

**NMED AIR QUALITY
TITLE V RENEWAL
PERMIT NO. P022-R4
EL PASO NATURAL GAS COMPANY, LLC.
LINCOLN COMPRESSOR STATION**

Prepared By:

Richard Duarte – Senior EHS Engineer

El Paso Natural Gas Company, LLC.
2 North Nevada Ave.
Colorado Springs, CO 80903
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November 2024

Project 243201.0143





9400 Holly Ave NE, Bldg 3, Ste B, Albuquerque, NM 87122 / P 505.266.6611 / trinityconsultants.com

November 15, 2024

Permit Programs Manager
NMED Air Quality Bureau
525 Camino de los Marquez Suite 1
Santa Fe, NM 87505-1816

*RE: Title V Permit # P022-R4 Renewal Application El Paso Natural Gas
Company LLC., Lincoln Compressor Station*

Permit Programs Manager:

El Paso Natural Gas Company LLC., (EPNG) a Kinder Morgan Company, is submitting a renewal to Title V Permit #P022-R4 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-R4 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-R4 expires on November 25, 2025. EPNG is submitting this application pursuant to 20.2.70.300.B(2) NMAC, which requires a timely application for a Title V renewal be submitted at least 12 months prior to the date of permit expiration.

All emission calculations will be carried forward from the previous application.

Enclosed are two hard copies of the application, including the original certification. Please feel free to contact either myself at (505) 266-6611 or by email at aerenstein@trinityconsultants.com if you have any questions regarding this application. Alternatively, you may contact Richard Duarte, Senior EHS Engineer for El Paso Natural Gas Company LLC., at (520) 663-4259 or by email at Ricardo_Duarte@kindermorgan.com

Sincerely,

Adam Erenstein
Manager of Consulting Services

Trinity Project File 243201.0143

HEADQUARTERS

12700 Park Central Dr, Ste 600, Dallas, TX 75251 / P 800.229.6655 / P 972.661.8100 / F 972.385.9203



Air Permit Application Compliance History Disclosure Form

Pursuant to Subsection 74-2-7(S) of the New Mexico Air Quality Control Act ("AQCA"), NMSA §§ 74-2-1 to -17, the New Mexico Environment Department ("Department") may deny any permit application or revoke any permit issued pursuant to the AQCA if, within ten years immediately preceding the date of submission of the permit application, the applicant met any one of the criteria outlined below. In order for the Department to deem an air permit application administratively complete, or issue an air permit for those permits without an administrative completeness determination process, the applicant must complete this Compliance History Disclosure Form as specified in Subsection 74-2-7(P). An existing permit holder (permit issued prior to June 18, 2021) shall provide this Compliance History Disclosure Form to the Department upon request.

Permittee/Applicant Company Name		Expected Application Submittal Date
El Paso Natural Gas Company, LLC		November 15, 2024
Permittee/Company Contact	Phone	Email
Richard Duarte	(505) 831-7763	Ricardo_Duarte@kindermorgan.com
Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:		
1	Knowingly misrepresented a material fact in an application for a permit?	☐ Yes ☒ No
2	Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act?	☐ Yes ☒ No
3	Been convicted of a felony related to environmental crime in any court of any state or the United States?	☐ Yes ☒ No
4	Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States?	☐ Yes ☒ No
5a	Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC?	☐ Yes ☒ No
5b	If "No" to question 5a, go to question 6. If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions: a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or b. The operator of the facility estimated that the facility's emissions would not require an air permit, and the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility.	☐ Yes ☐ No
6	Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States?	☐ Yes ☒ No
7	For each "yes" answer, please provide an explanation and documentation.	

Mail Application To: New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505 Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb		For Department use only:
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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.

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.: [redacted] in the amount of [redacted]
- ☒ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.
- ☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.
- ☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full \$500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

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

Section 1 – Facility Information

Section 1-A: Company Information

		AI # if known (see 1 st 3 to 5 #s of permit IDEA ID No.): 843	Updating Permit/NOI #: P022-R4
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, LLC.		Phone/Fax: (719) 473-2300 / N/A
a	Plant Operator Address: 2 North Nevada Ave., Colorado Springs, CO 80903		
b	Plant Operator's New Mexico Corporate ID or Tax ID: 46-0809216		

3	Plant Owner(s) name(s): El Paso Natural Gas Plant Company, LLC.	Phone/Fax: (719) 473-2300 / N/A
a	Plant Owner(s) Mailing Address(s): 2 North Nevada Ave., Colorado Springs, CO 80903	
4	Bill To (Company): El Paso Natural Gas Plant Company, LLC.	Phone/Fax: (719) 473-2300 / N/A
a	Mailing Address: 2 North Nevada Ave., Colorado Springs, CO 80903	E-mail: Ricardo_Duarte@kindermorgan.com
5	☒ Preparer: Adam Erenstein ☒ Consultant: Trinity Consultants Inc.	Phone/Fax: (505) 266-6611
a	Mailing Address: 9400 Holly Ave NE, Bldg. 3 Ste B, Albuquerque, NM 87122	E-mail: aerenstein@trinityconsultants.com
6	Plant Operator Contact: Rory Taylor	Phone/Fax: (505) 206-9256 / N/A
a	Address: 84 El Paso Circle Gallup, NM 87301	E-mail: rory_taylor@kindermorgan.com
7	Air Permit Contact: Ricardo Duarte	Title: Senior EHS Engineer
a	E-mail: Ricardo_Duarte@kindermorgan.com	Phone/Fax: (505) 269-2794
b	Mailing Address: 100 Sun Ave. NE, Suite 650, Albuquerque, NM 87109	
c	The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.	

Section 1-B: Current Facility Status

1.a	Has this facility already been constructed? ☒ Yes ☐ No	1.b If yes to question 1.a, is it currently operating in New Mexico? ☒ Yes ☐ 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? ☐ Yes ☒ 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? ☒ Yes ☐ No
3	Is the facility currently shut down? ☐ Yes ☒ 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? ☐ Yes ☒ 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? ☐ Yes ☐ No ☒ N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? ☒ Yes ☐ No	If yes, the permit No. is: P-022-R4
7	Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☒ No	If yes, the NPR No. is: N/A
8	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ☒ No	If yes, the NOI No. is: N/A
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☒ Yes ☐ No	If yes, the permit No. is: 0691-M4
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ☒ 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 ft
2	UTM Zone: ☐ 12 or ☒ 13			Datum: ☐ NAD 27 ☐ NAD 83 ☒ 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	AND Latitude (deg., min., sec.): 34° 6'58.60"N			Longitude (deg., min., sec.): 105°40'3.06"W	
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 road.				
5	The facility is 10.1 (distance) miles southwest (direction) of Corona (nearest town).				
6	Status of land at facility (check one): ☒ Private ☐ Indian/Pueblo ☐ Federal BLM ☐ Federal Forest Service ☐ 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: Lincoln County, Torrance County.				
8	20.2.72 NMAC applications only : 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 www.env.nm.gov/air-quality/modeling-publications/)? ☐ Yes ☒ No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: N/A - This application Is being submitted under 20.2.70 NMAC.				
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? ☐ Yes ☒ 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? ☒ No ☐ Yes If yes, what is the name and permit number (if known) of the other facility?				

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

1	Facility maximum 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		☐ AM ☐ PM	End: N/A ☐ AM ☐ 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? ☒ Yes ☐ 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? ☐ Yes ☒ No If yes, specify:	
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? ☐ Yes ☒ 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? ☐ Yes ☒ 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? ☐ Yes ☒ No		
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? ☒ Yes ☐ No		
a	If Yes, what type of source? ☐ Major (☐ ≥ 10 tpy of any single HAP OR ☐ ≥ 25 tpy of any combination of HAPS) OR ☒ Minor (☒ < 10 tpy of any single HAP AND ☒ < 25 tpy of any combination of HAPS)		
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? ☒ Yes ☐ 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	☐ I have filled out Section 18, "Addendum for Streamline Applications." ☒ 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): Ted Meinhold		Phone: (985) 264-7853
a	R.O. Title: VP of Operations	R.O. e-mail: ted_meinhold@kindermorgan.com	
b	R. O. Address: 1001 Louisiana Houston, TX 77002		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): Don Perkins		Phone: (413) 896-6097
a	A. R.O. Title: Director of Operations	A. R.O. e-mail: don_perkins@kindermorgan.com	
b	A. R. O. Address: 2527 Foresight Circle Grand Junction, CO 81505		
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, LLC.		
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: 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** should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-toe 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.
- 3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, **two CD** copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a **single CD** submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB's secure file transfer service.

Electronic files sent by (check one):

- ☐ CD/DVD attached to paper application
- ☒ secure electronic transfer.

Air Permit Contact Name: Adam Erenstein

Email: aerenstein@trinityconsultants.com

Phone number: (505) 266-6611

- a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**
- 4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.
- 5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling **summary report only** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.
- 6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
 - a. one additional CD copy for US EPA,
 - b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
 - c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

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

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

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the

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

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

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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 ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²		Controlled by Unit #		Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #						
B-01	Regenerative Cycle Turbine	General Electric	3142J	226002	14,000 hp	11,540 hp	1972	N/A	N/A	20200201	☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced	N/A	N/A
F-001	Facility-wide Fugitives	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31088811	☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced	N/A	N/A
SSM/M	Startup, Shutdown, Maintenance and Malfunction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31088811	☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced	N/A	N/A
AUX-B1	Auxiliary Electric Generator	Caterpillar	3412	7DB00990	400 hp	400 hp	Unknown	N/A	N/A	20100202	☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced	4SRB	N/A
											☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		
											☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		
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											☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		

¹ 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.

² Specify dates required to determine regulatory applicability.

³ 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.

⁴ "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 Activities¹ (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 202.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), 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 ²		For Each Piece of Equipment, Check One
					Insignificant Activity citation (e.g. IA List Item #1.a)	Capacity Units	Date of Installation /Construction ²	Date of Manufacture /Reconstruction ²	
T-001	Used oil storage tank	N/A	N/A	1000	N/A		N/A	☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced
			N/A	gallons	IA List Item #5	Dec-94			
T-002	Lube oil storage tank	N/A	N/A	1520	N/A		N/A	☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced
			N/A	gallons	IA List Item #5	Dec-94			
T-003	Process tank	N/A	N/A	425	N/A		N/A	☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☒ To be Removed ☐ Replacement Unit ☐ 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	☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced
			N/A	gallons	IA List Item #5	Dec-94			
								☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced
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Table 2-1: 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 ☒ HAP or ☐ TAP		Formaldehyde ☒ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ 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
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/M	*	0.069	-	-	-	-								
N/A	AUX-B1	**	**	**	**	**	**								
Totals:		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 emission limitations under MACT ZZZZ; however, it is not subject to emission limitations under 20.2.72 NMAC. Therefore, no emission limits are requested in this application.

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

[illegible]

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

¹ 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.

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

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

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

⁵ CO₂e 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

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

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

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

EPNG is submitting this application in accordance with 20.2.70.300.B.2 NMAC, requiring a timely application for a Title V renewal to be submitted at least 12 months prior to the date of permit expiration. All emission calculations will be carried forward from the previous applications.

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 and malfunction emissions (Unit SSM/M). 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.

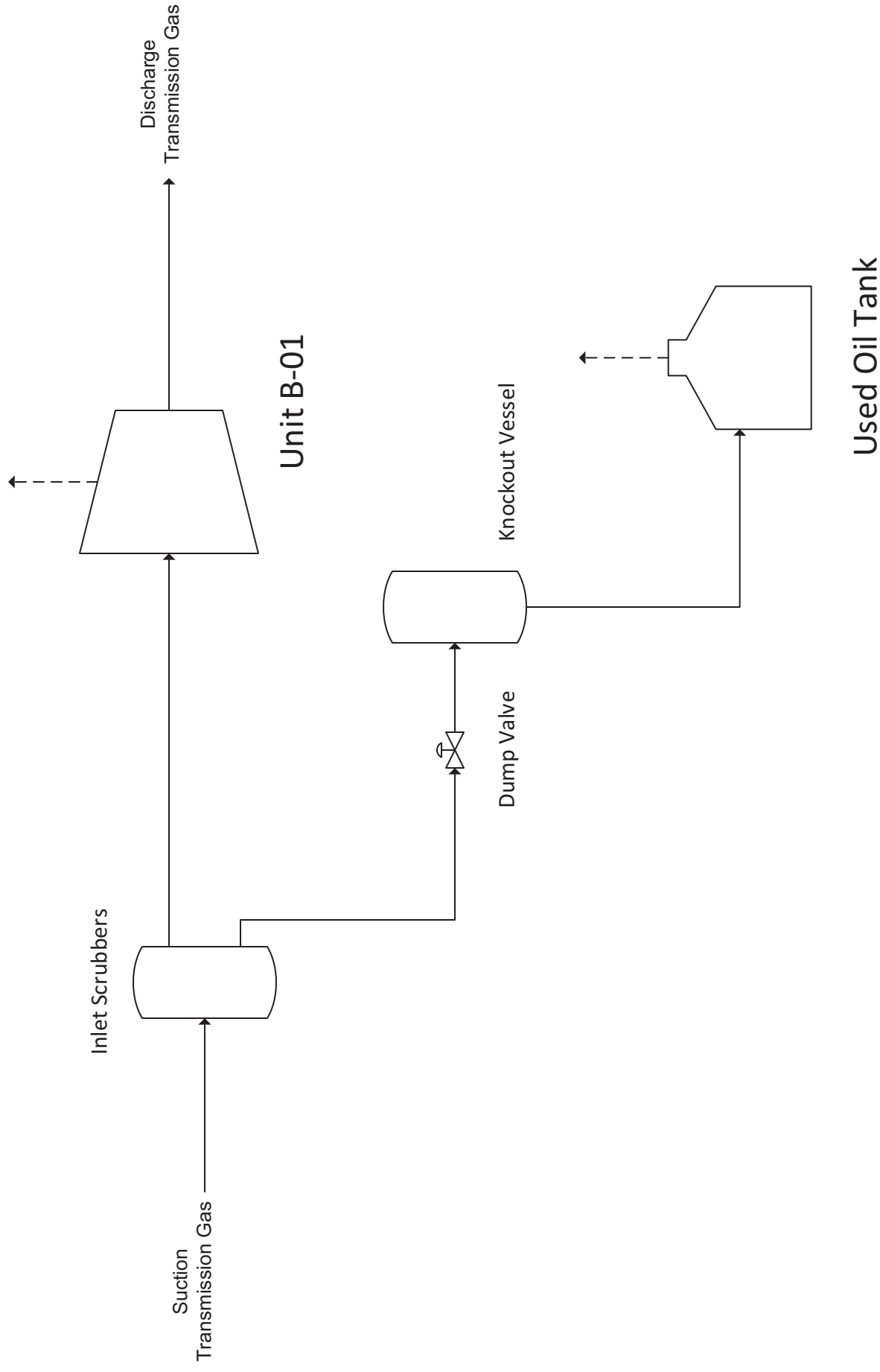
Startup, Shutdown, and Maintenance / Malfunction (SSM/M) routine or predictable emissions: Separate allowable startup, shutdown, and maintenance (SSM) emission limits are not required for this facility since the SSM emissions are predicted to be less than the established steady state emissions for this facility.

Section 4

Process Flow Sheet

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.

A process flow sheet is attached.



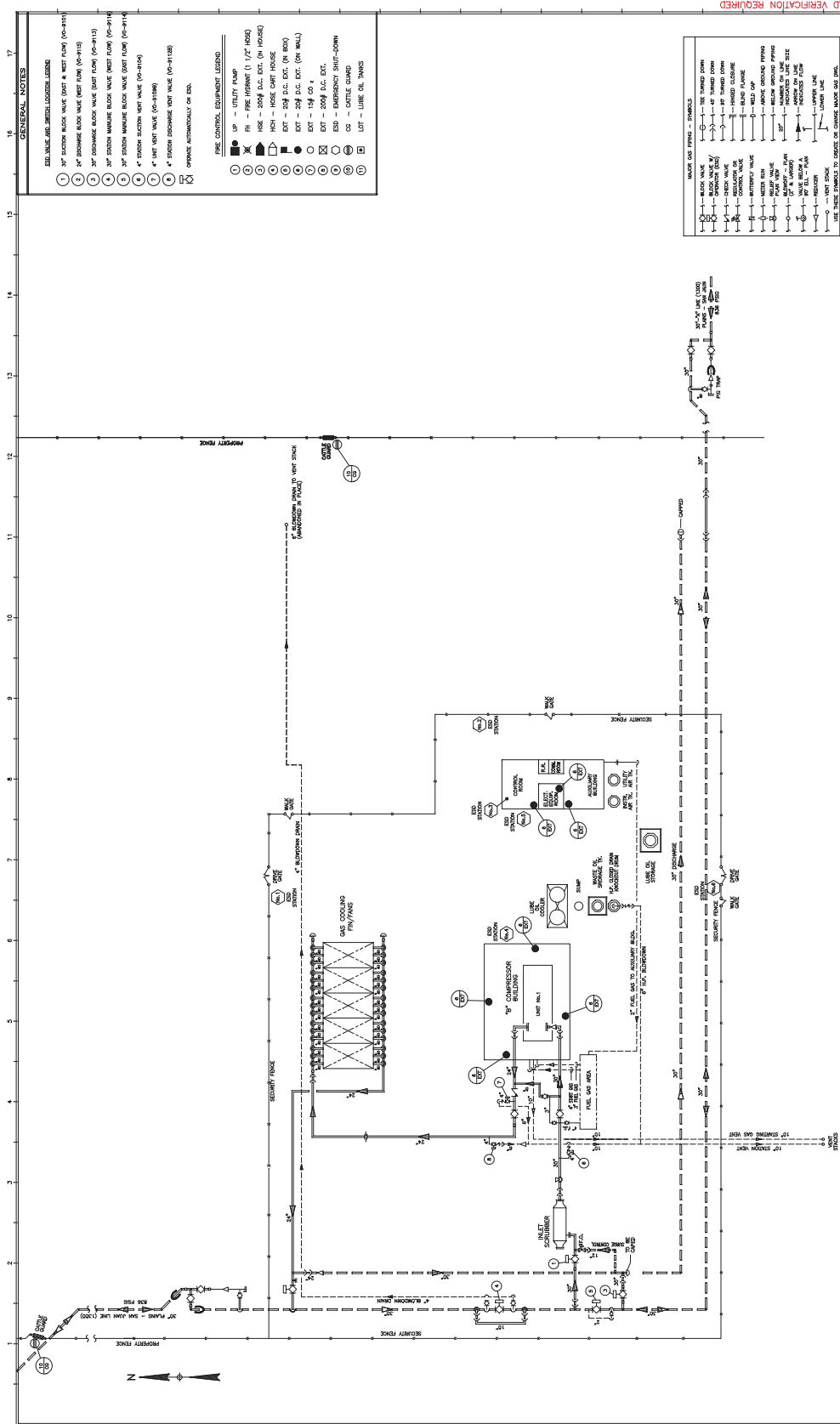
EPNG Lincoln Compressor Station
Process Flow Diagram

Section 5

Plot Plan Drawn to Scale

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.

A detailed plot plan is attached.



NOTES:		 EL PASO NATURAL GAS		CMP-11-3 References Endpage		LINCOLN COMPRESSOR STATION Facility Name	
11	AS-BUILT	SACD-494	184	12-07-2017			
10	AS BUILT	117525/117531	06-14-2009				
9	PFP 2000 LINE 1000	117525	11-19-2009				
8	AS BUILT- RPLG 30" TRAP, V&C	117508	10-25-2009				
8	INCORPORATED CMP-11-4	-	10-25-2009				
	Revision Description	Project ID	Date				
				ESD VALVE AND SWITCH LOCATION PLAN AND FIRE CONTROL EQUIPMENT PLAN LINCOLN COMPRESSOR STATION COMPLIANCE			
				Status Status NEW MODIFIED REV N/A Drawing LINCOLN-2-10 Revision CMP-11-3-2-10 Drawing N/A			
				AS-BUILT CMP-11-2			
				Rev 11			

Section 6

All Calculations

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

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

SSM Calculations: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) 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 of 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.

Emission calculations have been carried forward from the previous permit application.

GE 3142J Turbine (Unit B-01)

Emission rates for NO_x, CO, and VOC are calculated using testing data, which is included as part of this application. The SO₂ emission rate is calculated assuming a maximum sulfur content of 5 grains per 100 scf, assuming 100% conversion to SO₂. 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, CO₂, and CH₄.

Startup, Shutdown, and Maintenance (Unit SSM)

Startup, shutdown, and maintenance emissions were calculated using the predicted number of SSM events, the volume of gas blowdown during each event and representative percentages for VOC, CO₂, and CH₄. HAP emissions were calculated using the HAP/VOC ratio from GRI-HAPCalc for the fugitive emissions. GHG emissions were calculated using the nominal weight percentages of VOC, CO₂, and CH₄.

Caterpillar 3412 Engine (Unit AUX-B1)

The emission factor for NO_x, CO, & VOC are from engine specifications. HAP and PM are 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. SO₂ 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 Table C-1 and C-2.

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC) applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO₂), nitrous oxide (N₂O), methane (CH₄), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆).

Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO₂e 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 CO₂e 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 CO₂e 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 CO₂e 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 CO₂e 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 CO₂ 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 _x		CO		VOC		SO ₂		PM		H ₂ S		Acetaldehyde		Formaldehyde		Total HAP		CO ₂ 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/M	-	-	-	-	*	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
Totals	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.

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	Fuel consumption * Fuel Heating Value * 1 yr/8760 hours
Heat Input:	82.8	MMBtu/hr	Heat input / horsepower * 10 ⁶ Btu/MMBtu
Heat Input Rate:	5917.1	Btu/hp-hr	

Emission Calculations

NO _x	CO	VOC	SO ₂ ¹	PM ¹	
70.8	12.7	2.3			lb/hr
				0.007	lb/MMBtu
			5		grains S/100 scf
70.8	12.7	2.3	1.047	0.55	lb/hr
310.0	55.6	10.1	4.58	2.39	tons/yr

Permit limits, based on test data²
AP-42 Table 3.1-2a

Acetaldehyde ³	Formaldehyde ³	Total HAPs ³
---------------------------	---------------------------	-------------------------

0.53	0.52	1.3
2.3	2.3	5.6

¹ SO₂ emission rate based on fuel sulfur content of 5 gr S/100scf and Site Rating

SO₂ (lb/hr) = 5gr S/100scf * Heat input (Btu/hp-hr) * Site rating (hp) / Fuel Heating value (Btu/scf) * 1lb/7000gr * Stoichiometric ratio (64/32)

² Testing data included in this application

³ HAP tpy emission rate from GRI-HAPCalc 3.01 calculated using site rating

GHG Emission Calculations

CO ₂	CH ₄	N ₂ O	
53.06	1.00E-03	1.00E-04	kg/MMBtu
1	25	298	GWP
38504078	726	73	kg / yr
42431.5	0.80	0.080	tons / yr
42431.49	19.99	23.83	tons/yr CO ₂ e

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		CO	VOC	SO ₂ ¹	PM	Acetaldehyde	Formaldehyde	Total HAPs		Test Data
Nox	15.77	6.69	2.52		0.019	0.0028	0.021	0.032	lb/hr	AP-42 Table 3.2-3
				5					lb/MMBtu	
									gr S/100scf	
	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	

¹SO₂ emission rate based on fuel sulfur content of 5 gr S/100scf and Site Rating
SO₂ (lb/hr) = 5gr S/100scf * Heat input (Btu/hp-hr) * Site rating (hp) / Fuel Heating value (Btu/scf) * 1lb/7000gr * Stoichiometric ratio (64/32)

GHG Emission Calculations

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

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 Safety Factor
120%	120%	120%	120%	120%	120%		
0.28	0.0019	0.0031	1.5E-04	8.0E-04	0.0059	lb/hr ¹	
1.2	0.008	0.014	6.6E-04	3.5E-03	0.026	tpy	
CO ₂	CH ₄						
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%					
1.2	30.6	tons/yr CO ₂ e					

¹ Hourly emission rates are shown for informational purposes only.

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

Gas Analysis (Typical)

H_2S	0.25 100	gr H_2S scf	Nominal (Max amount allowed in pipeline quality natural gas)
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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

H₂S

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.
-

Documentation used to support calculation in this permit application

Turbine (Unit B-01)

- Test Data
- GRI-HAPCalc
- 40 CFR 98 Tables C-1 and C-2
- Fuel analysis

Fugitives (Unit FUG)

- GRI-HAPCalc

Auxiliary Engine (Unit AUX-B1)

- G3412 Gas Petroleum Engine Specifications
- Test Data
- Fuel analysis
- AP-42 Table 3.2-3, Uncontrolled Emission Factors for 4-stroke rich-burn engines

El Paso Natural Gas Company, LLC									
Facility Data		Source Data			CO			THC	
Name	ID	Source	Mand.	Type	g/hr	g/hr	g/hr	g/hr	g/hr
Bowie	A-1	GE	Turbine		0.13	0.09	0.13	0.59	
Bowie	A-1	GE	Turbine			0.09	0.19		
Caprock	A-1	GE	Turbine		3.30		0.05		
Caprock	A-2	GE	Turbine		3.77		0.11		
Caprock	A-2	GE	Turbine		1.44		0.04		
Caprock	A-1	GE	Turbine		1.32		0.02		
Caprock	A-2	GE	Turbine		0.57		0.02		
Caprock	A-1	GE	Turbine		0.45		0.03		
Comudas	A-3	GE	Turbine		1.23		0.27		
Comudas	A-3	GE	Turbine		0.70		0.18		
Comudas	A-3	GE	Turbine		0.29		0.07		
Dikon	B-1	GE	Turbine		0.00		NA		
El Paso	C-1	GE	Turbine		0.39		0.21		
El Paso	C-1	GE	Turbine		0.18		0.33		
Gallup	B-1	GE	Turbine		0.68		NA		
Gallup	B-1	GE	Turbine		0.20		NA		
Gallup	B-1	GE	Turbine		0.08		NA		
Gallup	B-1	GE	Turbine		0.20		NA		
Gallup	B-1	GE	Turbine		0.02		NA		
Gallup	B-1	GE	Turbine		0.15		NA		
Gallup	B-1	GE	Turbine		0.14		NA		
Gallup	B-1	GE	Turbine		0.05		NA		
Hackberry	A-2	GE	Turbine		0.05		NA		
Hackberry	A-2	GE	Turbine		0.05		NA		
Hackberry	A-2	GE	Turbine		0.05		NA		
Hackberry	A-1	GE	Turbine		NA		NA		
Hackberry	A-1	GE	Turbine		NA		NA		
Hackberry	A-1	GE	Turbine		NA		NA		
Leupp	C-1	GE	Turbine		0.44		0.12		
Leupp	C-1	GE	Turbine		0.12		0.05		
Leupp	C-1	GE	Turbine		0.11		0.04		
Lincoln	B-1	GE	Turbine		0.24		0.05		
Lincoln	B-1	GE	Turbine		0.17		0.03		
Lincoln	B-1	GE	Turbine		0.17		0.04		
Lincoln	B-1	GE	Turbine		0.00		0.01		
Lincoln	B-1	GE	Turbine		0.00		0.01		
Lincoln	B-1	GE	Turbine		0.00		0.01		
Lincoln	B-1	GE	Turbine		0.00		0.01		
Lincoln	B-1	GE	Turbine		0.00		0.01		
Lincoln	B-1	GE	Turbine		0.00		0.01		
Lincoln	B-1	GE	Turbine		0.00		0.01		
Lincoln	B-1	GE	Turbine		0.00		0.01		
Lincoln	B-1	GE	Turbine		0.00		0.01		
San Simon	A-1	GE	Turbine		0.67		1.73		
San Simon	A-3	GE	Turbine		0.78		0.50		
San Simon	A-1	GE	Turbine		0.49		0.82		
San Simon	A-3	GE	Turbine		1.13		0.39		
San Simon	A-3	GE	Turbine		0.94		0.30		
San Simon	A-2	GE	Turbine		0.40		0.22		
San Simon	A-1	GE	Turbine		0.41		0.76		
Seligman	A-1	GE	Turbine		NA		NA		
Seligman	A-1	GE	Turbine		NA		NA		
Seligman	A-1	GE	Turbine		NA		NA		
Vail	A-2	GE	Turbine		1.48		0.03		
Vail	A-1	GE	Turbine		1.05		0.02		
Vail	A-3	GE	Turbine		1.23		0.03		
Vail	A-1	GE	Turbine		0.58		0.03		
Vail	A-3	GE	Turbine		0.62		0.02		
Vail	A-2	GE	Turbine		0.75		0.01		
Vail	A-2	GE	Turbine		0.55		0.02		
Vail	A-1	GE	Turbine		0.37		0.01		
Vail	A-3	GE	Turbine		0.41		0.01		
Wenden	A-1	GE	Turbine		0.12		0.02		
Wenden	A-1	GE	Turbine		0.02		0.02		
Wenden	A-1	GE	Turbine		0.10		0.02		
Wenden	A-1	GE	Turbine		0.06		NA		
Wenden	A-1	GE	Turbine		0.07		NA		

GRI-HAPCalc® 3.01
Turbine Report

Facility ID:	EPNG LINCOLN	Notes:
Operation Type:	COMPRESSOR STATION	
Facility Name:	LINCOLN COMPRESSOR STATION	
User Name:		
Units of Measure:	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".*

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>
<u>HAPS</u>			
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
Total	4.6311		
<u>Criteria Pollutants</u>			
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
<u>Other Pollutants</u>			
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 CO₂ 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 CO₂ 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 CO₂ 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 CO₂ 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 CO₂ Emission Factors and High Heat Values for Various Types of Fuel

Fuel type	Default high heat value	Default CO₂ emission factor
Coal and coke	mmBtu/short ton	kg CO ₂ /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	mmBtu/scf	kg CO ₂ /mmBtu
(Weighted U.S. Average)	1.028 x 10 ⁻³	53.02
Petroleum products	mmBtu/gallon	kg CO ₂ /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 ₂ /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 ₂ /mmBtu
Blast Furnace Gas	0.092 x 10 ⁻³	274.32
Coke Oven Gas	0.599 x 10 ⁻³	46.85
Propane Gas	2.516 x 10 ⁻³	61.46
Fuel Gas 2	1.388 x 10 ⁻³	59.00
Biomass fuels—solid	mmBtu/short ton	kg CO ₂ /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 ₂ /mmBtu
Biogas (Captured methane)	0.841 x 10 ⁻³	52.07
Biomass Fuels—Liquid	mmBtu/gallon	kg CO ₂ /mmBtu
Ethanol	0.084	68.44
Biodiesel	0.128	73.84

Rendered Animal Fat	0.125	71.06
Vegetable Oil	0.120	81.55

¹ 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.

² 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 CO₂ 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 CH₄ and N₂O Emission Factors for Various Types of Fuel

Default CH₄ and N₂O Emission Factors for Various Types of Fuel

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

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 CH₄/mmBtu.

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

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GRI-HAPCalc® 3.01
Fugitive Emissions Report

Facility ID:	EPNG LINCOLN	Notes:
Operation Type:	COMPRESSOR STATION	
Facility Name:	LINCOLN COMPRESSOR STATION	
User Name:		
Units of Measure:	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

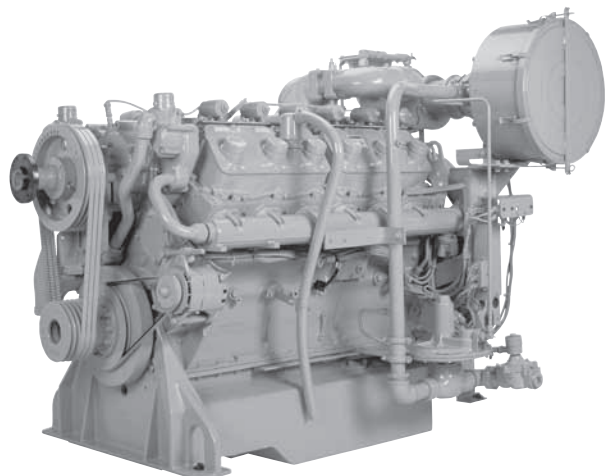
<u>Component</u>	<u>Gas Service</u>	<u>Light Liquid Service</u>	<u>Heavy Liquid Service</u>
Connections:	737	0	0
Flanges	120	0	0
Open-Ended Lines:	14	0	0
Pumps:	0	0	0
Valves:	257	0	0
Others:	30	0	0

Calculated Emissions (ton/yr)

<u>Chemical Name</u>	<u>Emissions</u>
<u>HAPs</u>	
Benzene	0.0037
Toluene	0.0062
Ethylbenzene	0.0003
Xylenes(m,p,o)	0.0016
Total	0.0118

Criteria Pollutants

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.

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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•SSM 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

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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

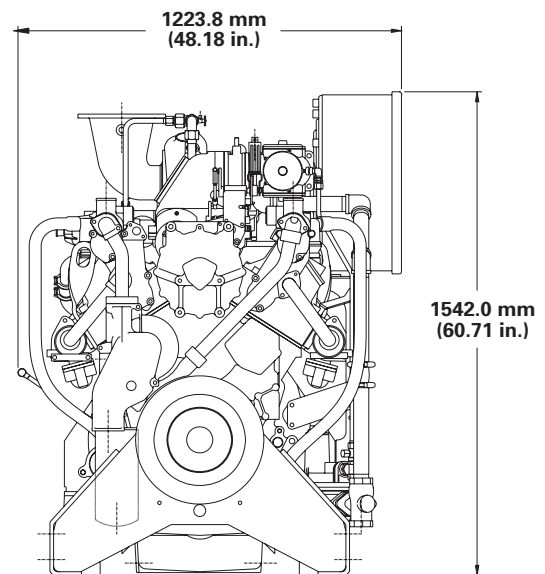
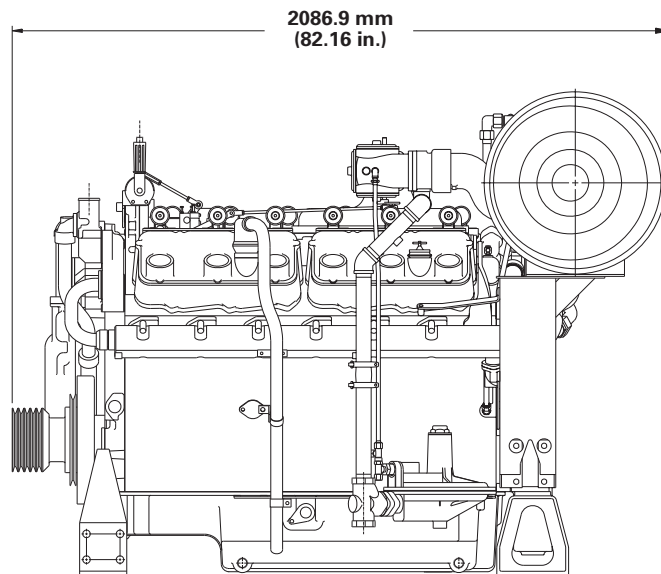
		DM8646-00	DM5206-04	DM5101-01
Engine Power				
@ 100% Load	bkW (bhp)	373 (500)	447 (600)	272 (365)
@ 75% Load	bkW (bhp)	280 (375)	336 (450)	204 (274)
Engine Speed	rpm	1500	1800	1800
Max Altitude @ Rated Torque and 38°C (100°F)	m (ft)	304.8 (1000)	609.6 (2000)	0
Speed Turndown @ Max Altitude, Rated Torque, and 38°C (100°F)	%	13.5	22	0
SCAC Temperature	°C (°F)	54 (130)	54 (130)	N/A
Emissions*				
NO _x	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 ₂	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)	—
Fuel Consumption***				
@ 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)
Heat Balance				
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)
Exhaust System				
Exhaust Gas Flow Rate				
@ 100% Load	m ³ /min (cfm)	59.55 (2103)	69.97 (2471)	49.16 (1736)
@ 75% Load	m ³ /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)
Intake System				
Air Inlet Flow Rate				
@ 100% Load	m ³ /min (scfm)	19.85 (701)	23.87 (843)	14.6 (515)
@ 75% Load	m ³ /min (scfm)	15.46 (546)	18.24 (644)	12.01 (424)
Gas Pressure	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: 01

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 TO 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^a
(SCC 2-02-002-53)

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

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

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

^a Reference 7. Factors represent uncontrolled levels. For NO_x, 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_x 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.

^b Emission factors were calculated in units of (lb/MMBtu) based on procedures in EPA Method 19. To convert from (lb/MMBtu) to (lb/10⁶ 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:

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

^c Emission tests with unreported load conditions were not included in the data set.

^d Based on 99.5% conversion of the fuel carbon to CO₂. CO₂ [lb/MMBtu] = (3.67)(%CON)(C)(D)(1/h), where %CON = percent conversion of fuel carbon to CO₂,

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 ₂	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	DATA SRCE	H2S (Gr)
314405	Online Analyzer	0.0047
PT NAME	RDG DATE HOUR	
EPNG/EPNG SUCTION FROM SAN JUAN TO	1/1/2019 8:00	

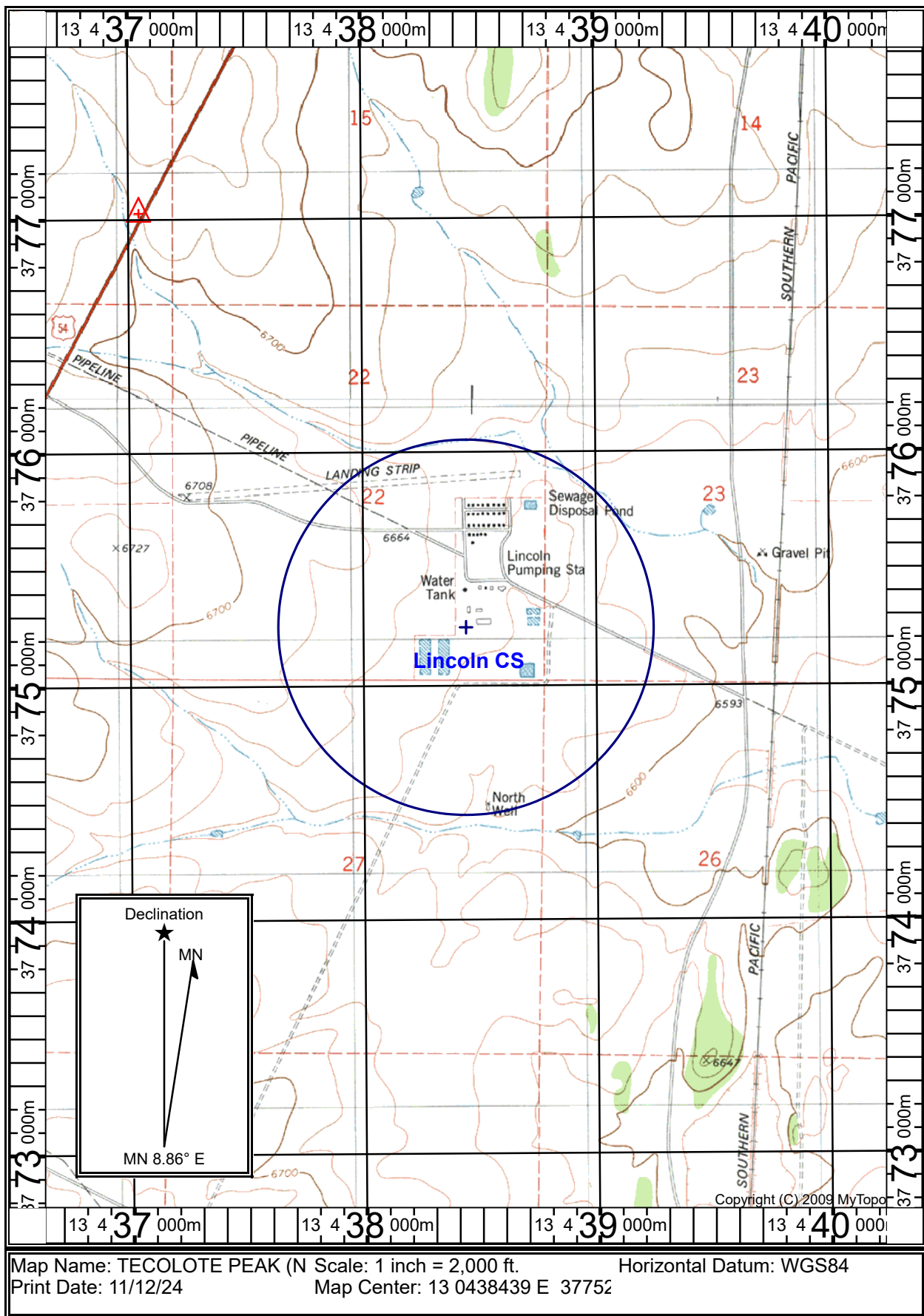
Section 8

Map(s)

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

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

A topographic map is attached.



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 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):

Refer to Table 2-A.

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. NO_x: **XX.X** TPY
 - b. CO: **XX.X** TPY
 - c. VOC: **XX.X** TPY
 - d. SO_x: **XX.X** TPY
 - e. PM: **XX.X** TPY
 - f. PM₁₀: **XX.X** TPY
 - g. PM_{2.5}: **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.

N/A – There are no modifications associated with this project.

Section 13

Determination of State & Federal Air Quality Regulations

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

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

Required Information for Specific Equipment:

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

Required Information for Regulations that Apply to the Entire Facility:

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

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

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

Regulatory Citations for Emission Standards:

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

Federally Enforceable Conditions:

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

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

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

Table for State Regulations:

<u>State Regulation Citation</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)	
20.2.1 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 ₂ , H ₂ S, CO, and NO _x 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.	
20.2.23 NMAC	Fugitive Dust Control	No	N/A	This facility is authorized under a construction permit pursuant to the New Mexico Air Quality Control Act and is therefore not subject to this regulation.	
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	Yes	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 ₂	No	N/A	This facility does not have oil burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit. The facility is not subject to this regulation and does not have emission sources that meet the applicability requirements under 20.2.34.108 NMAC.	
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	The purpose of this regulation is to establish sulfur emissions standards for natural gas processing plants [20.2.35.6 NMAC]. This facility is not a natural gas processing plant, as defined in the regulation [20.2.35.7 NMAC]. As this facility is not defined as a natural gas processing plant under this regulation, the facility is not subject to this regulation.	
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	The purpose of this regulation is to minimize emissions from petroleum or natural gas processing facilities [20.2.37.6 NMAC]. This facility is not a natural gas or petroleum processing facility, as defined in the regulation [20.2.37.7 NMAC]. As this facility is not defined as a natural gas or petroleum processing facility, the facility is not subject to this regulation.	
20.2.38 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.	
20.2.39 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.	
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	No	N/A	This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NO_x) for oil and gas production, processing, compression, and transmission sources. 20.2.50 NMAC subparts below: Include the construction status of applicable units as “New”, “Existing”, “Relocation of Existing”, or “Reconstructed” as defined by this Part in your justification: Check the box for the subparts that are	The facility is located in Lincoln County. It is not subject to 20.2.50 NMAC.

				applicable: ☐ 113 – Engines and Turbines ☐ 114 – Compressor Seals ☐ 115 – Control Devices and Closed Vent Systems ☐ 116 – Equipment Leaks and Fugitive Emissions ☐ 117 – Natural Gas Well Liquid Unloading ☐ 118 – Glycol Dehydrators ☐ 119 – Heaters ☐ 120 – Hydrocarbon Liquid Transfers ☐ 121 – Pig Launching and Receiving ☐ 122 – Pneumatic Controllers and Pumps ☐ 123 – Storage Vessels ☐ 124 – Well Workovers ☐ 125 – Small Business Facilities ☐ 126 – Produced Water Management Unit ☐ 127 – Flowback Vessels and Preproduction Operations	
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.	

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
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.
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 for Applicable Federal Regulations:

<u>Federal Regulation Citation</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 50	NAAQS	Yes	Facility	This regulation defines national ambient air quality standards. Lincoln Compressor Station meets all applicable national ambient air quality standards for PM ₁₀ , PM _{2.5} , SO ₂ , H ₂ S, CO, and NO _x 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 CFR 60.40a, Subpart Da	Subpart Da, Performance Standards for Electric Utility Steam Generating Units	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 CFR 60.40b Subpart Db	Electric Utility 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.
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 Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	No	N/A	This regulation 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)]

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	No	N/A	This 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	Stationary Gas Turbines	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 Onshore Gas Plants	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 Onshore Natural Gas Processing: SO2 Emissions	No	N/A	This regulation establishes standards of performance for SO2 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.
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.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
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.
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 Mercury	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 V	National Emission Standards for Equipment Leaks (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.

<u>Federal Regulation Citation</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
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 DDDDD	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 UUUUU	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.
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	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	Compliance Assurance Monitoring	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	Chemical Accident Prevention	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	Acid Rain	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]

<u>Federal Regulation Citation</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
Title IV – Acid Rain 40 CFR 73	Sulfur Dioxide Allowance Emissions	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	Continuous Emissions Monitoring	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	Acid Rain Nitrogen Oxides Emission Reduction Program	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 ₂ . 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	Protection of Stratospheric Ozone	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)

- ☒ **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)

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: www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/. 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.

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 an alternative operating scenario.

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 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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

Compliance Test History Table

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
B-01	Tested in accordance with EPA test methods for NOx and CO as required by Title V permit P022-R4.	04/25/2019
B-01	Tested in accordance with EPA test methods for NOx and CO as required by Title V permit P022-R4.	06/25/2021
B-01	Tested in accordance with EPA test methods for NOx and CO as required by Title V permit P022-R4.	07/26/2022
B-01	Tested in accordance with EPA test methods for NOx and CO as required by Title V permit P022-R4.	08/22/2023

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

Who Must Use this Attachment:

- * Any major source as defined in 20.2.70 NMAC.
 - * Any source, including an area source, subject to a standard or other requirement promulgated under Section 111 - Standards of Performance for New Stationary Sources, or Section 112 Hazardous Air Pollutants, of the 1990 federal Clean Air Act ("federal Act"). Non-major sources subject to Sections 111 or 112 of the federal Act are exempt from the obligation to obtain an 20.2.70 NMAC operating permit until such time that the EPA Administrator completes rulemakings that require such sources to obtain operating permits. In addition, sources that would be required to obtain an operating permit solely because they are subject to regulations or requirements under Section 112(r) of the federal Act are exempt from the requirement to obtain an Operating Permit.
 - * Any Acid Rain source as defined under title IV of the federal Act. The Acid Rain program has additional forms. See www.env.nm.gov/air-quality/air-quality-title-v-operating-permits-guidance-page/. 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.
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19.1 - 40 CFR 64, Compliance Assurance Monitoring (CAM) (20.2.70.300.D.10.e NMAC)

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

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 even that EPNG should discover new information affecting the compliance status of the facility, EPNG will make appropriate notification and/or take corrective action.

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 describe 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.

Condition A109 of Operating Permit P022-R4 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.

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).

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.

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: (20.2.70.300.D.11.c NMAC)

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

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

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

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

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

NOTE: The Acid Rain program has additional forms. See www.env.nm.gov/air-quality/air-quality-title-v-operating-permits-guidance-page/. 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.

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).

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.

19.9 - Responsible Official

Provide the Responsible Official as defined in 20.2.70.7.AD NMAC

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1001 Louisiana Houston, TX 77002

Section 20

Other Relevant Information

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

Section 22: Certification

Company Name: El Paso Natural Gas LLC

I, Donald W Perkins, 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 19 day of November, 2024, upon my oath or affirmation, before a notary of the State of

Colorado

[Signature]
*Signature

11/19/2024
Date

Donald W Perkins
Printed Name

Director
Title

Scribed and sworn before me on this 19th day of November, 2024.

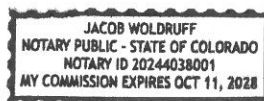
My authorization as a notary of the State of Colorado expires on the

11th day of October, 2028.

[Signature]
Notary's Signature

November 19th, 2024
Date

Jacob Woldruff
Notary's Printed Name



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