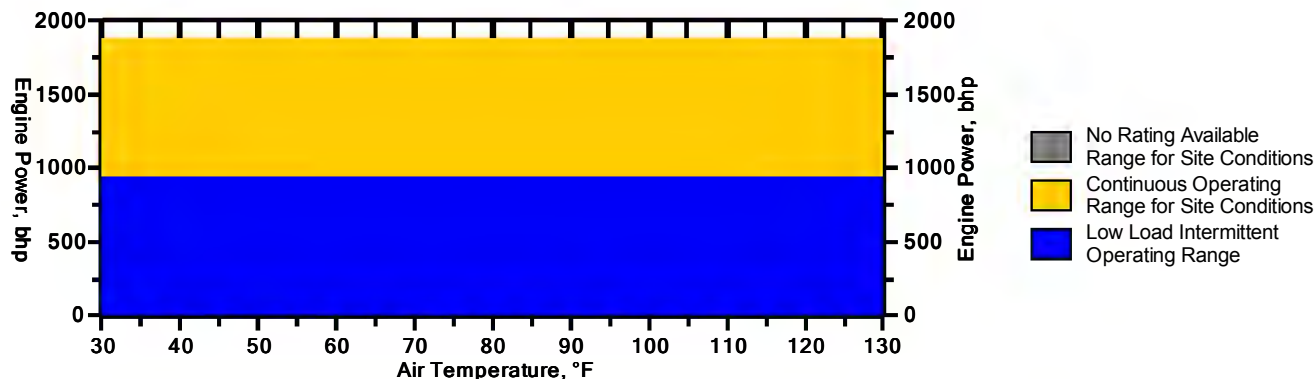
**CONDITIONS AND DEFINITIONS**

Engine rating obtained and presented in accordance with ISO 3046/1, adjusted for fuel, site altitude and site inlet air temperature. 100% rating at maximum inlet air temperature is the maximum engine capability for the specified fuel at site altitude and maximum site inlet air temperature. Maximum rating is the maximum capability at the specified aftercooler inlet temperature for the specified fuel at site altitude and reduced inlet air temperature. Lowest load point is the lowest continuous duty operating load allowed. No overload permitted at rating shown.

For notes information consult page three.

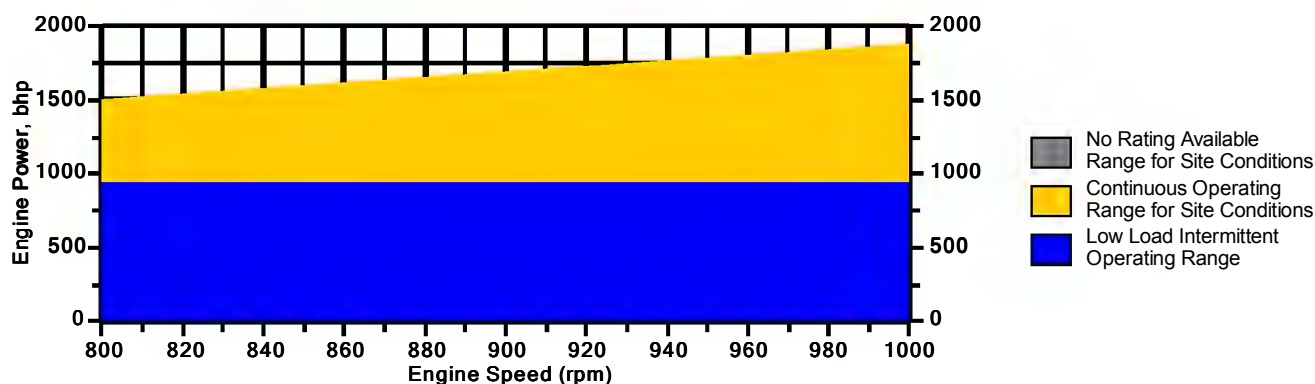
## Engine Power vs. Inlet Air Temperature

Data represents temperature sweep at 2950 ft and 1000 rpm



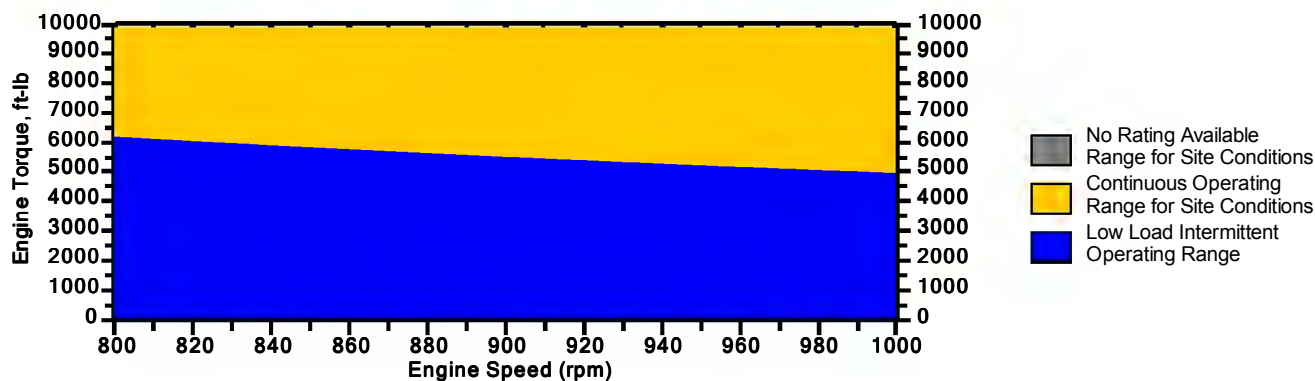
## Engine Power vs. Engine Speed

Data represents speed sweep at 2950 ft and 110 °F



## Engine Torque vs. Engine Speed

Data represents speed sweep at 2950 ft and 110 °F



Note: At site conditions of 2950 ft and 110°F inlet air temp., constant torque can be maintained down to 800 rpm. The minimum speed for loading at these conditions is 800 rpm.

## **NOTES**

1. Fuel pressure range specified is to the engine gas shutoff valve (GSOV). Additional fuel train components should be considered in pressure and flow calculations.
2. Engine rating is with two engine driven water pumps. Tolerance is  $\pm 3\%$  of full load.
3. Fuel consumption tolerance is  $\pm 2.5\%$  of full load data.
4. Air flow value is on a 'wet' basis. Flow is a nominal value with a tolerance of  $\pm 5\%$ .
5. Inlet and Exhaust Restrictions must not exceed A&I limits based on full load flow rates from the standard technical data sheet.
6. Inlet manifold pressure is a nominal value with a tolerance of  $\pm 5\%$ .
7. Exhaust temperature is a nominal value with a tolerance of  $(+)63^{\circ}\text{F}$ ,  $(-)54^{\circ}\text{F}$ .
8. Exhaust flow value is on a "wet" basis. Flow is a nominal value with a tolerance of  $\pm 6\%$ .
9. Emissions data is at engine exhaust flange prior to any after treatment.
10. Values listed are higher than nominal levels to allow for instrumentation, measurement, and engine-to-engine variations. They indicate the maximum values expected under steady state conditions. Fuel methane number cannot vary more than  $\pm 3$ . THC, NMHC, and NMNEHC do not include aldehydes. An oxidation catalyst may be required to meet Federal, State or local CO or HC requirements.
11. VOCs - Volatile organic compounds as defined in US EPA 40 CFR 60, subpart JJJJ
12. Exhaust Oxygen level is the result of adjusting the engine to operate at the specified NOx level. Tolerance is  $\pm 0.5$ .
13. Heat rejection values are nominal. Tolerances, based on treated water, are  $\pm 10\%$  for jacket water circuit,  $\pm 50\%$  for radiation,  $\pm 20\%$  for lube oil circuit, and  $\pm 5\%$  for aftercooler circuit.
14. Aftercooler heat rejection includes an aftercooler heat rejection factor for the site elevation and inlet air temperature specified. Aftercooler heat rejection values at part load are for reference only. Do not use part load data for heat exchanger sizing.
15. Cooling system sizing criteria are maximum circuit heat rejection for the site, with applied factory tolerances and an additional cooling system factor of 10%.



Constituent	Abbrev	Mole %	Norm
Water Vapor	H2O	0.2700	0.2700
Methane	CH4	78.4700	78.4700
Ethane	C2H6	11.0200	11.0200
Propane	C3H8	4.8400	4.8400
Isobutane	iso-C4H10	0.6000	0.6000
Norbutane	nor-C4H10	1.3600	1.3600
Isopentane	iso-C5H12	0.2900	0.2900
Norpentane	nor-C5H12	0.3100	0.3100
Hexane	C6H14	0.3800	0.3800
Heptane	C7H16	0.0000	0.0000
Nitrogen	N2	1.3500	1.3500
Carbon Dioxide	CO2	1.1100	1.1100
Hydrogen Sulfide	H2S	0.0000	0.0000
Carbon Monoxide	CO	0.0000	0.0000
Hydrogen	H2	0.0000	0.0000
Oxygen	O2	0.0000	0.0000
Helium	HE	0.0000	0.0000
Neopentane	neo-C5H12	0.0000	0.0000
Octane	C8H18	0.0000	0.0000
Nonane	C9H20	0.0000	0.0000
Ethylene	C2H4	0.0000	0.0000
Propylene	C3H6	0.0000	0.0000
TOTAL (Volume %)		100.0000	100.0000

Fuel Makeup: New Avalon Hwy 285  
Unit of Measure: English

#### **Calculated Fuel Properties**

Caterpillar Methane Number: 56.7

Lower Heating Value (Btu/scf): 1106  
Higher Heating Value (Btu/scf): 1220  
WOBBE Index (Btu/scf): 1303

THC: Free Inert Ratio: 39.54  
Total % Inerts (% N2, CO2, He): 2.46%  
RPC (%) (To 905 Btu/scf Fuel): 100%

Compressibility Factor: 0.997  
Stoich A/F Ratio (Vol/Vol): 11.47  
Stoich A/F Ratio (Mass/Mass): 15.94  
Specific Gravity (Relative to Air): 0.720  
Fuel Specific Heat Ratio (K): 1.286

#### **CONDITIONS AND DEFINITIONS**

Caterpillar Methane Number represents the knock resistance of a gaseous fuel. It should be used with the Caterpillar Fuel Usage Guide for the engine and rating to determine the rating for the fuel specified. A Fuel Usage Guide for each rating is included on page 2 of its standard technical data sheet.

RPC always applies to naturally aspirated (NA) engines, and turbocharged (TA or LE) engines only when they are derated for altitude and ambient site conditions.

Project specific technical data sheets generated by the Caterpillar Gas Engine Rating Pro program take the Caterpillar Methane Number and RPC into account when generating a site rating.

Fuel properties for Btu/scf calculations are at 60F and 14.696 psia.

Caterpillar shall have no liability in law or equity, for damages, consequently or otherwise, arising from use of program and related material or any part thereof.

#### **FUEL LIQUIDS**

Field gases, well head gases, and associated gases typically contain liquid water and heavy hydrocarbons entrained in the gas. To prevent detonation and severe damage to the engine, hydrocarbon liquids must not be allowed to enter the engine fuel system. To remove liquids, a liquid separator and coalescing filter are recommended, with an automatic drain and collection tank to prevent contamination of the ground in accordance with local codes and standards.

To avoid water condensation in the engine or fuel lines, limit the relative humidity of water in the fuel to 80% at the minimum fuel operating temperature.

ENGINE SPEED (rpm): 1000  
 COMPRESSION RATIO: 9:1  
 AFTERCOOLER TYPE: SCAC  
 AFTERCOOLER WATER INLET (°F): 130  
 JACKET WATER OUTLET (°F): 190  
 ASPIRATION: TA  
 COOLING SYSTEM: JW, OC+AC  
 CONTROL SYSTEM: CIS/ADEM3  
 EXHAUST MANIFOLD: DRY  
 COMBUSTION: Low Emission  
 NOx EMISSION LEVEL (g/bhp-hr NOx): 0.5

RATING STRATEGY:  
 FUEL SYSTEM:

STANDARD  
 GAV  
 WITH AIR FUEL RATIO CONTROL

**SITE CONDITIONS:**

FUEL: Jal Fuel  
 FUEL PRESSURE RANGE(psig): 42.8-47.0  
 FUEL METHANE NUMBER: 82.5  
 FUEL LHV (Btu/scf): 936  
 ALTITUDE(ft): 3200  
 MAXIMUM INLET AIR TEMPERATURE(°F): 110  
 STANDARD RATED POWER: 3550 bhp@1000rpm

RATING	NOTES	LOAD	MAXIMUM RATING	SITE RATING AT MAXIMUM INLET AIR TEMPERATURE			
			100%	100%	75%	57%	
ENGINE POWER (WITHOUT FAN)	(1)	bhp	3550	3137	2353	1775	
INLET AIR TEMPERATURE		°F	88	110	110	110	

ENGINE DATA							
FUEL CONSUMPTION (LHV)	(2)	Btu/bhp-hr	6791	6926	7292	7684	
FUEL CONSUMPTION (HHV)	(2)	Btu/bhp-hr	7527	7677	8082	8516	
AIR FLOW (@inlet air temp, 14.7 psia) (WET)	(3)(4)	ft <sup>3</sup> /min	9554	8858	6781	5213	
AIR FLOW (WET)	(3)(4)	lb/hr	41491	37001	28326	21777	
FUEL FLOW (60°F, 14.7 psia)		scfm	429	387	305	243	
INLET MANIFOLD PRESSURE	(5)	in Hg(abs)	73.4	65.8	50.8	39.1	
EXHAUST TEMPERATURE - ENGINE OUTLET	(6)	°F	838	856	893	925	
EXHAUST GAS FLOW (@engine outlet temp, 14.5 psia) (WET)	(7)(4)	ft <sup>3</sup> /min	24059	21754	17151	13522	
EXHAUST GAS MASS FLOW (WET)	(7)(4)	lb/hr	42658	38053	29157	22438	

EMISSIONS DATA - ENGINE OUT							
NOx (as NO <sub>2</sub> )	(8)(9)	g/bhp-hr	0.50	0.50	0.50	0.50	
CO	(8)(9)	g/bhp-hr	2.75	2.74	2.74	2.75	
THC (mol. wt. of 15.84)	(8)(9)	g/bhp-hr	6.45	6.52	6.67	6.82	
NMHC (mol. wt. of 15.84)	(8)(9)	g/bhp-hr	0.97	0.98	1.00	1.02	
NMNEHC (VOCs) (mol. wt. of 15.84)	(8)(9)(10)	g/bhp-hr	0.64	0.65	0.67	0.68	
HCHO (Formaldehyde)	(8)(9)	g/bhp-hr	0.26	0.27	0.29	0.31	
CO <sub>2</sub>	(8)(9)	g/bhp-hr	441	449	472	499	
EXHAUST OXYGEN	(8)(11)	% DRY	12.8	12.5	11.7	11.0	

HEAT REJECTION							
HEAT REJ. TO JACKET WATER (JW)	(12)	Btu/min	36519	34748	32164	29648	
HEAT REJ. TO ATMOSPHERE	(12)	Btu/min	14063	13855	13307	12502	
HEAT REJ. TO LUBE OIL (OC)	(12)	Btu/min	18081	17982	17723	17049	
HEAT REJ. TO AFTERCOOLER (AC)	(12)(13)	Btu/min	40529	40529	14117	3172	

COOLING SYSTEM SIZING CRITERIA			
TOTAL JACKET WATER CIRCUIT (JW)	(13)	Btu/min	44188
TOTAL AFTERCOOLER CIRCUIT (OC+AC)	(13)(14)	Btu/min	70679
A cooling system safety factor of 10% has been added to the cooling system sizing criteria.			

**CONDITIONS AND DEFINITIONS**

Engine rating obtained and presented in accordance with ISO 3046/1, adjusted for fuel, site altitude and site inlet air temperature. 100% rating at maximum inlet air temperature is the maximum engine capability for the specified fuel at site altitude and maximum site inlet air temperature. Max. rating is the maximum capability for the specified fuel at site altitude and reduced inlet air temperature. Lowest load point is the lowest continuous duty operating load allowed. No overload permitted at rating shown.

For notes information consult page three.



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**EXTENDED GAS REPORT  
SUMMARY OF CHROMATOGRAPHIC ANALYSIS**

<b>Sample Name:</b>	Jal #3 Plant C Plant Discharge	<b>For:</b>	12061G
<b>Sample Date:</b>	10/18/2021	<b>Cyl. Ident.:</b>	2021047219
<b>Sampled By:</b>	DJ	<b>Company:</b>	Energy Transfer
<b>Time Sampled:</b>	14:15	<b>Analysis Date:</b>	10/20/2021
<b>Sample Temp:</b>	104.4 F	<b>Analysis By:</b>	BH
<b>Sample Press:</b>	554.2	<b>Data File:</b>	LS_6449.D

H2S (PPM) = 5000.0

Component	Mole%	GPM REAL	GPM IDEAL
H2S	0.500		
Nitrogen	2.068		
Methane	66.813		
CO2	5.083		
Ethane	10.601	2.834	2.828
Propane	7.164	1.973	1.969
Isobutane	1.060	0.347	0.346
N-Butane	3.187	1.004	1.002
Isopentane	1.008	0.369	0.368
N-Pentane	1.135	0.411	0.410
Hexanes+	1.381	0.545	0.543
Total	100.000	7.483	7.466

**CALCULATED PARAMETERS**

**TOTAL ANALYSIS SUMMARY**

MOLE WT: 25.268  
VAPOR PRESS PSIA: 3441.8  
SPECIFIC GRAVITY  
AIR = 1 (REAL): 0.8701  
AIR = 1 (IDEAL): 0.8663  
H2O = 1 (IDEAL): 0.398

REPORTED BASIS: 14.73  
Unnormalized Total: 99.041

**HEATING VALUE**

BTU/CUFT (DRY) 1341.8  
BTU/CUFT (WET) 1319.0

**BTEX SUMMARY**

WT% BENZENE 3.824  
WT% TOLUENE 1.152  
WT% E BENZENE 0.000  
WT% XYLENES 0.089

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**Sample Name:** Jal #3 Plant C Plant Discharge  
**Company:** Energy Transfer

**Data File:** LS\_6449.D

**\*ANALYSIS OF HEXANES PLUS**

Component	MOLE%	WT%
2,2 DIMETHYL BUTANE	0.011	0.039
CYCLOPENTANE	0.110	0.340
2-METHYLPENTANE	0.279	0.953
3-METHYLPENTANE	0.173	0.589
HEXANE (C6)	0.332	1.107
DIMETHYLPENTANES	0.013	0.050
METHYLCYCLOPENTANE	0.142	0.474
2,2,3 TRIMETHYLBUTANE	0.001	0.005
BENZENE	0.057	0.175
CYCLOHEXANE	0.093	0.311
2-METHYLHEXANE	0.019	0.075
3-METHYLHEXANE	0.029	0.116
DIMETHYLCYCLOPENTANES	0.010	0.041
HEPTANE (C7)	0.029	0.116
METHYLCYCLOHEXANE	0.031	0.120
2,5 DIMETHYLHEXANE	0.000	0.002
TOLUENE	0.015	0.055
2-METHYLHEPTANE	0.002	0.009
OTHER OCTANES	0.006	0.039
OCTANE (C8)	0.001	0.004
ETHYLCYCLOHEXANE	0.000	0.001
ETHYL BENZENE	0.000	0.002
M,P-XYLENE	0.001	0.002
O-XYLENE	0.000	0.001
OTHER NONANES	0.000	0.006
NONANE (C-9)	0.000	0.000
IC3 BENZENE	0.000	0.000
CYCLOOCTANE	0.000	0.000
NC3 BENZENE	0.000	0.000
TM BENZENE(S)	0.000	0.001
IC4 BENZENE	0.000	0.000
NC4 BENZENE	0.000	0.000
DECANES + (C10+)	0.001	0.008

**\*HEXANES PLUS SUMMARY**

AVG MOLE WT	86.981
VAPOR PRESS PSIA	9.860
API GRAVITY @ 60F	71.5
SPECIFIC GRAVITY	
AIR = 1 (IDEAL):	2.975
H2O = 1 (IDEAL):	0.697

**COMPONENT RATIOS**

HEXANES (C6)	MOLE%	65.086
HEPTANES (C7)	MOLE%	30.414
OCTANES (C8)	MOLE%	4.201
NONANES (C9)	MOLE%	0.180
DECANES+ (C10+)	MOLE%	0.119
HEXANES (C6)	WT%	63.748
HEPTANES (C7)	WT%	31.001
OCTANES (C8)	WT%	4.825
NONANES (C9)	WT%	0.239
DECANES+ (C10+)	WT%	0.187

Remarks: spot

\* Hexane+ portion calculated by Allocation Process



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**EXTENDED GAS REPORT  
SUMMARY OF CHROMATOGRAPHIC ANALYSIS**

<b>Sample Name:</b>	Jal #3 Plant Slug Catcher Inlet	<b>For:</b>	12060G
<b>Sample Date:</b>	10/18/2021	<b>Cyl. Ident.:</b>	2021047220
<b>Sampled By:</b>	DJ	<b>Company:</b>	Energy Transfer
<b>Time Sampled:</b>	14:24	<b>Analysis Date:</b>	10/20/2021
<b>Sample Temp:</b>	77.1 F	<b>Analysis By:</b>	BH
<b>Sample Press:</b>	567.4	<b>Data File:</b>	LS_6448.D

H2S (PPM) = 5000.0

Component	Mole%	GPM REAL	GPM IDEAL
H2S	0.500		
Nitrogen	1.767		
Methane	77.389		
CO2	1.961		
Ethane	9.681	2.588	2.582
Propane	5.138	1.415	1.412
Isobutane	0.588	0.192	0.192
N-Butane	1.671	0.527	0.525
Isopentane	0.349	0.128	0.127
N-Pentane	0.422	0.153	0.153
Hexanes+	0.534	0.215	0.213
Total	100.000	5.218	5.204

**CALCULATED PARAMETERS**

**TOTAL ANALYSIS SUMMARY**

MOLE WT: 21.463  
VAPOR PRESS PSIA: 3958.0  
SPECIFIC GRAVITY  
AIR = 1 (REAL): 0.7372  
AIR = 1 (IDEAL): 0.7349  
H2O = 1 (IDEAL): 0.356

REPORTED BASIS: 14.73  
Unnormalized Total: 98.361

**HEATING VALUE**

BTU/CUFT (DRY) 1219.5  
BTU/CUFT (WET) 1198.7

**BTEX SUMMARY**

WT% BENZENE 3.317  
WT% TOLUENE 1.565  
WT% E BENZENE 0.225  
WT% XYLENES 0.901

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**Sample Name:** Jal #3 Plant Slug Catcher Inlet  
**Company:** Energy Transfer

**Data File:** LS\_6448.D

**\*ANALYSIS OF HEXANES PLUS**

Component	MOLE%	WT%
2,2 DIMETHYL BUTANE	0.005	0.021
CYCLOPENTANE	0.039	0.141
2-METHYLPENTANE	0.091	0.367
3-METHYLPENTANE	0.054	0.218
HEXANE (C6)	0.140	0.544
DIMETHYLPENTANES	0.004	0.020
METHYLCYCLOPENTANE	0.048	0.187
2,2,3 TRIMETHYLBUTANE	0.000	0.002
BENZENE	0.020	0.071
CYCLOHEXANE	0.031	0.120
2-METHYLHEXANE	0.008	0.040
3-METHYLHEXANE	0.013	0.059
DIMETHYLCYCLOPENTANES	0.005	0.021
HEPTANE (C7)	0.021	0.097
METHYLCYCLOHEXANE	0.016	0.074
2,5 DIMETHYLHEXANE	0.000	0.002
TOLUENE	0.008	0.035
2-METHYLHEPTANE	0.002	0.012
OTHER OCTANES	0.007	0.035
OCTANE (C8)	0.003	0.016
ETHYLCYCLOHEXANE	0.001	0.003
ETHYL BENZENE	0.001	0.005
M,P-XYLENE	0.003	0.014
O-XYLENE	0.001	0.005
OTHER NONANES	0.000	0.014
NONANE (C-9)	0.001	0.004
IC3 BENZENE	0.000	0.000
CYCLOOCTANE	0.000	0.000
NC3 BENZENE	0.000	0.001
TM BENZENE(S)	0.000	0.003
IC4 BENZENE	0.000	0.000
NC4 BENZENE	0.000	0.000
DECANES + (C10+)	0.000	0.014

**\*HEXANES PLUS SUMMARY**

AVG MOLE WT	88.651
VAPOR PRESS PSIA	9.860
API GRAVITY @ 60F	70.9
SPECIFIC GRAVITY	
AIR = 1 (IDEAL):	2.975
H2O = 1 (IDEAL):	0.699

**COMPONENT RATIOS**

HEXANES (C6) MOLE%	60.906
HEPTANES (C7) MOLE%	30.202
OCTANES (C8) MOLE%	6.937
NONANES (C9) MOLE%	1.498
DECANES+ (C10+) MOLE%	0.457
HEXANES (C6) WT%	58.551
HEPTANES (C7) WT%	30.753
OCTANES (C8) WT%	8.001
NONANES (C9) WT%	1.920
DECANES+ (C10+) WT%	0.775

Remarks: spot

\* Hexane+ portion calculated by Allocation Process

# Section 8

## Map(s)

---

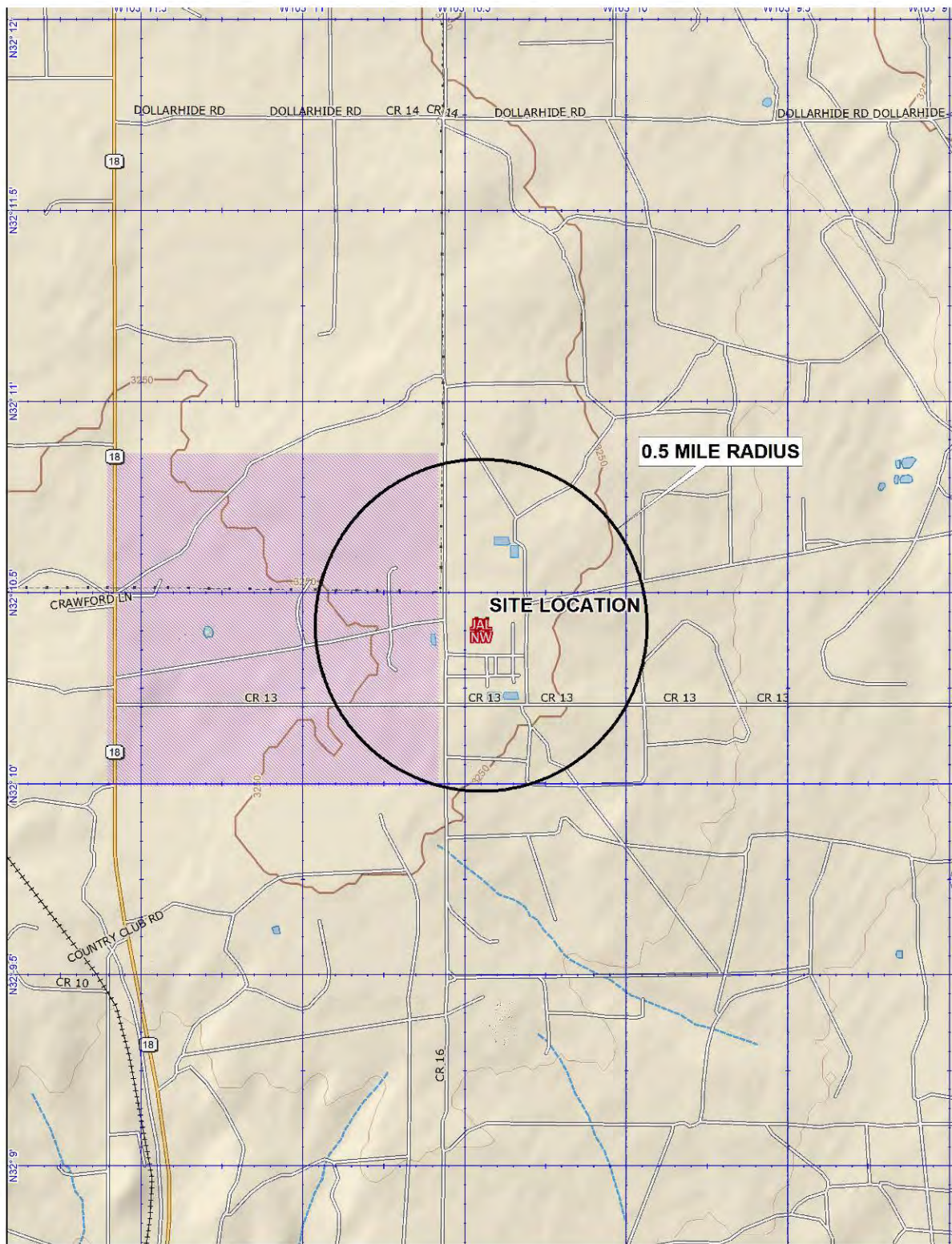
**A map** such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public access
A graphical scale	

---

A current map of the Facility is provided in this section.

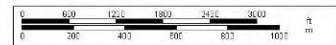




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FIGURE TITLE

AREA MAP

DOCUMENT TITLE

TITLE V PERMIT RENEWAL

CLIENT

ETC TEXAS PIPELINE, LTD

LOCATION

JAL NO. 3 GAS PLANT

LEA COUNTY, NEW MEXICO

DATE 2/15/2022

SCALE AS SHOWN

DESIGNED BY AD

APPROVED BY LWL

DRAWN BY AD

PROJECT NUMBER

FIGURE NUMBER

SECTION 8



# Section 9

## Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)

(This proof is required by: 20.2.72.203.A.14 NMAC “Documentary Proof of applicant’s public notice”)

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☒ **I have read the AQB “Guidelines for Public Notification for Air Quality Permit Applications”**

This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

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Unless otherwise allowed elsewhere in this document, the following items document proof of the applicant’s Public Notification. Please include this page in your proof of public notice submittal with checkmarks indicating which documents are being submitted with the application.

**New Permit** and **Significant Permit Revision** public notices must include all items in this list.

**Technical Revision** public notices require only items 1, 5, 9, and 10.

Per the Guidelines for Public Notification document mentioned above, include:

1. ☐ A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
  2. ☐ A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g: post office, library, grocery, etc.)
  3. ☐ A copy of the property tax record (20.2.72.203.B NMAC).
  4. ☐ A sample of the letters sent to the owners of record.
  5. ☐ A sample of the letters sent to counties, municipalities, and Indian tribes.
  6. ☐ A sample of the public notice posted and a verification of the local postings.
  7. ☐ A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
  8. ☐ A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
  9. ☐ A copy of the classified or legal ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
  10. ☐ A copy of the display ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
  11. ☐ A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.
- 

This section is not applicable to applications submitted under 20.2.70 NMAC.

# 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.

---

The facility is a natural gas treating and processing plant. Natural gas is treated in amine sweetening units to remove acid gas, consisting of approximately ~18% CO<sub>2</sub> and ~18% H<sub>2</sub>S, with traces of other gases. The sweetened gas is then dehydrated in a glycol dehydrator and processed to separate residue gas, primarily methane, from the liquids, including the higher carbon number hydrocarbon fractions.

Acid gas removed from the natural gas stream by the sweetening units directed to a Class II underground injection disposal well, permitted by the Oil Conservation Division (OCD).

A gas treating system and compression is used to move the treated gas to other gas processing facilities in the Delaware Basin. A new amine unit will be installed to treat the incoming gas. The treated gas will be compressed to pipeline delivery pressure by two new compressor units. After compression, the treated gas will flow to a new glycol dehydration unit. Vapors from the still vent will be sent to a flare and vapors from the flash tank will be routed to the site's fuel system.

A condensate stabilizer system which includes a fired HMO will be used.

Acid gas removed from the natural gas stream by the sweetening unit is directed to a new AGI unit where the acid gas is injected into the underground injection well.

# Section 11

## Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, Single Source Determination Guidance, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

**A. Identify the emission sources evaluated in this section (list and describe):**

Jal #3 Gas Plant

**B. Apply the 3 criteria for determining a single source:**

**SIC Code:** Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, OR surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source.

☒ Yes      ☐ No

**Common Ownership or Control:** Surrounding or associated sources are under common ownership or control as this source.

☒ Yes      ☐ No

**Contiguous or Adjacent:** Surrounding or associated sources are contiguous or adjacent with this source.

☒ Yes      ☐ No

**C. Make a determination:**

☒ The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "YES" boxes should be checked. If in "A" above you evaluated other sources as well, you must check **AT LEAST ONE** of the boxes "NO" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes.

☐ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

# **Section 12**

## **Section 12.A**

### **PSD Applicability Determination for All Sources**

(Submitting under 20.2.72, 20.2.74 NMAC)

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This section is not applicable to applications submitted under 20.2.70 NMAC.

# Section 13

## Determination of State & Federal Air Quality Regulations

**This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.**

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

### **Required Information for Specific Equipment:**

For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply. For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

### **Required Information for Regulations that Apply to the Entire Facility:**

See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

### **Regulatory Citations for Regulations That Do Not, but Could Apply:**

If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example**, if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

### **Regulatory Citations for Emission Standards:**

**For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard.** Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

### **Federally Enforceable Conditions:**

All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVANT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

**EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc:** <http://cfpub.epa.gov/adi/>

**Example of a Table for STATE REGULATIONS:**

<b>STATE REGU- LATIONS 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	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQs	Yes	Facility	If subject, this would normally apply to the entire facility. 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. Title V applications, see exemption at 20.2.3.9 NMAC The TSP NM ambient air quality standard was repealed by the EIB effective November 30, 2018.
20.2.7 NMAC	Excess Emissions	Yes	Facility	If subject, this would normally apply to the entire facility. If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. This would not apply to Notices of Intent since these are not permits.
20.2.23 NMAC	Fugitive Dust Control	No	Facility	The facility is not located in Doña Ana or Luna Counties, and is therefore not subject to 40 CFR §51.930 or 20.2.23 NMAC.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	This facility does not have existing gas burning equipment having a heat input of greater than 1,000,000 million British Thermal Unit per year per unit. The facility is not subject to this regulation and does not have emission sources that meet the applicability requirements under 20.2.33.108 NMAC.
20.2.34 NMAC	Oil Burning Equipment: NO <sub>2</sub>	No	N/A	This facility does not have existing oil burning equipment having a heat input of greater than 1,000,000 million British Thermal Unit per year per unit. The facility is not subject to this regulation and does not have emission sources that meet the applicability requirements under 20.2.34.108 NMAC.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	Yes	Facility	This regulation establishes sulfur emission standards for natural gas processing plants. The facility meets the definition of a new natural gas processing plant (the incinerator was added to the facility in 1976) under this regulation and is subject to the requirements of this regulation [20.2.35.7 (B) NMAC]. The facility meets the requirements under 20.2.35.110(B).
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	<b>These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.</b>
<a href="#">20.2.38</a> NMAC	Hydrocarbon Storage Facility	No	N/A	Not applicable as facility does not have petroleum storage tanks with a capacity > 20,000 gallons. In addition this plant does not contain a “tank battery” or a “hydrocarbon storage facility” as these terms are understood.
<a href="#">20.2.39</a> NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	The facility will not operate a sulfur recovery plant.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants			This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NO <sub>x</sub> ) for oil and gas production, processing, compression, and transmission sources. 20.2.50 NMAC subparts: <input checked="" type="checkbox"/> 113 – Engines and Turbines <input checked="" type="checkbox"/> 114 – Compressor Seals <input checked="" type="checkbox"/> 115 – Control Devices and Closed Vent Systems <input checked="" type="checkbox"/> 116 – Equipment Leaks and Fugitive Emissions <input type="checkbox"/> 117 – Natural Gas Well Liquid Unloading <input type="checkbox"/> 118 – Glycol Dehydrators <input checked="" type="checkbox"/> 119 – Heaters <input type="checkbox"/> 120 – Hydrocarbon Liquid Transfers

<a href="#"><u>STATE REGU- LATIONS</u></a> CITATION	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.)
				<input type="checkbox"/> 121 – Pig Launching and Receiving <input type="checkbox"/> 122 – Pneumatic Controllers and Pumps <input type="checkbox"/> 123 – Storage Vessels <input type="checkbox"/> 124 – Well Workovers <input type="checkbox"/> 125 – Small Business Facilities <input type="checkbox"/> 126 – Produced Water Management Unit <input type="checkbox"/> 127 – Flowback Vessels and Preproduction Operations
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	C-1 thru C-6, 12H, 13H, 14H, 8F, 9F, 10F	<p>This regulation that limits opacity to 20% applies to Stationary Combustion</p> <p>Equipment, such as engines, boilers, heaters, and flares. The combustion equipment at the facility is subject to this regulation.</p>
20.2.70 NMAC	Operating Permits	Yes	Facility	Jal 3 is major for NOx and VOC. Jal 3 has been issued operating permit P090R3
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	This regulation established a schedule of operating permit emission fees. The facility is subject to 20.2.70 NMAC and is therefore subject to requirements of this regulation.
20.2.72 NMAC	Construction Permits	Yes	Facility	The objective of this part is to establish the requirements for obtaining a construction permit. The facility is subject as emissions are greater than 10 lb/hr and 25 tpy of regulated air contaminants for which there are National or New Mexico Ambient Air Quality Standards.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	The regulation establishes emission inventory requirements. The facility meets the applicability requirements of 20.2.73.300.A.1 NMAC.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	Facility	Jal 3 is not classified as a PSD source.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	This regulation establishes a schedule of construction permit emission fees. The facility is subject to 20.2.72 NMAC and is therefore subject to requirements of this regulation.
20.2.77 NMAC	New Source Performance	Yes	C-1 thru C-6, 8F, 9F, 10F, FUG1, FUG2, DR2, amine unit	These sources are subject to the requirements of 40 CFR Part 60.
20.2.78 NMAC	Emission Standards for HAPS	No	N/A	This facility emits hazardous air pollutants which are not subject to the requirements of 40 CFR Part 61.

<a href="#"><u>STATE REGU- LATIONS</u></a> CITATION	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.)
20.2.79 NMAC	Permits – Nonattainment Areas	No	N/A	This regulation does not apply because the facility is not located in a nonattainment area.
20.2.80 NMAC	Stack Heights	No	N/A	This regulation established requirements for the evaluation of stack heights and other dispersion techniques. The stacks at the facility will follow good engineering practices. This regulation does not apply as all stacks at the facility will follow good engineering practice.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	DR2, C-1 thru C-6, 12H, 13H, 14H	The facility permitted HAP emissions are less than the major HAP source threshold, therefore, the facility is classified as a minor HAP source. The facility is not subject to the major source requirements of 40 CFR 63 Subpart HH, Subpart ZZZZ, and Subpart DDDDD.

**Example of a Table for Applicable FEDERAL REGULATIONS (Note: This is not an exhaustive list):**

<a href="#"><u>FEDERAL REGU- LATIONS</u></a> CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	This regulation defines national ambient air quality standards. The facility meets all applicable national ambient air quality standards for NO <sub>x</sub> , CO, SO <sub>2</sub> , H <sub>2</sub> S, PM <sub>10</sub> , and PM <sub>2.5</sub> under this regulation.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	C-1 thru C-6, 8F, 10F, 9F, FUG1, FUG2, DR2, amine unit	Applies if any other Subpart in 40 CFR 60 applies. NSPS KKK, Db, Dc, JJJJ, OOOO, OOOOa, and LLL apply.
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for <b>Electric Utility Steam Generating Units</b>	No	N/A	This regulation establishes standards for performance for electric utility steam generating units. This regulation does not apply because the facility does not operate any electric utility steam generating units.



<b><u>FEDERAL REGU- LATIONS</u> CITATION</b>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
NSPS 40 CFR60.40b Subpart Db	<b>Electric Utility Steam Generating Units</b>	No	N/A	This regulation established standards for performance for industrial-commercial-institutional steam generating units. The regulation does not apply because the facility does not operate any industrial-commercial-institutional steam generating units with heat inputs greater than 100 MMBtu/hr.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial- Commercial- Institutional Steam Generating Units	Yes	12H, 14H	Applicability: facility has steam generating units for which construction, modification or reconstruction is commenced after June 9, 1989 and that have a maximum design heat input capacity of 29 MW (100 MMBtu/hr) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr). This regulation applies to units 12H and 14H.
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for <b>Storage Vessels for Petroleum Liquids</b> for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and <b>Prior</b> to July 23, 1984	No	N/A	Not applicable as there are no petroleum liquid storage vessels that commenced construction, reconstruction, or modification after May 18, 1978 and prior to July 23, 1984 and/or have capacities greater than 40,000 gallons.
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for <b>Volatile Organic Liquid Storage Vessels</b> (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced <b>After</b> July 23, 1984	No	N/A	Not applicable as there are no volatile organic liquid storage vessels which commenced construction, reconstruction, or modification after July 23, 1984 and/or which have capacities greater than 75 cubic meters (m <sup>3</sup> ).
NSPS 40 CFR 60.330 Subpart GG	<b>Stationary Gas Turbines</b>	No	N/A	This regulation establishes standards of performance for stationary gas turbines. The facility does not operate stationary gas turbines and is therefore not subject to this regulation.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from <b>Onshore Gas Plants</b>	No	N/A	NSPS KKK applies to equipment leaks of VOC from natural gas processing plants constructed, reconstructed or modified after January 20, 1984 and on or before August 23, 2011. The equipment at the site is not subject to this regulation.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for <b>Onshore Natural Gas Processing:</b>	No	N/A	Does not apply at amine units that send acid gas to acid gas re-injection well (AGI).

<b><u>FEDERAL REGU- LATIONS CITATION</u></b>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
	SO <sub>2</sub> Emissions			
NSPS 40 CFR Part 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 before September 18, 2015	Yes	C-1, C-2, C-3, C-4	NSPS OOOO is applicable to the compressor of engine Units C1-C4 since construction commenced after August 23, 2011 (40 CFR 60.5365(e)). In addition, component changes associated with Units C1-C4 are considered a modification under NSPS OOOO. Therefore, NSPS OOOO (rather than NSPS KKK) applies to these specific fugitive components (portion of FUG1).
NSPS 40 CFR Part 60 Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015	Yes	C-5, C-6	NSPS OOOOa is applicable to the compressors of engine Units C5-C6 since construction will commence after September 18, 2015 (40 CFR 60.5365(e)). NSPS OOOOa (rather than NSPS KKK) will apply to these specific fugitive components (portion of FUG1) and other process areas with applicable VOC.
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	No	N/A	This regulation establishes standards of performance for stationary compression ignition internal combustion engines. This facility does not have compression ignition internal combustion engines. This regulation does not apply.
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	C-1, C-2, C-3, C-4, C-5, C-6	The engines are subject to NSPS JJJJ per 60.4230(a)(4)(i) and the standards in 60.4233(e) and Table 1. C1 – C4 <ul style="list-style-type: none"> <li>• 3550 hp</li> <li>• Mfr dates – 8/7/2018, 1/2/2008, 1/2/2008, and 1/2/2008</li> <li>• 4SLB</li> </ul> C5 – C-6 <ul style="list-style-type: none"> <li>• 1875 hp</li> <li>• Mfr date – Post 7/1/2010</li> <li>• 4SLB</li> </ul>
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No	N/A	There will be no electric generating units at the site.
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility	No	N/A	There will be no electric generating units at the site.

<a href="#">FEDERAL REGU- LATIONS CITATION</a>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
	Generating Units			
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No	N/A	The Facility is not a municipal solid waste landfill.
NESHAP 40 CFR 61 Subpart A	General Provisions	No	N/A	This part applies to the owner or operator of any stationary source for which a standard is prescribed under this part.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for <b>Mercury</b>	No	N/A	The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge. This facility does not process mercury therefore this regulation does not apply.
NESHAP 40 CFR 61 Subpart V	National Emission Standards for <b>Equipment Leaks</b> (Fugitive Emission Sources)	No	N/A	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. 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. Benzene is a VHAP (See 40 CFR 61 Subpart J). The regulated activities subject to this regulation do not take place at this facility. The facility is not subject to this regulation.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	C-1, C-2, C-3, C-4, C-5, C-6, DR2	Applies if any other subpart in 40 CFR 63 applies.
MACT 40 CFR 63.760 Subpart HH	<b>Oil and Natural Gas Production Facilities</b>	Yes	DR2	This facility is Subject to the requirements of 40 CFR 63 Subpart HH Facility is a minor source for HAPs (including formaldehyde and total HAPs), as indicated by this application and will comply with the minor source requirements of Subpart HH.
MACT 40 CFR 63 Subpart HHH		No	N/A	This subpart applies to owners and operators of natural gas transmission and storage facilities that transport or store natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company), and that are major sources of hazardous air pollutants (HAP) emissions as defined in §63.1271. <b>See link below</b> <a href="#">40 CFR 63 Subpart HHH</a>
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	This subpart established national emission limitation and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP. This facility is not a major source of HAP. This regulation does not apply.
MACT 40 CFR 63 Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants Coal &	No	N/A	This subpart establishes national emission limitations and work practice standards for hazardous air pollutants (HAP) emitted from coal- and oil-fired electric utility steam generating units (EGUs) as defined in §63.10042 of this subpart. This facility does not contain the affected source. This regulation does not apply.

<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>
	Oil Fire Electric Utility Steam Generating Unit			
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines ( <b>RICE MACT</b> )	Yes	C-1, C- 2, C-3, C-4, C- 5, C-6	The engines are subject to MACT ZZZZ and meet the requirements by complying with NSPS JJJJ per 63.6590(c)(1).
40 CFR 64	<b>Compliance Assurance Monitoring</b>	Yes	AGI, 8F, 9F	CAM applies to the acid gas re-injection well and flares 8F and 9F. A plan has been submitted to the state.  The IC engines at the facility are equipped with catalysts are not in themselves major sources.
40 CFR 68	<b>Chemical Accident Prevention</b>	Yes	Facility	Jal 3 is subject to the rule.
Title IV – Acid Rain 40 CFR 72	<b>Acid Rain</b>	No	N/A	Jal 3 is not an Acid Rain source.
Title IV – Acid Rain 40 CFR 73	<b>Sulfur Dioxide Allowance Emissions</b>	No	N/A	Jal 3 is not an Acid Rain source.
Title IV-Acid Rain 40 CFR 75	<b>Continuous Emissions Monitoring</b>	No	N/A	Jal 3 is not an Acid Rain source.
Title IV – Acid Rain 40 CFR 76	<b>Acid Rain Nitrogen Oxides Emission Reduction Program</b>	No	N/A	Jal 3 is not an Acid Rain source.
Title VI – 40 CFR 82	<b>Protection of Stratospheric Ozone</b>	Yes	N/A	<b>(82.150)</b> if you service, maintain, or repair appliances, dispose of appliances, refrigerant reclaimers, <b>if you are an owner or operator of an appliance</b> , if you are a manufacturer of appliances or of recycling and recovery equipment, if you are an approved recycling and recovery equipment testing organization, and/or if you sell or offer for sell or purchase class I or class I refrigerants.  ETC owns appliances containing CFCs and is therefore technically subject to this requirement. ETC uses only certified technicians for the maintenance, service, repair, and disposal of appliances and maintains the appropriate records for this requirement.

# Section 14

## Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

- 
- ☒ **Title V Sources** (20.2.70 NMAC): By checking this box and certifying this application the permittee certifies that it has developed an Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- ☐ **NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- ☒ **Title V** (20.2.70 NMAC), **NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.
- 

Startup and shutdown procedures are based on manufacturer's recommendations or ETC's experience with specific equipment. The procedures are designed to proactively address the potential for malfunction to the greatest extent possible. These procedures dictate a sequence of operations that are designed to minimize emissions from the facility during events that result in shutdown and subsequent startup. Equipment located at the facility is equipped with various safety devices and features that aid in the prevention of excess emissions in the event of an operational emergency. If an operational emergency does occur and excess emissions occur, ETC will submit the required Excess Emissions Report per 20.2.7 NMAC. Corrective action to eliminate the excess emissions and prevent recurrence in the future will be undertaken as quickly as safety allows. ETC has developed an Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Malfunctions as required by 20.2.70.300.D.5 NMAC. This plan is kept on site and will be made available to the Department upon request.

# Section 15

## Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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**Alternative Operating Scenarios:** Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

**Construction Scenarios:** When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: [https://www.env.nm.gov/aqb/permit/aqb\\_pol.html](https://www.env.nm.gov/aqb/permit/aqb_pol.html). Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title “Construction Scenarios”, specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc).

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This application does not include alternative operating scenarios.

# Section 16

## Air Dispersion Modeling

- 1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
- 2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. 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 modeling requirements.
- 3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. <b>Note:</b> Neither modeling nor a modeling waiver is required for VOC emissions.	
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above.	X
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling Guidelines.	

**Check each box that applies:**

- ☐ See attached, approved modeling **waiver for all** pollutants from the facility.
- ☐ See attached, approved modeling **waiver for some** pollutants from the facility.
- ☐ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.
- ☐ Attached in UA4 is a **modeling report for some** pollutants from the facility.
- ☒ No modeling is required.

Air quality dispersion modeling was last submitted in June 2022 in an application for NSR Permit No. 1092M10.

# Section 17

## Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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

**Compliance Test History Table (Modify this sample table to suit your facility)**

Unit No.	Test Description	Test Date
C1	NSPS JJJJ, MACT ZZZZ	7/16/2019, 1/7/2020, 7/28/2020, 1/4/2022, 7/13/2022, 10/25/2022
C2	NSPS JJJJ, MACT ZZZZ	2/9/2019, 8/23/2016, 1/5/2017, 7/10/2017, 10/2/2017, 1/8/2018, 1/7/2019, 7/9/2019, 1/7/2020, 7/28/2020, 1/5/2022, 8/24/2022, 10/27/2022
C3	NSPS JJJJ, MACT ZZZZ	2/9/2016, 8/23/2016, 1/6/2017, 7/10/2017, 1/8/2018, 1/7/2019, 7/9/2019, 9/15/2021, 1/4/2022, 8/24/2022, 10/27/2022
C4	NSPS JJJJ, MACT ZZZZ	2/9/2019, 8/24/2016, 1/26/2017, 7/10/2017, 10/2/2017, 1/8/2018, 9/6/2018, 1/7/2019, 9/5/2019, 1/22/2020, 7/28/2020, 9/23/2022, 10/25/2022
C5	NSPS JJJJ, MACT ZZZZ	TBD
C6	NSPS JJJJ, MACT ZZZZ	TBD
8F	Compliance with visible emissions per NSR 1092/TV-P090	02/12
9F	Compliance with visible emissions per NSR 1092/TV-P090	08/05
10F	Compliance with visible emissions per NSR 1092/TV-P090	02/12



# Section 19

## Requirements for Title V Program

Do not print this section unless this is a Title V application.

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### Who Must Use this Attachment:

- \* Any major source as defined in 20.2.70 NMAC.
  - \* Any source, including an area source, subject to a standard or other requirement promulgated under Section 111 - Standards of Performance for New Stationary Sources, or Section 112 Hazardous Air Pollutants, of the 1990 federal Clean Air Act ("federal Act"). Non-major sources subject to Sections 111 or 112 of the federal Act are exempt from the obligation to obtain an 20.2.70 NMAC operating permit until such time that the EPA Administrator completes rulemakings that require such sources to obtain operating permits. In addition, sources that would be required to obtain an operating permit solely because they are subject to regulations or requirements under Section 112(r) of the federal Act are exempt from the requirement to obtain an Operating Permit.
  - \* Any Acid Rain source as defined under title IV of the federal Act. The Acid Rain program has additional forms. See [www.env.nm.gov/air-quality/air-quality-title-v-operating-permits-guidance-page/](http://www.env.nm.gov/air-quality/air-quality-title-v-operating-permits-guidance-page/). Sources that are subject to both the Title V and Acid Rain regulations are encouraged to submit both applications simultaneously.
  - \* Any source in a source category designated by the EPA Administrator ("Administrator"), in whole or in part, by regulation, after notice and comment.
- 

The Jal No. 3 Gas Plant is a Title V major source as defined in 20.2.70 NMAC.

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### **19.1 - 40 CFR 64, Compliance Assurance Monitoring (CAM) (20.2.70.300.D.10.e NMAC)**

Any source subject to 40CFR, Part 64 (Compliance Assurance Monitoring) must submit all the information required by section 64.7 with the operating permit application. The applicant must prepare a separate section of the application package for this purpose; if the information is already listed elsewhere in the application package, make reference to that location. Facilities not subject to Part 64 are invited to submit periodic monitoring protocols with the application to help the AQB to comply with 20.2.70 NMAC. Sources subject to 40 CFR Part 64, must submit a statement indicating your source's compliance status with any enhanced monitoring and compliance certification requirements of the federal Act.

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Permit No. P090R3 contains facility CAM requirements per 40 CFR 64 for Unit Nos. AGI, 8F and 9F.

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### **19.2 - Compliance Status (20.2.70.300.D.10.a & 10.b NMAC)**

Describe the facility's compliance status with each applicable requirement at the time this permit application is submitted. This statement should include descriptions of or references to all methods used for determining compliance. This statement should include descriptions of monitoring, recordkeeping and reporting requirements and test methods used to determine compliance with all applicable requirements. Refer to Section 2, Tables 2-N and 2-O of the Application Form as necessary. (20.2.70.300.D.11 NMAC) For facilities with existing Title V permits, refer to most recent Compliance Certification for existing requirements. Address new requirements such as CAM, here, including steps being taken to achieve compliance.

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All sources at this facility are currently operating in compliance with all applicable requirements.

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**19.3 - Continued Compliance** (20.2.70.300.D.10.c NMAC)

Provide a statement that your facility will continue to be in compliance with requirements for which it is in compliance at the time of permit application. This statement must also include a commitment to comply with other applicable requirements as they come into effect during the permit term. This compliance must occur in a timely manner or be consistent with such schedule expressly required by the applicable requirement.

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ETC will continue to comply with the applicable requirements for which the facility is in compliance at the time of submitting this application. ETS will comply with other applicable requirements in a timely manner as they come into effect during the permit term.

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**19.4 - Schedule for Submission of Compliance** (20.2.70.300.D.10.d NMAC)

You must provide a proposed schedule for submission to the department of compliance certifications during the permit term. This certification must be submitted annually unless the applicable requirement or the department specifies a more frequent period. A sample form for these certifications will be attached to the permit.

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ETCFS will continue to submit annual compliance certifications.

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**19.5 - Stratospheric Ozone and Climate Protection**

In addition to completing the four (4) questions below, you must submit a statement indicating your source's compliance status with requirements of Title VI, Section 608 (National Recycling and Emissions Reduction Program) and Section 609 (Servicing of Motor Vehicle Air Conditioners).

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1. Does your facility have any air conditioners or refrigeration equipment that uses CFCs, HCFCs or other ozone-depleting substances? ☒ **Yes** ☐ **No**
2. Does any air conditioner(s) or any piece(s) of refrigeration equipment contain a refrigeration charge greater than 50 lbs? ☐ **Yes** ☒ **No**  
(If the answer is yes, describe the type of equipment and how many units are at the facility.)
3. Do your facility personnel maintain, service, repair, or dispose of any motor vehicle air conditioners (MVACs) or appliances ("appliance" and "MVAC" as defined at 82. 152)? ☐ **Yes** ☒ **No**
4. Cite and describe which Title VI requirements are applicable to your facility (i.e. 40 CFR Part 82, Subpart A through G.)

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There are no operations at this facility that trigger the applicability of these requirements.

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**19.6 - Compliance Plan and Schedule**

Applications for sources, which are not in compliance with all applicable requirements at the time the permit application is submitted to the department, must include a proposed compliance plan as part of the permit application package. This plan shall include the information requested below:

**A. Description of Compliance Status:** (20.2.70.300.D.11.a NMAC)

A narrative description of your facility's compliance status with respect to all applicable requirements (as defined in 20.2.70 NMAC) at the time this permit application is submitted to the department.

**B. Compliance plan:** (20.2.70.300.D.11.B NMAC)

A narrative description of the means by which your facility will achieve compliance with applicable requirements with which it is not in compliance at the time you submit your permit application package.

**C. Compliance schedule: (20.2.70.300D.11.c NMAC)**

A schedule of remedial measures that you plan to take, including an enforceable sequence of actions with milestones, which will lead to compliance with all applicable requirements for your source. This schedule of compliance must be at least as stringent as that contained in any consent decree or administrative order to which your source is subject. The obligations of any consent decree or administrative order are not in any way diminished by the schedule of compliance.

**D. Schedule of Certified Progress Reports: (20.2.70.300.D.11.d NMAC)**

A proposed schedule for submission to the department of certified progress reports must also be included in the compliance schedule. The proposed schedule must call for these reports to be submitted at least every six (6) months.

**E. Acid Rain Sources: (20.2.70.300.D.11.e NMAC)**

If your source is an acid rain source as defined by EPA, the following applies to you. For the portion of your acid rain source subject to the acid rain provisions of title IV of the federal Act, the compliance plan must also include any additional requirements under the acid rain provisions of title IV of the federal Act. Some requirements of title IV regarding the schedule and methods the source will use to achieve compliance with the acid rain emissions limitations may supersede the requirements of title V and 20.2.70 NMAC. You will need to consult with the Air Quality Bureau permitting staff concerning how to properly meet this requirement.

**NOTE:** The Acid Rain program has additional forms. See [www.env.nm.gov/air-quality/air-quality-title-v-operating-permits-guidance-page/](http://www.env.nm.gov/air-quality/air-quality-title-v-operating-permits-guidance-page/). Sources that are subject to both the Title V and Acid Rain regulations are **encouraged** to submit both applications **simultaneously**.

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ETCFS is currently operating in compliance with all applicable requirements. Therefore, a Compliance Plan is not required.

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## **19.7 - 112(r) Risk Management Plan (RMP)**

Any major sources subject to section 112(r) of the Clean Air Act must list all substances that cause the source to be subject to section 112(r) in the application. The permittee must state when the RMP was submitted to and approved by EPA.

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N/A. There are no sources at the facility subject to Section 112(r) of the Clean Air Act.

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## **19.8 - Distance to Other States, Bernalillo, Indian Tribes and Pueblos**

Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B NMAC)?

(If the answer is yes, state which apply and provide the distances.)

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Other States: Texas, 10.1 km

Indian Tribes: None

Bernalillo County: >80 km

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## **19.9 - Responsible Official**

The Responsible Official is Mr. Toby Clark, Vice President of Operations, who has designated Mr. Mike McCracken, Senior Director, Operations, as the alternate responsible official.

# Section 20

## Other Relevant Information

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**Other relevant information.** Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

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No other relevant information is being submitted with this application.

## Section 22: Certification

Company Name: ETC Texas Pipeline, LTD

I, Mike McCracken, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 21<sup>st</sup> day of MARCH, 2023 upon my oath or affirmation, before a notary of the State of

TEXAS

Mike McCracken

\*Signature

03.21.2023

Date

Mike McCracken  
Printed Name

Senior Director Operations  
Title

Scribed and sworn before me on this 21<sup>st</sup> day of March, 2023

My authorization as a notary of the State of Texas expires on the

10<sup>th</sup> day of November, 2024

Dona J. Meadows

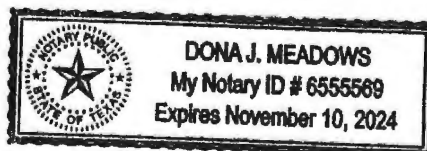
Notary's Signature

03.21.2023

Date

Dona J. Meadows

Notary's Printed Name



\*For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.7.AE NMAC.