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# NMED AIR QUALITY TITLE V SIGNIFICANT MODIFICATION AND RENEWAL APPLICATION

**El Paso Natural Gas Company, L.L.C.  
Lincoln Compressor Station**

Prepared By:  
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April 2019

Project 193201.0049



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April 5, 2019

Mr. Ted Schooley  
NMED Air Quality Bureau  
525 Camino de los Marquez, Suite 1  
Santa Fe, NM 87505

*RE: Application for Title V Significant Modification and Renewal  
El Paso Natural Gas Company, L.L.C. – Lincoln Compressor Station*

Dear Mr. Schooley:

On behalf of El Paso Natural Gas Company L.L.C., (EPNG) a Kinder Morgan Company, we are submitting this application for a Title V Significant Modification and Renewal for the Lincoln Compressor Station. The facility is located approximately 10 miles southwest of Corona, NM. Lincoln Compressor Station is currently permitted under Operating Permit P022-R3 and NSR Permit 0691-M4. The facility compresses natural gas for transportation purposes.

The format and content of this application are consistent with the Bureau's current policy regarding Title V applications. Title V Permit P022-R3 expires on June 5, 2020. EPNG is submitting this application pursuant to 20.2.70.404.C(3)(b)NMAC, which requires a Title V Significant Permit Modification application within twelve (12) months after commencing operation; and in accordance with 20.2.70.300.B.2 NMAC, requiring a timely application for a Title V renewal be submitted at least 12 months prior to the date of permit expiration.

As mentioned above, EPNG is submitting this application pursuant to 20.2.70.404.C(3)(b) NMAC, which requires a Title V Significant Permit Modification application within twelve (12) months after commencing operation. This application aims to incorporate into the Title V Permit to the changes to the facility that were integrated into NSR Permit 0691-M4. In brief, the NSR Permit 0691-M4 was updated the fuel sulfur limit and corresponding sulfur dioxide emissions associated with the 14,000 horsepower General Electric turbine, unit B-01, to better reflect the EPNG tariff limit of 5 gr Sulfur/100 scf. All other emission calculations will be carried forward from previous applications. EPNG is also requesting that the permit be updated to reflect their current NSR permit, which incorporated several administrative changes and clarifications with its last revision.

Enclosed are two hard copies of the application, including an original certification and two discs containing the electronic files. Please feel free to contact either myself at (505) 266-6611 or Richard Duarte, Sr. EHS Engineer with El Paso Natural Gas L. L. C., at (505) 831-7763 if you have any questions regarding this application.

Sincerely,

Jane Romero Kotovsky  
Senior Consultant

Cc: Richard Duarte

Trinity Project File 193201.0049

<p><b>Mail Application To:</b></p> <p>New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505</p> <p>Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb</p>		<p><b>For Department use only:</b></p>         <p>AIRS No.:</p>
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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. For NOI applications, submit the entire UA1, UA2, and UA3 applications on a single CD (no copies are needed). For NOIs, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required.

**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.: N/A – Title V application

I acknowledge the required submittal format for the hard copy application is printed double sided ‘head-to-toe’, 2-hole punched (except the Sect. 2 landscape tables is printed ‘head-to-head’), numbered tab separators. Incl. a copy of the check on a separate page.

This facility qualifies to receive assistance from the Small Business Environmental Assistance program (SBEAP) and qualifies for 50% of the normal application and permit fees. Enclosed is a check for 50% of the normal application fee which will be verified with the Small Business Certification Form for your company.

This facility qualifies to receive assistance from the Small Business Environmental Assistance Program (SBEAP) but does not qualify for 50% of the normal application and permit fees. To see if you qualify for SBEAP assistance and for the small business certification form go to [https://www.env.nm.gov/aqb/sbap/small\\_business\\_criteria.html](https://www.env.nm.gov/aqb/sbap/small_business_criteria.html) ).

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

## Section 1 – Facility Information

<p><b>Section 1-A: Company Information</b></p>		AI # if known (see 1 <sup>st</sup> 3 to 5 #s of permit IDEA ID No.): 843	Updating Permit/NOI #: P022-R3
1	Facility Name: Lincoln Compressor Station	Plant primary SIC Code (4 digits): 4922  Plant NAIC code (6 digits): 486210	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): From Corona, NM, take US-54 W for approximately 11 miles. Turn left onto Gas Plant Road. After 1.3 miles the facility will be on the right.		
2	Plant Operator Company Name: El Paso Natural Gas Company, L.L.C.	Phone/Fax: (520) 663-4200/(520) 663-4259	
a	Plant Operator Address: 5151 E. Broadway Blvd., Suite 1680 Tucson, AZ 85711		

b	Plant Operator's New Mexico Corporate ID or Tax ID: 46-0809216	
3	Plant Owner(s) name(s): El Paso Natural Gas Company, L.L.C.	Phone/Fax: (520) 663-4200/(520) 663-4259
a	Plant Owner(s) Mailing Address(s): 5151 E. Broadway Blvd., Suite 1680 Tucson, AZ 85711	
4	Bill To (Company): El Paso Natural Gas Company, L.L.C.	Phone/Fax: (520) 663-4200/(520) 663-4259
a	Mailing Address: 5151 E. Broadway Blvd., Suite 1680 Tucson, AZ 85711	E-mail: Ricardo_Duarte@KinderMorgan.com
5	<input checked="" type="checkbox"/> Preparer: Jane Romero Kotovsky <input checked="" type="checkbox"/> Consultant: Trinity Consultants, Inc.	Phone/Fax: (505) 266-6611
a	Mailing Address: 9400 Holly Avenue NE, Bldg. 3, Suite 300 Albuquerque, NM 87122	E-mail: jromero@trinityconsultants.com
6	Plant Operator Contact: Charles Lueras	Phone/Fax: (575) 627-5636 / (575) 626-3780
a	Address: 6 Petro Drive, Roswell, NM 88201	E-mail: Charles_Lueras@KinderMorgan.com
7	Air Permit Contact: Richard Duarte	Title: Senior EHS Engineer
a	E-mail: Ricardo_Duarte@KinderMorgan.com	Phone/Fax: (505) 831-7763/(505) 831-7734
b	Mailing Address: 7445 Pan American Freeway, Ste 202, Albuquerque, NM 87109	

**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): N/A
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? <input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: P-022-R3
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: N/A
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: N/A
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: 0691-M4
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: N/A

**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: 29.7 MMscf	Daily: 712.5 MMscf	Annually: 260,000 MMscf
b	Proposed	Hourly: 29.7 MMscf	Daily: 712.5 MMscf	Annually: 260,000 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: 29.7 MMscf	Daily: 712.5 MMscf	Annually: 260,000 MMscf
b	Proposed	Hourly: 29.7 MMscf	Daily: 712.5 MMscf	Annually: 260,000 MMscf

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

1	Section: 22	Range: 12E	Township: 2S	County: Lincoln	Elevation (ft): 6650
2	UTM Zone: <input type="checkbox"/> 12 or <input checked="" type="checkbox"/> 13			Datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83 <input checked="" type="checkbox"/> WGS 84	
a	UTM E (in meters, to nearest 10 meters): 438,440 m			UTM N (in meters, to nearest 10 meters): 3,775,250 m	
b	<b>AND</b> Latitude (deg., min., sec.): 34° 6' 58.5"			Longitude (deg., min., sec.): -105° 40' 3.11"	
3	Name and zip code of nearest New Mexico town: Corona, NM 88318				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Corona, NM, take US-54 W for approximately 11 miles. Turn left onto Gas Plant Road. After 1.3 miles the facility will be on the right.				
5	The facility is 10.1 miles southwest of Corona, NM.				
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: <b>Municipalities-</b> none; <b>Indian tribes-</b> none; <b>Counties-</b> Lincoln County, Torrance County				
8	<b>20.2.72 NMAC applications 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/classIareas.html">www.env.nm.gov/aqb/modeling/classIareas.html</a> )? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers:				
9	Name nearest Class I area: White Mountain Wilderness				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 61.3 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: approx. 2,500 m				
12	Method(s) used to delineate the Restricted Area: Continuous Fencing  "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? N/A				

**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: N/A		
a	If yes, NOV date or description of issue: N/A	NOV Tracking No: N/A	
b	Is this application in response to any issue listed in 1-F, 1 or 1a above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, provide the 1c & 1d info below:		
c	Document Title: N/A	Date: N/A	Requirement # (or page # and paragraph #): N/A
d	Provide the required text to be inserted in this permit: N/A		
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"/> Major ( <input type="checkbox"/> ≥10 tpy of any single HAP OR <input type="checkbox"/> ≥25 tpy of any combination of HAPS) OR <input checked="" type="checkbox"/> Minor ( <input checked="" type="checkbox"/> <10 tpy of any single HAP AND <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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
a	If yes, include the name of company providing commercial electric power to the facility: <u>Central NM Electric CO-OP</u> . 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): Philip L. Baca	Phone: (520) 663-4224
a	R.O. Title: Operations Director	R.O. e-mail: Philip_Baca@kindermorgan.com
b	R. O. Address: 5151 E. Broadway, Suite 1680, Tucson, AZ 85711	
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): Joseph E. McLaughlin	Phone: (713) 369-9847
a	A. R.O. Title: Operations Vice President	A. R.O. e-mail: Joe_McLaughlin@kindermorgan.com
b	A. R. O. Address: 1001 Louisiana Street, Suite 1000, Houston, TX 77002	
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): N/A	
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.): Kinder Morgan, Inc.	
a	Address of Parent Company: 1001 Louisiana St, Suite 1000, Houston, TX 77002	
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.): Mojave Pipeline Company, L. L. C.	
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: Richard Duarte, (505) 831-7763	
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: N/A - Lincoln Compressor Station is not within 50 miles of other states, local pollution control programs or Indian tribes and pueblos.	

## 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** does not need to be 2-hole punched, but **must be double sided**. 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 on compact disk(s) (CD). For 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.
- 4) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver OR** one additional electronic copy of the air dispersion modeling including the input and output files. The dispersion modeling **summary report only** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau. The complete dispersion modeling study, including all input/output files, should be submitted electronically as part of the electronic submittal.
- 5) If 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.

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

- 1) All required electronic documents shall be submitted in duplicate (2 separate CDs). 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 with the number of additional hard copies corresponding to the number of CD copies required. 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 3 electronic files (**2 MSWord docs**: Universal Application section 1 and Universal Application section 3-19) and **1 Excel file** of the tables (Universal Application section 2) on the CD(s). 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 # (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. The footer information should not be modified by the applicant.

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**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 #				
B-01	Regenerative Cycle Turbine	General Electric	3142J	226002	14,000 hp	11,540 hp	Pre-1977	N/A	20200201	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A
							1994	B-01				
F-001	Facility-wide Fugitives	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A
							N/A	N/A				
SSM/M1	Startup, Shutdown, Maintenance and Malfunction	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A
							N/A	N/A				
AUX-B1	Auxiliary Electric Generator	Caterpillar	3412	7DB00990	400 hp	400 hp	Unknown	N/A	20100202	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SRB	N/A
							Dec-94	AUX-B1				
										<input 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		
										<input 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		
										<input 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		
										<input 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		
										<input 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		
										<input 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		

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

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

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

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

**Table 2-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 <http://www.env.nm.gov/aqb/forms/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>	
T-001	Used oil storage tank	N/A	N/A	1000	N/A	N/A	<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	gallons	IA List Item #5	Dec-94	
T-002	Lube oil storage tank	N/A	N/A	1680	N/A	N/A	<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	gallons	IA List Item #5	Dec-94	
T-003	Used oil and oily water sump	N/A	N/A	425	N/A	N/A	<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	gallons	IA List Item #5	Dec-94	
T-004	Lube oil day tank	N/A	N/A	80	N/A	N/A	<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	gallons	IA List Item #5	Dec-94	
							<input 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
							<input 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
							<input 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
							<input 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
							<input 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
							<input 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

<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
N/A - There is no emissions control equipment at this facility.						

<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		TSP <sup>1</sup>		PM10 <sup>2</sup>		PM2.5 <sup>2</sup>		H <sub>2</sub> S		Lead		
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	
<b>Totals</b>																			

<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 TSP unless TSP is set equal to PM10 and PM2.5.

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

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

Unit No.	NOx		CO		VOC		SOx		TSP <sup>1</sup>		PM10 <sup>1</sup>		PM2.5 <sup>1</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
B-01	70.78	310.02	12.69	55.58	2.31	10.11	1.05	4.58	0.55	2.39	0.55	2.39	0.55	2.39	-	-	-	-
F-001	-	-	-	-	*	1.22	-	-	-	-	-	-	-	-	-	-	-	-
AUX-B1	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
<b>Totals</b>	70.78	310.02	12.69	55.58	2.31	11.34	1.05	4.58	0.55	2.39	0.55	2.39	0.55	2.39	-	-	-	-

<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 TSP unless TSP is set equal to PM10 and PM2.5.

\*Denotes an hourly limit is not appropriate for this unit.

\*\*Unit AUX-B1 is subject to MACT ZZZZ, however it is not subject to emissions limitations under MACT ZZZZ or permitting under 20.2.72 NMAC. Therefore, no emission limits are requested in this application.

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

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

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

Unit No.	NOx		CO		VOC		SOx		TSP <sup>2</sup>		PM10 <sup>2</sup>		PM2.5 <sup>2</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
SSM/M1	-	-	-	-	*	10.00	-	-	-	-	-	-	-	-	*	0.0036	-	-
<b>Totals</b>	-	-	-	-	*	10.00	-	-	-	-	-	-	-	-	*	0.0036	-	-

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

<sup>2</sup> **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for TSP unless TSP is set equal to PM10 and PM2.5.

\*Denotes an hourly limit is not appropriate for this unit.

### Table 2-G: Stack Exit and Fugitive Emission Rates for Special Stacks

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.

Stack No.	Serving Unit Number(s) from Table 2-A	NOx		CO		VOC		SOx		TSP		PM10		PM2.5		<input type="checkbox"/> H <sub>2</sub> S or <input type="checkbox"/> 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
<b>Totals:</b>																	

**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)			
B-01	B-01	V	Yes	61	588	4353	-	~5%	45.8	11.00
AUX-B1	AUX-B1	V	No	18	886	26	-	~5%	73.9	0.67



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

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

Stack No.	Unit No.(s)	Total HAPs		Acetaldehyde <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Formaldehyde <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	lb/hr
B-01	B-01	1.28	5.62	0.53	2.34	0.52	2.29													
N/A	F-001	*	0.026	-	-	-	-													
N/A	SSM/M1	*	0.069	-	-	-	-													
N/A	AUX-B1	**	**	**	**	**	**													
<b>Totals:</b>		1.28	5.71	0.53	2.34	0.52	2.29													

\*Denotes an hourly limit is not appropriate for this unit.

\*\* Unit AUX-B1 is subject to MACT ZZZZ; however, it is not subject to emission limitations under MACT ZZZZ or permitting under 20.2.72 NMAC. Therefore, no emission limits are requested in this application.

**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
B-01	Natural Gas	Pipeline Quality Natural Gas	932 Btu/scf	88.9 Mscf	778.7 MMscf	5 gr S/100 scf	N/A
AUX-B1	Natural Gas	Pipeline Quality Natural Gas	932 Btu/scf	3.35 Mscf	1.67 MMscf	5 gr S/100 scf	N/A

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

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

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
N/A - All tanks at this facility are insignificant activities.									

**Table 2-L: Tank Data**

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

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M <sup>3</sup> )			Roof	Shell			
N/A - All tanks at this facility are insignificant activities.													

**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
FX: Fixed Roof	Mechanical Shoe Seal	Liquid-mounted resilient seal	Vapor-mounted resilient seal	Seal Type	WH: White	Good
IF: Internal Floating Roof	A: Primary only	A: Primary only	A: Primary only	A: Mechanical shoe, primary only	AS: Aluminum (specular)	Poor
EF: External Floating Roof	B: Shoe-mounted secondary	B: Weather shield	B: Weather shield	B: Shoe-mounted secondary	AD: Aluminum (diffuse)	
P: Pressure	C: Rim-mounted secondary	C: Rim-mounted secondary	C: Rim-mounted secondary	C: Rim-mounted secondary	LG: Light Gray	
					MG: Medium Gray	
					BL: Black	
					OT: Other (specify)	

Note: 1.00 bbl = 0.159 M<sup>3</sup> = 42.0 gal

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

Material Processed				Material Produced			
Description	Chemical Composition	Phase (Gas, Liquid, or Solid)	Quantity (specify units)	Description	Chemical Composition	Phase	Quantity (specify units)
N/A - No materials are processed or produced at this facility.							

### Table 2-N: CEM Equipment

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.

Stack No.	Pollutant(s)	Manufacturer	Model No.	Serial No.	Sample Frequency	Averaging Time	Range	Sensitivity	Accuracy
N/A - There is no CEM equipment at this facility.									

**Table 2-O: Parametric Emissions Measurement Equipment**

Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

Unit No.	Parameter/Pollutant Measured	Location of Measurement	Unit of Measure	Acceptable Range	Frequency of Maintenance	Nature of Maintenance	Method of Recording	Averaging Time
N/A - There is no PEM equipment at this facility.								

**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 CO2e emissions are less than 75,000 tons per year.

		CO <sub>2</sub> ton/yr	N <sub>2</sub> O ton/yr	CH <sub>4</sub> ton/yr	SF <sub>6</sub> ton/yr	PFC/HFC ton/yr <sup>2</sup>												Total GHG Mass Basis ton/yr <sup>4</sup>	Total CO <sub>2</sub> e ton/yr <sup>5</sup>
<b>Unit No.</b>	<b>GWPs<sup>1</sup></b>	<b>1</b>	<b>298</b>	<b>25</b>	<b>22,800</b>	<b>footnote 3</b>													
<b>B-01</b>	mass GHG	42431.49	0.080	0.80	-													42432.37	
	CO <sub>2</sub> e	42431.49	23.83	19.99	-														42475.32
<b>FUG</b>	mass GHG	1.22	-	1.22	-													2.45	
	CO <sub>2</sub> e	1.22	-	30.59	-														31.81
<b>SSM/M1</b>	mass GHG	10.0	-	450.0	-													460.0	
	CO <sub>2</sub> e	10.0	-	11250.0	-														11260.0
<b>AUX-B1</b>	mass GHG	**	**	**														**	
	CO <sub>2</sub> e	**	**	**															**
	mass GHG																		
	CO <sub>2</sub> e																		
	mass GHG																		
	CO <sub>2</sub> e																		
	mass GHG																		
	CO <sub>2</sub> e																		
	mass GHG																		
	CO <sub>2</sub> e																		
<b>Total</b>	mass GHG																	42894.8	
	CO <sub>2</sub> e																		53767.1

<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.

\*\* Unit AUX-B1 is subject to MACT ZZZZ; however, it is not subject to emission limitations under MACT ZZZZ or permitting under 20.2.72 NMAC. Therefore, no emission limits are requested in this application.



# 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).

**Routine or predictable emissions during Startup, Shutdown, and Maintenance (SSM):** 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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EPNG is submitting this application pursuant to 20.2.70. 404.C(3)(b)NMAC, which requires a Title V Significant Permit Modification application within twelve (12) months after commencing operation; and in accordance with 20.2.70.300.B.2 NMAC, requiring a timely application for a Title V renewal be submitted at least 12 months prior to the date of permit expiration.

As mentioned above, EPNG is submitting this application pursuant to 20.2.70.404.C(3)(b) NMAC, which requires a Title V Significant Permit Modification application within twelve (12) months after commencing operation. This application aims to incorporate into the Title V Permit to the changes to the facility that were integrated into NSR Permit 0691-M4. In brief, the NSR Permit 0691-M4 was updated the fuel sulfur limit and corresponding sulfur dioxide emissions associated with the 14,000 horsepower General Electric turbine, unit B-01, to better reflect the EPNG tariff limit of 5 gr Sulfur/100 scf. All other emission calculations will be carried forward from previous applications. EPNG is also requesting that the permit be updated to reflect their current NSR permit, which incorporated several administrative changes and clarifications with its last revision.

The facility compresses natural gas for transportation purposes. Equipment at this facility includes one General Electric 3142J regenerative cycle turbine (unit B-01) and one CAT 3412 auxiliary generator (unit AUX-B1). Additional emissions at this facility result from facility-wide fugitive emissions (unit FUG) and startup, shutdown, and maintenance emissions (unit SSM). Insignificant activities at the facility include four storage tanks (units T-001 to T-004) used to store lube oil, used oil and oily water.



# Section 4

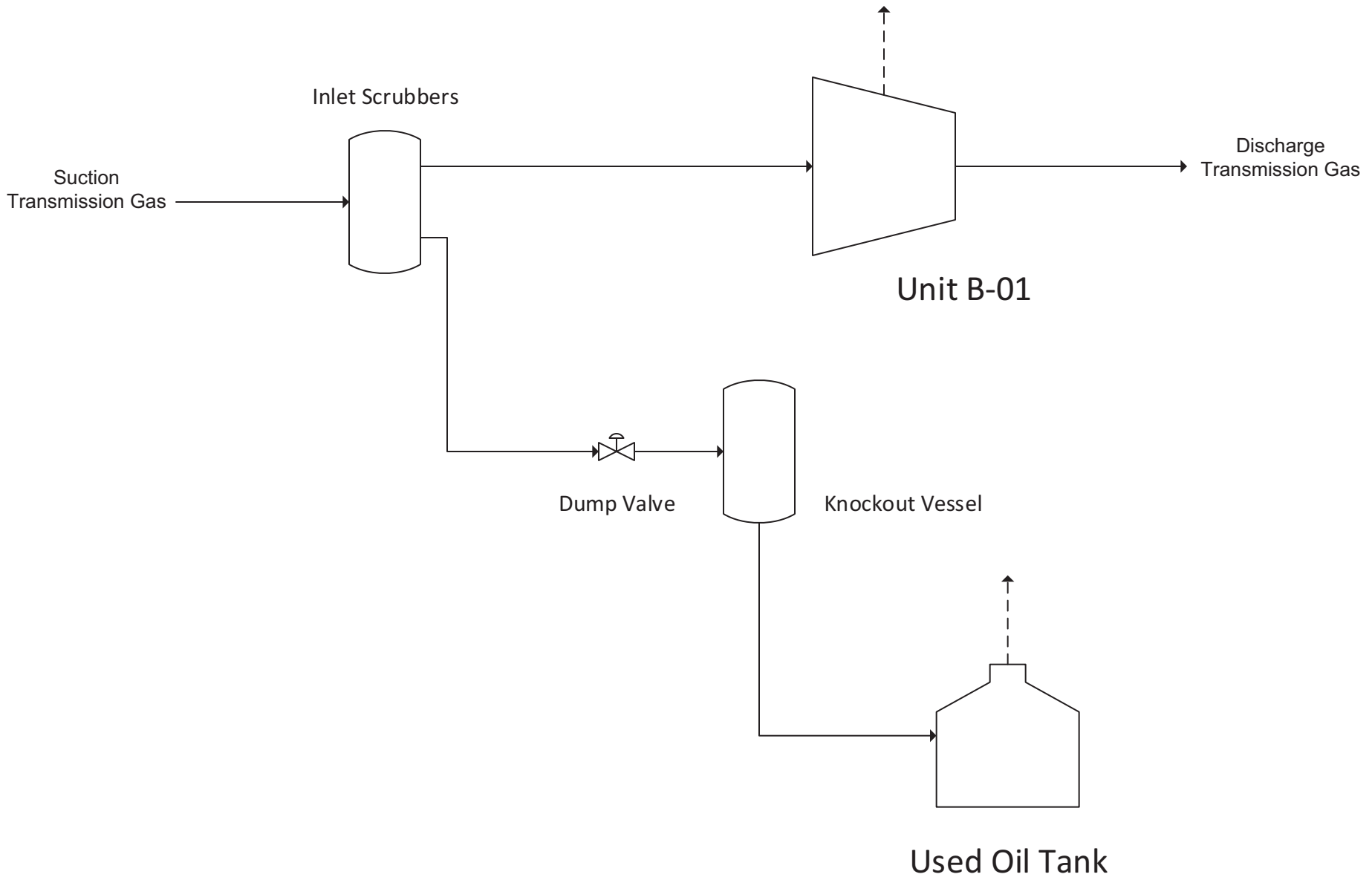
## Process Flow Sheet

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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 diagram is included on the following page.



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**EPNG Lincoln Compressor Station  
Process Flow Diagram**

# 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 plot plan is included on the following page.

ESD VALVE AND SWITCH LOCATION LEGEND

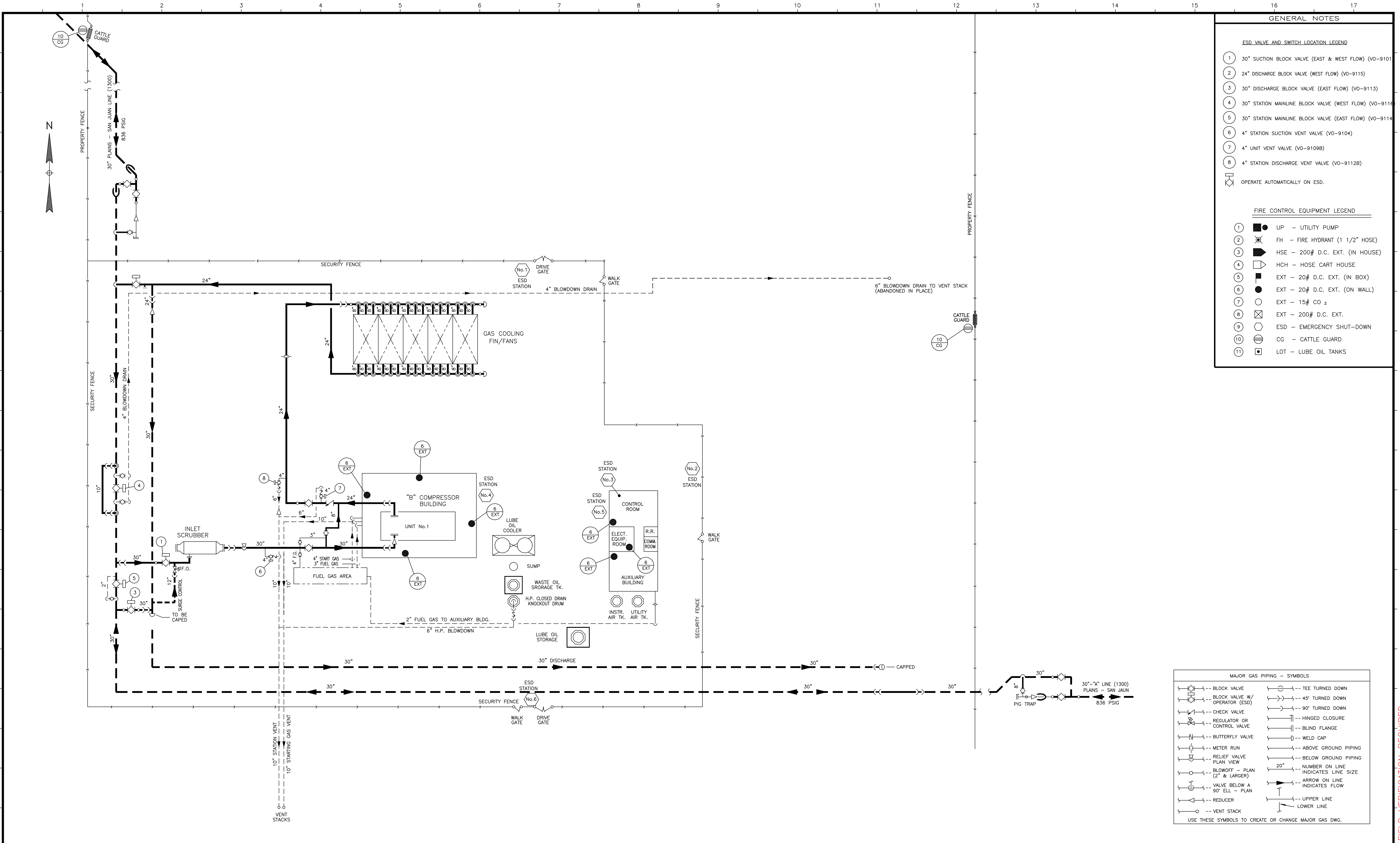
- ① 30" SUCTION BLOCK VALVE (EAST & WEST FLOW) (VO-9101)
- ② 24" DISCHARGE BLOCK VALVE (WEST FLOW) (VO-9115)
- ③ 30" DISCHARGE BLOCK VALVE (EAST FLOW) (VO-9113)
- ④ 30" STATION MAINLINE BLOCK VALVE (WEST FLOW) (VO-9116)
- ⑤ 30" STATION MAINLINE BLOCK VALVE (EAST FLOW) (VO-9114)
- ⑥ 4" STATION SUCTION VENT VALVE (VO-9104)
- ⑦ 4" UNIT VENT VALVE (VO-9109B)
- ⑧ 4" STATION DISCHARGE VENT VALVE (VO-9112B)
- ⊞ OPERATE AUTOMATICALLY ON ESD.

FIRE CONTROL EQUIPMENT LEGEND

- ① UP - UTILITY PUMP
- ② FH - FIRE HYDRANT (1 1/2" HOSE)
- ③ HSE - 200# D.C. EXT. (IN HOUSE)
- ④ HCH - HOSE CART HOUSE
- ⑤ EXT - 20# D.C. EXT. (IN BOX)
- ⑥ EXT - 20# D.C. EXT. (ON WALL)
- ⑦ EXT - 15# CO<sub>2</sub>
- ⑧ EXT - 200# D.C. EXT.
- ⑨ ESD - EMERGENCY SHUT-DOWN
- ⑩ CG - CATTLE GUARD
- ⑪ LOT - LUBE OIL TANKS

MAJOR GAS PIPING - SYMBOLS

- BLOCK VALVE
  - BLOCK VALVE W/ OPERATOR (ESD)
  - CHECK VALVE
  - REGULATOR OR CONTROL VALVE
  - BUTTERFLY VALVE
  - METER RUN
  - RELIEF VALVE PLAN VIEW
  - BLOWOFF - PLAN (2" & LARGER)
  - VALVE BELOW A 90° ELL - PLAN
  - REDUCER
  - VENT STACK
  - TEE TURNED DOWN
  - 45° TURNED DOWN
  - 90° TURNED DOWN
  - HINGED CLOSURE
  - BLIND FLANGE
  - WELD CAP
  - ABOVE GROUND PIPING
  - BELOW GROUND PIPING
  - 20" NUMBER ON LINE INDICATES LINE SIZE
  - ARROW ON LINE INDICATES FLOW
  - UPPER LINE
  - LOWER LINE
- USE THESE SYMBOLS TO CREATE OR CHANGE MAJOR GAS DWG.



Revision	Description	Project ID	Date
11	AS-BUILT	CADD-JIRA 1284	12-07-2017
10	AS BUILT	117525/117533	08-14-2009
9	PIP 2009 LINE 1300	117525	11-19-2008
8	AS BUILT- RPLC 30" TRAP VA, MISC	112908	10-25-2006
8	INCORPORATED CMP-LI-4	-	10-25-2006

NOTES:



CMP-LI-3-Reference Drawings

ESD VALVE AND SWITCH LOCATION PLAN  
AND FIRE CONTROL EQUIPMENT PLAN  
LINCOLN COMPRESSOR STATION  
COMPLIANCE

Status:	AS-BUILT	
State:	NEW MEXICO	PIN No:
County:	LINCOLN	Scale:
Category:	ELECTRICAL	
File Name:	CMP-LI-2.dwg	
Drawing No:	CMP-LI-2	Rev
		11

FIELD VERIFICATION REQUIRED

# 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 rationale 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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Emission units at Lincoln Compressor Station include the following:

- General Electric 3142J regenerative cycle turbine (unit B-01)
- Facility fugitive emissions (unit FUG)
- Startup, shutdown, and maintenance emissions (unit SSM)
- One Caterpillar G3412 auxiliary unit (unit AUX-B1)
- Insignificant activities including several storage tanks, (units T-001, T-002, T-003, T-004).

Emission calculations have been carried forward from previous permit applications, with the only change being the fuel sulfur content update for unit B-01.

#### **GE 3142J Turbine (unit B-01)**

Emission rates for NO<sub>x</sub>, CO, and VOC are calculated using testing data, which is included as part of this application. The SO<sub>2</sub> emission rate is calculated assuming a maximum sulfur content of 5 grains per 100 scf, assuming 100% conversion to SO<sub>2</sub>. Hazardous air pollutant emissions were calculated using GRI-HAPCalc, using the ISO rating of the engine.

Greenhouse gas emissions were calculated using the appropriate emission factors from 40 CFR 98 Tables C-1 and C-2.

#### **Fugitives (unit FUG)**

Fugitive VOC and HAP emissions are calculated using GRI-HAPCalc. A 120% safety factor was added to these emissions. Greenhouse gas emissions were calculated using nominal weight percentages of VOC, CO<sub>2</sub>, and CH<sub>4</sub>.

#### **Startup, Shutdown and Maintenance (unit SSM)**

Startup, shutdown and maintenance emissions were calculated using the predicted number of SSM events, the volume of gas blown down during each event and representative percentages for VOC, CO<sub>2</sub>, and CH<sub>4</sub>. HAP emissions were calculated using the HAP/VOC ratio from GRI-HAPCalc for the fugitive emissions. GHG emissions were calculated using nominal weight percentages of VOC, CO<sub>2</sub>, and CH<sub>4</sub>.

#### **Caterpillar 3412 Engine (Unit AUX-B1)**

The emission factor for NO<sub>x</sub>, CO, & VOC are from engine specifications. HAP and PM is from U.S. EPA, AP-42, Section 3.2 Natural Gas-fired Reciprocating Engines, Table 3.2-3 Uncontrolled Emission Factors for 4-stroke rich-burn engines. SO<sub>2</sub> emissions were calculated based on fuel consumption and a maximum fuel sulfur content of 5 gr S/100 scf. Greenhouse gas emissions were calculated using the appropriate emission factors from 40 CFR 98 Tables C-1 and C-2.



# Section 6.a

## Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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**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)

### Emission Summary

Unit	NO <sub>x</sub>		CO		VOC		SO <sub>2</sub>		PM		H <sub>2</sub> S		Acetaldehyde		Formaldehyde		Total HAP		CO <sub>2</sub> e
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	tpy
B-01	70.78	310.02	12.69	55.58	2.31	10.11	1.05	4.58	0.55	2.39	-	-	0.53	2.34	0.52	2.29	1.28	5.62	42475.32
F-001	-	-	-	-	*	1.22	-	-	-	-	-	-	-	-	-	-	*	0.026	31.81
SSM/M1	-	-	-	-	*	10.00	-	-	-	-	*	0.0036	-	-	-	-	*	0.069	11260.00
AUX-B1	15.77	3.94	6.69	1.67	2.52	0.6300	4.78	1.20	0.0593	0.0148	-	-	0.0087	4.97E-04	0.064	0.0037	0.10	0.0058	91.31
<b>Totals</b>	70.78	310.02	12.69	55.58	2.31	21.34	1.05	4.58	0.55	2.39	*	0.00	0.53	2.34	0.52	2.29	1.28	5.71	53767.13

Notes

"\*" Denotes an hourly value is not appropriate for this emission type.

"-" Denotes emissions of this pollutant are not expected.

## Emission Summary

Unit:	B-01		
Description:	GE Regenerative Cycle Turbine (model 3142J)		
ISO Rating:	14000	hp	
Site Rating:	11540	hp	
Fuel Heating Value:	932	Btu/scf	
Fuel Consumption:	778.7	MMscf/yr	
Heat Input:	82.8	MMBtu/hr	Fuel consumption * Fuel Heating Value * 1 yr/8760 hours
Heat Input Rate:	5917.1	Btu/hp-hr	Heat input / horsepower * 10 <sup>6</sup> Btu/MMBtu

### Emission Calculations

NO <sub>x</sub>	CO	VOC	SO <sub>2</sub> <sup>1</sup>	PM <sup>1</sup>	
70.8	12.7	2.3			lb/hr
				0.007	lb/MMBtu
			5		grains S/100 scf
<b>70.8</b>	<b>12.7</b>	<b>2.3</b>	<b>1.047</b>	<b>0.55</b>	<b>lb/hr</b>
<b>310.0</b>	<b>55.6</b>	<b>10.1</b>	<b>4.58</b>	<b>2.39</b>	<b>tons/yr</b>
<b>Acetaldehyde<sup>3</sup> Formaldehyde<sup>3</sup> Total HAPs<sup>3</sup></b>					
<b>0.53</b>	<b>0.52</b>	<b>1.3</b>			
<b>2.3</b>	<b>2.3</b>	<b>5.6</b>			

Permit limits, based on test data<sup>2</sup>  
AP-42 Table 3.1-2a

<sup>1</sup> SO<sub>2</sub> emission rate based on fuel sulfur content of 5 gr S/100scf and Site Rating

$$\text{SO}_2 \text{ (lb/hr)} = 5 \text{ gr S/100scf} * \text{Heat input (Btu/hp-hr)} * \text{Site rating (hp)} / \text{Fuel Heating value (Btu/scf)} * 1 \text{ lb/7000gr} * \text{Stoichometric ratio (64/32)}$$

<sup>2</sup> Testing data included in this application

<sup>3</sup> HAP tpy emission rate from GRI-HAPCalc 3.01 calculated using site rating

### GHG Emission Calculations

CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O		
53.06	1.00E-03	1.00E-04	kg/MMBtu	40 CFR 98, Subpart C, Tables C-1 and C-2
1	25	298	GWP	40 CFR 98 Table A-1
38504078	726	73	kg / yr	
42431.5	0.80	0.080	tons / yr	
42431.49	19.99	23.83	tons/yr CO <sub>2</sub> e	

### Emission Summary

Unit: AUX-B1  
Description: 4-Stroke Rich Burn Engine

ISO Rating: 400 hp  
Site Rating: 400 hp  
Fuel consumption: 7800 BTU/bhp-hr (Engine Specification)  
Heat Input: 3.1 MMBtu/hr  
Fuel Heat Value: 931.9 BTU/scf  
Operation Time: 500 hr/yr

**Emission Calculations**

Nox	CO	VOC	SO <sub>2</sub> <sup>1</sup>	PM	Acetaldehyde	Formaldehyde	Total HAPs		
15.77	6.69	2.52		0.019	0.0028	0.021	0.032	lb/hr	Test Data
			5					lb/MMBtu	AP-42 Table 3.2-3
15.77	6.69	2.52	4.8	0.059	0.0087	0.064	0.10	lb/hr	
3.9	1.67	0.6300	1.2	0.015	4.97E-04	0.0037	0.0058	tons/yr	

<sup>1</sup>SO<sub>2</sub> emission rate based on fuel sulfur content of 5 gr S/100scf and Site Rating

$$SO_2 \text{ (lb/hr)} = 5 \text{ gr S/100scf} * \text{Heat input (Btu/hp-hr)} * \text{Site rating (hp)} / \text{Fuel Heating value (Btu/scf)} * 1 \text{ lb/7000gr} * \text{Stoichiometric ratio (64/32)}$$

**GHG Emission Calculations**

CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O		
53.06	1.00E-03	1.00E-04	kg/MMBtu	40 CFR 98, Subpart C, Tables C-1 and C-2
1	25	298	GWP	40 CFR 98 Table A-1
82774	1.56	0.16	kg / yr	
91.2	0.0017	0.00017	tons / yr	
91.22	0.043	0.051	tons/yr CO <sub>2</sub> e	

Component	Factor (lb/MMBtu)	lb/hr	ton/yr
1,1,2,2-Tetrachl	0.0000253	7.894E-05	1.9734E-05

Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN ENGINES<sup>1</sup> (SCC 2-02-002-53)

	Emission Factor	
--	-----------------	--

### Emission Summary

Unit: FUG  
Description: Facility-wide fugitives

VOC	Benzene	Toluene	Ethylbenzene	Xylenes	Total HAPs		
0.56	0.0037	0.0062	0.0003	0.0016	0.0118	tpy	GRI-HAPCalc
120%	120%	120%	120%	120%	120%		Safety Factor
0.28	0.0019	0.0031	1.5E-04	8.0E-04	0.0059	lb/hr <sup>1</sup>	
<b>1.2</b>	<b>0.008</b>	<b>0.014</b>	<b>6.6E-04</b>	<b>3.5E-03</b>	<b>0.026</b>	<b>tpy</b>	
CO <sub>2</sub>	CH <sub>4</sub>						
2.00%	90.00%	Wt%, nominal					
1	25	GWP, 40 CFR 98, Table A-1					
1.2	1.2	tons/yr, VOC emissions (tpy) / %VOC (2%) * wt%					
<b>1.2</b>	<b>30.6</b>	<b>tons/yr CO<sub>2</sub>e</b>					

<sup>1</sup> Hourly emission rates are shown for informational purposes only.

Unit: SSM/M1  
Description: Facility-wide startup, shutdown, maintenance and malfunction emissions

**Gas Analysis (Typical)**

VOC weight %:	2.00%	Nominal
CO2 weight %:	2.00%	Nominal
CH4 weight %:	90.00%	Nominal
Gas molecular weight:	17.00 lb/lb-mol	Nominal
Gas molar volume:	378.61 scf/lb-mol	Constant
Gas density:	0.0449 lb/scf	Gas MW / Molar volume

**Turbine Blowdown Venting (BD-Unit)**

**SSM Emission Rates, Per Event**

Event Description: [Planned Maintenance and Normal Shutdown](#)  
Volume per event: 51 Mscf/event Estimated (varies)  
VOC Emissions: 45.8 lb/event lb/scf \* scf/event \* VOC wt %

**SSM Emission Rates, Annual**

Annual volume: 5100 Mscf/yr Expected blowdown volume  
VOC Emissions: 2.3 tons/yr lb/scf \* scf/event \* VOC wt % \* ton/2000 lb

**Turbine Starting Gas (BD-Unit)**

**SSM Emission Rates, Per Event**

Event Description: [Normal Startup](#)  
Volume per event: 150 Mscf/event Estimated (varies)  
VOC Emissions: 135 lb/event lb/scf \* scf/event \* VOC wt %

**SSM Emission Rates, Annual**

Annual volume: 15000 Mscf/yr Expected blowdown volume  
VOC Emissions: 6.7 tons/yr lb/scf \* scf/event \* VOC wt %

**Facility Blowdown Venting (BD-ESD)**

**SSM Emission Rates, Per Event**

Event Description: [Station ESD](#)  
Volume per event: 153 Mscf/event Estimated (varies)  
VOC Emissions: 137 lb/event lb/scf \* scf/event \* VOC wt %

**SSM Emission Rates, Annual**

Annual volume: 153 Mscf/yr Assumes 1 event per year  
VOC Emissions: 0.069 tons/yr lb/event \* event/year \* ton/2000lb

**Facility VOC Total:** 9.09 tons/yr

**Facility Blowdown Total**

VOC Emissions:	10.0 tons/yr	
HAP emissions:	0.069 tons/yr	Assumes same HAP/VOC ratio as fugitives
CO2 Emissions:	10.0 tons/yr	VOC Emissions / %VOC * %CO2
CH4 Emissions:	450.0 tons/yr	VOC Emissions / %VOC * %CH4
CO2e Emissions:	11260.0 tons/yr	

**Facility-Wide SSM/M Total**

VOC	HAP	CO2	CH4	CO2e	
10.0	0.069	10.0	450.0	11260.0	tons/yr

Unit: SSM/M1  
Description: Facility-wide startup, shutdown, maintenance and malfunction emissions

**Gas Analysis (Typical)**

$H_2S$	<u>0.25</u>	gr $H_2S$	Nominal (Max amount allowed in pipeline quality natural gas)
	100	scf	

**Turbine Blowdown Venting (BD-Unit)**

**SSM Emission Rates, Per Event**

Event Description: **Planned Maintenance and Normal Shutdown**  
Volume per event: 51 Mscf/event Estimated (varies)  
 $H_2S$  Emissions: 0.018 lb/event gr/scf \* scf/event \* 1lb/7000gr

**SSM Emission Rates, Annual**

Annual volume: 5100 Mscf/yr Expected blowdown volume  
 $H_2S$  Emissions: 0.0009 tons/yr gr/scf \* scf/event \* 1lb/7000gr \* ton/2000 lb

**Turbine Starting Gas (BD-Unit)**

**SSM Emission Rates, Per Event**

Event Description: **Normal Startup**  
Volume per event: 150 Mscf/event Estimated (varies)  
 $H_2S$  Emissions: 0.054 lb/event gr/scf \* scf/event \* 1lb/7000gr

**SSM Emission Rates, Annual**

Annual volume: 15000 Mscf/yr Expected blowdown volume  
 $H_2S$  Emissions: 0.0027 tons/yr gr/scf \* scf/event \* 1lb/7000gr \* ton/2000 lb

**Facility Blowdown Venting (BD-ESD)**

**SSM Emission Rates, Per Event**

Event Description: **Station ESD**  
Volume per event: 153 Mscf/event Estimated (varies)  
 $H_2S$  Emissions: 0.055 lb/event gr/scf \* scf/event \* 1lb/7000gr

**SSM Emission Rates, Annual**

Annual volume: 153 Mscf/yr Expected blowdown volume  
 $H_2S$  Emissions: 2.73E-05 tons/yr gr/scf \* scf/event \* 1lb/7000gr \* ton/2000 lb

**Facility  $H_2S$  Total:** 0.0036 tons/yr

**Facility Blowdown Total**

$H_2S$  Emissions: 0.0036 tons/yr

**Facility-Wide SSM/M Total**

H<sub>2</sub>S  
0.0036 tons/yr





# Section 7

## Information Used To Determine Emissions

---

**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.
- 

The following information was used to calculate emissions for this application

- Turbine (Unit B-01)
  - o Test Data
  - o GRI-HAPCalc
  - o 40 CFR 98 Tables C-1 and C-2
- Fugitives (Unit FUG)
  - o GRI-HAPCalc
- Auxiliary Engine (Unit AUX-B1)
  - o G3412 Gas Petroleum Engine Specification
  - o Test Data
  - o AP-42 Table 3.2-3, Uncontrolled Emission Factors for 4-stroke rich-burn engines
- Fuel Analysis

# Data Summary

## General Information

Date: 7-Oct-14      Atm Temp (F): **69**  
 Company: EPG      Bar P ("Hg): **23.67**  
 Station: LINCOLN      Humidity (%): **23.6**

## Unit Information

Building: B  
 Unit: 1  
 Model: M3912R F  
 Serial: 226002

## Gas Analysis

Nitrogen: **0.397**      I - Butane: **0.009**  
 Carbon Dioxide: **1.342**      N - Butane: **0.008**  
 Methane: **95.192**      I - Pentane: **0.003**  
 Ethane: **2.916**      N - Pentane: **0.002**  
 Propane: **0.128**      Hexane +: **0**

Total **99.9970**

Rated BHP: 9610

Rated Speed:

Rated BSFC:

Panel Fuel       Downstream Tap

Pipe ID (in):

Orifice ID (in):

## Test Data

### General Data

Run	1	2	3	Average	
Date	10/7/14	10/7/14	10/7/14		
Time	10:00 AM	10:35 AM	11:10 AM		
Condition	Clear	Clear	Clear		
Horsepower	6312	6310	6382	6335	
Speed	6226	6223	6228	6226	
% Load	65.68%	65.66%	66.41%	65.92%	
% Torque					
Fuel Static Press (PSIG)	185.00	184.00	184.00	184.33	Calculated
Fuel Diff Press ("H <sub>2</sub> O)	14.00	14.00	13.00	13.67	
Fuel Temperature (°F)	53	56	58	56	Panel
Fuel Use (SCFH)	46728	45987	43482	45399	
Fuel Flow (scfh)	46728	45987	43482	45399	
UDHV (BTU/dscf)	1019	1019	1019	1019	
LDHV (BTU/dscf)	922	922	922	922	
Curve					
AMP (psig)	11.80	11.80	11.80	11.80	
AMT (°F)	76	81	79	79	
Suct. Press. (psig)	616.66	624.00	621.66	620.77	
Suct. Temp. (°F)	73	81	82	79	
Disc. Press. (psig)	778.00	774.00	777.00	776.33	
Disc. Temp. (°F)	107	114	115	112	

Perform Bias Calculations?

### Emissions Results

NO	80.89	80.52	82.52	81.31	ppm
NO <sub>2</sub>	9.10	8.86	8.62	8.86	ppm
NO <sub>x</sub> @ 15% O <sub>2</sub>	162.04	166.03	157.06	161.71	ppm @ 15%O <sub>2</sub>
NO <sub>x</sub>	28.36	28.60	25.58	27.51	lb/hr
NO <sub>x</sub>	2.04	2.06	1.82	1.97	g/bhp-hr
NO <sub>x</sub>	123.19	124.22	111.11	119.51	TPY
NO <sub>x</sub> Permit		70.80			lb/hr
CO	0.67	1.00	1.00	0.89	ppm
CO @ 15% O <sub>2</sub>	1.20	1.86	1.72	1.59	ppm @ 15%O <sub>2</sub>
CO	0.13	0.19	0.17	0.16	lb/hr
CO	0.01	0.01	0.01	0.01	g/bhp-hr
CO	0.56	0.85	0.74	0.71	TPY
CO Permit		12.70			lb/hr
% O <sub>2</sub>	17.62	17.72	17.48	17.61	%

**GRI-HAPCalc® 3.01**  
**Turbine Report**

<b>Facility ID:</b>	<b>EPNG LINCOLN</b>	<b>Notes:</b>
<b>Operation Type:</b>	<b>COMPRESSOR STATION</b>	
<b>Facility Name:</b>	<b>LINCOLN COMPRESSOR STATION</b>	
<b>User Name:</b>		
<b>Units of Measure:</b>	<b>U.S. STANDARD</b>	

*Note: Emissions less than 5.00E-09 tons (or tonnes) per year are considered insignificant and are treated as zero. These emissions are indicated on the report with a "0". Emissions between 5.00E-09 and 5.00E-05 tons (or tonnes) per year are represented on the report with "0.0000".*

**Turbine Unit**

Unit Name: B-01

Hours of Operation: 8,760 Yearly  
Rate Power: 11540 hp  
Fuel Type: NATURAL GAS  
Emission Factor Set: FIELD > EPA > LITERATURE  
Additional EF Set: -NONE-

**Calculated Emissions (ton/yr)**

<u>Chemical Name</u>	<u>Emissions</u>	<u>Emission Factor</u>	<u>Emission Factor Set</u>
<b>HAPs</b>			
PAHs	0.0011	0.00000970 g/bhp-hr	EPA
Formaldehyde	1.8856	0.01693680 g/bhp-hr	GRI Field
Acetaldehyde	1.9300	0.01733570 g/bhp-hr	GRI Field
1,3-Butadiene	0.0069	0.00006160 g/bhp-hr	GRI Field
Acrolein	0.0289	0.00026000 g/bhp-hr	GRI Field
Propional	0.0963	0.00086500 g/bhp-hr	GRI Field
Propylene Oxide	0.0142	0.00012730 g/bhp-hr	EPA
Benzene	0.0599	0.00053840 g/bhp-hr	GRI Field
Toluene	0.0458	0.00041100 g/bhp-hr	GRI Field
Ethylbenzene	0.0156	0.00014050 g/bhp-hr	EPA
Xylenes(m,p,o)	0.1385	0.00124410 g/bhp-hr	GRI Field
2,2,4-Trimethylpentane	0.1787	0.00160530 g/bhp-hr	GRI Field
n-Hexane	0.1676	0.00150580 g/bhp-hr	GRI Field
Phenol	0.0123	0.00011010 g/bhp-hr	GRI Field
Naphthalene	0.0008	0.00000760 g/bhp-hr	GRI Field
2-Methylnaphthalene	0.0001	0.00000130 g/bhp-hr	GRI Field
Biphenyl	0.0368	0.00033050 g/bhp-hr	GRI Field
Phenanthrene	0.0001	0.00000050 g/bhp-hr	GRI Field
Chrysene	0.0001	0.00000100 g/bhp-hr	GRI Field
Beryllium	0.0000	0.00000010 g/bhp-hr	GRI Field
Phosphorus	0.0073	0.00006520 g/bhp-hr	GRI Field
Chromium	0.0009	0.00000820 g/bhp-hr	GRI Field
Manganese	0.0019	0.00001750 g/bhp-hr	GRI Field
Nickel	0.0007	0.00000610 g/bhp-hr	GRI Field
Cobalt	0.0002	0.00000160 g/bhp-hr	GRI Field
Arsenic	0.0001	0.00000060 g/bhp-hr	GRI Field
Selenium	0.0000	0.00000030 g/bhp-hr	GRI Field

Cadmium	0.0000	0.00000020 g/bhp-hr	GRI Field
Mercury	0.0003	0.00000270 g/bhp-hr	GRI Field
Lead	0.0004	0.00000340 g/bhp-hr	GRI Field
<b>Total</b>	<b>4.6311</b>		

### Criteria Pollutants

PM	3.2255	0.02897200 g/bhp-hr	EPA
CO	234.7217	2.10828420 g/bhp-hr	GRI Field
NMHC	21.5850	0.19387800 g/bhp-hr	GRI Field
NMEHC	1.0263	0.00921840 g/bhp-hr	EPA
NOx	139.4071	1.25216290 g/bhp-hr	GRI Field
SO2	0.1144	0.00102720 g/bhp-hr	GRI Field

### Other Pollutants

Methane	109.9071	0.98719230 g/bhp-hr	GRI Field
Acetylene	0.7977	0.00716540 g/bhp-hr	GRI Field
Ethylene	1.5536	0.01395450 g/bhp-hr	GRI Field
Ethane	16.7093	0.15008370 g/bhp-hr	GRI Field
Propane	1.7813	0.01600000 g/bhp-hr	GRI Field
Isobutane	0.5344	0.00480000 g/bhp-hr	GRI Field
Butane	0.5789	0.00520000 g/bhp-hr	GRI Field
Cyclopentane	0.1838	0.00165110 g/bhp-hr	GRI Field
Butyrald/Isobutyraldehyde	0.1492	0.00134000 g/bhp-hr	GRI Field
n-Pentane	9.0347	0.08115000 g/bhp-hr	GRI Field
Cyclohexane	0.6818	0.00612400 g/bhp-hr	GRI Field
Methylcyclohexane	0.9832	0.00883120 g/bhp-hr	GRI Field
n-Octane	0.3550	0.00318890 g/bhp-hr	GRI Field
1,3,5-Trimethylbenzene	0.3340	0.00300000 g/bhp-hr	GRI Field
n-Nonane	0.0593	0.00053260 g/bhp-hr	GRI Field
CO2	53,758.9482	482.86607780 g/bhp-hr	EPA
Vanadium	0.0001	0.00000070 g/bhp-hr	GRI Field
Copper	0.0023	0.00002050 g/bhp-hr	GRI Field
Molybdenum	0.0023	0.00002030 g/bhp-hr	GRI Field
Barium	0.0025	0.00002290 g/bhp-hr	GRI Field

## 98.36(e)(3)

Within 30 days of receipt of a written request from the Administrator, you shall submit explanations of the following:

## 98.36(e)(3)(i)

An explanation of how company records are used to quantify fuel consumption, if the Tier 1 or Tier 2 Calculation Methodology is used to calculate CO<sub>2</sub> emissions.

## 98.36(e)(3)(ii)

An explanation of how company records are used to quantify fuel consumption, if solid fuel is combusted and the Tier 3 Calculation Methodology is used to calculate CO<sub>2</sub> emissions.

## 98.36(e)(3)(iii)

An explanation of how sorbent usage is quantified.

## 98.36(e)(3)(iv)

An explanation of how company records are used to quantify fossil fuel consumption in units that uses CEMS to quantify CO<sub>2</sub> emissions and combusts both fossil fuel and biomass.

## 98.36(e)(3)(v)

An explanation of how company records are used to measure steam production, when it is used to calculate CO<sub>2</sub> mass emissions under §98.33(a)(2)(iii) or to quantify solid fuel usage under §98.33(c)(3).

## 98.36(e)(4)

Within 30 days of receipt of a written request from the Administrator, you shall submit the verification data and information described in paragraphs (e)(2)(iii), (e)(2)(v), and (e)(2)(vii) of this section.

[Amended at 75 FR page 79151, Dec. 17, 2010]

### § 98.37 Records that must be retained.

In addition to the requirements of §98.3(g), you must retain the applicable records specified in §§98.34(f) and (g), 98.35(b), and 98.36(e).

### § 98.38 Definitions.

All terms used in this subpart have the same meaning given in the Clean Air Act and subpart A of this part.

**Table C-1 to Subpart C of Part 98 —Default CO<sub>2</sub> Emission Factors and High Heat Values for Various Types of Fuel**

Fuel type	Default high heat value	Default CO <sub>2</sub> emission factor
Coal and coke	mmBtu/short ton	kg CO <sub>2</sub> /mmBtu
Anthracite	25.09	103.54
Bituminous	24.93	93.40
Subbituminous	17.25	97.02
Lignite	14.21	96.36
Coke	24.80	102.04
Mixed (Commercial sector)	21.39	95.26
Mixed (Industrial coking)	26.28	93.65
Mixed (Industrial sector)	22.35	93.91
Mixed (Electric Power sector)	19.73	94.38
Natural gas (Weighted U.S. Average)	mmBtu/scf 1.028 x 10 <sup>-3</sup>	kg CO <sub>2</sub> /mmBtu 53.02
Petroleum products	mmBtu/gallon	kg CO <sub>2</sub> /mmBtu
Distillate Fuel Oil No. 1	0.139	73.25
Distillate Fuel Oil No. 2	0.138	73.96

Distillate Fuel Oil No. 4	0.146	75.04
Residual Fuel Oil No. 5	0.140	72.93
Residual Fuel Oil No. 6	0.150	75.10
Used Oil	0.135	74.00
Kerosene	0.135	75.20
Liquefied petroleum gases (LPG)	0.092	62.98
Propane	0.091	61.46
Propylene	0.091	65.95
Ethane	0.069	62.64
Ethanol	0.084	68.44
Ethylene	0.100	67.43
Isobutane	0.097	64.91
Isobutylene	0.103	67.74
Butane	0.101	65.15
Butylene	0.103	67.73
Naphtha (<401 deg F)	0.125	68.02
Natural Gasoline	0.110	66.83
Other Oil (>401 deg F)	0.139	76.22
Pentanes Plus	0.110	70.02
Petrochemical Feedstocks	0.129	70.97
Petroleum Coke	0.143	102.41
Special Naphtha	0.125	72.34
Unfinished Oils	0.139	74.49
Heavy Gas Oils	0.148	74.92
Lubricants	0.144	74.27
Motor Gasoline	0.125	70.22
Aviation Gasoline	0.120	69.25
Kerosene-Type Jet Fuel	0.135	72.22
Asphalt and Road Oil	0.158	75.36
Crude Oil	0.138	74.49
Other fuels-solid.	mmBtu/short ton	kg CO <sub>2</sub> /mmBtu
Municipal Solid Waste	9.95 1	90.7
Tires	26.87	85.97
Plastics	38.00	75.00
Petroleum Coke	30.00	102.41
Other fuels (gaseous)	mmBtu/scf	kg CO <sub>2</sub> /mmBtu
Blast Furnace Gas	0.092 x 10 <sup>-3</sup>	274.32
Coke Oven Gas	0.599 x 10 <sup>-3</sup>	46.85
Propane Gas	2.516 x 10 <sup>-3</sup>	61.46
Fuel Gas 2	1.388 x 10 <sup>-3</sup>	59.00
Biomass fuels—solid	mmBtu/short ton	kg CO <sub>2</sub> /mmBtu
Wood and Wood Residuals	15.38	93.80
Agricultural Byproducts	8.25	118.17
Peat	8.00	111.84
Solid Byproducts	25.83	105.51
Biomass fuels—gaseous	mmBtu/scf	kg CO <sub>2</sub> /mmBtu
Biogas (Captured methane)	0.841 x 10 <sup>-3</sup>	52.07
Biomass Fuels—Liquid	mmBtu/gallon	kg CO <sub>2</sub> /mmBtu
Ethanol	0.084	68.44
Biodiesel	0.128	73.84

Rendered Animal Fat	0.125	71.06
Vegetable Oil	0.120	81.55

<sup>1</sup> Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.

<sup>2</sup> Reporters subject to subpart X of this part that are complying with § 98.243(d) or subpart Y of this part may only use the default HHV and the default CO<sub>2</sub> emission factor for fuel gas combustion under the conditions prescribed in § 98.243(d)(2)(i) and (d)(2)(ii) and § 98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C-5) or Tier 4.

## Table C-2 to Subpart C of Part 98 —Default CH<sub>4</sub> and N<sub>2</sub>O Emission Factors for Various Types of Fuel

### Default CH<sub>4</sub> and N<sub>2</sub>O Emission Factors for Various Types of Fuel

Fuel type	Default CH <sub>4</sub> emission factor (kg CH <sub>4</sub> /mmBtu)	Default N <sub>2</sub> O emission factor (kg N <sub>2</sub> O/mmBtu)
Coal and Coke (All fuel types in Table C-1)	1.1 x 10 <sup>-02</sup>	1.6 x 10 <sup>-03</sup>
Natural Gas	1.0 x 10 <sup>-03</sup>	1.0 x 10 <sup>-04</sup>
Petroleum (All fuel types in Table C-1)	3.0 x 10 <sup>-03</sup>	6.0 x 10 <sup>-04</sup>
Municipal Solid Waste	3.2 x 10 <sup>-02</sup>	4.2 x 10 <sup>-03</sup>
Tires	3.2 x 10 <sup>-02</sup>	4.2 x 10 <sup>-03</sup>
Blast Furnace Gas	2.2 x 10 <sup>-05</sup>	1.0 x 10 <sup>-04</sup>
Coke Oven Gas	4.8 x 10 <sup>-04</sup>	1.0 x 10 <sup>-04</sup>
Biomass Fuels—Solid (All fuel types in Table C-1)	3.2 x 10 <sup>-02</sup>	4.2 x 10 <sup>-03</sup>
Biogas	3.2 x 10 <sup>-03</sup>	6.3 x 10 <sup>-04</sup>
Biomass Fuels—Liquid (All fuel types in Table C-1)	1.1 x 10 <sup>-03</sup>	1.1 x 10 <sup>-04</sup>

**Note:** Those employing this table are assumed to fall under the IPCC definitions of the “Energy Industry” or “Manufacturing Industries and Construction”. In all fuels except for coal the values for these two categories are identical. For coal combustion, those who fall within the IPCC “Energy Industry” category may employ a value of 1g of CH<sub>4</sub>/mmBtu.

[75 FR page 79154, Dec. 17, 2010]

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**GRI-HAPCalc® 3.01**  
**Fugitive Emissions Report**

<b>Facility ID:</b>	EPNG LINCOLN	<b>Notes:</b>
<b>Operation Type:</b>	COMPRESSOR STATION	
<b>Facility Name:</b>	LINCOLN COMPRESSOR STATION	
<b>User Name:</b>		
<b>Units of Measure:</b>	U.S. STANDARD	

*Note: Emissions less than 5.00E-09 tons (or tonnes) per year are considered insignificant and are treated as zero. These emissions are indicated on the report with a "0". Emissions between 5.00E-09 and 5.00E-05 tons (or tonnes) per year are represented on the report with "0.0000".*

**Fugitive Emissions**

**Calculation Method:** EPA Average Factors

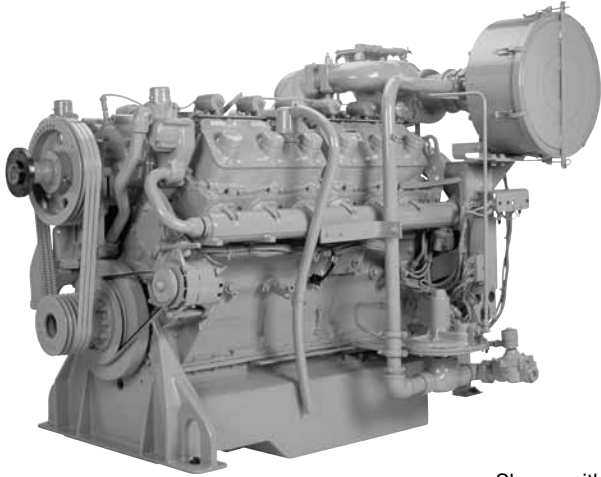
**User Inputs**

<u>Component</u>	<u>Gas Service</u>	<u>Light Liquid Service</u>	<u>Heavy Liquid Service</u>
Connections:	737	0	0
Flanges	120	0	0
Open-Ended Lines:	14	0	0
Pumps:	0	0	0
Valves:	257	0	0
Others:	30	0	0

**Calculated Emissions** (ton/yr)

<u>Chemical Name</u>	<u>Emissions</u>
<b><u>HAPs</u></b>	
Benzene	0.0037
Toluene	0.0062
Ethylbenzene	0.0003
Xylenes(m,p,o)	0.0016
<b>Total</b>	0.0118
<b><u>Criteria Pollutants</u></b>	
NMHC	1.2712
NMEHC	0.5561





Shown with  
Optional Equipment

### CAT® ENGINE SPECIFICATIONS

#### V-12, 4-Stroke-Cycle

Bore .....	137 mm (5.4 in.)
Stroke .....	152 mm (6 in.)
Displacement .....	27 L (1649 cu. in.)
Aspiration .....	Turbocharged for ATAAC
Governor and Protection .....	Woodward PSG
Combustion .....	Rich Burn
Engine Weight, net dry (approx) .....	2141 kg (4720 lb)
Power Density .....	4.79 kg/kW (7.86 lb/bhp)
Power per Displacement .....	22.20 bhp/L
Engine Only Cooling System Capacity ...	75.7 L (20 gal)
Lube Oil System (refill) .....	170.3 L (45 gal)
Oil Change Interval .....	750 hours
Rotation (from flywheel end) .....	Counterclockwise
Flywheel and Flywheel Housing .....	SAE No. 0
Flywheel Teeth .....	136

### FEATURES

#### Engine Design

- Improved reliability and durability
- Ability to burn a wide spectrum of gaseous fuels
- Robust diesel strength design prolongs life and lowers owning and operating costs
- Broad operating speed range

#### Full Range of Attachments

Large variety of factory-installed engine attachments reduces packaging time

#### Testing

Every engine is full-load tested to ensure proper engine performance.

#### Gas Engine Rating Pro

GERP is a PC-based program designed to provide site performance capabilities for Cat® natural gas engines for the gas compression industry. GERP provides engine data for your site's altitude, ambient temperature, fuel, engine coolant heat rejection, performance data, installation drawings, spec sheets, and pump curves.

#### Product Support Offered Through Global Cat Dealer Network

More than 2,200 dealer outlets

Cat factory-trained dealer technicians service every aspect of your petroleum engine

Cat parts and labor warranty

Preventive maintenance agreements available for repair-before-failure options

S•O•S<sup>SM</sup> program matches your oil and coolant samples against Caterpillar set standards to determine:

- Internal engine component condition
- Presence of unwanted fluids
- Presence of combustion by-products
- Site-specific oil change interval

#### Over 80 Years of Engine Manufacturing Experience

Over 60 years of natural gas engine production

Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable products.

- Casts engine blocks, heads, cylinder liners, and flywheel housings
- Machines critical components
- Assembles complete engine

#### Web Site

For all your petroleum power requirements, visit [www.catoilandgas.cat.com](http://www.catoilandgas.cat.com).

**STANDARD EQUIPMENT**

---

**Air Inlet System**

Air cleaner — single element with service indicator

**Control System**Governor — Woodward PSG mechanical  
Governor control — positive locking**Cooling System**Thermostats and housing  
Jacket water pump  
Aftercooler water pump  
Aftercooler core**Exhaust System**Watercooled exhaust manifolds  
Dry exhaust elbow**Flywheel & Flywheel Housing**SAE No. 0 flywheel  
SAE No. 0 flywheel housing  
SAE standard rotation**Fuel System**Gas pressure regulator  
Natural gas carburetor**Ignition System**

Digital ignition system

**Instrumentation**

Service meter

**Lube System**Crankcase breather — top mounted  
Oil cooler  
Oil filter — RH  
Auxiliary oil reservoir  
Rear sump oil pan  
Oil filler in valve cover and dipstick — RH**Mounting System**

Engine supports

**Protection System**

Shutoff

**General**Paint — Cat yellow  
Crankshaft vibration damper and drive pulleys  
Lifting eyes**OPTIONAL EQUIPMENT**

---

**Air Inlet System**Air cleaner  
Air inlet adapter  
Precleaner  
Air cleaner rain cap**Charging System**Battery chargers  
Charging alternators  
Ammeter gauge  
Ammeter gauge and wiring  
Control mounting**Control System**EG3P/2301A speed control governor  
PSG electric governor  
PSG pneumatic governor**Cooling System**Radiators  
Blower fan and fan drives for customer supplied radiators  
ATAAC conversion  
Aftercooler  
Expansion tank  
Heat exchanger**Exhaust System**Flexible fittings  
Elbows  
Flanges  
Rain caps  
Mufflers**Fuel System**Dual gas regulator  
Low energy fuel carburetor  
Low pressure gas conversion  
Propane and natural gas valve and jet kits  
Fuel filter**Ignition System**CSA ignition  
Ignition ground wiring harness  
Power supply — digital ignition system**Instrumentation**Alarm module  
Gauges and instrument panels**Lube System**Auxiliary oil reservoir removal  
Lubricating oil**Mounting System**

Vibration isolators

**Power Take-Offs**Auxiliary drive pulleys  
Enclosed clutch  
Clutch support  
Front stub shaft  
Flywheel stub shaft  
Pulley removal**Protection System**Gas valves  
Status control box interconnect wiring harness**Starting System**Air starting motor  
Electric air start control  
Air pressure regulator  
Air silencer  
Electric starting motors — single 24-volt  
Starting aids  
Battery sets (24-volt dry), cables, and rack**General**Tool set  
Digital diagnostic tool

**TECHNICAL DATA**
**G3412 Gas Petroleum Engine — 1500 & 1800 rpm**

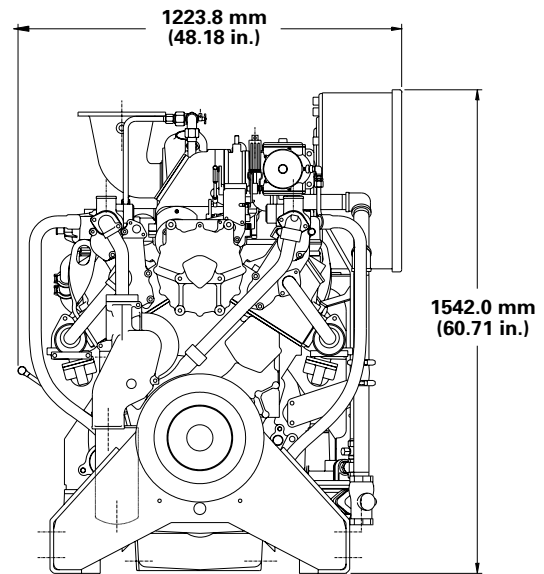
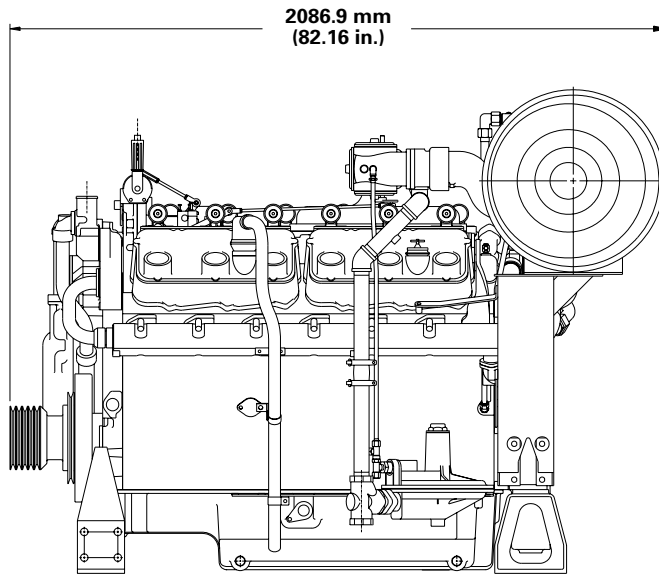
		<b>DM8646-00</b>	<b>DM5206-04</b>	<b>DM5101-01</b>
<b>Engine Power</b>				
@ 100% Load	bkW (bhp)	373 (500)	447 (600)	272 (365)
@ 75% Load	bkW (bhp)	280 (375)	336 (450)	204 (274)
<b>Engine Speed</b>				
	rpm	<b>1500</b>	<b>1800</b>	<b>1800</b>
Max Altitude @ Rated Torque and 38°C (100°F)	m (ft)	304.8 (1000)	609.6 (2000)	0
Speed Turndown @ Max Altitude, Rated Torque, and 38°C (100°F)	%	13.5	22	0
<b>SCAC Temperature</b>				
	°C (°F)	54 (130)	54 (130)	N/A
<b>Emissions*</b>				
NOx	g/bkW-hr (g/bhp-hr)	19.07 (14.22)	31.2 (23.27)	17.9 (13.35)
CO	g/bkW-hr (g/bhp-hr)	19.04 (14.2)	2.14 (1.6)	17.9 (13.35)
CO <sub>2</sub>	g/bkW-hr (g/bhp-hr)	609 (454)	635 (437)	—
VOC**	g/bkW-hr (g/bhp-hr)	0.35 (0.26)	0.15 (0.11)	—
<b>Fuel Consumption***</b>				
@ 100% Load	MJ/bkW-hr (Btu/bhp-hr)	11.04 (7800)	10.2 (7210)	11.10 (7847)
@ 75% Load	MJ/bkW-hr (Btu/bhp-hr)	11.27 (7964)	11.05 (7813)	12.15 (8589)
<b>Heat Balance</b>				
Heat Rejection to Jacket Water				
@ 100% Load	bkW (Btu/min)	399.05 (22,714)	393 (22,333)	270.6 (15,390)
@ 75% Load	bkW (Btu/min)	319.7 (18,197)	368 (20,935)	245.3 (13,946)
Heat Rejection to Aftercooler				
@ 100% Load	bkW (Btu/min)	7.92 (451)	41.2 (2343)	N/A
@ 75% Load	bkW (Btu/min)	3.04 (173)	208 (1639)	N/A
Heat Rejection to Exhaust				
@ 100% Load	bkW (Btu/min)	254.01 (14,458)	285 (16,234)	219.9 (12,506)
@ 75% Load	bkW (Btu/min)	187.09 (10,649)	208 (11,835)	173.1 (9,843)
<b>Exhaust System</b>				
Exhaust Gas Flow Rate				
@ 100% Load	m <sup>3</sup> /min (cfm)	59.55 (2103)	69.97 (2471)	49.16 (1736)
@ 75% Load	m <sup>3</sup> /min (cfm)	44.77 (1581)	51.71 (1826)	39.4 (1391)
Exhaust Stack Temperature				
@ 100% Load	°C (°F)	523.33 (974)	510 (950)	622.2 (1152)
@ 75% Load	°C (°F)	496.11 (925)	480 (896)	598.3 (1109)
<b>Intake System</b>				
Air Inlet Flow Rate				
@ 100% Load	m <sup>3</sup> /min (scfm)	19.85 (701)	23.87 (843)	14.6 (515)
@ 75% Load	m <sup>3</sup> /min (scfm)	15.46 (546)	18.24 (644)	12.01 (424)
<b>Gas Pressure</b>				
	kPag (psig)	137.9-172.4 (20-25)	137.9-172.4 (20-25)	10-35 (1.5-5)

\*at 100% load and speed, all values are listed as not to exceed

\*\*Volatile organic compounds as defined in U.S. EPA 40 CFR 60, subpart JJJJ

\*\*\*ISO 3046/1

### GAS PETROLEUM ENGINE



#### PACKAGE DIMENSIONS

Length	mm (in.)	2086.9 (82.16)
Width	mm (in.)	1223.8 (48.18)
Height	mm (in.)	1542.0 (60.71)
Shipping Weight	kg (lb)	2141 (4720)

**Note:** General configuration not to be used for installation. See general dimension drawings for detail.

### RATING DEFINITIONS AND CONDITIONS

Engine performance is obtained in accordance with SAE J1995, ISO3046/1, BS5514/1, and DIN6271/1 standards.

Transient response data is acquired from an engine/generator combination at normal operating temperature and in accordance with ISO3046/1 standard ambient conditions. Also in accordance with SAE J1995, BS5514/1, and DIN6271/1 standard reference conditions.

**Conditions:** Power for gas engines is based on fuel having an LHV of 33.74 kJ/L (905 Btu/cu ft) at 101 kPa (29.91 in. Hg) and 15° C (59° F). Fuel rate is based on a cubic meter at 100 kPa (29.61 in. Hg) and 15.6° C (60.1° F). Air flow is based on a cubic foot at 100 kPa (29.61 in. Hg) and 25° C (77° F). Exhaust flow is based on a cubic foot at 100 kPa (29.61 in. Hg) and stack temperature.

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, S•O•S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

**INDUSTRIAL ENGINE PERFORMANCE DATA**  
**[TM8988]**

**MARCH 18, 2019**

For Help Desk Phone Numbers [Click here](#)  
[Help](#)

Performance Number: TM8988

Change Level:

Sales Model: 3412 SITA	Combustion: SI	Aspr: TA
Engine Power: 400 HP	Speed: 1,200 RPM	After Cooler: SCAC
Manifold Type: WET	Governor Type: WOOD-	After Cooler Temp(F): 129
Turbo Quantity:	Engine App: IN	Turbo Arrangement:
Application Type: IND-CONT	Engine Rating: IN	Strategy:
Rating Type: CONTINUOUS	Certification:	
Fuel: PIPELINE	Fuel Press (PSI): 20.0	NOx Level: STD 2% 02
IGN:	JW Temp (F): 210	ELEK A/F CONT:
Cam Type:	Piston:	
CARB:	C/R: 9.7:1	

**General Performance Data**

ENGINE SPEED RPM	ENGINE POWER BHP	ENGINE TORQUE LB.FT	ENGINE BMEP PSI	FUEL BSFC BTU-BHP/HR	FUEL RATE CFH	INTAKE MFLD TEMP DEG F	INTAKE MFLD P IN-HG	INTAKE AIR FLOW CFM	EXH MFLD TEMP DEG F	EXH STACK TEMP DEG F	EXH GAS FLOW CFM
1,200	400	1,748.75	159.83	7,343.52	3,238.36	142.7	9.61	603.88	1,073.12	886.46	1,546.78
1,200	360	1,573.95	143.88	7,499.01	2,977.03	143.6	6.81	554.44	1,056.74	871.7	1,409.06
1,200	320	1,399.15	127.93	7,626.23	2,690.98	143.96	4.69	508.53	1,022.18	841.64	1,260.73
1,200	300	1,312.12	119.95	7,718.11	2,553.25	144.5	3.72	487.34	1,004.9	825.8	1,190.11
1,200	280	1,224.35	111.97	7,824.13	2,415.53	145.22	2.75	462.62	987.8	809.42	1,123.01
1,200	240	1,049.55	95.87	8,078.58	2,140.07	146.66	0.39	416.71	951.44	773.96	981.75
1,200	200	874.75	79.92	8,446.1	1,861.08	148.28	-2.41	367.27	912.74	735.08	836.96

**Engine Heat Rejection Data**

ENGINE SPEED RPM	ENGINE POWER BHP	REJ TO JW BTU/MN	REJ TO ATMOS BTU/MN	REJ TO EXHAUST BTU/MN	EXH RCOV BTU/MN	FROM OIL CLR BTU/MN	FROM AFT CLR BTU/MN	WORK ENERGY BTU/MN	LHV ENERGY BTU/MN	HHV ENERGY BTU/MN
1,200	400	18,710.2	3,412.2	15,070.5	6,653.78	2,729.8	227.5	16,947.2	48,908.1	54,367.6
1,200	360	17,800.3	3,127.8	13,705.6	5,971.34	2,502.3	113.7	15,241.1	44,984.1	49,988.6
1,200	320	16,833.5	2,445.4	12,283.9	5,118.29	2,274.8	56.9	13,535.0	40,605.1	45,154.7
1,200	300	16,321.7	2,161.1	11,544.6	4,720.2	2,161.1	56.9	12,738.8	38,557.8	42,823.0

**EXHAUST Sound Data: 4.92 FEET**

ENGINE SPEED RPM	ENGINE POWER BHP	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
1,200	400	104	100	98	102	103	98	95	92	84

**EXHAUST Sound Data: 22.97 FEET**

ENGINE SPEED RPM	ENGINE POWER BHP	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
1,200	400	91	89	86	88	88	85	82	83	75

**EMISSIONS DATA****Certification:**

EMISSIONS DATA MEASUREMENT IS CONSISTENT WITH THOSE DESCRIBED IN EPA CFR 40 PART 89 SUBPART D & E AND ISO 8178-1 FOR MEASURING HC, CO, CO2 AND NOX. THESE PROCEDURES ARE VERY SIMILAR TO THE METHODS DESCRIBED IN EPA CFR 40 PART 60 APPENDIX A METHOD 25A FOR HYDROCARBONS, METHOD 10 FOR CO, METHOD 7E FOR NOX. DATA SHOWN IS BASED ON STEADY STATE ENGINE OPERATING CONDITIONS OF 77 DEG F, 28.43 INCHES HG AND FUEL HAVING A LHV OF 911 BTU PER CUBIC FOOT AT 30.00 INCHES HG ABSOLUTE AND 32 DEG F. FUEL RATE IS BASED ON A STANDARD CUBIC FOOT AT 30.00 INCHES HG ABSOLUTE AND 32 DEG F.

To properly apply this data you must refer to performance parameter DM1176 for additional information...

REFERENCE EXHAUST STACK DIAMETER	--
WET EXHAUST MASS	2,685.2 LB/HR
WET EXHAUST FLOW (885.20 F STACK TEMP )	1,547.49 CFM
WET EXHAUST FLOW RATE ( 32 DEG F AND 29.98 IN HG )	617.00 STD CFM
DRY EXHAUST FLOW RATE ( 32 DEG F AND 29.98 IN HG )	--
FUEL FLOW RATE	56 CFM

RATED SPEED "Potential site variation"						
ENGINE SPEED RPM	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	OXYGEN IN EXHAUST PERCENT
1,200	100	400	15.7700	6.6900	2.5200	1.7300
1,200	75	300	12.3400	.5300	1.4800	2.0800
1,200	50	200	5.1200	.5100	1.1200	2.8000

Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN  
 ENGINES<sup>a</sup>  
 (SCC 2-02-002-53)

Pollutant	Emission Factor (lb/MMBtu) <sup>b</sup> (fuel input)	Emission Factor Rating
Criteria Pollutants and Greenhouse Gases		
NO <sub>x</sub> <sup>c</sup> 90 - 105% Load	2.21 E+00	A
NO <sub>x</sub> <sup>c</sup> <90% Load	2.27 E+00	C
CO <sup>c</sup> 90 - 105% Load	3.72 E+00	A
CO <sup>c</sup> <90% Load	3.51 E+00	C
CO <sub>2</sub> <sup>d</sup>	1.10 E+02	A
SO <sub>2</sub> <sup>e</sup>	5.88 E-04	A
TOC <sup>f</sup>	3.58 E-01	C
Methane <sup>g</sup>	2.30 E-01	C
VOC <sup>h</sup>	2.96 E-02	C
PM10 (filterable) <sup>i,j</sup>	9.50 E-03	E
PM2.5 (filterable) <sup>j</sup>	9.50 E-03	E
PM Condensable <sup>k</sup>	9.91 E-03	E
Trace Organic Compounds		
1,1,2,2-Tetrachloroethane <sup>l</sup>	2.53 E-05	C
1,1,2-Trichloroethane <sup>l</sup>	<1.53 E-05	E
1,1-Dichloroethane	<1.13 E-05	E
1,2-Dichloroethane	<1.13 E-05	E
1,2-Dichloropropane	<1.30 E-05	E
1,3-Butadiene <sup>l</sup>	6.63 E-04	D
1,3-Dichloropropene <sup>l</sup>	<1.27 E-05	E
Acetaldehyde <sup>l,m</sup>	2.79 E-03	C
Acrolein <sup>l,m</sup>	2.63 E-03	C
Benzene <sup>l</sup>	1.58 E-03	B
Butyr/isobutyraldehyde	4.86 E-05	D
Carbon Tetrachloride <sup>l</sup>	<1.77 E-05	E



Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN ENGINES  
(Concluded)

Pollutant	Emission Factor (lb/MMBtu) <sup>b</sup> (fuel input)	Emission Factor Rating
Chlorobenzene <sup>1</sup>	<1.29 E-05	E
Chloroform <sup>1</sup>	<1.37 E-05	E
Ethane <sup>n</sup>	7.04 E-02	C
Ethylbenzene <sup>1</sup>	<2.48 E-05	E
Ethylene Dibromide <sup>1</sup>	<2.13 E-05	E
Formaldehyde <sup>1,m</sup>	2.05 E-02	A
Methanol <sup>1</sup>	3.06 E-03	D
Methylene Chloride <sup>1</sup>	4.12 E-05	C
Naphthalene <sup>1</sup>	<9.71 E-05	E
PAH <sup>1</sup>	1.41 E-04	D
Styrene <sup>1</sup>	<1.19 E-05	E
Toluene <sup>1</sup>	5.58 E-04	A
Vinyl Chloride <sup>1</sup>	<7.18 E-06	E
Xylene <sup>1</sup>	1.95 E-04	A

<sup>a</sup> Reference 7. Factors represent uncontrolled levels. For NO<sub>x</sub>, CO, and PM-10, “uncontrolled” means no combustion or add-on controls; however, the factor may include turbocharged units. For all other pollutants, “uncontrolled” means no oxidation control; the data set may include units with control techniques used for NO<sub>x</sub> control, such as PCC and SCR for lean burn engines, and PSC for rich burn engines. Factors are based on large population of engines. Factors are for engines at all loads, except as indicated. SCC = Source Classification Code. TOC = Total Organic Compounds. PM10 = Particulate Matter ≤ 10 microns (μm) aerodynamic diameter. A “<” sign in front of a factor means that the corresponding emission factor is based on one-half of the method detection limit.

<sup>b</sup> Emission factors were calculated in units of (lb/MMBtu) based on procedures in EPA Method 19. To convert from (lb/MMBtu) to (lb/10<sup>6</sup> scf), multiply by the heat content of the fuel. If the heat content is not available, use 1020 Btu/scf. To convert from (lb/MMBtu) to (lb/hp-hr) use the following equation:

$$\text{lb/hp-hr} = (\text{lb/MMBtu}) (\text{heat input, MMBtu/hr}) (1/\text{operating HP, 1/hp})$$

<sup>c</sup> Emission tests with unreported load conditions were not included in the data set.

<sup>d</sup> Based on 99.5% conversion of the fuel carbon to CO<sub>2</sub>. CO<sub>2</sub> [lb/MMBtu] = (3.67)(%CON)(C)(D)(1/h), where %CON = percent conversion of fuel carbon to CO<sub>2</sub>,

### Emission Summary

Fuel Analysis

Component	MW	Mol%	MW * Mol %	Wt %	
Nitrogen	28.01	2.74%	0.767	4.51%	
Oxygen	31.99	0.00%	0	0.00%	
CO <sub>2</sub>	44.01	0.10%	0.042	0.25%	
Methane	16.04	93.04%	14.926	87.78%	
Ethane	30.07	3.95%	1.188	6.99%	
Propane	44.1	0.15%	0.068	0.40%	
I-Butane	58.12	0.01%	0.003	0.02%	
N-Butane	58.12	0.01%	0.006	0.03%	
I-Pentane	72.15	0.00%	0.001	0.01%	
N-Pentane	72.15	0.00%	0.002	0.01%	
Hexanes +	86.18	0.00%	0.001	0.01%	
Total		100.00%	17	100%	
VOC weight %:	0.48%		S %propane through %hexanes		
Gas molecular weight:	17	lb/lb-mol	S MW * mol%		
Gas molar volume:	378.61	scf/lb-mol	Constant		
Gas density:	0.0449	lb/scf	Gas MW / Molar volume		

Time of Analysis: 08:00:00 CST

Date of Analysis: 01/01/2019

This is an hour average

**H2S Readings @ Plains**

**PIN**

314405

**DATA SRCE**

Online Analyzer

**H2S (Gr)**

0.0047

**PT NAME**

EPNG/EPNG SUCTION FROM SAN JUAN TO

**RDG DATE HOUR**

1/1/2019 8:00

# Section 8

## Map(s)

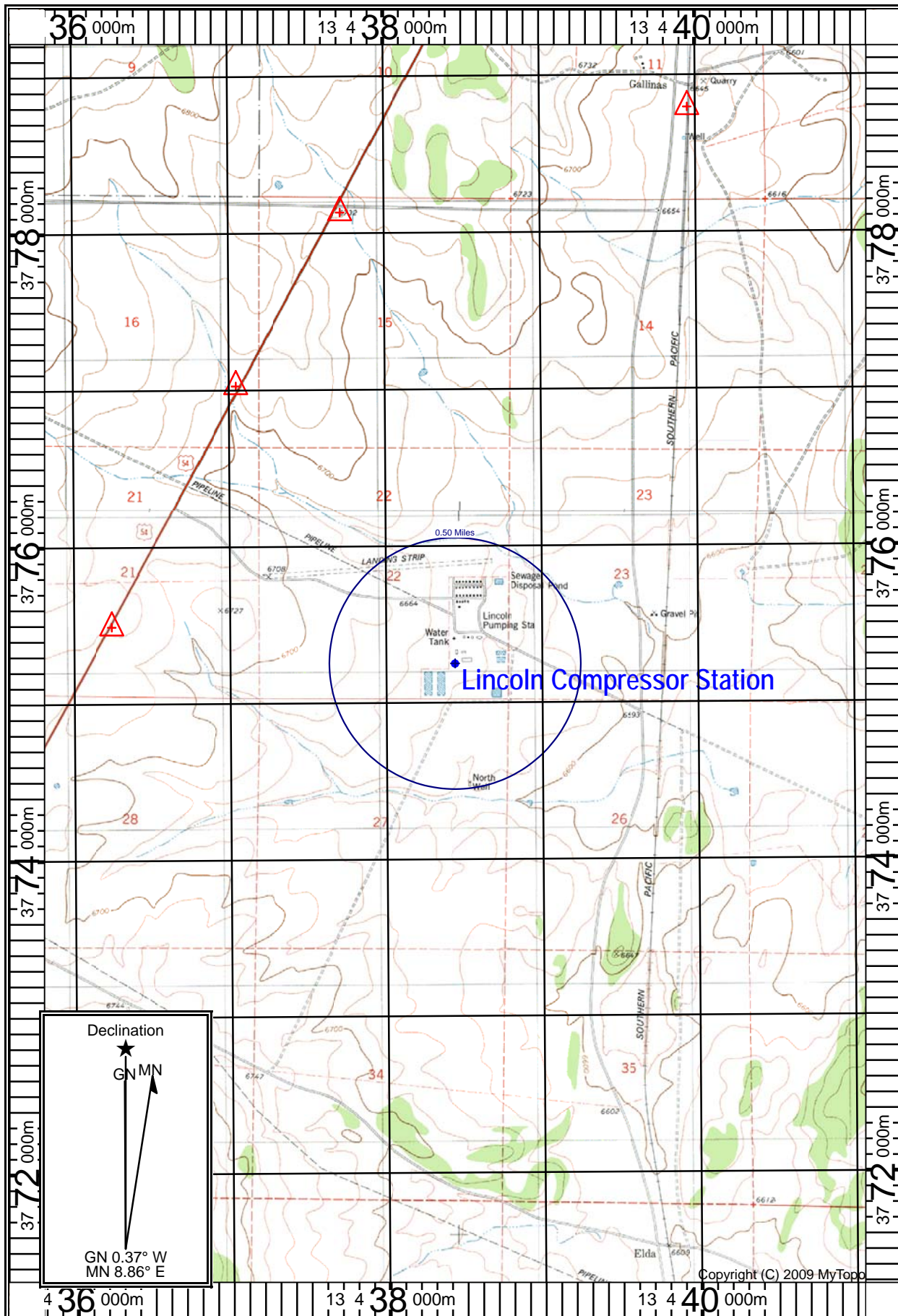
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A map such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

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 map is included on the following page.



Map Name: TECOLOTE PEAK      Scale: 1 inch = 2,916 ft.      Horizontal Datum: WGS84  
 Print Date: 11/13/17      Map Center: 13 0438439 E 37752

# Section 10

## Written Description of the Routine Operations of the Facility

---

**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.

---

Lincoln Compressor Station is a natural gas compressor station that compresses natural gas and delivers the compressed gas to a pipeline for mainline transportation. This facility consists primarily of one General Electric Company 3142J regenerative cycle turbine powering the facility's compressor. The facility is designed to compress and transport pipeline-quality natural gas. An auxiliary generator engine (AUX-B1) is maintained at the facility to provide electric power in the event that service from the local utility is interrupted. Operation of the auxiliary generator is limited to 500 hours per calendar year.



# 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):

Please see Table 2-A in Section 2 of this application.

### 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)

---

**A PSD applicability determination for all sources.** For sources applying for a significant permit revision, apply the applicable requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major or minor PSD source, and whether this modification is a major or a minor PSD modification. It may be helpful to refer to the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

A. This facility is:

- a minor PSD source before and after this modification (if so, delete C and D below).
- a major PSD source before this modification. This modification will make this a PSD minor source.
- an existing PSD Major Source that has never had a major modification requiring a BACT analysis.
- an existing PSD Major Source that has had a major modification requiring a BACT analysis
- a new PSD Major Source after this modification.

B. This facility **[is or is not]** one of the listed 20.2.74.501 Table I – PSD Source Categories. The “project” emissions for this modification are **[significant or not significant]**. **[Discuss why.]** The “project” emissions listed below **[do or do not]** only result from changes described in this permit application, thus no emissions from other **[revisions or modifications, past or future]** to this facility. Also, specifically discuss whether this project results in “de-bottlenecking”, or other associated emissions resulting in higher emissions. The project emissions (before netting) for this project are as follows [see Table 2 in 20.2.74.502 NMAC for a complete list of significance levels]:

- a. NOx: **XX.X** TPY
- b. CO: **XX.X** TPY
- c. VOC: **XX.X** TPY
- d. SOx: **XX.X** TPY
- e. TSP (PM): **XX.X** TPY
- f. PM10: **XX.X** TPY
- g. PM2.5: **XX.X** TPY
- h. Fluorides: **XX.X** TPY
- i. Lead: **XX.X** TPY
- j. Sulfur compounds (listed in Table 2): **XX.X** TPY
- k. GHG: **XX.X** TPY

C. Netting **[is required, and analysis is attached to this document.] OR [is not required (project is not significant)] OR [Applicant is submitting a PSD Major Modification and chooses not to net.]**

D. BACT is **[not required for this modification, as this application is a minor modification.] OR [required, as this application is a major modification. List pollutants subject to BACT review and provide a full top down BACT determination.]**

E. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered.

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N/A – This application is being submitted under 20.2.70 NMAC



# Section 13

## Determination of State & Federal Air Quality Regulations

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**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/>

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**Table of Applicable STATE REGULATIONS:**

<u>STATE REGULATIONS CITATION</u>	<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	20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of Total Suspended Particulates, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. This facility meets maximum allowable concentrations of TSP, SO <sub>2</sub> , H <sub>2</sub> S, CO, and NO <sub>x</sub> under this regulation.
20.2.7 NMAC	Excess Emissions	Yes	Facility	This regulation establishes requirements for the facility if operations at the facility result in any excess emissions. The owner or operator will operate the source at the facility having an excess emission, to the extent practicable, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions. The facility will also notify the NMED of any excess emission per 20.2.7.110 NMAC. All Title V major sources are subject to Air Quality Control Regulations, as defined in 20.2.7 NMAC, and are thus subject to the requirements of this regulation.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	Lincoln Compressor Station does not have any existing gas burning equipment with a heat input of greater than 1,000,000 MMBtu/yr. 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.
20.2.34 NMAC	Oil Burning Equipment: NO <sub>2</sub>	No	N/A	This facility does not have any oil burning equipment with a heat input of greater than 1,000,000 MMBtu/yr. 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	No	N/A	This regulation establishes sulfur emission standards for natural gas processing plants. This facility does not meet the definition of a “natural gas processing plant”, as defined in 20.2.35.7 NMAC.
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>
<u>20.2.38</u> NMAC	Hydrocarbon Storage Facility	No	N/A	This facility is not a tank battery operating in conjunction with a petroleum production or processing facility, as defined in 20.2.38.7 NMAC.
<u>20.2.39</u> NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	This regulation establishes sulfur emission standards for sulfur recovery plants which are not part of petroleum or natural gas processing facilities. This regulation does not apply to the facility because Lincoln Compressor Station does not have a sulfur recovery plant.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	B-01 AUX-B1	This regulation establishes controls on smoke and visible emissions from certain sources, including stationary combustion equipment. Unit B-01 and Unit AUX-B1 are stationary combustion equipment that will comply with this regulation.
20.2.70 NMAC	Operating Permits	Yes	Facility	This regulation establishes requirements for obtaining an operating permit. Lincoln Compressor Station is a Title V major source and is, therefore, subject to this regulation.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	This regulation establishes 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	This regulation establishes the requirements for obtaining a construction permit. This facility is subject to 20.2.72 NMAC and has been issued NSR permit 691-M4.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	This regulation establishes emission inventory requirements. The facility meets the applicability requirements of 20.2.73.300 NMAC. The facility will meet all applicable reporting requirements under 20.2.73.300.B.1 NMAC.

<u>STATE REGULATIONS CITATION</u>	<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>
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	Yes	Facility	This regulation establishes requirements for obtaining a prevention of significant deterioration permit. Lincoln Compressor Station is an existing PSD major source. The facility has not undergone a major modification and does not currently require a PSD permit.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	The facility is subject to 20.2.71 NMAC (Operating Permit Emission Fees) and, therefore, is not subject to the annual fee requirements of this regulation, per 20.2.75.11.E. However, the facility is subject to the NSR review fees associated with this application.
20.2.77 NMAC	New Source Performance	No	N/A	This regulation establishes state authority to implement new source performance standards (NSPS) for stationary sources. Lincoln Compressor Station does not have any units subject to a New Source Performance Standard (NSPS). Accordingly, this regulation does not apply.
20.2.78 NMAC	Emission Standards for HAPS	No	N/A	This regulation establishes state authority to implement emission standards for hazardous air pollutants subject to 40 CFR Part 61. This facility does not emit hazardous air pollutants which are subject to the requirements of 40 CFR Part 61 and is therefore not subject to this regulation.
20.2.79 NMAC	Permits – Nonattainment Areas	No	N/A	This regulation establishes the requirements for obtaining a nonattainment area permit. This facility is not located in a nonattainment area and therefore is not subject to this regulation.
20.2.80 NMAC	Stack Heights	No	N/A	This regulation establishes requirements for the evaluation of stack heights and other dispersion techniques. This regulation does not apply as all stacks at the facility will follow good engineering practices.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	AUX-B1	The facility is an area source of HAPs and this regulation applies because unit AUX-B1 is subject to 40 CFR 63, Subpart A and Subpart ZZZZ

**Table of Applicable FEDERAL REGULATIONS:**

<u>FEDERAL REGULATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
40 CFR 50	NAAQS	Yes	Facility	This regulation defines national ambient air quality standards. Lincoln Compressor Station meets all applicable national ambient air quality standards for PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , H <sub>2</sub> S, CO, and NO <sub>x</sub> under this regulation.
NSPS 40 CFR 60, Subpart A	General Provisions	No	N/A	This regulation defines general provisions for relevant standards that have been set under this part. The facility is not subject to this regulation because no NSPS subparts 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 of performance for electric utility steam generating units. This regulation does not apply because this facility does not operate any electric utility steam generating units.
NSPS 40 CFR60.40b Subpart Db	<b>Electric Utility Steam Generating Units</b>	No	N/A	This regulation establishes standards of performance for industrial-commercial-institutional steam generating units. This regulation does not apply because this facility does not operate any industrial-commercial-institutional steam generating units.

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	No	N/A	This regulation establishes standards of performance for industrial-commercial-institutional steam generating units. This regulation does not apply because this facility does not operate any industrial-commercial-institutional steam generating units.
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	This regulation establishes performance standards for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984. The capacities of the tanks at the facility are less than 40,000 gallons and are not subject to this regulation. [40 CFR Part 60.110a(a)]
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	This facility does not have any tanks with a storage capacity equal to or greater than 75 cubic meters used to store volatile organic liquids (VOL) for which construction, reconstruction or modification commenced after July 23, 1984.
NSPS 40 CFR 60.330 Subpart GG	<b>Stationary Gas Turbines</b>	No	N/A	The General Electric regenerative cycle turbine at Lincoln Compressor Station was constructed prior to October 3, 1977. The turbine has not been modified or reconstructed since October 3, 1977. Accordingly, this unit is not subject to this subpart.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from <b>Onshore Gas Plants</b>	No	N/A	This regulation defines standards of performance for equipment leaks of VOC emissions from onshore natural gas processing plants for which construction, reconstruction, or modification commenced after January 20, 1984, and on or before August 23, 2011. This regulation does not apply as the facility is not a gas processing facility.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for <b>Onshore Natural Gas Processing: SO<sub>2</sub> Emissions</b>	No	N/A	This regulation establishes standards of performance for SO <sub>2</sub> emissions from onshore natural gas processing for which construction, reconstruction, or modification of the amine sweetening unit commenced after January 20, 1984 and on or before August 23, 2011. This regulation does not apply as this facility is not a natural gas processing plant.

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
NSPS 40 CFR 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	No	N/A	This regulation establishes standards of performance for crude oil and natural gas production, transmission and distribution. The facility does not have any affected units that have been modified or reconstructed on or after August 23, 2011 and before September 18, 2015. [40 CFR 60.5360]
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	No	N/A	This regulation establishes standards of performance for crude oil and natural gas production, transmission and distribution. The facility does not have any affected units that have been modified or reconstructed on or after September 18, 2015.
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 regulation does not apply as this facility does not operate any stationary compression ignition internal combustion engines.
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	No	N/A	This regulation establishes standards of performance for stationary spark ignition combustion engines. AUX-B1 is a stationary SI ICE which was constructed prior to June 12, 2006. Accordingly, this regulation does not apply.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No	N/A	This regulation establishes standards of performance for greenhouse gas emissions from electric generating units. This regulation does not apply because this facility does not operate any electric generating units.
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No	N/A	This regulation establishes standards of performance for greenhouse gas emissions and compliance times for electric utility generating units. This regulation does not apply because this facility does not operate any electric utility generating units.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No	N/A	Lincoln Compressor Station is not a municipal solid waste landfill, therefore this Subpart 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>
NESHAP 40 CFR 61 Subpart A	General Provisions	Potentially	Facility	Lincoln Compressor Station does not emit or have threshold quantities of regulated substances at the facility and/or the facility is not involved in the triggering activity. Subpart M does apply, however, and is discussed below.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for <b>Mercury</b>	No	N/A	This regulation establishes a national emission standard for mercury. The facility does not have 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 [40 CFR Part 61.50]. The facility is not subject to this regulation.
NESHAP 40 CFR 61 Subpart M	National Emission Standards for <b>Asbestos</b>	Potentially	Facility	This standard does not generally apply to the facility under normal operating conditions; however, Subpart M would apply to the asbestos disposal site, asbestos demolition activities, and when dealing with renovation of regulated asbestos containing materials (RACM).
NESHAP 40 CFR 61 Subpart V	National Emission Standards for <b>Equipment Leaks</b> (Fugitive Emission Sources)	No	N/A	This regulation establishes national emission standards for equipment leaks (fugitive emission sources). The facility does not have equipment that operates in volatile hazardous air pollutant (VHAP) service [40 CFR Part 61.240]. 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	AUX-B1	This regulation defines general provisions for relevant standards that have been set under this part. There are no units at this facility which are subject to the requirements of 40 CFR Part 63; therefore, this Subpart applies.
MACT 40 CFR 63.760 Subpart HH	Oil and Natural Gas Production Facilities	No	N/A	This regulation establishes national emission standards for hazardous air pollutants from oil and natural gas production facilities. This facility is not an Oil or Natural Gas Production Facility, as defined by this regulation therefore it is not subject to this regulation.
MACT 40 CFR 63 Subpart HHH	National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities	No	N/A	This facility is not a major source of HAPS, nor does it contain an affected unit. As stated in 63.1270(c), a facility that does not contain an affected source is not subject to the requirements of this subpart.
MACT 40 CFR 63 Subpart DDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	This facility does not operate any major industrial, commercial, or institutional boilers or process heaters; therefore, this Subpart does not apply.
MACT 40 CFR 63 Subpart UUUU	National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit	No	N/A	This facility does not operate any coal or oil fired electric utility steam generating units; therefore, this Subpart 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>
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines ( <b>RICE MACT</b> )	Yes	AUX-B1	Unit AUX-B1, the backup generator engine, is an existing (construction commenced prior to June 12, 2006) emergency stationary RICE located at an area source of HAPs.  The engine must comply with the emission limitations in 40 CFR 63.6603 and Table 2d of the subpart.
40 CFR 64	<b>Compliance Assurance Monitoring</b>	No	N/A	This regulation defines compliance assurance monitoring. Lincoln Compressor Station is a Title V major source. However, none of the units at the facility are required to use a control device to achieve compliance with an emission limit.
40 CFR 68	<b>Chemical Accident Prevention</b>	No	N/A	This facility is regulated under DOT Office of Pipeline Safety Regulations (49 CFR 192, 193 and 195); therefore, it is not subject to this regulation. This regulation arises from section 112(r) of the Clean Air Act and establishes thresholds based on inventoried quantities of specific substances in process.  As established at 40 CFR 68.3, the term "stationary source" does not apply to the transportation of any regulated substance or any other extremely hazardous substance under the provisions of this part, provided that such transportation is regulated under 49 CFR parts 192, 193, or 195 (DOT Office of Pipeline Safety Regulations).
Title IV – Acid Rain 40 CFR 72	<b>Acid Rain</b>	No	N/A	This part establishes the acid rain program. This part does not apply because the facility is not covered by this regulation. [40 CFR Part 72.6]
Title IV – Acid Rain 40 CFR 73	<b>Sulfur Dioxide Allowance Emissions</b>	No	N/A	This regulation establishes sulfur dioxide allowance emissions for certain types of facilities. This part does not apply because the facility is not the type covered by this regulation [40 CFR Part 73.2].
Title IV-Acid Rain 40 CFR 75	<b>Continuous Emissions Monitoring</b>	No	N/A	This facility does not generate commercial electric power or electric power for sale; therefore, this Subpart does not apply.
Title IV – Acid Rain 40 CFR 76	<b>Acid Rain Nitrogen Oxides Emission Reduction Program</b>	No	N/A	This regulation establishes an acid rain nitrogen oxides emission reduction program. This regulation applies to each coal-fired utility unit that is subject to an acid rain emissions limitation or reduction requirement for SO <sub>2</sub> . This part does not apply because the facility does not operate any coal-fired units [40 CFR Part 76.1].
Title VI – 40 CFR 82	<b>Protection of Stratospheric Ozone</b>	Yes	Facility	EPNG owns appliances containing CFCs and is therefore subject to this requirement. However, this requirement imposes no obligations on the facility beyond those imposed on any individual or corporate owner of such appliances, and is mentioned here only in the interest of being thorough. EPNG 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)

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- 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.
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EPNG maintains the required planning and excess emission mitigation documents at Lincoln Compressor Station.



# 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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The term “alternative operating scenario” is not defined by regulation. EPNG understands this term to apply to one or more sources that may routinely operate with alternative fuels or raw materials and/or on a significantly different schedule that may potentially affect emissions. Based on this understanding, Lincoln Compressor Station does not have any alternative operating scenarios.

Units at the facility may be shut down from time to time due to factors including, but not limited to, market demand, maintenance, malfunctions, and emergency shutdowns. Operating in alternative modes and temporary shutdowns are not alternative operating scenarios, as EPNG understands them.



# 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.

Dispersion modeling is not required as part of this Title V operating permit renewal application. A demonstration of compliance with National Ambient Air Quality Standards (NAAQS) and New Mexico Ambient Air Quality Standards (NMAAQs) was submitted and approved in the application for permit 0691-M4. The permit was issued on the basis of compliance with the appropriate standards. No changes have been made affecting regulated equipment or emissions at the facility since compliance was demonstrated.





# Section 17

## Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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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**

Unit No.	Test Description	Test Date
B-01	Tested in accordance with EPA test methods for NOx and CO as required by Title V permit P022-R3.	10/07/2014

Per condition B108 D(2), unit B-01 operated have less than 25% of the monitoring period and therefore monitoring was not required during CY 2018. Furthermore, B-01 did NOT operate less than 2,190 hours but more than 876 hours per year in the previous two back to back years (two successive periods, CY 2016 & CY 2017) without monitoring. Units with less than 2,190 hours but more than 876 hours per year in the two previous periods would require forced-monitoring in CY 2018 regardless of the time operated.



# Section 19

## Requirements for Title V Program

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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 <http://www.env.nm.gov/aqb/index.html>. 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.
- 

To save paper and to standardize the application format, delete this sentence, and begin your submittal for this item here.

---

### **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.

---

After reasonable inquiry, EPNG states that the facility does not meet the applicability requirements of 40 CFR 64.2. Specifically, no sources at the facility are controlled major sources of regulated pollutants. EPNG will submit the necessary items should the facility or requirements change such that this regulation becomes applicable.

---

### **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.

---

EPNG believes that Lincoln Compressor Station is in compliance with each applicable requirement identified in Section 19.2. This belief was formed after reasonable inquiry. In the event that EPNG should discover new information affecting the compliance status of the facility, EPNG will make appropriate notification and/or take corrective action.

Pursuant to Condition A109 of Title V Permit P022-R3, EPNG has certified compliance with the terms of conditions of the permit. The most recent certification was submitted by the January 31st deadline. Since that time, EPNG has continued to be in compliance with applicable requirements.

---

### 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.

---

As described in Section 19.2, after reasonable inquiry EPNG states that Lincoln Compressor Station will continue to operate in compliance with applicable requirements. Additionally, EPNG will meet additional applicable requirements that become effective during the permit term in a timely manner or on such a time schedule as expressly required by the applicable requirement. In the event EPNG should discover new information affecting the compliance status of the facility, EPNG will make appropriate notifications and/or take corrective actions as appropriate.

---

### 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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Condition A109 of Operating Permit P022-R3 requires EPNG to submit compliance certification reports to the New Mexico Environment Department (NMED) Air Quality Bureau (AQB) and to the EPA no later than January 31st of each year.

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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.)
- 

40 CFR 82 Subpart F. El Paso Natural Gas Company owns appliances containing regulated refrigerants. EPNG outsources services and repairs of its air conditioners at Lincoln Compressor Station to refrigeration companies who utilize certified technicians.

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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 <http://www.env.nm.gov/aqb/index.html>. Sources that are subject to both the Title V and Acid Rain regulations are **encouraged** to submit both applications **simultaneously**.

---

EPNG states that Lincoln Compressor Station is in compliance with the applicable requirements in this section. No compliance plan, compliance schedule, or compliance reports are 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.

---

Lincoln Compressor Station is not subject to the requirements of 40 CFR 68, Chemical Accident Prevention Provisions. The definitions in 40 CFR 68.3 state the term "stationary source" does not apply to transportation of any regulated substance or any other extremely hazardous substance under the provisions of this part, provided that such transportation is regulated under 49 CFR Parts 192, 193 or 195 (DOT Office of Pipeline Safety Regulations). Lincoln Compressor Station is regulated under the DOT Office of Pipeline Safety Regulations and, therefore, is not subject to 112(r)..

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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.)

---

Lincoln Compressor Station is not within 50 miles of other states, local pollution control programs or Indian tribes and pueblos..

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## **19.9 - Responsible Official**

Provide the Responsible Official as defined in 20.2.70.7.AD NMAC:

Responsible Official: Philip Baca

R.O. Title: Director, Operations

R.O. Address: 5151 E. Broadway Blvd., Suite 1680, Tucson, AZ 85711

Phone: 520-663-4224

R.O. Email: Philip\_Baca@KinderMorgan.com

# 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.

---

N/A – No other relevant information at this time.





# Section 22: Certification

Company Name: El Paso Natural Gas Company, LLC

I, Philip L. Baca, 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 1<sup>st</sup> day of April, 2019, upon my oath or affirmation, before a notary of the State of

California

Philip L. Baca  
\*Signature

4-1-19  
Date

Philip L. Baca  
Printed Name

Director  
Title

Scribed and sworn before me on this 1<sup>st</sup> day of April, 2019.

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

9<sup>th</sup> day of April, 2023.

See Attached for  
Notary Certificate

Notary's Signature

EN  
Elizabeth Neri  
Date

Elizabeth Neri  
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.

# CALIFORNIA JURAT CERTIFICATE

\*\*\*\*\*

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached and not the truthfulness, accuracy or validity of that document.

State of California

County of  Kern

Subscribed and sworn to (or affirmed) before me on this  1<sup>st</sup>  day of  April   
 20 19 , by  Philip L. Baca

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

WITNESS MY HAND AND OFFICIAL SEAL

*Elizabeth Neri*

Signature of Notary Public



(Notary Seal)

## ADDITIONAL OPTIONAL INFORMATION

### INSTRUCTIONS FOR COMPLETING THIS FORM

*Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.*

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they~~, ~~is/are~~) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
  - Indicate title or type of attached document, number of pages and date.
  - Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).

Securely attach this document to the signed document

**DESCRIPTION OF THE ATTACHED DOCUMENT**

Section 28 Certification   
 (Title or description of attached document)

\_\_\_\_\_  
 (Title or description of attached document continued)

Number of Pages  1  Document Date  4-1-19

\_\_\_\_\_  
 (Additional information)

**CAPACITY CLAIMED BY THE SIGNER**

Individual (s)

Corporate Officer

\_\_\_\_\_  
 (Title)

Partner(s)

Attorney-in-Fact

Trustee(s)

Other \_\_\_\_\_