August 31, 2026

New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505

RE: New Source Review (NSR) Construction Permit Application
Reveille Compressor Station, Eddy County, New Mexico
ONEOK, Inc.

Dear Air Quality Bureau,

ONEOK, Inc. (ONEOK) submits the enclosed update to the application for issuance of a New Source Review (NSR) Construction Permit to allow for the addition of a second generator, an enclosed combustion device, and updates to fugitive emissions at the existing Reveille Compressor Station.

The Reveille Compressor Station currently operates under NSR Permit No. 9896M1 and Title V P-303.

A permit filing fee of $500 and an original Section 22 wet ink signature page was mailed to the department for the application under separate cover. A copy of both are provided in this submission. Electronic files will be transferred via secure electronic transfer initiated by the assigned permit writer. Two links will need to be provided, as the modeling files will be uploaded from a different server location.

Any clarification questions or requests for additional information can be directed to myself via email to jj@resolutecompliance.com or by phone at 903-241-2055 or Mr. Lance Green via email to Lance.Green@oneok.com or by phone at 225-692-6947.

Kind Regards,

Jeff A. Jackson

Vice President EHSR

Encl: NSR Permit Application and Modeling

Cc: Mr. Lance Green – ONEOK
Ms. Daria Underwood – ONEOK

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Mail Application To:		**For Department use only:**
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		

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: ☐ 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.: 2100377289 in the amount of $500.00

☒ 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: **20.2.72.200.A 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: 40948	Updating Permit/NOI #: 9896-M1
1	Facility Name: Reveille Compressor Station	Plant primary SIC Code (4 digits): 1311	
		Plant NAIC code (6 digits): 21112	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): From Loving head south on N 4th St for 1.3 mi toward W Cedar St, turn left onto US Hwy 285 S and continue for 16 mi, turn left onto Whitehorn Rd and continue for 2.4 mi, slight left onto Longhorn Rd, after 1.8 mi turn left onto Pipeline Rd Number 1, after 1.8 mi turn left and continue for 2.2 mi, continue straight at the fork for 1.2 mi and then turn right, continue for 0.2 mi and the facility on the right on the unmarked road after 0.18 mi.		

2	Plant Operator Company Name: ONEOK, Inc.	Phone/Fax: (225) 692-6947
a	Plant Operator Address: 100 W 5th Street Tulsa, OK 74103	
b	Plant Operator's New Mexico Corporate ID or Tax ID:	
3	Plant Owner(s) name(s): ONEOK, Inc.	Phone/Fax: (225) 692-6947
a	Plant Owner(s) Mailing Address(s): 100 W 5th Street Tulsa, OK 74103	
4	Bill To (Company): ONEOK, Inc.	Phone/Fax: (225) 692-6947
a	Mailing Address: 100 W 5th Street Tulsa, OK 74103	E-mail: lance.green@oneok.com
5	☐ Preparer: ☒ Consultant: Jeff Jackson, VP EHS; Resolute Compliance, LLC	Phone/Fax: (903)241-2055
a	Mailing Address: PO Box 970 Royse City, TX 75189	E-mail: jj@resolutecompliance.com
6	Plant Operator Contact: Lance Green	Phone/Fax: (225) 692-6947
a	Address: 100 W 5th Street Tulsa, OK 74103	E-mail: daria.underwood@oneok.com
7	Air Permit Contact: Lance Green	Title: Environmental Supervisor
a	E-mail: lance.green@oneok.com	Phone/Fax: (225) 692-6947
b	Mailing Address: 100 W 5th Street Tulsa, OK 74103	
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):
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-303
7	Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☒ No	If yes, the NPR No. is:
8	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ☒ No	If yes, the NOI No. is:
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☒ Yes ☐ No	If yes, the permit No. is: 9896M1
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ☒ No	If yes, the register No. is:

Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: Oil 20.83 bbl Natural Gas: 6.25 MMscf/hr Produced Water 10.917 bbl	Daily: Oil 500 bbl Natural Gas: 150 MMscf Produced Water: 250 bbl	Annually: Oil: 182,500 bbl Natural Gas: 54,750 MMscf Produced Water: 91,250 bbl
b	Proposed	Hourly: Oil 27.375 bbl Natural Gas: 7.083 MMscf/hr Produced Water 10.417 bbl	Daily: Oil 500 bbl Natural Gas: 170 MMscf Produced Water: 250 bbl	Annually: Oil: 182,500 bbl Natural Gas: 62,050 MMscf Produced Water: 91,250 bbl

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: Oil 20.83 bbl Natural Gas: 6.25 MMscf/hr Produced Water 10.917 bbl	Daily: Oil 500 bbl Natural Gas: 150 MMscf Produced Water: 250 bbl	Annually: Oil: 182,500 bbl Natural Gas: 54,750 MMscf Produced Water: 91,250 bbl
b	Proposed	Hourly: Oil 27.375 bbl Natural Gas: 7.083 MMscf/hr Produced Water 10.417 bbl	Daily: Oil 500 bbl Natural Gas: 170 MMscf Produced Water: 250 bbl	Annually: Oil: 182,500 bbl Natural Gas: 62,050 MMscf Produced Water: 91,250 bbl

Section 1-D: Facility Location Information

1	Latitude (decimal degrees): 32.125875	Longitude (decimal degrees): -103.976947	County: Eddy	Elevation (ft): 3,037
2	UTM Zone: ☐ 12 or ☒ 13	Datum: ☐ NAD 83 ☒ WGS 84		
a	UTM E (in meters, to nearest 10 meters): 596,502 m	UTM N (in meters, to nearest 10 meters): 3,554,846 m		
3	Name and zip code of nearest New Mexico town: Loving, NM 88256			
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Loving head south on N 4th St for 1.3 mi toward W Cedar St, turn left onto US Hwy 285 S and continue for 16 mi, turn left onto Whitehorn Rd and continue for 2.4 mi, slight left onto Longhorn Rd, after 1.8 mi turn left onto Pipeline Rd Number 1, after 1.8 mi turn left and continue for 2.2 mi, continue straight at the fork for 1.2 mi and then turn right, continue for 0.2 mi and the facility on the right on the unmarked road after 0.18 mi.			
5	The facility is 13.05 miles southeast of Loving, NM 88256.			
6	Land Status of facility (check one): ☐ Private ☐ Indian/Pueblo ☐ Government ☒ BLM ☐ Forest Service ☐ Military			
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: Malaga and Eddy 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: Carlsbad Caverns - 43.47 km; Texas - 13.98 km			
9	Name nearest Class I area: Carlsbad Caverns National Park			
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 43.47 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: 12,313 m			
12	Method(s) used to delineate the Restricted Area: N/A "**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: Upon issuance of permit.
4	Month and year of anticipated construction completion: Upon issuance of permit.
5	Month and year of anticipated startup of new or modified facility: Upon issuance of permit.
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: The facility is subject to the New Mexico New Owner Audit Program entered between the New Mexico Environmental Department and ONEOK, Inc. effective July 16, 2025. Additionally, Notice of Violation EPCEB Air Case No. DGP-Multi-2501 was received on April 22, 2025.		
a	If yes, NOV date or description of issue: Failure to update the Facilitys' New Source Review permits 9897-M1 and **9896-M1**, Specific Condition B110.C(2).		NOV Tracking No: DGP-Multi-2501
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: New Owner Monthly Reports	Effective Date: 9/15/25	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: _____ 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.)

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): Sypy Thomas	Phone: 720-468-3635
a	R.O. Title: Senior Vice President	R.O. e-mail: sypy.thomas@oneok.com
b	R. O. Address: 100 W 5th Street Tulsa, OK 74103	
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): N/A	Phone: N/A
a	A. R.O. Title: N/A	A. R.O. e-mail: N/A

b	A. R. O. Address: N/A
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.): ONEOK, Inc.
a	Address of Parent Company: 100 W 5th Street Tulsa, OK 74103
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.): ONEOK Delaware Gathering, LLC.
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: Lance Green: (225) 692-6947
7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: Texas – 13.98 km

Section 1-I – Submittal Requirements

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

Hard Copy Submittal Requirements:

1) One hard copy **original signed and notarized application package** **printed double sided** **'head-to-toe'** **2-hole punched** as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be head-to-head. Please use **numbered tab separators** in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. Please include a copy of the check on a separate page.

2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This copy should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-to 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: Jeff Jackson, Email: jj@resolutecompliance.com, Phone number: (903)241-2055.

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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THE ORIGINAL DOCUMENT HAS A WHITE REFLECTIVE WATERMARK ON THE BACK. HOLD AT AN ANGLE TO VIEW. DO NOT CASH IF NOT PRESENT.

ENLINK MIDSTREAM OPERATING, LP

1722 Routh Street
Suite 1300
Dallas, TX 75201-2502

Wells Fargo - Minnesota
6th Street and Marquette Ave.
Minneapolis, MN 55423

2100377289

56-382/412

Date 3/19/2026
Account 9600137553

Pay Amount **$500.00*****

Pay ****Five hundred and xx/100 Dollar ****

Void After 180 Days

PAY TO THE ORDER OF
NEW MEXICO ENVIRONMENT DEPARTMENT,AQB
AIR QUALITY BUREAU
525 CAMINO DE LOS MARQUEZ
SUITE 1
SANTA FE, NM 87505-1816

RE

⑈2100377289⑈ ⑆041203824⑆ 9600137553⑈

FORM NO. 9836B COPYRIGHT CAPTURX ANTI-FRAUD PROTECTION

Check Date: Mar/19/2026			Supplier Number: 1000019537			Check No: 2100377289
Invoice Number	**Invoice Date**	**Voucher ID**	**Gross Amount**	**Discount Taken**	**Late Charge**	**Paid Amount**
031826KN1	Mar/18/2026	00000665	500.00	0.00	0.00	500.00
Reveille– AI 40948						

Check Number	Date	Total Gross Amount	Total Discounts	Total Late Charge	Total Paid Amount
2100377289	Mar/19/2026	$500.00	$0.00	$0.00	$500.00

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] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
ENG-1	Compressor Engine	Caterpillar	3612A4	BB200917	3750 hp	3750 hp	10/1/2023 2/21/2024	CAT-1 ENG-1	20200254	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-2	Compressor Engine	Caterpillar	3612A4	BB200921	3750 hp	3750 hp	9/1/2023 2/29/2024	CAT-2 ENG-2	20200254	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-3	Compressor Engine	Caterpillar	3612A4	BB200929	3750 hp	3750 hp	10/1/2023 3/11/2024	CAT-3 ENG-3	20200254	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-4	Compressor Engine	Waukesha	16V275GL	WAU-1680118	5000 hp	5000 hp	8/1/2023 1/30/2024	CAT-4 ENG-4	20200254	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-5	Compressor Engine	Waukesha	16V275GL	WAU-1680111	5000 hp	5000 hp	7/1/2023 2/8/2024	CAT-5 ENG-5	20200254	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-6	Compressor Engine	Caterpillar	3612A4	BB200930	3750 hp	3750 hp	10/1/2023 3/28/2024	CAT-6 ENG-6	20200254	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-7	Compressor Engine	Caterpillar	3612A4	TBD	3750 hp	3750 hp	10/1/2023 3/28/2024	CAT-6 ENG-6	20200254	☐ Existing (unchanged) ☑ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-8	Compressor Engine	Caterpillar	3612A4	TBD	3750 hp	3750 hp	10/1/2023 3/28/2024	CAT-6 ENG-6	20200254	☐ Existing (unchanged) ☑ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-7	Compressor Engine	Caterpillar	3616 A4 Gen 2	TBD	5500 hp	5500 hp	TBD TBD	CAT-7 ENG-7	20200254	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	N/A
ENG-8	Compressor Engine	Caterpillar	3616 A4 Gen 2	TBD	5500 hp	5500 hp	TBD TBD	CAT-8 ENG-8	20200254	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	N/A
GEN-1	Generator Engine	Taylor	TG400 21.9L	EZY0F903478	684 hp	684 hp	TBD TBD	N/A GEN-1	20200253	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	N/A
DEHY-1	TEG Glycol Dehydrator	TBD	TBD	TBD	170 MMSCFD	170 MMSCFD	TBD 1/31/2024	BTEX / ECD-2 ECD-2	31000301	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
RBL-1	Glycol Reboiler	TBD	TBD	TBD	2 MMBtu/hr	2 MMBtu/hr	TBD 1/31/2024	N/A RBL-1	31000228	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
TK-405	Oil Tank	TBD	Vertical Tank	TBD	210 bbl	210 bbl	9/1/2023 12/1/2023	ECD-1 ECD-1	40400313	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
TK-406	Oil Tank	TBD	Vertical Tank	TBD	210 bbl	210 bbl	9/1/2023 12/1/2023	ECD-1 ECD-1	40400313	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufact-urer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classi- fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
TK-406A	Condensate Tank	Pitts	Vertical Tank	2045	1000 bbl	1000 bbl	9/1/2023 12/1/2023	ECD-1 ECD-1	40400311	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
TK-406B	Condensate Tank	Pitts	Vertical Tank	2046	1000 bbl	1000 bbl	9/1/2023 12/1/2023	ECD-1 ECD-1	40400311	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
TK-406C	Produced Water Tank	Pitts	Vertical Tank	2047	1000 bbl	1000 bbl	9/1/2023 12/1/2023	ECD-1 ECD-1	40400315	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
TK-407	Gunbarrel Separator	Pitts	Vertical Tank	2044	750 bbl	750 bbl	9/1/2023 12/1/2023	ECD-1 ECD-1	31000503	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
ECD-1	Enclosed Combustion Unit	Cimarron	ECD48	TBD	109 MSCF/d	109 MSCF/d	TBD 12/1/2024	N/A ECD-1	30600903	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
ECD-2	Enclosed Combustion Unit 2	Cimarron	ECD48	24400E-001	109 MSCF/d	109 MSCF/d	2024 TBD	N/A ECD-2	30600903	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
LOAD-1	Condensate and Produced Water Loading	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	40600137	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
FUG	Fugitive Emissions	N/A	N/A	N/A	N/A	N/A	N/A 2/21/2024	N/A FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
COMP-1 FUG	Compressor 1 Fugitives	Ariel	2701	F-69691	N/A	N/A	9/1/2023 2/21/2024	N/A COMP-1 FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
COMP-2 FUG	Compressor 2 Fugitives	Ariel	2702	F-66793	N/A	N/A	10/1/2023 2/29/2024	N/A COMP-2 FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
COMP-3 FUG	Compressor 3 Fugitives	Ariel	2703	F-66802	N/A	N/A	10/1/2023 3/11/2024	N/A COMP-3 FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
COMP-4 FUG	Compressor 4 Fugitives	Ariel	2704	F-68478	N/A	N/A	8/1/2023 1/30/2024	N/A COMP-4 FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
COMP-5 FUG	Compressor 5 Fugitives	Ariel	2705	F-68711	N/A	N/A	9/1/2023 2/8/2024	N/A COMP-5 FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
COMP-6 FUG	Compressor 6 Fugitives	Ariel	2706	F-68944	N/A	N/A	10/1/2023 3/28/2024	N/A COMP-6 FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
COMP-7 FUG	Compressor 7 Fugitives	Ariel	TBD	TBD	N/A	N/A	TBD TBD	N/A COMP-7 FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
COMP-8 FUG	Compressor 8 Fugitives	Ariel	TBD	TBD	N/A	N/A	TBD TBD	N/A COMP-8 FUG	31088811	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
SSM	Start-up, Shutdown & Maintenance	N/A	N/A	N/A	N/A	N/A	N/A 2/21/2024	N/A SSM	31088811	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
M	Malfunction	N/A	N/A	N/A	N/A	N/A	N/A 2/21/2024	N/A M	30188811	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A

[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 Activities[1] (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 https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
HAUL	Haul Road	N/A	N/A N/A	N/A N/A	20.2.72.202.B.5 NMAC	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-408	Methanol Tank	TBD	TBD TBD	210 bbl	20.2.72.202.B.5 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-409	Coolant Tank	TBD	TBD TBD	210 bbl	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-TEG	TEG Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-OIL1	Oil Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-OIL2	Oil Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-OIL3	Oil Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-OIL4	Oil Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-AF1	Antifreeze Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-AF2	Antifreeze Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-AF3	Antifreeze Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-AF4	Antifreeze Tank	TBD	TBD TBD	1,000 gal	20.2.72.202.B.2 NMAC	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

[2] Specify date(s) required to determine regulatory applicability.

Table 2-C: Emissions Control Equipment

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

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s)[1]	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
CAT-1	Oxidation Catalyst	2/21/2024	CO, HCHO, VOC	ENG-1	CO = 86.9% VOC = 55.8% HCHO = 87.9%	Catalyst Spec Sheet
CAT-2	Oxidation Catalyst	2/29/2024	CO, HCHO, VOC	ENG-2		Catalyst Spec Sheet
CAT-3	Oxidation Catalyst	3/11/2024	CO, HCHO, VOC	ENG-3		Catalyst Spec Sheet
CAT-4	Oxidation Catalyst	1/30/2024	CO, HCHO, VOC	ENG-4	CO = 83.2% VOC = 51.0% HCHO = 91.8%	Catalyst Spec Sheet
CAT-5	Oxidation Catalyst	2/8/2024	CO, HCHO, VOC	ENG-5		Catalyst Spec Sheet
CAT-6	Oxidation Catalyst	3/28/2024	CO, HCHO, VOC	ENG-6	CO = 86.9% VOC = 55.8% HCHO = 87.9%	Catalyst Spec Sheet
CAT-7	Oxidation Catalyst	TBD	CO, HCHO	ENG-7	CO = 81.4% HCHO = 77.0%	Catalyst Spec Sheet
CAT-8	Oxidation Catalyst	TBD	CO, HCHO	ENG-8		Catalyst Spec Sheet
ECD-1	Vapor Combustor	12/1/2024	VOC, HAP	TK-406A through TK-407, Condensate and Produced Water Loading	98%	Engineering Estimate
ECD-2	Vapor Combustor	TBD	VOC, HAP	DEHY-1 Still Vent and Flash Tank	98%	Manufacturer Specs
VRU-1	Vapor Recovery Unit	2024	VOC, HAP	TK-406A through TK-407, Condensate and Produced Water Loading	95%	Engineering Estimate
BTEX	BTEX Condenser	TBD	VOC, HAP, BTEX	DEHY-1 Still Vent	VOC: 37.70% HAP: 59.45% BTEX: 63.03%	Emission Model (ProMax)

[1] List each control device on a separate line. For each control device, list all emission units controlled by the control device.

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

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

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

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
ENG-1	2.48	10.86	25.22	110.44	9.34	40.92	0.14	0.63	0.01	0.03	0.01	0.03	0.01	0.03	-	-	-	-
ENG-2	2.48	10.86	25.22	110.44	9.34	40.92	0.14	0.63	0.01	0.03	0.01	0.03	0.01	0.03	-	-	-	-
ENG-3	2.48	10.86	25.22	110.44	9.34	40.92	0.14	0.63	0.01	0.03	0.01	0.03	0.01	0.03	-	-	-	-
ENG-4	3.31	14.48	26.24	114.91	11.24	49.25	0.19	0.85	0.01	0.05	0.01	0.05	0.01	0.05	-	-	-	-
ENG-5	3.31	14.48	26.24	114.91	11.24	49.25	0.19	0.85	0.01	0.05	0.01	0.05	0.01	0.05	-	-	-	-
ENG-6	2.48	10.86	25.22	110.44	9.34	40.92	0.14	0.63	0.01	0.03	0.01	0.03	0.01	0.03	-	-	-	-
ENG-7	3.64	15.93	26.07	114.19	1.94	8.50	0.21	0.90	0.01	0.05	0.01	0.05	0.01	0.05	-	-	-	-
ENG-8	3.64	15.93	26.07	114.19	1.94	8.50	0.21	0.90	0.01	0.05	0.01	0.05	0.01	0.05	-	-	-	-
GEN-1	0.45	1.98	1.06	4.62	0.45	1.98	0.02	0.11	0.04	0.19	0.04	0.19	0.04	0.19	-	-	-	-
RBL-1	0.20	0.86	0.16	0.72	0.01	0.05	0.01	0.05	0.01	0.07	0.01	0.07	0.01	0.07	-	-	-	-
TK-405	-	-	-	-	*	0.75	-	-	-	-	-	-	-	-	-	-	-	-
TK-406	-	-	-	-	*	0.75	-	-	-	-	-	-	-	-	-	-	-	-
TK-406A	-	-	-	-	*	133.49	-	-	-	-	-	-	-	-	-	-	-	-
TK-406B	-	-	-	-	*	133.49	-	-	-	-	-	-	-	-	-	-	-	-
TK-406C	-	-	-	-	*	0.64	-	-	-	-	-	-	-	-	-	-	-	-
TK-407	-	-	-	-	*	1132.76	-	-	-	-	-	-	-	-	-	-	-	-
DEHY-1	-	-	-	-	217.08	950.80	-	-	-	-	-	-	-	-	-	-	-	-
ECD-1	0.0042	0.02	0.0084	0.04	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-
ECD-2	0.0042	0.02	0.0084	0.04	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-
LOAD-1	-	-	-	-	5.02	22.00	-	-	-	-	-	-	-	-	-	-	-	-
FUG	-	-	-	-	2.63	11.51	-	-	-	-	-	-	-	-	-	-	-	-
COMP-1 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-2 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-3 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-4 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-5 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-6 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-7 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
FUG	-	-	-	-	2.65	11.61	-	-	-	-	-	-	-	-	-	-	-	-
MALF	-	-	-	-	*	10.00	-	-	-	-	-	-	-	-	-	-	-	-
Totals	24.47	107.16	206.71	905.38	291.92	2690.48	1.40	6.15	0.13	0.59	0.13	0.59	0.13	0.59	0.00	0.00	0.00	0.00

[1]**Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5.

Table 2-E: Requested Allowable Emissions

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

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
ENG-1	2.48	10.86	3.31	14.48	4.13	18.11	0.14	0.63	0.01	0.03	0.01	0.03	0.01	0.03	-	-	-	-
ENG-2	2.48	10.86	3.31	14.48	4.13	18.11	0.14	0.63	0.01	0.03	0.01	0.03	0.01	0.03	-	-	-	-
ENG-3	2.48	10.86	3.31	14.48	4.13	18.11	0.14	0.63	0.01	0.03	0.01	0.03	0.01	0.03	-	-	-	-
ENG-4	3.31	14.48	4.41	19.31	5.51	24.14	0.19	0.85	0.01	0.05	0.01	0.05	0.01	0.05	-	-	-	-
ENG-5	3.31	14.48	4.41	19.31	5.51	24.14	0.19	0.85	0.01	0.05	0.01	0.05	0.01	0.05	-	-	-	-
ENG-6	2.48	10.86	3.31	14.48	4.13	18.11	0.14	0.63	0.01	0.03	0.01	0.03	0.01	0.03	-	-	-	-
ENG-7	3.64	15.93	4.85	21.24	4.85	21.24	0.21	0.90	0.01	0.05	0.01	0.05	0.01	0.05	-	-	-	-
ENG-8	3.64	15.93	4.85	21.24	4.85	21.24	0.21	0.90	0.01	0.05	0.01	0.05	0.01	0.05	-	-	-	-
GEN-1	0.45	1.98	1.06	4.62	0.45	1.98	0.02	0.11	0.04	0.19	0.04	0.19	0.04	0.19	-	-	-	-
RBL-1	0.20	0.86	0.16	0.72	0.01	0.05	0.01	0.05	0.01	0.07	0.01	0.07	0.01	0.07	-	-	-	-
TK-405	-	-	-	-	*	0.75	-	-	-	-	-	-	-	-	-	-	-	-
TK-406	-	-	-	-	*	0.75	-	-	-	-	-	-	-	-	-	-	-	-
TK-406A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-406B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-406C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-407	-	-	-	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-
DEHY-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ECD-1	1.07	4.70	2.14	9.37	0.32	1.42	0.00	0.00	-	-	-	-	-	-	-	-	-	-
ECD-2	0.27	1.18	0.54	2.36	1.94	8.51	0.00	0.00	-	-	-	-	-	-	-	-	-	-
LOAD-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FUG	-	-	-	-	*	11.51	-	-	-	-	-	-	-	-	-	-	-	-
COMP-1 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-2 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-3 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-4 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-5 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-6 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
COMP-7 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	-	-	-	-
FUG	-	-	-	-	2.65	11.61	-	-	-	-	-	-	-	-	-	-	-	-
MALF	-	-	-	-	*	10.00	-	-	-	-	-	-	-	-	-	-	-	-
Totals	25.80	113.00	35.65	156.13	42.98	211.26	1.40	6.15	0.13	0.59	0.13	0.59	0.13	0.59	-	-	-	-

[1] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5.

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

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

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

Unit No.	NOx		CO		VOC		SOx		PM[2]		PM10[2]		PM2.5[2]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
SSM	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-
Totals	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-

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

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

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

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

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

Stack No.	Serving Unit Number(s) from Table 2-A	NOx		CO		VOC		SOx		PM		PM10		PM2.5		☐ H_2S or ☐ Lead	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
N/A																	
Totals:																	

Table 2-H: Stack Exit Conditions

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

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H-Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
ENG-1	ENG-1	Vertical	No	28	820	399.14	-	-	127.05	2.00
ENG-2	ENG-2	Vertical	No	28	820	399.14	-	-	127.05	2.00
ENG-3	ENG-3	Vertical	No	28	820	399.14	-	-	127.05	2.00
ENG-4	ENG-4	Vertical	No	35	864	432.26	-	-	88.06	2.50
ENG-5	ENG-5	Vertical	No	35	864	432.26	-	-	88.06	2.50
ENG-6	ENG-6	Vertical	No	28	820	399.14	-	-	127.05	2.00
ENG-7	ENG-7	Vertical	No	28	790	521.62	-	-	166.04	2.00
ENG-8	ENG-8	Vertical	No	28	790	521.62	-	-	166.04	2.00
GEN-1	GEN-1	Vertical	No	10	1,382	39.20	-	-	49.92	1.00
RBL-1	RBL-1	Vertical	No	9	1,400	13.37	-	-	26.60	0.80
ECD-1	ECD-1	Vertical	No	25	1,400	32.46	-	-	2.58	4.00
ECD-2	ECD-2	Vertical	No	25	1,400	32.46	-	-	2.58	4.00

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

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

Stack No.	Unit No.(s)	Total HAPs		Formaldehyde ☑ HAP or ☐ TAP		Acetaldehyde ☑ 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		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	lb/hr	ton/yr	lb/hr	ton/yr
ENG-1	ENG-1	0.2	1.0	0.2	0.8	0.0	0.1												
ENG-2	ENG-2	0.2	1.0	0.2	0.8	0.0	0.1												
ENG-3	ENG-3	0.2	1.0	0.2	0.8	0.0	0.1												
ENG-4	ENG-4	0.3	1.3	0.3	1.1	0.0	0.1												
ENG-5	ENG-5	0.3	1.3	0.3	1.1	0.0	0.1												
ENG-6	ENG-6	0.2	1.0	0.2	0.8	0.0	0.1												
ENG-7	ENG-7	0.4	1.8	0.3	1.2	0.1	0.3												
ENG-8	ENG-8	0.4	1.8	0.3	1.2	0.1	0.3												
GEN-1	GEN-1	0.0	0.2	0.0	0.1	0.0	0.1												
RBL-1	RBL-1	0.0	0.0	0.0	0.0	-	-												
TK-405	TK-405	-	-	-	-	-	-												
TK-406	TK-406	-	-	-	-	-	-												
TK-406A	TK-406A	-	-	-	-	-	-												
TK-406B	TK-406B	-	-	-	-	-	-												
TK-406C	TK-406C	-	-	-	-	-	-												
TK-407	TK-407	-	-	-	-	-	-												
DEHY-1	DEHY-1	-	-	-	-	-	-												
ECD-1	ECD-1	0.0	0.1	-	-	-	-												
ECD-2	ECD-2	0.5	2.1	-	-	-	-												
LOAD-1	LOAD-1	-	-	-	-	-	-												
FUG	FUG	0.2	0.8	-	-	-	-	-	-										
COMP-1 FUG	COMP-1 FUG	0.0	0.0	-	-	-	-	-	-										
COMP-2 FUG	COMP-2 FUG	0.0	0.0	-	-	-	-	-	-										
COMP-3 FUG	COMP-3 FUG	0.0	0.0	-	-	-	-	-	-										
COMP-4 FUG	COMP-4 FUG	0.0	0.0	-	-	-	-	-	-										
COMP-5 FUG	COMP-5 FUG	0.0	0.0	-	-	-	-	-	-										
COMP-6 FUG	COMP-6 FUG	0.0	0.0	-	-	-	-	-	-										
COMP-7 FUG	COMP-7 FUG	0.0	0.0	-	-	-	-	-	-										
FUG	FUG	0.2	0.8	-	-	-	-												
SSM	SSM	*	1.0	-	-	-	-												
MALF	MALF	*	1.0	-	-	-	-												
Totals:		3.3	16.3	1.8	8.1	0.3	1.3												

Table 2-J: Fuel

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

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, …)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units				
			Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
ENG-1	Field Gas	Process Gas	1,020 Btu/scf	25000.00 scf/hr	219.00 MMscf/yr	2 gr S/100 scf	N/A
ENG-2	Field Gas	Process Gas	1,020 Btu/scf	25000.00 scf/hr	219.00 MMscf/yr	2 gr S/100 scf	N/A
ENG-3	Field Gas	Process Gas	1,020 Btu/scf	25000.00 scf/hr	219.00 MMscf/yr	2 gr S/100 scf	N/A
ENG-4	Field Gas	Process Gas	1,020 Btu/scf	33872.55 scf/hr	296.72 MMscf/yr	2 gr S/100 scf	N/A
ENG-5	Field Gas	Process Gas	1,020 Btu/scf	33872.55 scf/hr	296.72 MMscf/yr	2 gr S/100 scf	N/A
ENG-6	Field Gas	Process Gas	1,020 Btu/scf	25000.00 scf/hr	219.00 MMscf/yr	2 gr S/100 scf	N/A
ENG-7	Field Gas	Process Gas	1,020 Btu/scf	35,917.16 scf/hr	314.63 MMscf/yr	2 gr S/100 scf	N/A
ENG-8	Field Gas	Process Gas	1,020 Btu/scf	35,917.16 scf/hr	314.63 MMscf/yr	2 gr S/100 scf	N/A
GEN-1	Field Gas	Process Gas	1,020 Btu/scf	4,231.41 scf/hr	37.07 MMscf/yr	2 gr S/100 scf	N/A
RBL-1	Field Gas	Process Gas	1,020 Btu/scf	1960.78 scf/hr	17.18 MMscf/yr	2 gr S/100 scf	N/A
ECD-1	Field Gas	Process Gas	1,020 Btu/scf	30.00 scf/hr	0.26 MMscf/yr	2 gr S/100 scf	N/A
ECD-2	Field Gas	Process Gas	1,020 Btu/scf	30.00 scf/hr	0.26 MMscf/yr	2 gr S/100 scf	N/A

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

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

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
TK-405	40400313	Oil	Lube Oil	7.21	50.00	66.35	4.83	75.8	4.83
TK-406	40400313	Oil	Lube Oil	7.21	50.00	66.35	4.83	75.8	4.83
TK-406A	40400311	Condensate	Mixed Hydrocarbons	5.75	46.83	66.35	34.82	75.8	34.82
TK-406B	40400311	Condensate	Mixed Hydrocarbons	5.75	46.83	66.35	34.82	75.8	34.82
TK-406C	40400315	Produced Water	Water and Mixed Hydrocarbons	8.32	31.27	66.35	36.39	75.8	36.39

Table 2-L: Tank Data

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

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M^3)			Roof	Shell			
TK-405	12/1/2023	Oil	N/A	VFR	210	33	3.66	3.05	Dark Green	Dark Green	Average	70,560	8.00
TK-406	12/1/2023	Oil	N/A	VFR	210	33	3.66	3.05	Dark Green	Dark Green	Average	70,560	8.00
TK-406A	12/1/2023	Condensate	N/A	VFR	1,000	159	4.57	4.57	Dark Green	Dark Green	Good	7,665,000	91.25
TK-406B	12/1/2023	Condensate	N/A	VFR	1,000	159	4.57	4.57	Dark Green	Dark Green	Good	7,665,000	91.25
TK-406C	12/1/2023	Produced Water	N/A	VFR	1,000	159	3.66	3.05	Dark Green	Dark Green	Good	3,832,500	91.25

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

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

Note: 1.00 bbl = 0.159 M^3 = 42.0 gal

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

Material Processed				Material Produced			
Description	**Chemical Composition**	**Phase (Gas, Liquid, or Solid)**	**Quantity (specify units)**	**Description**	**Chemical Composition**	**Phase**	**Quantity (specify units)**
Field Gas	Mixed Hydrocanbons	Gas	170 MMscf/day	Condensate	Mixed Hydrocanbons	Liquid	500 bbl/day
				Prodcued Water	Water and Mixed Hydrocanbons	Liquid	250 bbl/day
				Sales Gas	Mixed Hydrocanbons	Gas	170 MMscf/day

Table 2-N: CEM Equipment

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

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

Table 2-O: Parametric Emissions Measurement Equipment

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

Unit No.	Parameter/Pollutant Measured	Location of Measurement	Unit of Measure	Acceptable Range	Frequency of Maintenance	Nature of Maintenance	Method of Recording	Averaging Time
N/A - No Parametric Emissions Measurement Equipment at this facility								

Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

		CO_2 ton/yr	N_2O ton/yr	CH_4 ton/yr	SF_6 ton/yr	PFC/HFC ton/yr[2]							**Total GHG** Mass Basis ton/yr[4]	**Total CO_2e** ton/yr[5]
Unit No.	**GWPs [1]**	**1**	**298**	**25**	**22,800**	**footnote 3**								
ENG-1	**mass GHG**	13,065.18	0.025	0.25	-	-							13,065.45	
	CO_2e	13,065.18	7.34	6.16	-	-								13,078.67
ENG-2	**mass GHG**	13,065.18	0.025	0.25	-	-							13,065.45	
	CO_2e	13,065.18	7.34	6.16	-	-								13,078.67
ENG-3	**mass GHG**	13,065.18	0.025	0.25	-	-							13,065.45	
	CO_2e	13,065.18	7.34	6.16	-	-								13,078.67
ENG-4	**mass GHG**	17,702.03	0.033	0.33	-	-							17,702.40	
	CO_2e	17,702.03	9.94	8.34	-	-								17,720.32
ENG-5	**mass GHG**	17,702.03	0.033	0.33	-	-							17,702.40	
	CO_2e	17,702.03	9.94	8.34	-	-								17,720.32
ENG-6	**mass GHG**	13,065.18	0.025	0.25	-	-							13,065.45	
	CO_2e	13,065.18	7.34	6.16	-	-								13,078.67
ENG-7	**mass GHG**	18,770.56	0.035	0.354	-	-							18,770.95	
	CO_2e	18,770.56	10.54	8.84	-	-								18,789.95
ENG-8	**mass GHG**	18,770.56	0.04	0.35	-	-							18,770.95	
	CO_2e	18,770.56	10.54	8.84	-	-								18,789.95
GEN-1	**mass GHG**	2,211.37	0.004	0.04	-	-							2,211.41	
	CO_2e	2,211.37	1.24	1.04	-	-								2,213.65
RBL-1	**mass GHG**	1,024.72	0.002	0.02	-	-							1,024.74	
	CO_2e	1,024.72	0.58	0.48	-	-								1,025.78
TK-405	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
TK-406	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
TK-406A	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
TK-406B	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
TK-406C	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
TK-407	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
DEHY-1	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
ECD-1	**mass GHG**	3,964.66	0.007	0.07	-	-							3,964.74	
	CO2e	3,964.66	2.23	1.87	-	-								3,968.75
ECD-2	**mass GHG**	984.71	0.002	0.02	-	-							984.73	
	CO2e	984.71	0.55	0.46	-	-								985.73
LOAD-1	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
FUG	**mass GHG**	-	-	-	-	-								
	CO2e	-	-	-	-	-								
SSM	**mass GHG**	-	-	-	-	-								
	CO_2e	-	-	-	-	-								
MALF	**mass GHG**	-	-	-	-	-								
	CO2e	-	-	-	-	-								
Total	**mass GHG**	133,391.34	0.25	2.51	-	-							133,394.11	
	CO_2e	133,391.34	74.92	62.85	-	-								133,529.11

[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] **CO_2e** means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

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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.

ONEOK, Inc. is submitting this application for an NSR permit modification pursuant to 20.2.72. This facility is located in Eddy County and currently is permitted under NSR 9896-M1 and Title V P-303. This facility is a compressor station. With this application, ONEOK, Inc. seeks to add a second generator engine (Source ID GEN-2), a second enclosed combustion device (Source ID ECD-2) to control the TEG glycol dehydrator waste gas streams, compressor fugitive components (Source IDs COMP-1 FUG, COMP-2 FUG, COMP-3 FUG, COMP-4 FUG, COMP-5 FUG, COMP-6 FUG, COMP-7 FUG, COMP-8 FUG), and update Facility emissions associated with recent extended gas and liquid analyses..

The Facility will consist of the following equipment and operations:

- Eight (8) Compressor Engines (Source IDs ENG-1 through ENG-8)
- Two (2) Generator Engines (Source ID GEN-1 and GEN-2)
- One (1) Dehydrator Unit (Source ID DEHY-1)
- One (1) Glycol Reboiler (Source ID RBL-1)
- One (1) 750-barrel (bbl) Gun Barrel Separator (Source ID TK-407)
- Two (2) 1,000-bbl Condensate Storage Tanks (Source IDs TK-406A, TK-406B)
- One (1) 1,000 bbl Produced Water Storage Tank (Source ID TK-406C)
- Truck Loading (Source ID LOAD-1)
- One (1) electric vapor recovery unit
- Two (2) enclosed combustion devices (Source IDs ECD-1, ECD-2)
- Two (2) 210-bbl Oil Tanks (Source IDs TK-405, TK-406)
- One (1) 210-bbl Methanol Tank (Source ID TK-408)
- One (1) 210-bbl Coolant Tank (Source ID TK-409)
- One (1) 1,000-gallon (gal) TEG Tank (Source ID TK-TEG)
- Four (4) 1,000-gallon (gal) Oil Tanks (Source IDs TK-OIL1, TK-OIL2, TK-OIL3, TK-OIL4)
- Four (4) 1,000-gallon (gal) Antifreeze Tanks (Source IDs TK-AF1, TK-AF2, TK-AF3, TK-AF4)
- Fugitive equipment components (Source IDs FUG, COMP-1 FUG, COMP-2 FUG, COMP-3 FUG, COMP-4 FUG, COMP-5 FUG, COMP-6 FUG, COMP-7 FUG, COMP-8 FUG)
- Unpaved Road Dust (Source ID HAUL)
- Startup, Shutdown & Maintenance (SSM) activities (Source ID SSM)
- Malfunction emissions (Source ID MALF)

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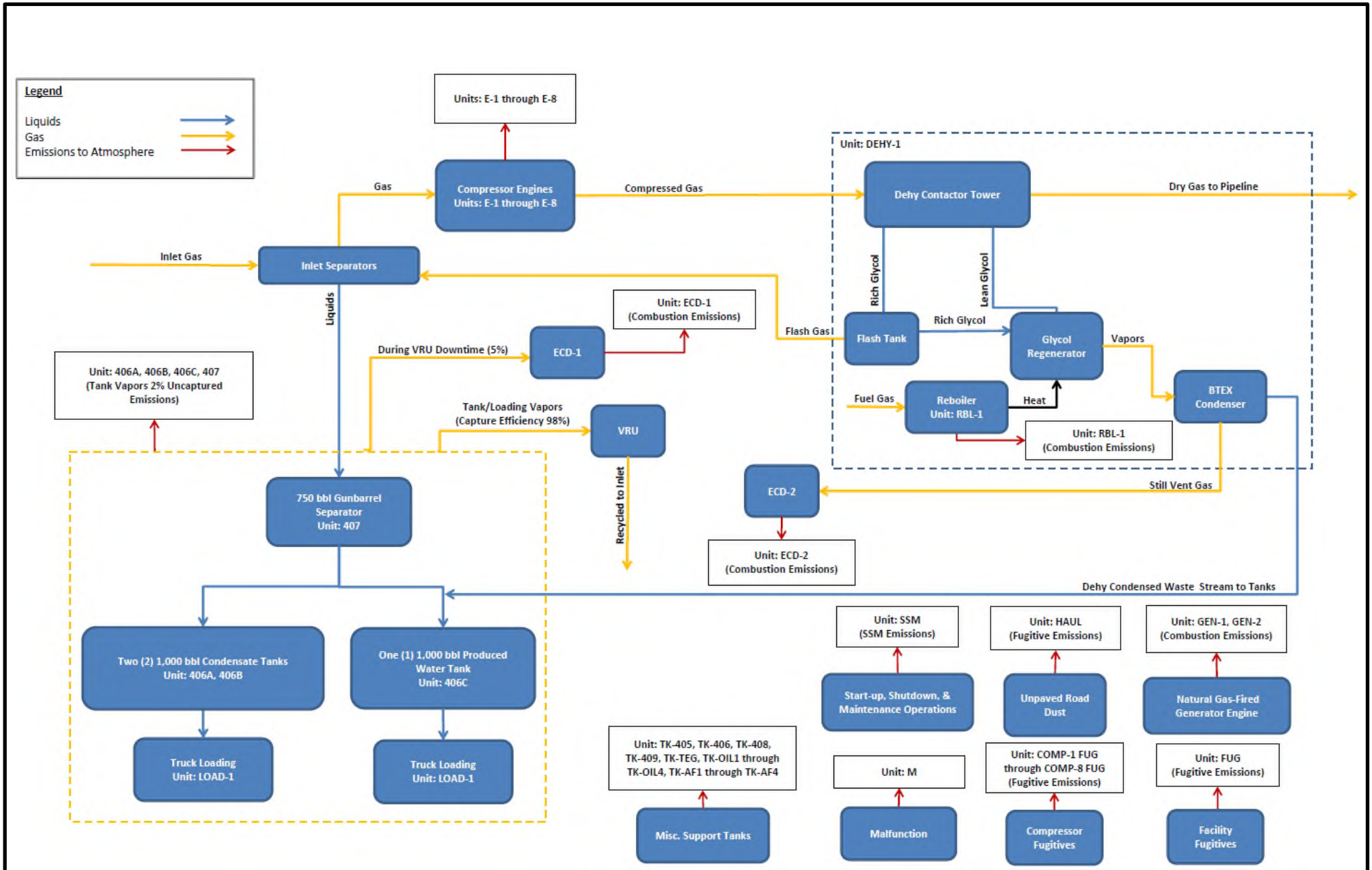
Section 4

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 diagram has been included in this section.

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RESOLUTE COMPLIANCE, LLC
Purposeful Solutions. Unwavering Service.

Reveille Compressor Station
ONEOK, Inc.
Eddy County, NM

Project No. Env-EnLink-0350
Report No. Reveille-NSR Mod
Date: August 2026

Process Flow Diagram

Section 4

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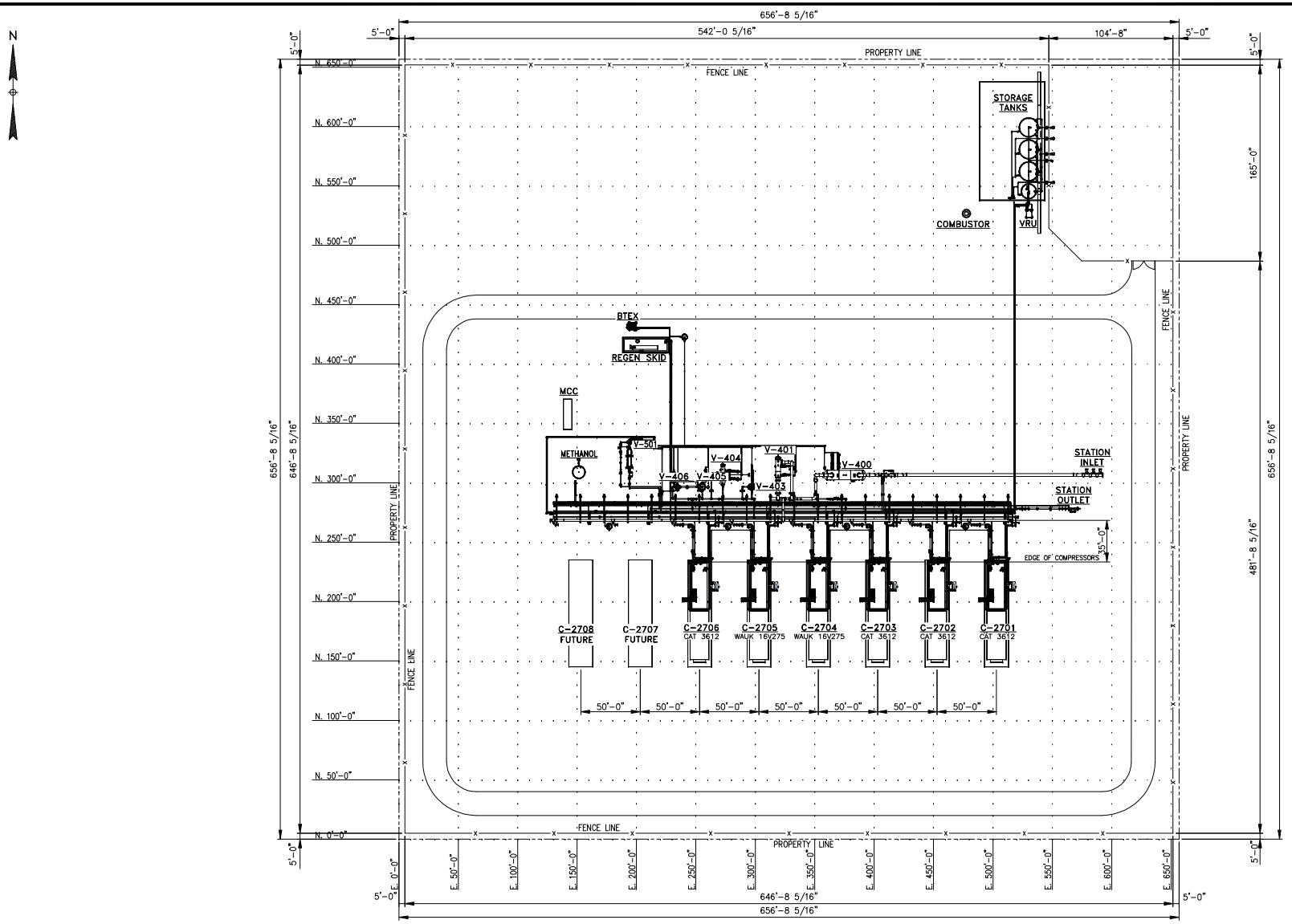
Section 5

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 plot plan has been included in this section.

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NOTES:
1. ALL DIMENSIONS TO BE VERIFIED PRIOR TO INSTALLATION
2. ALL UNDERGROUND PIPING TO BE FIELD VERIFIED PRIOR TO TRENCHING
3. NEOPRENE PADS TO BE INSTALLED BETWEEN ALL PIPING AND SUPPORTS
4. ALL UNDERGROUND PIPING TO HAVE 3'-0" OF COVER UNLESS NOTED OTHERWISE

REFERENCE DRAWINGS	
DWG. NO.	TITLE

REVISIONS				
NO.	DATE	DESCRIPTION	DRN	APD
A	6/30/23	FOR REVIEW	RAD	EB

CONFIDENTIAL

This drawing is the property and responsibility of Enlink Midstream. Any reproduction, copying or unauthorized use of this drawing or any part thereof without the expressed written consent of Enlink Midstream is prohibited.

DRAWING RECORD	
DRAWN: RAD	DATE: 3/15/2023
CHECKED:	DATE:
APPROVED: EB	DATE: 3/15/2023
AFE: 30013843	
SCALE: 1"=40'-0"	

ENLINK MIDSTREAM

TITLE: REVEILLE COMPRESSOR STATION
OVERALL PIPING PLAN

EDDY CO. NEW MEXICO

DWG. NO. D-13843-PP-100 REV. A

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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 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.

Waukesha 16V275GL Engines (Unit IDs: ENG-4, ENG-5)
NOX, CO, and VOC emission rates were calculated using manufacturer specifications. SO2 emissions are based on a conservative fuel sulfur content estimated of 2 gr S/100 scf and 100% conversion of elemental sulfur to SO2. Particulate (PM2.5, PM10, and PM) was calculated using EPA updated factors for NG (Roy Huntley EPA). HAP emissions were calculated using AP-42 Table 3.2-2. Greenhouse gas emissions are estimated using emission factors from 40 CFR 98 Subpart C Tables C-1 and C-2.

Caterpillar 3612A4 Engines (Unit IDs: ENG-1,2,3,6 through ENG-8)
NOX, CO, and VOC emission rates were calculated using manufacturer specifications. SO2 emissions are based on a conservative fuel sulfur context estimated of 2 gr S/100 scf and 100% conversion of elemental sulfur to SO2. Particulate (PM2.5, PM10, and PM) was calculated using EPA updated factors for NG (Roy Huntley EPA). HAP emissions were calculated using AP-42 Table 3.2-2. Greenhouse gas emissions are estimated using emission factors from 40 CFR 98 Subpart C Tables C-1 and C-2.

PSI 21.9L Generator (Unit ID: GEN-1)
NOX, CO, and VOC emission rates were calculated using manufacturer specifications. SO2 emissions are based on a conservative fuel sulfur context estimated of 2 gr S/100 scf and 100% conversion of elemental sulfur to SO2. Particulate (PM2.5, PM10, and PM) and HAP emissions were calculated using AP-42 Table 3.2-2. Greenhouse gas emissions are estimated using emission factors from 40 CFR 98 Subpart C Tables C-1 and C-2. GEN-1 and GEN-2 will never operate at the same time, but both have the potential to operate 8,760 hours. The worst case emissions associated with GEN-1 are reported for this purpose.

Aggreko Generator (Unit ID: GEN-2)
NOX, CO, and VOC emission rates were calculated using manufacturer specifications. SO2 emissions are based on a conservative fuel sulfur context estimated of 2 gr S/100 scf and 100% conversion of elemental sulfur to SO2. Particulate (PM2.5, PM10, and PM) and HAP emissions were calculated using AP-42 Table 3.2-2. Greenhouse gas emissions are estimated using emission factors from 40 CFR 98 Subpart C Tables C-1 and C-2. GEN-1 and GEN-2 will never operate at the same time, but both have the potential to operate 8,760 hours. The worst-case emissions associated with GEN-1 are reported for this purpose. GEN-2 emission calculations have been included for reference.

Glycol Dehydrator (Unit ID: DEHY-1)
Glycol dehydrator emissions were calculated using BR&E Promax and an extended gas analysis. Flash tank emissions are sent to an enclosed combustion device (ECD-2) with 98% DRE. The still column is sent to BTEX condenser , BTEX non-condensable is sent to ECD-2 with 98% DRE.

Gunbarrel Tank (Unit ID: TK-407)
Gunbarrel emissions were estimated using BR&E ProMax. Flash, working and standing emissions are controlled by a VRU with an assumed 5% downtime.

Storage Tanks (Unit IDs: TK-406A through TK-406C)
Condensate storage tanks (Unit IDs: TK-406A and TK-406B) and produced water tanks (Unit IDs: TK-406C) emissions were estimated using BR&E ProMax. Flash, working and standing emissions from these tanks are controlled by a VRU with an assumed 5% downtime.

Enclosed Combustor Devices (Unit IDs: ECD-1, ECD-2)
NOX and CO emissions were calculated using TNRCC RG-109. VOCs and HAPs emissions were estimated based on the gas analysis and with manufacturer specification of 98% combustion efficiency. Pilot SO2 emissions are based on a conservative

fuel sulfur content estimated of 2 gr S/100 scf and 100% conversion of elemental sulfur to SO2. Process emissions were calculated assuming 98% combustion efficiency. Greenhouse gas emissions are estimated using emission factors from 40 CFR Part 98 Subpart C Table C-01 and C-02.

Fugitive Emissions (Unit ID: FUG COMP-1 FUG, COMP-2 FUG, COMP-3 FUG, COMP-4 FUG, COMP-5 FUG, COMP-6 FUG, COMP-7 FUG, COMP-8 FUG)
Fugitive emission calculations were completed using emission factors from Table 2-4 of EPA Protocol for Equipment Leak Emission Estimates, 1995, and weight percent of gas and liquid components from gas and liquid streams generated in a BR&E ProMax simulation. Subcomponent counts for each subcomponent are based on estimated average component counts for each piece of equipment.

Condensate Loading Emissions (Unit ID: LOAD-1)
ProMax was used to perform the loading emission for condensate.

Reboiler (Unit ID: RBL-1)
NOX, CO, VOCs and PM were estimated using AP-42 Table 1.4-1 & 1.4-2 with adjusted emission factor. HAPs were calculated using adjusted emission rates from AP-42 Table 1.4-3. SO2 emissions were calculated with a conservative assumption of 2 gr S/100 scf and 100% conversion of elemental sulfur to SO2. Greenhouse gas emissions are estimated using emission factors from 40 CFR Part 98 Subpart C Table C-01 and C-02.

Unpaved Haul Road (Unit ID: HAUL)
PM10 and PM2.5 emissions were estimated based on the condensate loadout design basis and using equations 1a & 2 from AP-42 Section 13.2.2. Emissions factors were used from AP-42 Table 13.2.2-2.

Exempt Storage Tanks:

Methanol Storage Tank (Unit ID: TK-408)
The 210 bbl Methanol Storage Tank (TK-408) is exempt pursuant to 20.2.72.202.B.(5) NMAC. Emissions were calculated using BR&E ProMax.

Coolant Tank (Unit ID TK-409)
The single 210-bbl Coolant Tank (TK-409) is exempt pursuant to 20.2.72.202.B.(2) NMAC.

TEG Storage Tank (Unit ID TK-TEG)
The single 1,000-gallon TEG Storage Tank (TK-TEG) is exempt pursuant to 20.2.72.202.B.(2) NMAC.

Lube Oil Storage Tanks (Unit IDs TK-OIL1, TK-OIL2, TK-OIL3, TK-OIL4)
The four (4) 1,000-gallon Lube Oil Storage Tanks (TK-OIL1, TK-OIL2, TK-OIL3, TK-OIL4) are exempt pursuant to 20.2.72.202.B.(2) NMAC.

Antifreeze Tanks (Unit IDs TK-AF1, TK-AF2, TK-AF3, TK-AF4)
The four (4) 1,000-gallon Antifreeze Tanks are exempt pursuant to 20.2.72.202.B.(2) NMAC.

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC) applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO_2), nitrous oxide (N_2O), methane (CH_4), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).

Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO_2e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO_2e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO_2e 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 CO_2 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)

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ONEOK, Inc. - Reveille Compressor Station

Emissions Summary

Emission Unit: All

Source Description: ONEOK, Inc. - Reveille Compressor Station - Maximum Uncontrolled and Controlled Emissions

Maximum Uncontrolled Emissions

Unit	NO_x		CO		VOC		SO_2		PM_{10}		$PM_{2.5}$		H_2S		Total HAP	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
ENG-1	2.48	10.86	25.22	110.44	9.34	40.92	0.14	0.63	0.01	0.03	0.01	0.03	-	-	1.94	8.51
ENG-2	2.48	10.86	25.22	110.44	9.34	40.92	0.14	0.63	0.01	0.03	0.01	0.03	-	-	1.94	8.51
ENG-3	2.48	10.86	25.22	110.44	9.34	40.92	0.14	0.63	0.01	0.03	0.01	0.03	-	-	1.94	8.51
ENG-4	3.31	14.48	26.24	114.91	11.24	49.25	0.19	0.85	0.01	0.05	0.01	0.05	-	-	3.59	15.72
ENG-5	3.31	14.48	26.24	114.91	11.24	49.25	0.19	0.85	0.01	0.05	0.01	0.05	-	-	3.59	15.72
ENG-6	2.48	10.86	25.22	110.44	9.34	40.92	0.14	0.63	0.01	0.03	0.01	0.03	-	-	1.94	8.51
ENG-7	3.64	15.93	26.07	114.19	1.94	8.50	0.21	0.90	0.01	0.05	0.01	0.05	-	-	1.75	7.65
ENG-8	3.64	15.93	26.07	114.19	1.94	8.50	0.21	0.90	0.01	0.05	0.01	0.05	-	-	1.75	7.65
GEN-1*	0.45	1.98	1.06	4.62	0.45	1.98	0.02	0.11	0.04	0.19	0.04	0.19	-	-	0.12	0.53
RBL-1	0.20	0.86	0.16	0.72	0.011	0.047	0.011	0.049	0.015	0.065	0.015	0.065	-	-	0.0037	0.016
TK-405	-	-	-	-	*	0.747	-	-	-	-	-	-	-	-	-	-
TK-406	-	-	-	-	*	0.747	-	-	-	-	-	-	-	-	-	-
TK-406A[1]	-	-	-	-	*	133.49	-	-	-	-	-	-	-	-	*	5.56
TK-406B[1]	-	-	-	-	*	133.49	-	-	-	-	-	-	-	-	*	5.56
TK-406C[1]	-	-	-	-	*	0.645	-	-	-	-	-	-	-	-	*	0.173
TK-407[1]	-	-	-	-	*	1132.76	-	-	-	-	-	-	-	-	*	53.29
DEHY-1[2]	-	-	-	-	217.08	950.80	-	-	-	-	-	-	-	-	60.91	266.79
ECD-1	0.0042	0.018	0.0084	0.037	-	-	1.71E-04	7.51E-04	-	-	-	-	-	-	-	-
ECD-2	0.0042	0.018	0.0084	0.037	-	-	1.71E-04	7.51E-04	-	-	-	-	-	-	-	-
LOAD-1[3]	-	-	-	-	5.02	22.00	-	-	-	-	-	-	-	-	0.21	0.90
FUG	-	-	-	-	2.65	11.61	-	-	-	-	-	-	-	-	0.19	0.85
COMP-1 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004
COMP-2 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004
COMP-3 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004
COMP-4 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004
COMP-5 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004
COMP-6 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004
COMP-7 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004
COMP-8 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004
SSM	-	-	-	-	*	10.00	-	-	-	-	-	-	-	-	*	1.00
MALF	-	-	-	-	*	10.00	-	-	-	-	-	-	-	-	*	1.00
Totals	***24.47***	***107.16***	***206.71***	***905.38***	***289.34***	***2689.18***	***1.40***	***6.15***	***0.13***	***0.59***	***0.13***	***0.59***	***0.000***	***0.00***	*******	***416.47***

Maximum Controlled Emissions

Unit	NO_x		CO		VOC		SO_2		PM_{10}		$PM_{2.5}$		H_2S		Total HAP		Formaldehyde	
	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
ENG-1	2.48	10.86	3.31	14.48	4.13	18.11	0.14	0.63	0.01	0.03	0.01	0.03	-	-	0.23	1.03	0.19	0.83
ENG-2	2.48	10.86	3.31	14.48	4.13	18.11	0.14	0.63	0.01	0.03	0.01	0.03	-	-	0.23	1.03	0.19	0.83
ENG-3	2.48	10.86	3.31	14.48	4.13	18.11	0.14	0.63	0.01	0.03	0.01	0.03	-	-	0.23	1.03	0.19	0.83
ENG-4	3.31	14.48	4.41	19.31	5.51	24.14	0.19	0.85	0.01	0.05	0.01	0.05	-	-	0.29	1.29	0.25	1.11
ENG-5	3.31	14.48	4.41	19.31	5.51	24.14	0.19	0.85	0.01	0.05	0.01	0.05	-	-	0.29	1.29	0.25	1.11
ENG-6	2.48	10.86	3.31	14.48	4.13	18.11	0.14	0.63	0.01	0.03	0.01	0.03	-	-	0.23	1.03	0.19	0.83
ENG-7	3.64	15.93	4.85	21.24	4.85	21.24	0.21	0.90	0.01	0.05	0.01	0.05	-	-	0.40	1.76	0.28	1.22
ENG-8	3.64	15.93	4.85	21.24	4.85	21.24	0.21	0.90	0.01	0.05	0.01	0.05	-	-	0.40	1.76	0.28	1.22
GEN-1*	0.45	1.98	1.06	4.62	0.45	1.98	0.02	0.11	0.04	0.19	0.04	0.19	-	-	0.05	0.21	0.02	0.07
RBL-1	0.20	0.86	0.16	0.72	0.011	0.047	0.011	0.049	0.015	0.065	0.015	0.065	-	-	0.0037	0.016	1.47E-04	6.44E-04
TK-405	-	-	-	-	*	0.747	-	-	-	-	-	-	-	-	-	-	-	-
TK-406	-	-	-	-	*	0.747	-	-	-	-	-	-	-	-	-	-	-	-
TK-406A[1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-406B[1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-406C[1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-407[1]	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-
DEHY-1[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ECD-1	1.07	4.70	2.14	9.37	0.325	1.42	1.71E-04	7.51E-04	-	-	-	-	-	-	0.0149	0.065	-	-
ECD-2	0.27	1.18	0.54	2.36	1.944	8.51	1.71E-04	7.51E-04	-	-	-	-	-	-	0.4803	2.104		
LOAD-1[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FUG	-	-	-	-	2.65	11.61	-	-	-	-	-	-	-	-	0.19	0.85	-	-
COMP-1 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004	-	-
COMP-2 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004	-	-
COMP-3 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004	-	-
COMP-4 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004	-	-
COMP-5 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004	-	-
COMP-6 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004	-	-
COMP-7 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004	-	-
COMP-8 FUG	-	-	-	-	0.05	0.21	-	-	-	-	-	-	-	-	0.001	0.004	-	-
SSM	-	-	-	-	*	10.00	-	-	-	-	-	-	-	-	*	1.00	-	-
MALF	-	-	-	-	*	10.00	-	-	-	-	-	-	-	-	*	1.00	-	-
Totals	***25.80***	***113.00***	***35.65***	***156.13***	***43.03***	***209.97***	***1.40***	***6.15***	***0.13***	***0.59***	***0.13***	***0.59***	***0.00***	***0.00***	***3.08***	***15.48***	*******	***8.06***
Total Without Fugitives	***25.80***	***113.00***	***35.65***	***156.13***	***39.99***	***196.65***	***1.40***	***6.15***	***0.13***	***0.59***	***0.13***	***0.59***	***0.00***	***0.00***	***2.88***	***14.60***	***1.84***	***8.06***

"*" Indicates that an hourly limit is not appropriate for this operating situation and is not being requested.

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

[1] The enclosed combustion unit controls TK-406A through TK-407 during VRU downtime with an assumed 95% DRE for VOC and HAPs.

[2] Flash tank emissions are sent to station suction, still column to BTEX, BTEX non-condensables are sent to enclosed combustion unit ECD-2.

[3] Emissions from truck loadout of condensate and PW are vapor-balanced back to their respective storage tanks and vented to enclosed combustion unit ECD-1.

*GEN-1 and GEN-2 will never operate at the same time, but both have the potential to operate 8,760 hours. The worst case emissions associated with **GEN-1** are reported on the summary tables.

ONEOK, Inc. - Reveille Compressor Station

Emission Calculation Inputs

Site-Wide		
Description	**Value**	**Unit**
Gas Throughput	170	MMscf/day
Annual Operating Hours	8,760	hr
Daily Operating Hours	24	hr
Site Elevation	3,037	ft MSL
Fuel Heat Value	1,020.0	Btu/scf

Condensate Storage Tanks			
	Value	**Unit**	**Notes**
Unit:	1000 bbl Condensate Tanks		
Number of Tanks	2		Facility Design
Volume	1,000	bbl	Facility Design
Height (Shell)	30	ft	Typical Design
Diameter	15	ft	Typical Design
Facility Throughput	500.00	bbl/day	Facility Design

Gunbarrel Separators			
Description	**Value**	**Unit**	**Notes**
Number of Tanks	1		Facility Design
Volume	750	bbl	Facility Design
Height (Shell)	35	ft	Typical Design
Diameter	12	ft	Typical Design
Facility Throughput	750	bbl/day	Facility Design

Produced Water Storage Tanks			
Description	**Value**	**Unit**	**Notes**
Number of Tanks	1		Facility Design
Volume	1,000	bbl	Facility Design
Height (Shell)	20	ft	Typical Design
Diameter	12	ft	Typical Design
Facility Throughput	250	bbl/day	Facility Design

Methanol Storage Tanks			
Description	**Value**	**Unit**	**Notes**
Number of Tanks	1		Facility Design
Volume	210	bbl	Facility Design
Height (Shell)	20	ft	Typical Design
Diameter	12	ft	Typical Design
Facility Throughput	2.38	bbl/day	Facility Design

Oil Storage Tanks			
Description	**Value**	**Unit**	**Notes**
Number of Tanks	2		Facility Design
Volume	210	bbl	Facility Design
Height (Shell)	20	ft	Typical Design
Diameter	12	ft	Typical Design
Facility Throughput	4.60	bbl/day	Facility Design

Coolant Storage Tank			
Description	**Value**	**Unit**	**Notes**
Number of Tanks	1		Facility Design
Volume	210	bbl	Facility Design
Height (Shell)	20	ft	Typical Design
Diameter	12	ft	Typical Design
Facility Throughput	4.60	bbl/day	Facility Design

Oil Storage Tanks			
Description	**Value**	**Unit**	**Notes**
Number of Tanks	4		Facility Design
Volume	1,000	gal	Facility Design
Height (Shell)	12	ft	Typical Design
Diameter	3.791	ft	Typical Design
Facility Throughput	2.09	bbl/day	Facility Design

Antifreeze Storage Tanks			
Description	**Value**	**Unit**	**Notes**
Number of Tanks	4		Facility Design
Volume	1,000	gal	Facility Design
Height (Shell)	12	ft	Typical Design
Diameter	3.791	ft	Typical Design
Facility Throughput	2.09	bbl/day	Facility Design

TEG Storage Tank			
Description	**Value**	**Unit**	**Notes**
Number of Tanks	1		Facility Design
Volume	1,000	gal	Facility Design
Height (Shell)	12	ft	Typical Design
Diameter	3.791	ft	Typical Design
Facility Throughput	0.52	bbl/day	Facility Design

Heated Separators Input Information			
Unit:	RBL-1		
Description:	DEHY Reboiler		
Heat input:	2.00	MMBtu/hr	Estimated heat input for two identical units (1.0 each)
Fuel heat value:	1,020	Btu/scf	Estimated heating value
Fuel sulfur content:	2	gr/100scf	Estimated for sweet field gas
Operating hours:	8760	hours/year	
Fuel Usage:	1960.8	scf/hr	

Engine Input Information			
Unit:	ENG-4, ENG-5		
Description:	Waukesha 16V275GL Compressor Engine		
Rating:	5000.0	hp	Manufacturer Specifications
Fuel heat value:	1,020	Btu/scf	Estimated heating value
Operating hours:	8760	hours/year	
Fuel Usage:	33872.5	scf/hr	
Unit:	ENG-1 thru ENG-3, ENG-6 thru ENG-8		
Description:	Caterpillar 3612A4 Compressor Engine		
Rating:	3750.0	hp	Manufacturer Specifications
Fuel heat value:	1,020	Btu/scf	Estimated heating value
Operating hours:	8760	hours/year	
Fuel Usage:	25000.0	scf/hr	
Unit:	ENG-7, ENG-8		
Description:	Caterpillar 3616 A4 Gen 2 Compressor Engine		
Rating:	5500.0	hp	Manufacturer Specifications
Fuel heat value:	1,020	Btu/scf	Estimated heating value
Operating hours:	8760	hours/year	
Fuel Usage:	35917.2	scf/hr	
Unit:	GEN-1		
Description:	Taylor TG400		
Rating:	684.0	hp	Manufacturer Specifications
Fuel heat value:	1,020	Btu/scf	Estimated heating value
Operating hours:	8760	hours/year	
Fuel Usage:	4231.4	scf/hr	
Unit:	GEN-2		
Description:	Aggreko H24SSE		
Rating:	530.0	hp	Manufacturer Specifications
Fuel heat value:	1,020	Btu/scf	Estimated heating value
Operating hours:	8760	hours/year	
Fuel Usage:	4416.7	scf/hr	

ONEOK, Inc. - Reveille Compressor Station

Compressor Engine Emissions

Unit:	ENG-4 through ENG-5		
Model:	Waukesha 16V275GL Compressor Engine		4SLB
	5000	hp	Mfg. specs
Fuel Consumption:	6910	Btu/hp-hr	Mfg. specs
Fuel Heating Value:	1020.00	Btu/scf	Facility Specific
Daily Fuel Usage:	812941	scf/day	Calculated
Hourly Fuel Usage:	33873	scf/hr	Hourly Fuel Consumption
Annual Fuel Usage:	296.72	MMscf/yr	Calculated

Uncontrolled Emissions

	NO_x[1]	CO[1]	VOC[1]	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	2.38	1.02			0.28								g/hp-hr
					3.10E-04		0.00836	0.00514	0.00044	0.0000397	0.000408	0.000184		lb/MMBtu
				0.020										gr/scf
Hourly Totals	3.31	26.24	11.24	0.19	1.07E-02	3.09	2.89E-01	1.78E-01	1.52E-02	1.37E-03	1.41E-02	6.36E-03	3.59	lb/hr
Annual Totals	14.48	114.91	49.25	0.85	4.69E-02	13.52	1.27E+00	7.78E-01	6.66E-02	6.01E-03	6.17E-02	2.78E-02	15.72	ton/yr

Controlled Emissions

	NO_x	CO	VOC	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	0.40	0.50			0.023								g/hp-hr
Percent Reduction	0%	83%	51%			92%	92%	92%	92%	92%	92%	92%		
					3.10E-04		0.00067	0.00041	0.00004	3.18E-06	0.00003	0.00001		lb/MMBtu
				0.020										gr/scf
Hourly Totals	3.31	4.41	5.51	0.194	1.07E-02	0.25	2.31E-02	1.42E-02	1.22E-03	1.10E-04	1.13E-03	5.09E-04	0.29	lb/hr
Annual Totals	14.48	19.31	24.14	0.85	4.69E-02	1.11	1.01E-01	6.22E-02	5.33E-03	4.81E-04	4.94E-03	2.23E-03	1.29	ton/yr

GHG Calculations

	CO_2[5]	N_2O[5]	CH_4[5]	CO_2e[5]		
	53.06	0.0001	0.001		kg/MMBtu	40 CFR 98 Subpart Tables
	1	298	25		GWP	40 CFR 98 Table A-1
	17702.03	0.03	0.33	17702.40	tpy	
	17702.03	9.94	8.34	17720.32	tpy CO2e	

Notes

[1] Emissions factors are referenced from the catalyst spec sheet 04/18/2023.

[2] SO_2 is calculated based on the default fuel sulfur content from AECT of 0.02 grains total sulfur per scf.

[3] Assumes $PM_{10} = PM_{2.5}$ (condensable and filterable particulate). PM emission factor from EPA spreadsheet "Final table with Natural Gas Adjustment factors Nov 21 2006.xls

[4] HAPs emissions factors are referenced from AP-42 Table 3.2-2.
HAPs include: Formaldehyde, Acetaldehyde, Acrolein, Benzene, Ethylbenzene, N-Hexane, Toluene, and Xylene
HAP emission factors were adjusted using the heat value of gas from site and standard 1020 Btu/scf

[5] N_2O, CH_4, and CO_2 tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value *2.20462 lb/kg * 1 ton/2000 lb
CO_2e tpy Emission Rate = CO_2 Emission Rate + N_2O Emission Rate * GWP Factor + CH_4 Emission Rate * GWP Factor

ONEOK, Inc. - Reveille Compressor Station

Compressor Engine Emissions

Unit:	ENG-1 thru ENG-3, ENG-6		
Model:	Caterpillar 3612A4	4SLB	
	3750	hp	Mfg. specs
Fuel Consumption:	6800	Btu/hp-hr	Mfg. specs
Fuel Heating Value:	1020.00	Btu/scf	Facility Specific
Daily Fuel Usage:	600000	scf/day	Calculated
Hourly Fuel Usage:	25000	scf/hr	Hourly Fuel Consumption
Annual Fuel Usage:	219.00	MMscf/yr	Calculated

Uncontrolled Emissions

	NO_x[1]	CO[1]	VOC[1]	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	3.05	1.13			0.19								g/hp-hr
					3.10E-04		0.00836	0.00514	0.00044	0.0000397	0.000408	0.000184		lb/MMBtu
				0.020										gr/scf
Hourly Totals	2.48	25.22	9.34	0.14	0.01	1.57	0.21	0.13	0.011	0.0010	0.010	0.0047	1.94	lb/hr
Annual Totals	10.86	110.44	40.92	0.63	0.03	6.88	0.93	0.57	0.049	0.0044	0.046	0.021	8.51	ton/yr

Controlled Emissions

	NO_x	CO	VOC	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	0.40	0.50			0.023								g/hp-hr
Percent Reduction	0%	87%	56%			88%	88%	88%	88%	88%	88%	88%		
					3.10E-04		0.00100	0.00062	0.00005	0.0000048	0.000049	0.000022		lb/MMBtu
				0.020										gr/scf
Hourly Totals	2.48	3.31	4.13	0.14	0.01	0.19	0.03	0.02	0.001	0.0001	0.001	0.0006	0.23	lb/hr
Annual Totals	10.86	14.48	18.11	0.63	0.03	0.83	0.11	0.07	0.006	0.0005	0.005	0.002	1.03	ton/yr

GHG Calculations

	CO_2[5]	N_2O[5]	CH_4[5]	CO_2e[5]		
	53.06	0.0001	0.001		kg/MMBtu	40 CFR 98 Subpart Tables
	1	298	25		GWP	40 CFR 98 Table A-1
	13065.18	0.02	0.25	13065.45	tpy	
	13065.18	7.34	6.16	13078.67	tpy CO2e	

Notes

[1] Emissions factors are referenced from the catalyst spec sheet 04/18/2023

[2] SO_2 is calculated based on the default fuel sulfur content from AECT of 0.02 grains total sulfur per scf.

[3] Assumes $PM_{10} = PM_{2.5}$ (condensable and filterable particulate). PM emission factor from EPA spreadsheet "Final table with Natural Gas Adjustment factors Nov 21 2006.xls

[4] HAPs emissions factors are referenced from AP-42 Table 3.2-2.
HAPs include: Formaldehyde, Acetaldehyde, Acrolein, Benzene, Ethylbenzene, N-Hexane, Toluene, and Xylene
HAP emission factors were adjusted using the heat value of gas from site and standard 1020 Btu/scf

[5] N_2O, CH_4, and CO_2 tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value *2.20462 lb/kg * 1 ton/2000 lb
CO_2e tpy Emission Rate = CO_2 Emission Rate + N_2O Emission Rate * GWP Factor + CH_4 Emission Rate * GWP Factor

ONEOK, Inc. - Reveille Compressor Station

Compressor Engine Emissions

Unit:	ENG-7, ENG-8		
Model:	Caterpillar 3616A4 Gen 2		4SLB
	5500	hp	Mfg. specs
Fuel Consumption:	6661	Btu/hp-hr	Mfg. specs
Fuel Heating Value:	1020.00	Btu/scf	Facility Specific
Daily Fuel Usage:	862012	scf/day	Calculated
Hourly Fuel Usage:	35917	scf/hr	Hourly Fuel Consumption
Annual Fuel Usage:	314.63	MMscf/yr	Calculated

Uncontrolled Emissions

	NO_x[1]	CO[1]	VOC[1]	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	2.15	0.16			0.10								g/hp-hr
					3.10E-04		0.00836	0.00514	0.00044	0.0000397	0.000408	0.000184		lb/MMBtu
				0.020										gr/scf
Hourly Totals	3.64	26.07	1.94	0.21	0.01	1.21	0.31	0.19	0.016	0.0015	0.015	0.0067	1.75	lb/hr
Annual Totals	15.93	114.19	8.50	0.90	0.05	5.31	1.34	0.82	0.071	0.0064	0.065	0.030	7.65	ton/yr

Controlled Emissions

	NO_x	CO	VOC	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	0.40	0.40			0.023								g/hp-hr
Percent Reduction	0%	81%	-150%			77%	77%	77%	77%	77%	77%	77%		
					3.10E-04		0.00192	0.00118	0.00010	0.0000091	0.000094	0.000042		lb/MMBtu
				0.020										gr/scf
Hourly Totals	3.64	4.85	4.85	0.21	0.01	0.28	0.07	0.04	0.004	0.0003	0.003	0.0016	0.40	lb/hr
Annual Totals	15.93	21.24	21.24	0.90	0.05	1.22	0.31	0.19	0.016	0.0015	0.015	0.007	1.76	ton/yr

GHG Calculations

	CO_2[5]	N_2O[5]	CH_4[5]	CO_2e[5]		
	53.06	0.0001	0.001		kg/MMBtu	40 CFR 98 Subpart Tables
	1	298	25		GWP	40 CFR 98 Table A-1
	18770.56	0.04	0.35	18770.95	tpy	
	18770.56	10.54	8.84	18789.95	tpy CO2e	

Notes

[1] Emissions factors are referenced from the catalyst spec sheet.

[2] SO_2 is calculated based on the default fuel sulfur content from AECT of 0.02 grains total sulfur per scf.

[3] Assumes $PM_{10} = PM_{2.5}$ (condensable and filterable particulate). PM emission factor from EPA spreadsheet "Final table with Natural Gas Adjustment factors Nov 21 2006.xls

[4] HAPs emissions factors are referenced from AP-42 Table 3.2-2.
HAPs include: Formaldehyde, Acetaldehyde, Acrolein, Benzene, Ethylbenzene, N-Hexane, Toluene, and Xylene
HAP emission factors were adjusted using the heat value of gas from site and standard 1020 Btu/scf

[5] N_2O, CH_4, and CO_2 tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value *2.20462 lb/kg * 1 ton/2000 lb
CO_2e tpy Emission Rate = CO_2 Emission Rate + N_2O Emission Rate * GWP Factor + CH_4 Emission Rate * GWP Factor

ONEOK, Inc. - Reveille Compressor Station

Generator Engine Emissions

Unit:	GEN-1		
Model:	Taylor TG400 21.9L		4SRB
	684	hp	Mfg. specs
Fuel Consumption:	6310	Btu/hp-hr	Mfg. specs
Fuel Heating Value:	1020.00	Btu/scf	Facility Specific
Daily Fuel Usage:	101554	scf/day	Calculated
Hourly Fuel Usage:	4231	scf/hr	Hourly Fuel Consumption
Annual Fuel Usage:	37.07	MMscf/yr	Calculated

Uncontrolled Emissions

	NO_x[1]	CO[1]	VOC[1]	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	0.70	0.30											g/hp-hr
					9.95E-03	0.0205	0.00279	0.00263	0.00158	0.0000248	0.000558	0.000195		lb/MMBtu
				0.020										gr/scf
Hourly Totals	0.45	1.06	0.45	0.02	4.29E-02	0.09	1.20E-02	1.14E-02	6.82E-03	1.07E-04	2.41E-03	8.42E-04	0.12	lb/hr
Annual Totals	1.98	4.62	1.98	0.11	1.88E-01	0.39	5.27E-02	4.97E-02	2.99E-02	4.69E-04	1.05E-02	3.69E-03	0.53	ton/yr

Controlled Emissions

	NO_x	CO	VOC	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	0.70	0.30			0.010								g/hp-hr
Percent Reduction	0%	0%	0%			83%								
					9.95E-03		0.00279	0.00263	0.00158	0.0000248	0.000558	0.000195		lb/MMBtu
				0.020										gr/scf
Hourly Totals	0.45	1.06	0.45	0.024	4.29E-02	0.015	1.20E-02	1.14E-02	6.82E-03	1.07E-04	2.41E-03	8.42E-04	0.05	lb/hr
Annual Totals	1.98	4.62	1.98	0.11	1.88E-01	0.07	5.27E-02	4.97E-02	2.99E-02	4.69E-04	1.05E-02	3.69E-03	0.21	ton/yr

GHG Calculations

	CO_2[5]	N_2O[5]	CH_4[5]	CO_2e[5]		
	53.06	0.0001	0.001		kg/MMBtu	40 CFR 98 Subpart Tables
	1	298	25		GWP	40 CFR 98 Table A-1
	2211.37	0.00	0.04	2211.41	tpy	
	2211.37	1.24	1.04	2213.65	tpy CO2e	

Notes

[1] Emissions factors are referenced from the EPA certification.

[2] SO_2 is calculated based on the default fuel sulfur content from AECT of 0.02 grains total sulfur per scf.

[3] Assumes PM_{10} = $PM_{2.5}$ (condensable and filterable particulate), referenced from AP-42 Table 3.2-3.

[4] HAPs emissions factors are referenced from AP-42 Table 3.2-3.
HAPs include: Formaldehyde, Acetaldehyde, Acrolein, Benzene, Ethylbenzene, N-Hexane, Toluene, and Xylene
HAP emission factors were adjusted using the heat value of gas from site and standard 1020 Btu/scf

[5] N_2O, CH_4, and CO_2 tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value *2.20462 lb/kg * 1 ton/2000 lb
CO_2e tpy Emission Rate = CO_2 Emission Rate + N_2O Emission Rate * GWP Factor + CH_4 Emission Rate * GWP Factor

ONEOK, Inc. - Reveille Compressor Station

Generator Engine Emissions

Unit:	GEN-2		
Model:	Aggreko - Waukesha H24SE-EPA		4SRB
	530	hp	Mfg. specs
Fuel Consumption:	8500	Btu/hp-hr	Mfg. specs
Fuel Heating Value:	1020.00	Btu/scf	Facility Specific
Daily Fuel Usage:	106000	scf/day	Calculated
Hourly Fuel Usage:	4417	scf/hr	Hourly Fuel Consumption
Annual Fuel Usage:	38.69	MMscf/yr	Calculated

Uncontrolled Emissions

	NO_x[1]	CO[1]	VOC[1]	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	0.70	0.30											g/hp-hr
					9.95E-03	0.0205	0.00279	0.00263	0.00158	0.0000248	0.000558	0.000195		lb/MMBtu
				0.020										gr/scf
Hourly Totals	0.35	0.82	0.35	0.03	4.48E-02	0.09	1.26E-02	1.18E-02	7.12E-03	1.12E-04	2.51E-03	8.78E-04	0.13	lb/hr
Annual Totals	1.54	3.58	1.54	0.11	1.96E-01	0.40	5.51E-02	5.19E-02	3.12E-02	4.89E-04	1.10E-02	3.85E-03	0.56	ton/yr

Controlled Emissions

	NO_x	CO	VOC	SO_2[2]	PM[3]	Formaldehyde[4]	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	E-Benzene[4]	Toluene[4]	Xylene[4]	Total HAP	Units
Emission Factors	0.30	0.70	0.30			0.010								g/hp-hr
Percent Reduction	0%	0%	0%			87%								
					9.95E-03		0.00279	0.00263	0.00158	0.0000248	0.000558	0.000195		lb/MMBtu
				0.020										gr/scf
Hourly Totals	0.35	0.82	0.35	0.025	4.48E-02	0.012	1.26E-02	1.18E-02	7.12E-03	1.12E-04	2.51E-03	8.78E-04	0.05	lb/hr
Annual Totals	1.54	3.58	1.54	0.11	1.96E-01	0.05	5.51E-02	5.19E-02	3.12E-02	4.89E-04	1.10E-02	3.85E-03	0.20	ton/yr

GHG Calculations

	CO_2[5]	N_2O[5]	CH_4[5]	CO_2e[5]		
	53.06	0.0001	0.001		kg/MMBtu	40 CFR 98 Subpart Tables
	1	298	25		GWP	40 CFR 98 Table A-1
	2308.18	0.00	0.04	2308.23	tpy	
	2308.18	1.30	1.09	2310.57	tpy CO2e	

Notes

[1] Emissions factors are referenced from the EPA certification.

[2] SO_2 is calculated based on the default fuel sulfur content from AECT of 0.02 grains total sulfur per scf.

[3] Assumes PM_{10} = $PM_{2.5}$ (condensable and filterable particulate), referenced from AP-42 Table 3.2-3.

[4] HAPs emissions factors are referenced from AP-42 Table 3.2-3.
HAPs include: Formaldehyde, Acetaldehyde, Acrolein, Benzene, Ethylbenzene, N-Hexane, Toluene, and Xylene
HAP emission factors were adjusted using the heat value of gas from site and standard 1020 Btu/scf

[5] N_2O, CH_4, and CO_2 tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value *2.20462 lb/kg * 1 ton/2000 lb
CO_2e tpy Emission Rate = CO_2 Emission Rate + N_2O Emission Rate * GWP Factor + CH_4 Emission Rate * GWP Factor

ONEOK, Inc. - Reveille Compressor Station
Reboiler

Heater Input Information			
Unit(s):	RBL-1		
Description:	2 MMBtu/hr Heaters		
Heat input:	2.00	MMBtu/hr	Estimated heat input
Fuel heat value:	1,020	Btu/scf	
Fuel sulfur content:	2.0	gr S/100scf	Estimated for field gas
Operating hours:	8,760	hours/year	
Fuel Usage:	1,961	scf/hr	
	17.2	MMscf/yr	

Criteria Pollutant Emission Rates per Unit							
	NO_x	CO	VOC	SO_2[1]	PM^2	Units	Notes
Emission Factors	100	84	5.5	-	7.6	lb/MMscf	AP-42 Table 1.4-1 & 2
	100.0	84.0	5.5	-	7.6	lb/MMscf	Adjusted EF, per footnote a in Tables 1.4-1 and 1.4-2
Emissions	0.20	0.16	0.011	0.011	0.015	lb/hr[3]	
	0.86	0.72	0.047	0.049	0.065	tons/year[4]	

HAP Emission Rates per Unit							
	Hexane	Benzene	Toluene	HCHO	Total HAPs[5]	Units	Notes
Emission Factors	1.8	2.10E-03	3.40E-03	0.075	-	lb/MMscf	AP-42 Table 1.4-3
	1.8	2.10E-03	3.40E-03	7.50E-02	-	lb/MMscf	Adjusted EF, per footnote a in Table 1.4-3
Emissions	0.0035	4.12E-06	6.67E-06	1.47E-04	0.0037	lb/hr[3]	
	0.015	1.80E-05	2.92E-05	6.44E-04	0.016	tons/year[4]	

GHG Calculations						
	CO_2[6]	N_2O[6]	CH_4[6]	CO_2e[6]		
	53.06	0.0001	0.001		kg/MMBtu	40 CFR 98 Subpart Tables
	1	298	25		GWP	40 CFR 98 Table A-1
	1024.72	0.0019	0.019	1024.74	tpy	
	1024.72	0.58	0.48	1025.78	tpy CO2e	

[1] SO_2 emissions based on fuel sulfur content of 2 gr S/100 scf or 0.00286 lb S/Mscf
0.00286 lb S/Mscf*fuel consumption (Mscf/hr)*64 lb SO_2/32 lb S = lb SO_2/hr

[2] Assumes PM_{10} = $PM_{2.5}$

[3] lb/hr emissions calculated using the following methods:
Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

[4] For all non-HAP calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

[5] Total HAP emissions are the sum of all individual HAPs calculated.

[6] N2O, CH4, and CO2 tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value *2.20462 lb/kg * 1 ton/2000 lb
CO2e tpy Emission Rate = CO2 Emission Rate + N2O Emission Rate * GWP Factor + CH4 Emission Rate * GWP Factor

Parameters	Value	Unit	Note
Input heat rate	2.00	MMBtu/hr	Estimated
Fuel heat value	1,020	Btu/scf	Estimated, nominal
Fuel rate	1.96	Mscf/hr	Input heat rate / fuel heat value
Annual fuel usage	17.18	MMscf/yr	8760 actual hrs/yr operation

Parameters	Value	Unit	Note
Input heat rate	2.00	MMBtu/hr	
Exhaust temp	1,400	°F	Engineering Estimate
Stack height	9	ft	Engineering Estimate
Stack diameter	0.80	ft	Engineering Estimate
Exhaust flow (Actual)	802	acfm	Flow (acfm) = Flow (scfm) * (Stack Temp + 460) / 528 * 29.92 / Site Bar. Pres. / (100% - Moisture%)
Exhaust flow (Actual)	13.37	acfs	Flow (acfs) - Flow (acfm) / 60s/min
Exhaust velocity	26.60	ft/sec	Exhaust flow / stack area
O_2 F factor	8,710	dscf/MMBtu	Method 9
Moisture	10	%	Nominal
Exhaust flow (Dry)	556.7	dscfm	Flow (dscfm) = heat input * O2 F * [20.9 / (20.9 - O2%)]
O_2 %	10	%	
Site Elevation	3,037	ft MSL	
Pressure at Elevation	26.78	in Hg	

ONEOK, Inc. - Reveille Compressor Station
Unpaved Haul Road Emissions

Exempt per 20.2.72.202.B.5

Haul Input Information	
Unit(s):	HAUL
Description:	Unpaved haul road emissions

Input Data		
Truck Size	7,560	Nominal (gal)
Total Loadout Volume[1]	11,497,500	gal/yr
Trips per Year[2]	1521	trips/year
Trips per hour	1	trips/hr
Empty vehicle weight[3]	16	tons
Load Out Density[4]	5.75	lb/gal
Load weight[5]	21.7	tons
Loaded vehicle[6]	37.7	tons
Mean vehicle weight[7]	26.86	tons
Round-trip distance	0.05	mile/trip
Loadout Spots	2	Assumed
Facility Operating Hours	8,760	Cumulative total
Surface silt content[8]	4.8	%
Annual wet days[9]	70	days/yr
Control Efficiency	0.44	--

Emission Factors and Constants		
Parameter	**PM_{10}**	**$PM_{2.5}$**
k, lb/VMT[10]	1.5	0.15
a, lb/VMT[10]	0.90	0.90
b, lb/VMT[10]	0.45	0.45
Hourly EF, lb/VMT[11]	1.76	0.18
Annual EF, lb/VMT[12]	1.43	0.14

Emission Rate Calculation					
VMT/hr[13]	**VMT/yr[13]**	**Hourly Emission Rate by Month (lb/hr)[14]**		**Annual Emission Rate (tons/yr)[14]**	
		PM_{10}	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
0.05	79.4	0.05	0.005	0.03	0.003

[1] The facility will remove condensate and produced water via loadout. Loadout volume is based on facility design.
[2] Trips per Year = Total Loadout Volume (gal) / Truck Size (gal)
[3] Empty vehicle weight includes driver and occupants and full fuel load.
[4] Cargo, transported materials, etc. (Promax Loadout Density = Condensate density 43 (lb/scf)*1 scf / 7.480519 gal)
[5] Load weight (lb) = Truck Size (gal) * Oil Load Out Density (lb/gal)
[6] Loaded vehicle weight = Empty + Load Size
[7] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2
[8] AP-42 Table 13.2.2-1
[9] Per NMED Guidance
[10] Table 13.2.2-2, Industrial Roads
[11] AP-42 13.2.2, Equation 1a
[12] AP-42 13.2.2, Equation 2
[13] VMT/hr = 1 trip/hr * Round-trip distance (mi/trip)
VMT/yr = Trips per Year * Round-trip distance (mi/trip)
[14] Hourly Emission Rate (lb/hr) = Hourly EF (lb/VMT) * VMT/hr (mile/hr)
Annual Emission Rate (tpy) = Annual EF (lb/VMT) * VMT/yr (mile/yr) / 2000 lb/ton

ONEOK, Inc. - Reveille Compressor Station

Gunbarrel Separator

Gunbarrel Separator Input Information			
Unit(s):	TK-407		
Description:	750 bbl Gunbarrel Tank		
Number of Tanks:	1		
Facility Produced Water Throughput:	750	bbl/day	Facility Design
Produced Water Throughput:	750	bbl/day/tank	

Flash, Working and Breathing Emissions[1] (Uncontrolled)					Controlled Emissions	
Component	Flash Emissions (tpy)	Working and Breathing Losses (tpy)	Total Emissions (tpy)	Total Emissions Per Tank (tpy)	Total Emissions (tpy)	Total Emissions Per Tank (tpy)
Nitrogen	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon Dioxide	7.82E-01	5.17E-03	7.87E-01	7.87E-01	0.00E+00	0.00E+00
Methane	95.15	0.66	95.81	95.81	0.00E+00	0.00E+00
Ethane	142.58	0.93	143.51	143.51	0.00E+00	0.00E+00
Propane	248.11	1.55	249.66	249.66	0.00E+00	0.00E+00
Isobutane	68.14	0.41	68.55	68.55	0.00E+00	0.00E+00
n-Butane	186.89	1.11	187.99	187.99	0.00E+00	0.00E+00
Isopentane	76.35	0.44	76.79	76.79	0.00E+00	0.00E+00
n-Pentane	95.19	0.54	95.73	95.73	0.00E+00	0.00E+00
n-Hexane	43.00	0.23	43.23	43.23	0.00E+00	0.00E+00
Cyclohexane	316.93	1.743	318.67	318.672	0.00E+00	0.00E+00
Heptane	77.91	0.40	78.31	78.31	0.00E+00	0.00E+00
Methylcyclohexane	0.00	0.000	0.00	0.00	0.00E+00	0.00E+00
2,2,4-Trimethylpentane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzene	2.87	0.016	2.89	2.89	0.00E+00	0.00E+00
Toluene	4.886	0.025	4.91	4.91	0.00E+00	0.00E+00
Ethylbenzene	1.45E-01	7.22E-04	1.46E-01	1.46E-01	0.00E+00	0.00E+00
o-Xylene	2.20E-01	1.09E-03	2.21E-01	2.21E-01	0.00E+00	0.00E+00
m-Xylene	1.2202	6.05E-03	1.2263	1.2263	0.00E+00	0.00E+00
p-Xylene	0.6625	3.29E-03	0.6658	0.6658	0.00E+00	0.00E+00
Octanes	3.3386	1.65E-02	3.3551	3.3551	0.00E+00	0.00E+00
Nonanes	0.3742	1.77E-03	0.3759	0.3759	0.00E+00	0.00E+00
Decanes	0.0359	1.63E-04	0.0360	0.0360	0.00E+00	0.00E+00
Water	21.93	0.11	22.04	22.04	0.00E+00	0.00E+00
Total VOC	**1,126.28**	**6.49**	**1,132.76**	**1,132.76**	**0.00**	**0.00**
Total HAP	**53.01**	**0.28**	**53.29**	**53.29**	**0.00**	**0.00**

[1] Flash, working, and breathing emissions are controlled by a VRU with an assumed 5% downtime. VRU Downtime is controlled by an enclosed combustion unit (ECD-1). Controlled emissions from the condensate tanks are represented at the ECD.

ONEOK, Inc. - Reveille Compressor Station
Condensate Storage Tanks

Oil Tank Input Information			
Unit(s):	TK-406A & TK-406B		
Description:	1000 bbl Condensate Storage Tank		
Number of Tanks:	2		
Facility condensate Throughput:	500.00	bbl/day	Facility Design
Condensate Throughput:	250.00	bbl/day/tank	

Flash, Working and Breathing Emissions[1] (Uncontrolled)					Controlled Emissions	
Component	Flash Emissions (tpy)	Working and Breathing Losses (tpy)	Total Emissions (tpy)	Total Emissions Per Tank (tpy)	Total Emissions (tpy)	Total Emissions Per Tank (tpy)
Nitrogen	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon Dioxide	1.29E-01	3.21E-02	1.61E-01	8.03E-02	0.00E+00	0.00E+00
Methane	8.13	1.71	9.83	4.92	0.00E+00	0.00E+00
Ethane	31.67	7.76	39.44	19.72	0.00E+00	0.00E+00
Propane	57.79	13.55	71.34	35.67	0.00E+00	0.00E+00
Isobutane	14.06	3.17	17.23	8.61	0.00E+00	0.00E+00
n-Butane	36.95	8.22	45.17	22.59	0.00E+00	0.00E+00
Isopentane	14.05	3.03	17.09	8.54	0.00E+00	0.00E+00
n-Pentane	17.26	3.67	20.93	10.47	0.00E+00	0.00E+00
n-Hexane	7.51	1.52	9.03	4.52	0.00E+00	0.00E+00
Cyclohexane	55.71	11.50	67.21	33.60	0.00E+00	0.00E+00
Heptane	13.50	2.62	16.11	8.06	0.00E+00	0.00E+00
Methylcyclohexane	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00
2,2,4-Trimethylpentane	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzene	0.50	0.103	0.61	0.30	0.00E+00	0.00E+00
Toluene	0.85	0.165	1.01	0.51	0.00E+00	0.00E+00
Ethylbenzene	0.03	0.0047	0.0299	0.0150	0.00E+00	0.00E+00
o-Xylene	0.04	7.08E-03	4.53E-02	2.27E-02	0.00E+00	0.00E+00
m-Xylene	0.21	0.0394	0.251	0.1256	0.00E+00	0.00E+00
p-Xylene	0.11	0.02145	0.1364	0.0682	0.00E+00	0.00E+00
Octanes	0.58	0.10707	0.6842	0.3421	0.00E+00	0.00E+00
Nonanes	0.06	0.01144	0.0761	0.0380	0.00E+00	0.00E+00
Decanes	0.01	0.00106	0.0073	0.0036	0.00E+00	0.00E+00
Water	1.20	3.01E-01	1.50	0.75	0.00E+00	0.00E+00
Total VOC	**219.23**	**47.74**	**266.97**	**133.49**	**0.00**	**0.00**
Total HAP	**9.26**	**1.86**	**11.12**	**5.56**	**0.00**	**0.00**

[1] Flash, working, and breathing emissions from condensate tanks are controlled by a VRU with an assumed 5% downtime. VRU Downtime is controlled by an enclosed combustion unit (ECD-1). Controlled emissions from the condensate tanks are represented at the ECD.

ONEOK, Inc. - Reveille Compressor Station

Produced Water Storage Tanks

Produced Water Tank Input Information			
Unit(s):	TK-406C		
Description:	1000 bbl Produced Water Storage Tank		
Number of Tanks:	1		
Facility Produced Water Throughput:	250	bbl/day	Facility Design
Produced Water Throughput:	250	bbl/day/tank	

Flash, Working and Breathing Emissions[1] (Uncontrolled)					Controlled Emissions	
Component	Flash Emissions (tpy)	Working and Breathing Losses (tpy)	Total Emissions (tpy)	Total Emissions Per Tank (tpy)	Total Emissions (tpy)	Total Emissions Per Tank (tpy)
Nitrogen	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon Dioxide	7.56E-04	2.39E-02	2.47E-02	2.47E-02	0.00E+00	0.00E+00
Methane	6.36E-02	1.03E-01	0.166	0.166	0.00E+00	0.00E+00
Ethane	8.56E-02	2.01E-01	0.287	0.287	0.00E+00	0.00E+00
Propane	9.38E-02	1.54E-01	0.248	0.248	0.00E+00	0.00E+00
Isobutane	1.74E-02	1.92E-02	0.0366	0.0366	0.00E+00	0.00E+00
n-Butane	4.74E-02	7.15E-02	0.119	0.119	0.00E+00	0.00E+00
Isopentane	1.50E-02	1.56E-02	0.0306	0.0306	0.00E+00	0.00E+00
n-Pentane	9.90E-03	4.33E-03	0.0142	0.0142	0.00E+00	0.00E+00
n-Hexane	3.11E-03	9.14E-04	0.0040	4.03E-03	0.00E+00	0.00E+00
Cyclohexane	1.47E-02	0.0026	0.0173	0.0173	0.00E+00	0.00E+00
Heptane	4.29E-03	9.08E-04	0.0052	5.20E-03	0.00E+00	0.00E+00
Methylcyclohexane	0.00E+00	0.0000	0.0000	0.0000	0.00E+00	0.00E+00
2,2,4-Trimethylpentane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzene	1.04E-03	0.050	0.051	0.051	0.00E+00	0.00E+00
Toluene	1.66E-03	0.0805	0.0821	0.0821	0.00E+00	0.00E+00
Ethylbenzene	4.93E-05	2.28E-03	2.33E-03	2.33E-03	0.00E+00	0.00E+00
o-Xylene	7.39E-05	3.44E-03	3.51E-03	3.51E-03	0.00E+00	0.00E+00
m-Xylene	3.93E-04	1.91E-02	1.95E-02	1.95E-02	0.00E+00	0.00E+00
p-Xylene	2.16E-04	1.04E-02	1.06E-02	1.06E-02	0.00E+00	0.00E+00
Octanes	8.17E-05	7.51E-06	8.92E-05	8.92E-05	0.00E+00	0.00E+00
Nonanes	9.51E-06	8.21E-07	1.03E-05	1.03E-05	0.00E+00	0.00E+00
Decanes	2.70E-07	6.98E-09	2.77E-07	2.77E-07	0.00E+00	0.00E+00
Water	0.0084	0.3536	0.3621	0.3621	0.00E+00	0.00E+00
Total VOC	**0.21**	**0.44**	**0.64**	**0.64**	**0.00**	**0.00**
Total HAP	**0.01**	**0.17**	**0.17**	**0.17**	**0.00**	**0.00**

[1] Flash, working, and breathing emissions from the produced water tank are controlled by a VRU with an assumed 5% downtime. VRU Downtime is controlled by an enclosed combustion unit (ECD-1). Controlled emissions from the produced water tank are represented at the ECD.

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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

- Current version of AP-42 located at: http://www.epa.gov/ttn/chief/ap42/index.html. Specific sections used in this application:
  - Subsection 1.4 – Natural Gas External Combustion Sources-Natural Gas (Table 1.4-1, 1.4-2 & 1.4-3) [**Units ECD-1, ECD-2 and RBL-1**]
  - Subsection 3.2 – Natural Gas-Fired Reciprocating Engines (Table 3.2-2) [**Units ENG-1 through ENG-8**]
  - Subsection 13.2.2 – Unpaved Roads (Table 13.2.2-2) [**Unit HAUL**]
- Compressor Manufacturer Specifications [**Units ENG-1 through ENG-8**]
- Generator Manufacturer Specifications [**Unit GEN-1, GEN-2**]
- TCEQ TNRCC RG-109 Flare Guidance documentation [**Unit ECD-1, ECD-2**]
- Manley Gas Testing, Inc.'s Extended Gas analysis. [Unit **DEHY-1** and inlet gas analysis for ProMax input]
- 40 CFR Subpart C (Table C-1 and C-2) [**Units ENG-1 through ENG-8, RBL-1, ECD-1, and ECD-2**].

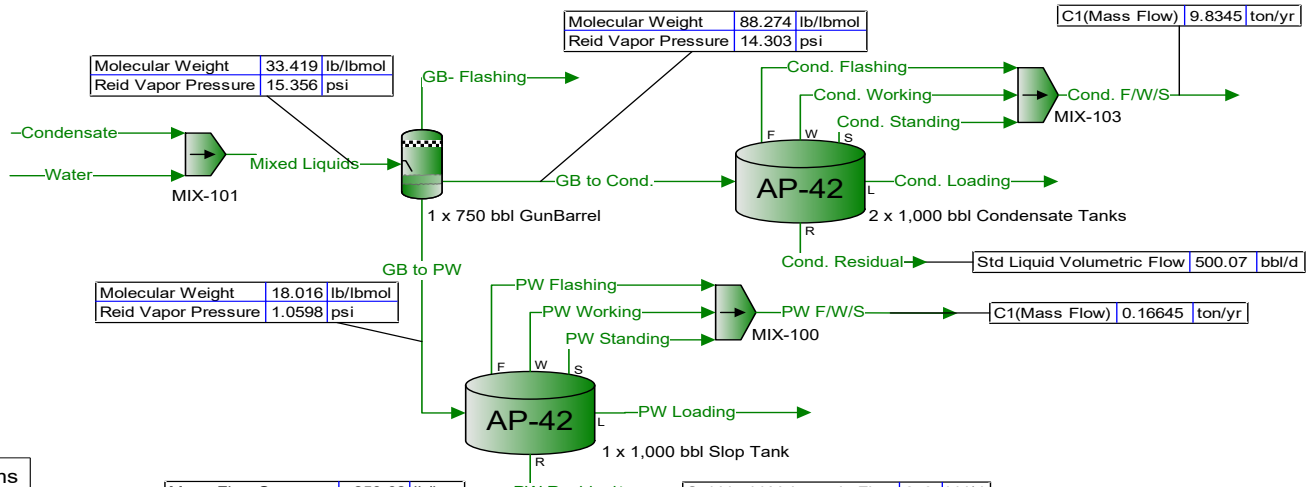
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Reveille Compressor Station
Tank Emissions Based On –
Reveille Condensate Analysis (10/15/2025)

Cond. TP: 500.00 bbl/d
PW TP: 250.00 bbl/d

Includes Safety Factor

"Cond. F/W/S" Component Sums		
BTEX	2.085	ton/yr
VOCs	267	ton/yr



"GB F/W/B" Component Sums		
BTEX	10.06	ton/yr
VOCs	1,133	ton/yr

Mass Flow Sum	258.62	lb/h
Benzene(Mass Flow)	0.65972	lb/h
Benzene(Mass Flow)	2.8896	ton/yr
C1(Mass Flow)	95.813	ton/yr

GB F, GB W, GB B → MIX-102 → GB F/W/B

Annual tank loss calculations for "Mixed Liquids".
Total working and breathing losses are 6.487 ton/yr.
Flashing losses are 1,126 ton/yr.
* Only Non-Exempt VOCs are reported.

Annual – 1 X 750 bbl Gunbarrel Tank

"PW F/W/S" Component Sums		
BTEX	0.1694	ton/yr
VOCs	0.6445	ton/yr

Process Streams		Cond. F/W/S	Cond. Flashing	Cond. Loading	Cond. Residual	Cond. Standing	Cond. Working	Condensate	GB B	GB F	GB F/W/B
Composition	Status:	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved
Phase: Total	From Block:	MIX-103	2 x 1,000 bbl Condensate Tanks	2 x 1,000 bbl Condensate Tanks	2 x 1,000 bbl Condensate Tanks	2 x 1,000 bbl Condensate Tanks	2 x 1,000 bbl Condensate Tanks	--	--	--	MIX-102
	To Block:	--	MIX-103	--	--	MIX-103	MIX-103	MIX-101	MIX-102	MIX-102	--
Mole Fraction		%	%	%	%	%	%	%	%	%	%
Water		1.31943	1.29241	1.09273	0.0111953	1.43924	1.43924	0*	3.28671*	4.14096*	4.13574
H2S		0	0	0	0	0	0	0*	0*	0*	0
N2		0	0	0	0	0	0	0*	0*	0*	0
CO2		0.0578985	0.0567615	0.0439293	0.000398674	0.0629396	0.0629396	0.0075*	0.0651016*	0.0604654*	0.0604937
C1		9.72254	9.84475	0	0	9.18071	9.18071	2.3348*	22.8250*	20.1760*	20.1921
C2		20.8011	20.4735	22.0044	0.459211	22.2532	22.2532	2.2001*	17.1207*	16.1293*	16.1353
C3		25.6596	25.4751	30.0234	2.16518	26.4776	26.4776	3.6752*	19.4361*	19.1397*	19.1415
iC4		4.70073	4.70112	5.45708	1.13857	4.69900	4.69900	1.3263*	3.89539*	3.98789*	3.98732
nC4		12.3266	12.3581	14.1757	4.34273	12.1871	12.1871	4.7095*	10.5419*	10.9376*	10.9352
iC5		3.75598	3.78628	4.20130	3.11378	3.62167	3.62167	3.0718*	3.36615*	3.59994*	3.59852
nC5		4.60166	4.64966	5.07530	5.06183	4.38884	4.38884	4.9056*	4.14137*	4.48793*	4.48581
nC6		1.66225	1.69447	1.73162	6.58588	1.51941	1.51941	6.1359*	1.48831*	1.69723*	1.69596
Benzene		0.123361	0.125504	0.130244	0.469562	0.113859	0.113859	0.4388*	0.111033*	0.125154*	0.125068
iC6		12.3694	12.5646	13.1980	33.9598	11.5039	11.5039	31.8545*	11.2003*	12.5103*	12.5023
Toluene		0.174644	0.179150	0.174073	2.25281	0.154665	0.154665	2.0781*	0.152346*	0.180393*	0.180222
C7		2.55048	2.61829	2.52828	32.0992	2.24983	2.24983	29.5982*	2.22321*	2.64496*	2.64239
m-Xylene		0.0375147	0.0387659	0.0354253	1.66224	0.0319673	0.0319673	1.5277*	0.0315472*	0.0390966*	0.0390505
p-Xylene		0.0203726	0.0210406	0.0193171	0.867022	0.0174107	0.0174107	0.7969*	0.0171874*	0.0212270*	0.0212023
o-Xylene		0.00676794	0.00699871	0.00635617	0.338738	0.00574478	0.00574478	0.3113*	0.00566804*	0.00705664*	0.00704817
Ethylbenzene		0.00447403	0.00462173	0.00423544	0.177643	0.00381921	0.00381921	0.1633*	0.00376823*	0.00466031*	0.00465487
C8		0.0950019	0.0982101	0.0894420	3.79059	0.0807774	0.0807774	3.484*	0.0800147*	0.0994199*	0.0993015
C9		0.00940619	0.00979334	0.00838505	1.18907	0.00768967	0.00768967	1.0918*	0.00762772*	0.00992362*	0.00990961
C10		0.000811567	0.000850180	0.000688061	0.314517	0.000640368	0.000640368	0.2887*	0.000632622*	0.000857854*	0.000856479
Mass Flow		lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h
Water		0.342179	0.273488	0.0209097	0.111243	0.0117961	0.0568956	0*	0.00838699*	5.00703*	5.03144
H2S		0	0	0	0	0	0	0*	0*	0*	0
N2		0	0	0	0	0	0	0*	0*	0*	0
CO2		0.0366810	0.0293426	0.00205351	0.00967740	0.00126019	0.00607822	0.198364*	0.000405828*	0.178604*	0.179785
C1		2.24532	1.85513	0	0	0.0670058	0.323186	22.5100*	0.0518663*	21.7242*	21.8751
C2		9.00393	7.23120	0.702789	7.61599	0.304423	1.46831	39.7573*	0.0729195*	32.5517*	32.7638
C3		16.2882	13.1950	1.40621	52.6604	0.531177	2.56200	97.3939*	0.121397*	56.6460*	56.9993
iC4		3.93309	3.20953	0.336897	36.5003	0.124255	0.599312	46.3275*	0.0320699*	15.5569*	15.6502
nC4		10.3137	8.43708	0.875151	139.219	0.322260	1.55434	164.502*	0.0867889*	42.6679*	42.9205
iC5		3.90104	3.20878	0.321965	123.911	0.118878	0.573381	133.192*	0.0344006*	17.4326*	17.5327
nC5		4.77937	3.94047	0.388943	201.433	0.144060	0.694839	212.704*	0.0423231*	21.7327*	21.8558
nC6		2.06209	1.71520	0.158501	313.034	0.0595694	0.287319	317.773*	0.0181668*	9.81663*	9.86950
Benzene		0.138715	0.115153	0.0108062	20.2304	0.00404621	0.0195159	20.5987*	0.00122850*	0.656144*	0.659719
iC6		15.3447	12.7183	1.20806	1614.14	0.451019	2.17538	1649.72*	0.136716*	72.3584*	72.7562
Toluene		0.231645	0.193890	0.0170360	114.488	0.00648335	0.0312709	115.070*	0.00198827*	1.11558*	1.12136
C7		3.67897	3.08171	0.269090	1774.05	0.102563	0.494689	1782.37*	0.0315544*	17.7883*	17.8801
m-Xylene		0.0573337	0.0483425	0.00399476	97.3352	0.00154402	0.00744721	97.4708*	0.000474402*	0.278586*	0.279966
p-Xylene		0.0311355	0.0262385	0.00217830	50.7698	0.000840937	0.00405606	50.8441*	0.000258461*	0.151255*	0.152007
o-Xylene		0.0103434	0.00872765	0.000716758	19.8353	0.000277472	0.00133832	19.8617*	8.52349E-05*	0.0502826*	0.0505307
Ethylbenzene		0.00683766	0.00576346	0.000477612	10.4022	0.000184468	0.00089736	10.4189*	5.66660E-05*	0.0332074*	0.0333723
C8		0.156219	0.131774	0.0108521	238.823	0.00419787	0.0202474	239.171*	0.00129464*	0.762231*	0.765998
C9		0.0173666	0.0147538	0.00114229	84.1157	0.000448691	0.00216415	84.1537*	0.000138571*	0.0854247*	0.0858279
C10		0.00166227	0.00142088	0.000103985	24.6824	4.14518E-05	0.000199933	24.6860*	1.27496E-05*	0.00819221*	0.00822931

Process Streams		Cond. F/W/S	Cond. Flashing	Cond. Loading	Cond. Residual	Cond. Standing	Cond. Working	Condensate	GB B	GB F	GB F/W/B
Properties	Status:	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved
Phase: Total	From Block:	MIX-103	2 x 1,000 bbl Condensate Tanks	2 x 1,000 bbl Condensate Tanks	2 x 1,000 bbl Condensate Tanks	2 x 1,000 bbl Condensate Tanks	2 x 1,000 bbl Condensate Tanks	--	--	--	MIX-102
	To Block:	--	MIX-103	--	--	MIX-103	MIX-103	MIX-101	MIX-102	MIX-102	--
Property	Units										
Temperature	°F	82.0781	82.0782	82.0782	82.0782	82.0782	82.0782	75*	81.5992	81.5992	81.5972
Pressure	psig	-1.81595	-1.81595	-1.81595	-1.81595	-1.81595	-1.81595	90*	0.0987595	-1.81595	-1.81595
Mole Fraction Vapor	%	100	100	99.7805	0	100	100	0	100	100	100
Mole Fraction Light Liquid	%	0	0	0.219517	100	0	0	100	0	0	0
Mole Fraction Heavy Liquid	%	0	0	0	0	0	0	0	0	0	0
Phase Mole Fraction	%	100	100	100	100	100	100	100	100	100	100
Molecular Weight	lb/lbmol	50.4188	50.6046	54.0202	89.2623	49.5950	49.5950	85.3401	45.3619	47.1710	47.1600
Mass Density	lb/ft^3	0.113714	0.114147	0.122427	41.6025	0.111796	0.111796	41.4117	0.117475	0.106239	0.106214
Molar Flow	lbmol/h	1.43955	1.17462	0.106217	55.1562	0.0454951	0.219435	60.0973	0.0141646	6.71179	6.75301
Mass Flow	lb/h	72.5805	59.4413	5.73788	4923.37	2.25633	10.8829	5128.71	0.642532	316.602	318.472
Vapor Volumetric Flow	ft^3/h	638.274	520.745	46.8679	118.343	20.1826	97.3457	123.847	5.46951	2980.10	2998.41
Liquid Volumetric Flow	gpm	79.5770	64.9241	5.84327	14.7545	2.51627	12.1366	15.4407	0.681913	371.545	373.828
Std Vapor Volumetric Flow	MMSCFD	0.0131109	0.0106980	0.000967388	0.502342	0.000414352	0.00199853	0.547344	0.000129006	0.0611284	0.0615038
Std Liquid Volumetric Flow	sgpm	0.272452	0.222678	0.0210306	14.5854	0.00854747	0.0412266	15.4295*	0.00248142	1.19581	1.20303
Compressibility		0.982279	0.982160	0.977540	0.00475339	0.982801	0.982801	0.0376020	0.983499	0.984535	0.984542
Specific Gravity		1.74083	1.74725		0.667041	1.71239	1.71239	0.663982	1.56623	1.62869	1.62831
API Gravity					77.0971			79.1166			
Enthalpy	Btu/h	-73298.5	-59927.7	-5591.99	-4.58965E+06	-2296.11	-11074.7	-4.86080E+06	-705.539	-345422	-347475
Mass Enthalpy	Btu/lb	-1009.89	-1008.18	-974.574	-932.218	-1017.63	-1017.63	-947.761	-1098.06	-1091.03	-1091.07
Mass Cp	Btu/(lb*°F)	0.409350	0.409309	0.406039	0.522464	0.409537	0.409537	0.521807	0.415866	0.413664	0.413673
Ideal Gas CpCv Ratio		1.10730	1.10688	1.10051	1.06048	1.10921	1.10921	1.06398	1.11862	1.11413	1.11416
Dynamic Viscosity	cP	0.00809811	0.00808757		0.308640	0.00814517	0.00814517	0.298658	0.00846316	0.00834640	0.00834704
Kinematic Viscosity	cSt	4.44580	4.42317		0.463140	4.54834	4.54834	0.450225	4.49744	4.90451	4.90605
Thermal Conductivity	Btu/(h*ft*°F)	0.0104930	0.0104838		0.0672981	0.0105340	0.0105340	0.0674300	0.0114897	0.0111759	0.0111777
Surface Tension	lbf/ft				0.00123890?			0.00117751?			
Net Ideal Gas Heating Value	Btu/ft^3	2609.28	2618.73	2791.74	4527.27	2567.38	2567.38	4334.46	2336.73	2417.87	2417.38
Net Liquid Heating Value	Btu/lb	19482.2	19481.1	19450.7	19088.7	19487.2	19487.2	19116.6	19391.9	19290.6	19291.2
Gross Ideal Gas Heating Value	Btu/ft^3	2831.62	2841.74	3027.14	4880.67	2786.75	2786.75	4674.55	2539.87	2626.93	2626.40
Gross Liquid Heating Value	Btu/lb	21155.9	21153.6	21104.5	20591.0	21165.9	21165.9	20628.8	21091.6	20972.7	20973.4

GB to Cond.	GB to PW	GB W	GB- Flashing	Mixed Liquids	PW F/W/S	PW Flashing	PW Loading	PW Residual	PW Standing	PW Working	Water
Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved
1 x 750 bbl GunBarrel	1 x 750 bbl GunBarrel	--	1 x 750 bbl GunBarrel	MIX-101	MIX-100	1 x 1,000 bbl Slop Tank	1 x 1,000 bbl Slop Tank	1 x 1,000 bbl Slop Tank	1 x 1,000 bbl Slop Tank	1 x 1,000 bbl Slop Tank	--
2 x 1,000 bbl Condensate Tanks	1 x 1,000 bbl Slop Tank	MIX-102	--	1 x 750 bbl GunBarrel	--	MIX-100	--	--	MIX-100	MIX-100	MIX-101
%	%	%	%	%	%	%	%	%	%	%	%
0.0444711	99.9960	3.28671*	1.96547	77.1200	38.8911	4.19643	93.9336	99.9995	48.4594	48.4594	100*
0	0	0*	0	0	0	0	0	0	0	0	0*
0	0	0*	0	0	0	0	0	0	0	0	0*
0.00186122	6.32924E-05	0.0651016*	0.0926628	0.00171600	1.08618	0.153706	0	0	1.34334	1.34334	0*
0.247299	0.00116996	22.8250*	35.1291	0.534203	20.0780	35.4649	0	0	15.8345	15.8345	0*
0.976620	0.00107461	17.1207*	21.3785	0.503384	18.4416	25.4961	0	0	16.4961	16.4961	0*
2.76278	0.000634723	19.4361*	17.9375	0.840887	10.8926	19.0417	0	0	8.64526	8.64526	0*
1.22918	7.09717E-05	3.89539*	2.82147	0.303458	1.21796	2.67642	0	0	0.815747	0.815747	0*
4.54580	0.000230633	10.5419*	7.16290	1.07754	3.95796	7.29382	0	0	3.03798	3.03798	0*
3.13011	4.78753E-05	3.36615*	2.07464	0.702829	0.821601	1.86337	0	0	0.534298	0.534298	0*
5.05013	2.22491E-05	4.14137*	2.50566	1.12240	0.381823	1.22853	0	0	0.148313	0.148313	0*
6.46065	5.26793E-06	1.48831*	0.865151	1.40390	0.0904044	0.323220	0	0	0.0261975	0.0261975	0*
0.460756	0.000303081	0.111033*	0.0647756	0.100398	1.26939	0.119610	2.38021	0.000229126	1.58648	1.58648	0*
33.4106	2.26075E-05	11.2003*	6.53850	7.28832	0.387973	1.52837	0	0	0.0734710	0.0734710	0*
2.19995	0.000309224	0.152346*	0.0886114	0.475470	1.72500	0.161529	2.88157	0.000208719	2.15618	2.15618	0*
31.3477	5.85165E-06	2.22321*	1.28946	6.77208	0.100422	0.383466	0	0	0.0223626	0.0223626	0*
1.62092	3.68529E-05	0.0315472*	0.0184794	0.349538	0.356095	0.0331079	0.385310	1.61039E-05	0.445169	0.445169	0*
0.845487	2.22466E-05	0.0171874*	0.0100577	0.182331	0.193679	0.0182212	0.235111	1.09613E-05	0.242068	0.242068	0*
0.330294	1.55221E-05	0.00566804*	0.00332413	0.0712256	0.0640561	0.00622918	0.117887	1.17902E-05	0.0800038	0.0800038	0*
0.173239	6.95754E-06	0.00376823*	0.00220635	0.0373631	0.0423891	0.00415723	0.0662699	4.48776E-06	0.0529328	0.0529328	0*
3.69659	8.80810E-08	0.0800147*	0.0466900	0.797141	0.00151158	0.00640447	0	0	0.000162201	0.000162201	0*
1.15907	9.08074E-09	0.00762772*	0.00447819	0.249804	0.000155837	0.000663608	0	0	1.58020E-05	1.58020E-05	0*
0.306538	2.19618E-10	0.000632622*	0.000377081	0.0660547	3.76892E-06	1.69961E-05	0	0	1.21088E-07	1.21088E-07	0*
lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h	lb/h
0.453422	3647.55	0.0160193*	1.27085	3649.27	0.0826647	0.00192815	0.0359682	3647.47	0.0136856	0.0670509	3649.27*
0	0	0*	0	0	0	0	0	0	0	0	0*
0	0	0*	0	0	0	0	0	0	0	0	0*
0.0463584	0.00563995	0.000775139*	0.146366	0.198364	0.00563995	0.000172527	0	0	0.000926779	0.00454065	0*
2.24532	0.0380031	0.0990657*	20.2267	22.5100	0.0380031	0.0145107	0	0	0.00398217	0.0195102	0*
16.6199	0.0654256	0.139278*	23.0720	39.7573	0.0654256	0.0195530	0	0	0.00777582	0.0380967	0*
68.9486	0.0566705	0.231870*	28.3886	97.3939	0.0566705	0.0214152	0	0	0.00597611	0.0292792	0*
40.4334	0.00835228	0.0612541*	5.88579	46.3275	0.00835228	0.00396749	0	0	0.000743262	0.00364153	0*
149.533	0.0271420	0.165769*	14.9423	164.502	0.0271420	0.0108123	0	0	0.00276803	0.0135617	0*
127.812	0.00699388	0.0657058*	5.37228	133.192	0.00699388	0.00342885	0	0	0.000604306	0.00296073	0*
206.213	0.00325027	0.0808379*	6.48841	212.704	0.00325027	0.00226067	0	0	0.000167747	0.000821855	0*
315.096	0.000919181	0.0346990*	2.67586	317.773	0.000919181	0.000710398	0	0	3.53906E-05	0.000173392	0*
20.3691	0.0479350	0.00234646*	0.181600	20.5987	0.0116987	0.000238289	0.00395175	0.0362363	0.00194265	0.00951780	0*
1629.49	0.00394469	0.261129*	20.2232	1649.72	0.00394469	0.00335916	0	0	9.92530E-05	0.000486279	0*
114.719	0.0576889	0.00379763*	0.293034	115.070	0.0187525	0.000379587	0.00564322	0.0389364	0.00311437	0.0152585	0*
1777.73	0.00118722	0.0602696*	4.63737	1782.37	0.00118722	0.000979993	0	0	3.51271E-05	0.000172101	0*
97.3925	0.00792192	0.000906117*	0.0704135	97.4708	0.00446042	8.96464E-05	0.000869459	0.00346150	0.000740886	0.00362988	0*
50.8010	0.00478213	0.000493666*	0.0383236	50.8441	0.00242601	4.93376E-05	0.000530531	0.00235612	0.000402868	0.00197381	0*
19.8457	0.00333665	0.000162800*	0.0126662	19.8617	0.000802361	1.68668E-05	0.000266013	0.00253429	0.000133149	0.000652346	0*
10.4090	0.00149560	0.000108233*	0.00840703	10.4189	0.000530962	1.12565E-05	0.000149539	0.000964635	8.80949E-05	0.000431611	0*
238.979	2.03720E-05	0.00247278*	0.191419	239.171	2.03720E-05	1.86585E-05	0	0	2.90451E-07	1.42303E-06	0*
84.1330	2.35816E-06	0.000264674*	0.0206141	84.1537	2.35816E-06	2.17073E-06	0	0	3.17709E-08	1.55658E-07	0*
24.6841	6.32695E-08	2.43520E-05*	0.00192562	24.6860	6.32695E-08	6.16762E-08	0	0	2.70082E-10	1.32323E-09	0*

GB to Cond.	GB to PW	GB W	GB- Flashing	Mixed Liquids	PW F/W/S	PW Flashing	PW Loading	PW Residual	PW Standing	PW Working	Water
Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved	Solved
1 x 750 bbl GunBarrel	1 x 750 bbl GunBarrel	--	1 x 750 bbl GunBarrel	MIX-101	MIX-100	1 x 1,000 bbl Slop Tank	1 x 1,000 bbl Slop Tank	1 x 1,000 bbl Slop Tank	1 x 1,000 bbl Slop Tank	1 x 1,000 bbl Slop Tank	--
2 x 1,000 bbl Condensate Tanks	1 x 1,000 bbl Slop Tank	MIX-102	--	1 x 750 bbl GunBarrel	--	MIX-100	--	--	MIX-100	MIX-100	MIX-101
71.8346	71.8346	81.5992	71.8346	74.9370	79.2513	81.8875	81.8875	81.8875	81.8875	81.8875	75*
5	5	0.0987595	5*	90	-1.81595	-1.81595	-1.81595	-1.81595	-1.81595	-1.81595	90*
0	0	100	100	0	62.6398	100	0	0	51.9647	51.9647	0
100	100	0	0	22.8792	0.879436	0	6.06409	100	1.75553	1.75553	100
0	0	0	0	77.1208	36.4808	0	93.9359	0	46.2798	46.2798	0
100	100	100	100	100	100	100	100	100	100	100	100
88.2743	18.0162	45.3619	37.3764	33.4192	28.7228	32.8976	22.2908	18.0156	27.5714	27.5714	18.0153
41.8264	62.2625	0.117475	0.131161	48.1104	0.102928	0.0734830	59.9833	62.1626	0.118456	0.118456	62.2385
56.5958	202.478	0.0270546	3.58912	262.663	0.0117985	0.00255047	0.00212548	202.466	0.00156763	0.00768044	202.565
4995.95	3647.89	1.22725	134.148	8777.99	0.338887	0.0839043	0.0473787	3647.55	0.0432219	0.211761	3649.27
119.445	58.5889	10.4469	1022.77	182.455	3.29246	1.14182	0.000789865	58.6776	0.364878	1.78768	58.6336
14.8918	7.30459	1.30247	127.515	22.7477	0.410489	0.142357	9.84767E-05	7.31565	0.0454913	0.222879	7.31017
0.515453	1.84409	0.000246403	0.0326883	2.39223	0.000107457	2.32287E-05	1.93581E-05	1.84398	1.42774E-05	6.99505E-05	1.84489
14.8578	7.29303	0.00473956	0.573836	22.7247	0.00128468	0.000381398	9.79434E-05	7.29174	0.000153114	0.000750165	7.29516*
0.00728768	0.000999180	0.983499	0.984007	0.0126762	0.621469	0.992168	0.000823577	0.000642285	0.515835	0.515835	0.00528156
0.670632	0.998297	1.56623	1.29051	0.771386		1.13587	0.961753	0.996695			0.997912
77.6031	10.0025			50.3598			14.7589	9.99823			9.98734
-4.70065E+06	-2.48995E+07	-1347.59	-159434	-2.97596E+07	-831.742	-109.279	-243.933	-2.48628E+07	-122.464	-599.999	-2.48988E+07
-940.893	-6825.73	-1098.06	-1188.49	-3390.25	-2454.33	-1302.43	-5148.58	-6816.31	-2833.38	-2833.38	-6822.94
0.516664	0.978516	0.415866	0.421712	0.711528	0.538134	0.430141	0.836180	0.977746	0.576491	0.576491	0.978078
1.06220	1.32916	1.11862	1.14558	1.16895	1.20203	1.16416	1.28394	1.32883	1.21484	1.21484	1.32907
0.320793	0.972861	0.00846316	0.00889345	0.503788		0.00942164	0.782166	0.860429			0.936582
0.478798	0.975446	4.49744	4.23296	0.653714		8.00421	0.814044	0.864102			0.939433
0.0681378	0.347866	0.0114897	0.0125979	0.157981		0.0134379	0.278860	0.352478			0.349407
0.00125706?	0.00501820?			0.00240506?			0.00413458	0.00494356			0.00499487
4478.49	0.0840415	2336.73	1952.82	991.725	1111.38	1706.10	248.176	0.0192818	947.364	947.364	0
19094.4	-1057.90	19391.9	19685.1	10728.7	14322.4	19529.3	3376.76	-1059.33	12609.0	12609.0	-1059.76
4828.55	50.3984	2539.87	2128.25	1108.34	1226.63	1863.77	306.861	50.3299	1050.92	1050.92	50.3100
20599.2	1.89235	21091.6	21466.5	12052.8	15845.5	21348.6	4375.64	0.420352	14034.6	14034.6	0

ProMax Dehydration Emissions Report

Case Name: Reveille - 20260816

File Name: C:\Users\Admin\Resolute Compliance, LLC\Environmental Compliance - General\Env\Projects\Env-EnLink-0349\5.0 NSR Mod - Red Raider CS\5.2 Modeling\5.2.2 BRE ProMax-Other Simulation\Red Raider and Reveille Dehy NSR - 20260816.pmx

Date:

Description:

Dry Gas Flow Rate	167.31	MMSCFD
Dry Gas Water Content	1.26	lb/MMSCF
Glycol Circulation Rate	30.00	sgpm
Glycol Circulation Ratio	8.32	gal/lb
Annual Operating Hours	8760	hrs

INPUT SUMMARY:

Feed Stream Specifications	
Fraction of Water Saturaton (%)	100.00
Water Content (lbm/MMSCF)	30.97
Temperature (°F)	81.00
Pressure (psig)	1030.00
Flow Rate (MMSCFD)	170.00

Lean Glycol Specifications	
Glycol Circulation Rate (sgpm)	30.00

Regenerator Specifications	
Reboiler Temperature (°F)	400.000
Overhead Vapors	To Control Device
Is Reflux Coil Present?	Yes

Flash Tank Specifications	
Is Flash Tank Present?	Flash Tank Present
Temperature (°F)	110.00
Pressure (psig)	65.00
Flash Gas	FALSE

Stripping Gas Specifications	
Nitrogen (scfm)	Not In Use
Dry gas (scfm)	Not In Use

Kimray Pump Specifications	
Type	Electric/Pneumatic
Gas Injection Volume Ratio (scfm/gpm)	0.000

Methanol Specifications	
Is Methanol Present?	Not Present in Feed
MeOH Feed Mass Fraction (ppm)	0.00

BTEX Condenser Specifications	
Temperature (°F)	120.00
Pressure (psig)	-0.30
BTEX Emissions	To Flare

General Specifications	
Atmospheric Pressure (psia)	14.400
Flash Gas Flare Destruction Efficiency (%)	98.000
Regenerator Flare Destruction Efficiency (%)	98.000

Feed Composition Data (mol %)	
Carbon Dioxide	0.11
Hydrogen Sulfide	0.00
Nitrogen	0.91
Methane	77.37
Ethane	11.71
Propane	5.53
i-Butane	0.82
n-Butane	1.91
i-Pentane	0.49
n-Pentane	0.57
Cyclopentane	0.03
n-Hexane	0.18
Cyclohexane	0.08
n-Heptane	0.16
Methylcyclohexane	0.08
2,2,4-Trimethylpentane	0.01
Benzene	0.01
Toluene	0.01
Ethylbenzene	0.00
o-Xylene	0.00
m-Xylene	0.00
p-Xylene	0.00
Triethylene Glycol	0.00
Ethylene Glycol	0.00
Water	0.00
Methanol	0.00
O2	0.00
SO2	0.00
Total	100.00

EMISSIONS REPORTS:

CONTROLLED REGENERATOR EMISSIONS

Component	lbs/hr	lbs/day	tons/yr
Carbon Dioxide	332.69	7984.53	1457.18
Hydrogen Sulfide	0.00	0.00	0.00
Nitrogen	3409.17	81820.18	14932.18
Methane	0.07	1.61	0.29
Ethane	0.18	4.37	0.80
Propane	0.32	7.79	1.42
i-Butane	0.08	1.94	0.35
n-Butane	0.34	8.18	1.49
i-Pentane	0.14	3.29	0.60
n-Pentane	0.21	4.95	0.90
Cyclopentane	0.07	1.66	0.30
n-Hexane	0.08	2.02	0.37
Cyclohexane	0.13	3.16	0.58
n-Heptane	0.08	1.96	0.36
Methylcyclohexane	0.09	2.20	0.40
2,2,4-Trimethylpentane	0.01	0.20	0.04
Benzene	0.19	4.48	0.82
Toluene	0.16	3.92	0.72
Ethylbenzene	0.00	0.08	0.01
o-Xylene	0.00	0.12	0.02
m-Xylene	0.02	0.41	0.08
p-Xylene	0.01	0.29	0.05
Triethylene Glycol	0.00	0.00	0.00
Ethylene Glycol	0.00	0.00	0.00
Water	156.48	3755.49	685.38
Methanol	0.00	0.00	0.00
O2	659.44	15826.49	2888.33
SO2	0.00	0.00	0.00
Total Emissions	4559.97	109439.33	19972.68
Total HC Emissions	2.19	52.63	9.61
Total VOC Emissions	1.94	46.65	8.51
Total HAP Emissions	0.48	11.53	2.10
Total GHG Emissions	332.76	7986.14	1457.47

UNCONTROLLED REGENERATOR EMISSIONS

Component	lbs/hr	lbs/day	tons/yr
Carbon Dioxide	1.08	25.89	4.73
Hydrogen Sulfide	0.00	0.00	0.00
Nitrogen	0.00	0.10	0.02
Methane	3.36	80.76	14.74
Ethane	9.15	219.51	40.06
Propane	16.44	394.65	72.02
i-Butane	4.16	99.93	18.24
n-Butane	17.79	427.01	77.93
i-Pentane	7.60	182.33	33.28
n-Pentane	11.71	281.01	51.29
Cyclopentane	4.33	103.81	18.95
n-Hexane	5.94	142.48	26.00
Cyclohexane	10.71	257.03	46.91
n-Heptane	8.83	211.84	38.66
Methylcyclohexane	10.34	248.23	45.30
2,2,4-Trimethylpentane	0.85	20.45	3.73
Benzene	15.59	374.21	68.29
Toluene	24.01	576.18	105.15
Ethylbenzene	1.12	26.95	4.92
o-Xylene	1.74	41.88	7.64
m-Xylene	5.90	141.66	25.85
p-Xylene	4.08	97.80	17.85
Triethylene Glycol	0.05	1.16	0.21
Ethylene Glycol	0.00	0.00	0.00
Water	207.28	4974.82	907.91
Methanol	0.00	0.00	0.00
O2	0.00	0.00	0.00
SO2	0.00	0.00	0.00
Total Emissions	372.07	8929.71	1629.67
Total HC Emissions	163.70	3928.89	717.02
Total VOC Emissions	151.19	3628.63	662.22
Total HAP Emissions	59.23	1421.61	259.44
Total GHG Emissions	4.44	106.65	19.46

CONTROLLED FLASH TANK EMISSIONS

Component	lbs/hr	lbs/day	tons/yr
Carbon Dioxide	0.00	0.00	0.00
Hydrogen Sulfide	0.00	0.00	0.00
Nitrogen	0.00	0.00	0.00
Methane	0.00	0.00	0.00
Ethane	0.00	0.00	0.00
Propane	0.00	0.00	0.00
i-Butane	0.00	0.00	0.00
n-Butane	0.00	0.00	0.00
i-Pentane	0.00	0.00	0.00
n-Pentane	0.00	0.00	0.00
Cyclopentane	0.00	0.00	0.00
n-Hexane	0.00	0.00	0.00
Cyclohexane	0.00	0.00	0.00
n-Heptane	0.00	0.00	0.00
Methylcyclohexane	0.00	0.00	0.00
2,2,4-Trimethylpentane	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.00	0.00
Ethylbenzene	0.00	0.00	0.00
o-Xylene	0.00	0.00	0.00
m-Xylene	0.00	0.00	0.00
p-Xylene	0.00	0.00	0.00
Triethylene Glycol	0.00	0.00	0.00
Ethylene Glycol	0.00	0.00	0.00
Water	0.00	0.00	0.00
Methanol	0.00	0.00	0.00
O2	0.00	0.00	0.00
SO2	0.00	0.00	0.00
Total Emissions	0.00	0.00	0.00
Total HC Emissions	0.00	0.00	0.00
Total VOC Emissions	0.00	0.00	0.00
Total HAP Emissions	0.00	0.00	0.00
Total GHG Emissions	0.00	0.00	0.00

UNCONTROLLED FLASH TANK OFF GAS

Component	lbs/hr	lbs/day	tons/yr
Carbon Dioxide	1.44	34.49	6.29
Hydrogen Sulfide	0.00	0.00	0.00
Nitrogen	0.29	6.98	1.27
Methane	51.31	1231.52	224.75
Ethane	35.42	849.98	155.12
Propane	31.03	744.70	135.91
i-Butane	5.58	133.97	24.45
n-Butane	15.67	376.00	68.62
i-Pentane	4.07	97.70	17.83
n-Pentane	5.10	122.45	22.35
Cyclopentane	0.43	10.25	1.87
n-Hexane	1.31	31.54	5.76
Cyclohexane	0.72	17.37	3.17
n-Heptane	0.96	23.07	4.21
Methylcyclohexane	0.54	13.08	2.39
2,2,4-Trimethylpentane	0.10	2.34	0.43
Benzene	0.18	4.29	0.78
Toluene	0.14	3.39	0.62
Ethylbenzene	0.00	0.09	0.02
o-Xylene	0.00	0.11	0.02
m-Xylene	0.02	0.48	0.09
p-Xylene	0.01	0.36	0.07
Triethylene Glycol	0.00	0.02	0.00
Ethylene Glycol	0.00	0.00	0.00
Water	0.16	3.94	0.72
Methanol	0.00	0.00	0.00
O2	0.00	0.00	0.00
SO2	0.00	0.00	0.00
Total Emissions	154.51	3708.12	676.73
Total HC Emissions	152.61	3662.71	668.45
Total VOC Emissions	65.88	1581.21	288.57
Total HAP Emissions	1.78	42.61	7.78
Total GHG Emissions	52.75	1266.02	231.05

COMBINED REGENERATOR VENT/FLASH GAS EMISSIONS

Component	lbs/hr	lbs/day	tons/yr
Carbon Dioxide	332.69	7984.53	1457.18
Hydrogen Sulfide	0.00	0.00	0.00
Nitrogen	3409.17	81820.18	14932.18
Methane	0.07	1.61	0.29
Ethane	0.18	4.37	0.80
Propane	0.32	7.79	1.42
i-Butane	0.08	1.94	0.35
n-Butane	0.34	8.18	1.49
i-Pentane	0.14	3.29	0.60
n-Pentane	0.21	4.95	0.90
Cyclopentane	0.07	1.66	0.30
n-Hexane	0.08	2.02	0.37
Cyclohexane	0.13	3.16	0.58
n-Heptane	0.08	1.96	0.36
Methylcyclohexane	0.09	2.20	0.40
2,2,4-Trimethylpentane	0.01	0.20	0.04
Benzene	0.19	4.48	0.82
Toluene	0.16	3.92	0.72
Ethylbenzene	0.00	0.08	0.01
o-Xylene	0.00	0.12	0.02
m-Xylene	0.02	0.41	0.08
p-Xylene	0.01	0.29	0.05
Triethylene Glycol	0.00	0.00	0.00
Ethylene Glycol	0.00	0.00	0.00
Water	156.48	3755.49	685.38
Methanol	0.00	0.00	0.00
O2	659.44	15826.49	2888.33
SO2	0.00	0.00	0.00
Total Emissions	4559.97	109439.33	19972.68
Total HC Emissions	2.19	52.63	9.61
Total VOC Emissions	1.94	46.65	8.51
Total HAP Emissions	0.48	11.53	2.10
Total GHG Emissions	332.76	7986.14	1457.47

EQUIPMENT REPORTS:

BTEX CONDENSER

Condenser Outlet Temperature:	120.00	deg. F
Condenser Pressure:	14.10	psia
Condenser Duty:	-0.23	MMBTU/hr
Hydrocarbon Recovery:	4.60	bbls/day
Produced Water:	13.88	bbls/day
VOC Control Efficiency:	35.70	%
HAP Control Efficiency:	59.45	%
BTEX Control Efficiency:	63.03	%
Dissolved Hydrocarbons in Water:	601.90	mg/L

Component	Emitted (wt. %)	Condensed (wt. %)
Carbon Dioxide	99.60	0.40
Hydrogen Sulfide	0.00	0.00
Nitrogen	99.97	0.03
Methane	99.91	0.09
Ethane	99.54	0.46
Propane	98.68	1.32
i-Butane	97.09	2.91
n-Butane	95.78	4.22
i-Pentane	90.28	9.72
n-Pentane	88.00	12.00
Cyclopentane	79.97	20.03
n-Hexane	70.92	29.08
Cyclohexane	61.46	38.54
n-Heptane	46.25	53.75
Methylcyclohexane	44.24	55.76
2,2,4-Trimethylpentane	49.20	50.80
Benzene	59.86	40.14
Toluene	34.05	65.95
Ethylbenzene	15.12	84.88
o-Xylene	14.15	85.85
m-Xylene	14.53	85.47
p-Xylene	14.85	85.15
Triethylene Glycol	0.00	100.00
Ethylene Glycol	0.00	0.00
Water	2.37	97.63
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00

ABSORBER

Absorber Stages:	3.00	
Dry Gas Dew Point:	1.26	lb H2O/MMSCF
Temperature:	90.99	deg. F
Pressure:	1049.40	psia
Dry Gas Flow Rate:	167.31	MMSCFD
TEG Losses with Dry Gas:	0.79	lb/hr
Wet Gas Water Content:	30.97	lb H2O/MMSCF
Lean Glycol Recirc. Ratio:	8.32	gal/lb H2O

Component	In Dry Gas (%)	Absorbed in Glycol (%)
Carbon Dioxide	99.72	0.28
Hydrogen Sulfide	-	-
Nitrogen	99.99	0.01
Methane	99.98	0.02
Ethane	99.93	0.07
Propane	99.89	0.11
i-Butane	99.88	0.12
n-Butane	99.82	0.18
i-Pentane	99.79	0.21
n-Pentane	99.73	0.27
Cyclopentane	98.65	1.35
n-Hexane	99.63	0.37
Cyclohexane	98.55	1.45
n-Heptane	99.37	0.63
Methylcyclohexane	98.51	1.49
2,2,4-Trimethylpentane	99.44	0.56
Benzene	87.40	12.60
Toluene	80.77	19.23
Ethylbenzene	74.24	25.76
o-Xylene	67.77	32.23
m-Xylene	75.87	24.13
p-Xylene	77.68	22.32
Triethylene Glycol	0.00	100.00
Ethylene Glycol	-	-
Water	2.43	97.57
Methanol	-	-
O2	-	-
SO2	-	-

FLASH TANK

Flash Temperature:	110	deg. F
Flash Pressure:	65	psig

Component	Flashed (wt. %)	Left in Glycol (wt. %)
Carbon Dioxide	57.12	42.88
Hydrogen Sulfide	0.00	0.00
Nitrogen	98.52	1.48
Methane	93.85	6.15
Ethane	79.48	20.52
Propane	65.36	34.64
i-Butane	57.28	42.72
n-Butane	46.82	53.18
i-Pentane	34.89	65.11
n-Pentane	30.35	69.65
Cyclopentane	8.99	91.01
n-Hexane	18.12	81.88
Cyclohexane	6.33	93.67
n-Heptane	9.82	90.18
Methylcyclohexane	5.00	95.00
2,2,4-Trimethylpentane	10.27	89.73
Benzene	1.13	98.87
Toluene	0.57	99.43
Ethylbenzene	0.32	99.68
o-Xylene	0.22	99.78
m-Xylene	0.31	99.69
p-Xylene	0.34	99.66
Triethylene Glycol	0.00	100.00
Ethylene Glycol	0.00	0.00
Water	0.05	99.95
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00

REGENERATOR

Component	Recovered in Glycol (%)	Distilled Overhead (%)
Carbon Dioxide	0.00	100.00
Hydrogen Sulfide	-	-
Nitrogen	0.00	100.00
Methane	0.00	100.00
Ethane	0.00	100.00
Propane	0.00	100.00
i-Butane	0.00	100.00
n-Butane	0.00	100.00
i-Pentane	0.00	100.00
n-Pentane	0.00	100.00
Cyclopentane	0.01	99.99
n-Hexane	0.00	100.00
Cyclohexane	0.02	99.98
n-Heptane	0.00	100.00
Methylcyclohexane	0.04	99.96
2,2,4-Trimethylpentane	0.00	100.00
Benzene	0.54	99.46
Toluene	2.23	97.77
Ethylbenzene	7.19	92.81
o-Xylene	13.40	86.60
m-Xylene	7.48	92.52
p-Xylene	6.80	93.20
Triethylene Glycol	100.00	0.00
Ethylene Glycol	-	-
Water	41.46	58.54
Methanol	-	-
O2	-	-
SO2	-	-

STREAM REPORTS:

WET GAS STREAM

Temperature:	80.99	deg F
Pressure:	1044.40	psia
Flow Rate:	167.49	MMSCFD

Component	Conc. (mol%)	Mass Flow (lb/h)
Carbon Dioxide	0.11	904.12
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.92	4753.01
Methane	78.05	230274.43
Ethane	11.66	64486.59
Propane	5.39	43747.89
i-Butane	0.77	8219.16
n-Butane	1.76	18864.75
i-Pentane	0.42	5619.41
n-Pentane	0.48	6308.38
Cyclopentane	0.03	353.05
n-Hexane	0.13	1984.97
Cyclohexane	0.05	789.00
n-Heptane	0.08	1554.19
Methylcyclohexane	0.04	732.15
2,2,4-Trimethylpentane	0.01	169.36
Benzene	0.01	125.73
Toluene	0.01	127.87
Ethylbenzene	0.00	4.62
o-Xylene	0.00	5.99
m-Xylene	0.00	26.05
p-Xylene	0.00	19.36
Triethylene Glycol	0.00	0.00
Ethylene Glycol	0.00	0.00
Water	0.07	216.27
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	389286.34

DRY GAS STREAM

Temperature:	81.85	deg F
Pressure:	1039.40	psia
Flow Rate:	167.31	MMSCFD

Component	Conc. (mol%)	Mass Flow (lb/h)
Carbon Dioxide	0.11	901.60
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.92	4752.71
Methane	78.12	230219.76
Ethane	11.67	64442.03
Propane	5.39	43700.42
i-Butane	0.77	8209.41
n-Butane	1.76	18831.29
i-Pentane	0.42	5607.74
n-Pentane	0.47	6291.57
Cyclopentane	0.03	348.30
n-Hexane	0.12	1977.72
Cyclohexane	0.05	777.56
n-Heptane	0.08	1544.40
Methylcyclohexane	0.04	721.26
2,2,4-Trimethylpentane	0.01	168.41
Benzene	0.01	109.96
Toluene	0.01	103.73
Ethylbenzene	0.00	3.50
o-Xylene	0.00	4.25
m-Xylene	0.00	20.13
p-Xylene	0.00	15.27
Triethylene Glycol	0.00	0.79
Ethylene Glycol	0.00	0.00
Water	0.00	8.81
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	388760.60

LEAN GLYCOL STREAM

Temperature:	90.99	deg F
Pressure:	1049.40	psia
Flow Rate:	30.00	sgpm

Component	Conc. (wt%)	Mass Flow (lb/h)
Carbon Dioxide	0.00	0.00
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.00	0.00
Methane	0.00	0.00
Ethane	0.00	0.00
Propane	0.00	0.00
i-Butane	0.00	0.00
n-Butane	0.00	0.00
i-Pentane	0.00	0.00
n-Pentane	0.00	0.00
Cyclopentane	0.00	0.00
n-Hexane	0.00	0.00
Cyclohexane	0.00	0.00
n-Heptane	0.00	0.00
Methylcyclohexane	0.00	0.00
2,2,4-Trimethylpentane	0.00	0.00
Benzene	0.00	0.09
Toluene	0.00	0.55
Ethylbenzene	0.00	0.09
o-Xylene	0.00	0.27
m-Xylene	0.00	0.48
p-Xylene	0.00	0.30
Triethylene Glycol	99.12	16783.63
Ethylene Glycol	0.00	0.00
Water	0.87	146.82
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	16932.22

RICH GLYCOL STREAM

Temperature:	81.80	deg F
Pressure:	1044.40	psia
Flow Rate:	31.71	sgpm

Component	Conc. (wt%)	Mass Flow (lb/h)
Carbon Dioxide	0.01	2.52
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.00	0.30
Methane	0.31	54.68
Ethane	0.26	44.56
Propane	0.27	47.47
i-Butane	0.06	9.75
n-Butane	0.19	33.46
i-Pentane	0.07	11.67
n-Pentane	0.10	16.81
Cyclopentane	0.03	4.75
n-Hexane	0.04	7.25
Cyclohexane	0.07	11.44
n-Heptane	0.06	9.79
Methylcyclohexane	0.06	10.89
2,2,4-Trimethylpentane	0.01	0.95
Benzene	0.09	15.86
Toluene	0.14	24.70
Ethylbenzene	0.01	1.21
o-Xylene	0.01	2.02
m-Xylene	0.04	6.40
p-Xylene	0.03	4.39
Triethylene Glycol	96.13	16782.84
Ethylene Glycol	0.00	0.00
Water	2.03	354.27
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	17457.97

FLASH TANK OFF GAS STREAM

Temperature:	110.00	deg F
Pressure:	79.40	psia
Flow Rate:	2153.62	scfh

Component	Conc. (mol%)	Mass Flow (lb/h)
Carbon Dioxide	0.58	1.44
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.18	0.29
Methane	56.36	51.31
Ethane	20.75	35.42
Propane	12.40	31.03
i-Butane	1.69	5.58
n-Butane	4.75	15.67
i-Pentane	0.99	4.07
n-Pentane	1.25	5.10
Cyclopentane	0.11	0.43
n-Hexane	0.27	1.31
Cyclohexane	0.15	0.72
n-Heptane	0.17	0.96
Methylcyclohexane	0.10	0.54
2,2,4-Trimethylpentane	0.02	0.10
Benzene	0.04	0.18
Toluene	0.03	0.14
Ethylbenzene	0.00	0.00
o-Xylene	0.00	0.00
m-Xylene	0.00	0.02
p-Xylene	0.00	0.01
Triethylene Glycol	0.00	0.00
Ethylene Glycol	0.00	0.00
Water	0.16	0.16
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	154.51

FLASH TANK GLYCOL STREAM

Temperature:	110.00	deg F
Pressure:	79.40	psia
Flow Rate:	30.92	sgpm

Component	Conc. (wt%)	Mass Flow (lb/h)
Carbon Dioxide	0.01	1.08
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.00	0.00
Methane	0.02	3.36
Ethane	0.05	9.15
Propane	0.10	16.44
i-Butane	0.02	4.16
n-Butane	0.10	17.79
i-Pentane	0.04	7.60
n-Pentane	0.07	11.71
Cyclopentane	0.03	4.33
n-Hexane	0.03	5.94
Cyclohexane	0.06	10.71
n-Heptane	0.05	8.83
Methylcyclohexane	0.06	10.35
2,2,4-Trimethylpentane	0.00	0.85
Benzene	0.09	15.68
Toluene	0.14	24.56
Ethylbenzene	0.01	1.21
o-Xylene	0.01	2.01
m-Xylene	0.04	6.38
p-Xylene	0.03	4.37
Triethylene Glycol	96.99	16782.84
Ethylene Glycol	0.00	0.00
Water	2.05	354.11
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	17303.46

REGENERATOR OVERHEADS STREAM

Temperature:	202.55	deg F
Pressure:	14.10	psia
Flow Rate:	5351.89	scfh

Component	Conc. (mol%)	Mass Flow (lb/h)
Carbon Dioxide	0.17	1.08
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.00	0.00
Methane	1.49	3.36
Ethane	2.16	9.15
Propane	2.64	16.44
i-Butane	0.51	4.16
n-Butane	2.17	17.79
i-Pentane	0.75	7.60
n-Pentane	1.15	11.71
Cyclopentane	0.44	4.33
n-Hexane	0.49	5.94
Cyclohexane	0.90	10.71
n-Heptane	0.62	8.83
Methylcyclohexane	0.75	10.34
2,2,4-Trimethylpentane	0.05	0.85
Benzene	1.42	15.59
Toluene	1.85	24.01
Ethylbenzene	0.07	1.12
o-Xylene	0.12	1.74
m-Xylene	0.39	5.90
p-Xylene	0.27	4.08
Triethylene Glycol	0.00	0.05
Ethylene Glycol	0.00	0.00
Water	81.59	207.28
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	372.07

BTEX CONDENSER VENT GAS STREAM

Temperature:	120.00	deg F
Pressure:	14.10	psia
Flow Rate:	861.84	scfh

Component	Conc. (mol%)	Mass Flow (lb/h)
Carbon Dioxide	1.08	1.07
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.01	0.00
Methane	9.23	3.36
Ethane	13.33	9.10
Propane	16.20	16.23
i-Butane	3.06	4.04
n-Butane	12.91	17.04
i-Pentane	4.19	6.86
n-Pentane	6.29	10.30
Cyclopentane	2.17	3.46
n-Hexane	2.15	4.21
Cyclohexane	3.44	6.58
n-Heptane	1.79	4.08
Methylcyclohexane	2.05	4.58
2,2,4-Trimethylpentane	0.16	0.42
Benzene	5.26	9.33
Toluene	3.91	8.17
Ethylbenzene	0.07	0.17
o-Xylene	0.10	0.25
m-Xylene	0.36	0.86
p-Xylene	0.25	0.60
Triethylene Glycol	0.00	0.00
Ethylene Glycol	0.00	0.00
Water	11.99	4.90
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	115.64

BTEX CONDENSER RECOVERED OIL STREAM

Temperature:	120.00	deg F
Pressure:	14.10	psia
Flow Rate:	0.13	sgpm

Component	Conc. (mol%)	Mass Flow (lb/h)
Carbon Dioxide	0.01	0.00
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.00	0.00
Methane	0.03	0.00
Ethane	0.23	0.04
Propane	0.82	0.22
i-Butane	0.35	0.12
n-Butane	2.16	0.75
i-Pentane	1.71	0.74
n-Pentane	3.25	1.40
Cyclopentane	2.06	0.87
n-Hexane	3.35	1.73
Cyclohexane	8.20	4.13
n-Heptane	7.92	4.74
Methylcyclohexane	9.82	5.77
2,2,4-Trimethylpentane	0.63	0.43
Benzene	13.26	6.19
Toluene	28.64	15.79
Ethylbenzene	1.50	0.95
o-Xylene	2.36	1.50
m-Xylene	7.94	5.04
p-Xylene	5.46	3.47
Triethylene Glycol	0.00	0.00
Ethylene Glycol	0.00	0.00
Water	0.32	0.03
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	53.92

BTEX CONDENSER PRODUCED WATER STREAM

Temperature:	120.00	deg F
Pressure:	14.10	psia
Flow Rate:	0.40	sgpm

Component	Conc. (mol%)	Mass Flow (lb/h)
Carbon Dioxide	0.00	0.00
Hydrogen Sulfide	0.00	0.00
Nitrogen	0.00	0.00
Methane	0.00	0.00
Ethane	0.00	0.00
Propane	0.00	0.00
i-Butane	0.00	0.00
n-Butane	0.00	0.00
i-Pentane	0.00	0.00
n-Pentane	0.00	0.00
Cyclopentane	0.00	0.00
n-Hexane	0.00	0.00
Cyclohexane	0.00	0.00
n-Heptane	0.00	0.00
Methylcyclohexane	0.00	0.00
2,2,4-Trimethylpentane	0.00	0.00
Benzene	0.01	0.06
Toluene	0.00	0.04
Ethylbenzene	0.00	0.00
o-Xylene	0.00	0.00
m-Xylene	0.00	0.00
p-Xylene	0.00	0.00
Triethylene Glycol	0.00	0.05
Ethylene Glycol	0.00	0.00
Water	99.98	202.35
Methanol	0.00	0.00
O2	0.00	0.00
SO2	0.00	0.00
Total Components	100.00	202.52

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CATALYTIC COMBUSTION
EMISSION TECHNOLOGIES

To OneOK
Attn Kevin Poffenberger
Via E-mail

Our Ref. 00000804.02
Date: 11 May, 2026

Catalyst Performance

For : CAT G3616

Project/Location : Red Raider & Reveille Station - OneOK

Engine Parameters

Engine Manufacturer	Caterpillar	
Engine Model	G3616	
Horsepower	5500	bhp
Speed	1000	rpm
Exhaust Flowrate	33822	acfm
Exhaust Temperature	790	° F
Fuel	Natural Gas	

	Raw Exhaust	
NOx	0.30	g/bhp-hr
CO	2.15	g/bhp-hr
NMHC	0.24	g/bhp-hr
NMNEHC (VOC)	0.16	g/bhp-hr
HCHO	0.10	g/bhp-hr
Oxygen	11.40	%

Catalyst Description and Performance Expectations

Catalyst Model	GACB-3621F-D-15HF-HFX4	Overall Dimensions	41.5 x 21 x 3.7
Cell Pattern, Substrate	15HF	Catalyst Qty Required	8 per Unit
Formulation	HFX4	Pressure Drop	2.6 inches of H2O
Warranty Period [hrs]	24000		

	Performance	
NOx	0.30	g/bhp-hr
CO	0.40	g/bhp-hr
NMNEHC (VOC)	0.40	g/bhp-hr
HCHO	0.023	g/bhp-hr

Application Notes and Exceptions:

- Engine operating conditions and raw emissions to be confirmed/verified by end user.

Please contact us if you have any questions or to let us know how we can be of further help.

Best regards,

Josh Martin

Josh Martin
Sales and Business Development Manager, Catalytic Combustion Corporation
Prepared By: DW

ENGINE SPEED (rpm):	1000	RATING STRATEGY:	GEN 2 KIT - LOW ALTITUDE - NO CCV
COMPRESSION RATIO:	7.6	APPLICATION:	GAS COMPRESSION
AFTERCOOLER TYPE:	SCAC	RATING LEVEL:	CONTINUOUS
AFTERCOOLER - STAGE 2 INLET (°F):	130	FUEL:	NAT GAS
AFTERCOOLER - STAGE 1 INLET (°F):	174	FUEL SYSTEM:	GAV WITH AIR FUEL RATIO CONTROL
JACKET WATER OUTLET (°F):	190		
ASPIRATION:	TA	FUEL PRESSURE RANGE(psia): (See note 1)	84.8-94.6
COOLING SYSTEM:	JW+1AC, OC+2AC	FUEL METHANE NUMBER:	85
CONTROL SYSTEM:	ADEM4	FUEL LHV (Btu/scf):	905
EXHAUST MANIFOLD:	DRY	ALTITUDE CAPABILITY AT 100°F INLET AIR TEMP. (ft):	3658
COMBUSTION:	LOW EMISSION		
NOx EMISSION LEVEL (g/bhp-hr NOx):	0.3		

RATING		NOTES	LOAD	100%	75%	50%
ENGINE POWER	(WITHOUT FAN)	(2)	bhp	5500	4125	2750
ENGINE EFFICIENCY	(ISO 3046/1)	(3)	%	38.8	37.8	35.6
ENGINE EFFICIENCY	(NOMINAL)	(3)	%	37.9	36.9	34.8
ENGINE DATA						
FUEL CONSUMPTION	(ISO 3046/1)	(4)	Btu/bhp-hr	6554	6734	7145
FUEL CONSUMPTION	(NOMINAL)	(4)	Btu/bhp-hr	6714	6898	7320
AIR FLOW (77°F, 14.7 psia)	(WET)	(5)(6)	ft3/min	13608	10266	6965
AIR FLOW	(WET)	(5)(6)	lb/hr	60341	45519	30883
FUEL FLOW (60°F, 14.7 psia)			scfm	680	524	371
COMPRESSOR OUT PRESSURE			psi(abs)	61.4	45.7	31.3
COMPRESSOR OUT TEMPERATURE			°F	436	356	258
AFTERCOOLER AIR OUT TEMPERATURE			°F	135	135	135
INLET MAN. PRESSURE		(7)	psi(abs)	60.0	44.6	30.5
INLET MAN. TEMPERATURE	(MEASURED IN PLENUM)	(8)	°F	135	135	135
TIMING		(9)	°BTDC	18	17	16
EXHAUST TEMPERATURE - ENGINE OUTLET		(10)	°F	790	844	897
EXHAUST GAS FLOW (@engine outlet temp, 14.5 psia)	(WET)	(6)(11)	ft3/min	33822	26635	18844
EXHAUST GAS MASS FLOW	(WET)	(6)(11)	lb/hr	62205	46956	31900
EMISSIONS DATA - EXHAUST OUT						
NOx (as NO2)		(12)(13)	g/bhp-hr	0.30	0.30	0.30
CO		(12)(14)	g/bhp-hr	2.15	2.15	2.15
NMHC (mol. wt. of 15.84)		(12)(14)	g/bhp-hr	0.24	0.27	0.29
NMNEHC (VOCs) (mol. wt. of 15.84)		(12)(14)(15)	g/bhp-hr	0.16	0.18	0.19
HCHO (Formaldehyde)		(12)(14)	g/bhp-hr	0.10	0.11	0.14
CH4 (mol. wt. of 16.04)	(NOMINAL)	(12)(16)	g/bhp-hr	2.02	2.24	2.40
CO2	(NOMINAL)	(12)(16)	g/bhp-hr	383	400	422
EXHAUST OXYGEN	(NOMINAL)	(12)(17)	% DRY	11.4	11.1	10.7
LAMBDA		(12)(17)		2.04	2.00	1.92
ENERGY BALANCE DATA						
LHV INPUT		(18)	Btu/min	615364	474193	335451
HEAT REJECTION TO JACKET WATER (JW)		(19)(27)	Btu/min	56558	48125	42384
HEAT REJECTION TO ATMOSPHERE		(20)	Btu/min	19751	17841	16213
HEAT REJECTION TO LUBE OIL (OC)		(21)(28)	Btu/min	30768	28452	25159
HEAT REJECTION TO EXHAUST (LHV TO 77°F)		(22)(23)	Btu/min	198465	161306	116861
HEAT REJECTION TO EXHAUST (LHV TO 350°F)		(22)	Btu/min	120726	102618	77576
HEAT REJECTION TO A/C - STAGE 1 (1AC)		(24)(27)	Btu/min	58223	30363	9439
HEAT REJECTION TO A/C - STAGE 2 (2AC)		(25)(28)	Btu/min	15421	10235	5828
PUMP POWER		(26)	Btu/min	2957	2957	2957

CONDITIONS AND DEFINITIONS

Engine rating obtained and presented in accordance with ISO 3046/1. (Standard reference conditions of 77°F, 14.50 PSI barometric pressure.) No overload permitted at rating shown. Consult the altitude deration factor chart for applications that exceed the rated altitude or temperature.

Emission levels are at engine exhaust flange prior to any after treatment. Values are based on engine operating at steady state conditions, adjusted to the specified NOx level at 100% load. Tolerances specified are dependent upon fuel quality. Fuel methane number cannot vary more than ± 3.

For notes information consult page three.

FUEL USAGE GUIDE

METHANE NUMBER	<10	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	100
SET POINT TIMING	16	16	16	16	16	16	16	16	16	16	17	17	17	17	18	18	18	18
DERATION FACTOR	0	0.50	0.62	0.75	0.87	1	1	1	1	1	1	1	1	1	1	1	1	1

WOBBE INDEX(BTU/scfm)	700	850	1550	1870
DERATION FACTOR	0.7	1	1	0.82

ALTITUDE DERATION FACTORS AT RATED SPEED

INLET AIR TEMP °F	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000
130	1	0.96	0.91	0.87	0.82	0.78	0.73	0.69	0.67	0.66	0.64	0.61	0.59
120	1	1	0.96	0.92	0.87	0.83	0.78	0.74	0.70	0.68	0.65	0.63	0.61
110	1	1	1	0.98	0.93	0.89	0.84	0.80	0.75	0.71	0.68	0.65	0.62
100	1	1	1	1	0.99	0.94	0.89	0.85	0.80	0.76	0.71	0.68	0.65
90	1	1	1	1	1	1	0.95	0.91	0.86	0.81	0.77	0.72	0.68
80	1	1	1	1	1	1	0.98	0.94	0.89	0.84	0.80	0.75	0.70
70	1	1	1	1	1	1	1	0.95	0.90	0.86	0.81	0.76	0.72
60	1	1	1	1	1	1	1	0.96	0.92	0.87	0.83	0.78	0.73
50	1	1	1	1	1	1	1	0.98	0.93	0.89	0.84	0.79	0.75

ALTITUDE (FEET ABOVE SEA LEVEL)

AFTERCOOLER HEAT REJECTION FACTORS (ACHRF)

INLET AIR TEMP °F	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000
130	1.27	1.31	1.35	1.40	1.44	1.48	1.52	1.52	1.52	1.52	1.52	1.52	1.52
120	1.22	1.26	1.30	1.34	1.39	1.43	1.46	1.46	1.46	1.46	1.46	1.46	1.46
110	1.16	1.20	1.24	1.28	1.32	1.37	1.40	1.40	1.40	1.40	1.40	1.40	1.40
100	1.11	1.15	1.19	1.23	1.27	1.31	1.34	1.34	1.34	1.34	1.34	1.34	1.34
90	1.05	1.09	1.13	1.17	1.21	1.25	1.28	1.28	1.28	1.28	1.28	1.28	1.28
80	1	1.04	1.07	1.11	1.15	1.19	1.22	1.22	1.22	1.22	1.22	1.22	1.22
70	1	1	1.02	1.05	1.09	1.13	1.16	1.16	1.16	1.16	1.16	1.16	1.16
60	1	1	1	1	1.03	1.07	1.10	1.10	1.10	1.10	1.10	1.10	1.10
50	1	1	1	1	1	1.01	1.04	1.04	1.04	1.04	1.04	1.04	1.04

ALTITUDE (FEET ABOVE SEA LEVEL)

MINIMUM SPEED CAPABILITY AT THE RATED SPEED'S SITE TORQUE (RPM)

INLET AIR TEMP °F	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000
130	750	750	750	750	750	750	750	750	750	750	750	750	750
120	750	750	750	750	750	750	750	750	750	750	750	750	750
110	750	750	750	750	750	750	750	750	750	750	750	750	750
100	750	750	750	750	750	750	750	750	750	750	750	750	750
90	750	750	750	750	750	750	750	750	750	750	750	750	750
80	750	750	750	750	750	750	750	750	750	750	750	750	750
70	750	750	750	750	750	750	750	750	750	750	750	750	750
60	750	750	750	750	750	750	750	750	750	750	750	750	750
50	750	750	750	750	750	750	750	750	750	750	750	750	750

ALTITUDE (FEET ABOVE SEA LEVEL)

FUEL USAGE GUIDE:

This table shows the derate factor and full load set point timing required for a given fuel. Note that deration and set point timing adjustment may be required as the methane number decreases. Methane number is a scale to measure detonation characteristics of various fuels. The methane number of a fuel is determined by using the Caterpillar methane number calculation.
The Fuel Lower Heating Value (LHV) table shows the derate factor required for a given fuel. To determine the actual power available, use the lowest factor between the Fuel LHV table and the Methane Number table.

ALTITUDE DERATION FACTORS:

This table shows the deration required for various air inlet temperatures and altitudes. Use this information along with the fuel usage guide chart to help determine actual engine power for your site. The derate factors shown do not account for the external cooling system capacity. The derate factors provided assume the external cooling system can maintain the specified cooling water temperatures at site conditions.

ACTUAL ENGINE RATING:

To determine the actual rating of the engine at site conditions, one must consider separately, limitations due to fuel characteristics and air system limitations. The Fuel Usage Guide deration establishes fuel limitations. The Altitude/ Temperature deration factors and RPC(reference the Caterpillar Methane Program) establish air system limitations. RPC comes into play when the Altitude/Temperature deration is less than 1.0 (100%). Under this condition, add the two factors together. When the site conditions do not require an Altitude/Temperature derate (factor is 1.0), it is assumed the turbocharger has sufficient capability to overcome the low fuel relative power, and RPC is ignored. To determine the actual power available, take the lowest rating between 1) and 2).
1) Fuel Usage Guide Deration
2) 1 - ((1 - Altitude / Temperature Deration) +(1 - RPC))

AFTERCOOLER HEAT REJECTION FACTORS(ACHRF):

To maintain a constant air inlet manifold temperature, as the inlet air temperature goes up, so must the heat rejection. As altitude increases, the turbocharger must work harder to overcome the lower atmospheric pressure. This increases the amount of heat that must be removed from the inlet air by the aftercooler. Use the aftercooler heat rejection factor (ACHRF) to adjust for inlet air temp and altitude conditions. See notes (27) and (28) for application of this factor in calculating the heat exchanger sizing criteria. Failure to properly account for these factors could result in detonation and cause the engine to shutdown or fail.

MINIMUM SPEED CAPABILITY AT THE RATED SPEED'S SITE TORQUE (RPM):

This table shows the minimum allowable engine turndown speed where the engine will maintain the Rated Speed's Torque for the given ambient conditions.

NOTES:

1. Fuel pressure range specified is to the engine gas shutoff valve (GSOV). Additional fuel train components should be considered in pressure and flow calculations.
2. Engine rating is with two engine driven water pumps. Tolerance is ± 3% of full load.
3. ISO 3046/1 engine efficiency tolerance is (+)0, (-)5% of full load % efficiency value. Nominal engine efficiency tolerance is ± 2.5% of full load % efficiency value.
4. ISO 3046/1 fuel consumption tolerance is (+)5, (-)0% of full load data. Nominal fuel consumption tolerance is ± 2.5% of full load data.
5. Air flow value is on a 'wet' basis. Flow is a nominal value with a tolerance of ± 5 %.
6. Inlet and Exhaust Restrictions must not exceed A&I limits based on full load flow rates from the standard technical data sheet.
7. Inlet manifold pressure is a nominal value with a tolerance of ± 5 %.
8. Inlet manifold temperature is a nominal value with a tolerance of ± 9°F.
9. Timing indicated is for use with the minimum fuel methane number specified. Consult the appropriate fuel usage guide for timing at other methane numbers.
10. Exhaust temperature is a nominal value with a tolerance of (+)63°F, (-)54°F.
11. Exhaust flow value is on a 'wet' basis. Flow is a nominal value with a tolerance of ± 6 %.
12. Emissions data is at engine exhaust flange prior to any after treatment.
13. NOx values are the maximum values expected under steady state conditions.
14. CO, NMHC, NMNEHC, and HCHO are the maximum values expected under steady state conditions. NMHC, and NMNEHC do not include aldehydes. An oxidation catalyst may be required to meet Federal, State or local CO or HC requirements.
15. VOCs - Volatile organic compounds as defined in US EPA 40 CFR 60, subpart JJJJ
16. CO2 tolerance is ± 2.5%. CH4 tolerance is ± 26.0%. Fuel methane number cannot vary more than ± 3.
17. Exhaust Oxygen tolerance is ± 0.5; Lambda tolerance is ± 0.05. Lambda and Exhaust Oxygen level are the result of adjusting the engine to operate at the specified NOx level.
18. LHV rate tolerance is ± 2.5%.
19. Heat rejection to jacket water value displayed includes heat to jacket water alone. Value is based on treated water. Tolerance is ± 10% of full load data.
20. Heat rejection to atmosphere based on treated water. Tolerance is ± 50% of full load data.
21. Lube oil heat rate based on treated water. Tolerance is ± 20% of full load data.
22. Exhaust heat rate based on treated water. Tolerance is ± 10% of full load data.
23. Heat rejection to exhaust (LHV to 77°F) value shown includes unburned fuel and is not intended to be used for sizing or recovery calculations.
24. Heat rejection to A/C - Stage 1 based on treated water. Tolerance is ±5% of full load data.
25. Heat rejection to A/C - Stage 2 based on treated water. Tolerance is ±5% of full load data.
26. Pump power includes engine driven jacket water and aftercooler water pumps. Engine brake power includes effects of pump power.
27. Total Jacket Water Circuit heat rejection is calculated as: (JW x 1.1) + (1AC x 1.05) + [0.91 x (1AC + 2AC) x (ACHRF - 1) x 1.05]. Heat exchanger sizing criterion is maximum circuit heat rejection at site conditions, with applied tolerances. A cooling system safety factor may be multiplied by the total circuit heat rejection to provide additional margin.
28. Total Second Stage Aftercooler Circuit heat rejection is calculated as: (OC x 1.2) + (2AC x 1.05) + [(1AC + 2AC) x 0.09 x (ACHRF - 1) x 1.05]. Heat exchanger sizing criterion is maximum circuit heat rejection at site conditions, with applied tolerances. A cooling system safety factor may be multiplied by the total circuit heat rejection to provide additional margin.

FREE FIELD MECHANICAL & EXHAUST NOISE

MECHANICAL: Sound Power (1/3 Octave Frequencies)

Percent Load	Engine Power	Overall	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz
%	bhp	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
100	5500	132.1	96.9	100.6	101.0	104.2	105.8	108.6	109.9	110.6	113.8	117.2
75	4125	128.7	90.2	97.7	98.1	100.8	103.3	107.4	107.7	108.5	111.6	114.3
50	2750	125.7	86.2	94.2	94.0	100.8	102.9	106.6	108.3	108.3	110.5	111.5

MECHANICAL: Sound Power (1/3 Octave Frequencies)

Percent Load	Engine Power	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
%	bhp	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
100	5500	117.7	119.4	120.8	120.1	122.0	121.0	119.7	131.3	116.3	108.4	113.8
75	4125	114.4	117.1	119.2	118.4	120.2	118.8	120.6	118.7	112.2	114.8	107.8
50	2750	111.8	114.3	117.9	115.5	117.8	116.7	115.8	112.3	110.6	109.4	103.2

EXHAUST: Sound Power (1/3 Octave Frequencies)

Percent Load	Engine Power	Overall	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz
%	bhp	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
100	5500	144.8	107.2	113.7	115.7	115.1	115.3	121.9	124.5	122.8	122.7	129.3
75	4125	142.9	106.4	112.7	110.8	109.3	111.4	117.5	119.3	118.5	118.0	126.8
50	2750	139.7	105.7	109.3	104.5	103.9	106.7	111.7	113.7	113.3	114.1	124.2

EXHAUST: Sound Power (1/3 Octave Frequencies)

Percent Load	Engine Power	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
%	bhp	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
100	5500	130.0	131.0	133.5	133.6	134.8	136.0	136.1	135.5	135.2	134.1	131.9
75	4125	127.1	128.7	130.7	131.8	133.0	134.1	134.9	134.1	133.5	131.5	128.8
50	2750	124.0	125.8	127.4	129.6	131.0	132.0	131.3	130.5	129.1	126.3	123.4

SOUND PARAMETER DEFINITION:

Sound Power Level Data

Sound power is defined as the total sound energy emanating from a source irrespective of direction or distance. Sound power level data is presented under two index headings:
Sound power level -- Mechanical
Sound power level -- Exhaust

Mechanical: Sound power level data is calculated in accordance with ISO 3747. The data is recorded with the exhaust sound source isolated.

Exhaust: Sound power level data is calculated in accordance with ISO 6798 Annex A. Exhaust data is post-catalyst on gas engine ratings labeled as "Integrated Catalyst".

Measurements made in accordance with ISO 3747 and ISO 6798 for mechanical and exhaust sound level only. Frequency bands outside the displayed ranges are not measured, due to physical test, and environmental conditions that affect the accuracy of the measurement. No cooling system noise is included unless specifically indicated. Sound level data is indicative of noise levels recorded on one engine sample in a survey grade 3 environment.

How an engine is packaged, installed and the site acoustical environment will affect the site specific sound levels. For site specific sound level guarantees, sound data collection needs to be done on-site or under similar conditions.

TG400

TAYLOR POWER SYSTEMS



EPA Certified / Stationary Emergency

OUTPUT POWER OPTIONS					Natural Gas STANDBY RATING		LP Vapor STANDBY RATING		sKVA
Make	Voltage	Alternator	Phase	Hertz	kW/kVA	Amps	kW/kVA	Amps	30% Voltage Dip
Stamford	600	HCI534C17	3	60	400/500	482	295/396	355	1360
	277/480	HCI534C311	3	60	400/500	602	295/369	444	1480
	120/208	HCI534C311	3	60	400/500	1390	295/369	1025	1145
	120/240	HCI534C311	3	60	400/500	1204	295/369	888	1145
	120/240	HCI534C311	1	60	210/210	875	210/210	875	765
Stamford	277/480	HCI534D311	3	60	400/500	602	295/369	444	1750
	120/208	HCI534D311	3	60	400/500	1390	295/369	1025	1390
	120/240	HCI534D311	3	60	400/500	1204	295/369	888	1390
	120/240	HCI534D311	1	60	230/230	958	230/230	958	930
Marathon	600	433PSL6248	3	60	400/500	482	295/369	355	1380
	277/480	433CSL6220	3	60	400/500	602	295/369	444	1469
	120/208	433CSL6220	3	60	400/500	1390	295/369	1025	1103
	120/240	433CSL6220	3	60	400/500	1204	295/369	888	1103
	120/240	433CSL6220	1	60	241/241	1004	241/241	1004	430

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Engine Data

Manufacturer		PSI
Model		21.9L
Aspiration		Turbocharged
Arrangement		V-12, 4-Cycle
Firing Order		1-12-5-8-3-10-6-7-2-11-4-9
Displacement: L (in.³)		21.9 (1338.0)
Bore: mm (in.)		128.00 (5.04)
Stroke: mm (in.)		142.00 (5.59)
Compression Ratio		10.5:1
Gross Horsepower:	Natural Gas	684
	LP Vapor	472
BMEP: psi (kPa)	Natural Gas	225.00 (1551.32)
	LP Vapor	155.00 (1068.70)
Rated RPM		1800
Governor		Isochronous
Speed Regulation		±0.50%

Engine Liquid Capacity

Oil System: qt. (L)	38.5 (36.5)
Cooling Capacity: gal (L)	50.1 (189.6)

Engine Electrical

Electric Volts: DC	24
Cold Cranking Amps	1100
Battery(s) Required	2

Fuel System

Fuel Supply Size:	Natural Gas	3.00” NPT
	LP Vapor	3.00” NPT
Supply Pressure: in. H_2O (kPa)		7-11 (1.74-2.74)

Air Requirements

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m³/min)	968 (27)
Maximum Air Intake Restriction	
Clean: in. H_2O (kPa)	3.00 (1.24)
Dirty: in. H_2O (kPa)	15.00 (3.74)
Radiator Air Flow: CFM (m³/min)	40,000 (1133)

Exhaust System

Gas Temperature: °F (°C)	1382 (750)
Gas Flow: CFM (m³/min)	2995.0 (84.8)
Max Back Pressure: in. H_2O (kPa)	40.9 (10.2)

Filters and Quantity

Air Cleaner Quantity	1
Oil Filter(s) Quantity	1

Fuel Consumption - Natural Gas

At 100% of Power Rating: CFH (m³/hr)	4231 (119.8)
At 75% of Power Rating: CFH (m³/hr)	3298 (93.4)
At 50% of Power Rating: CFH (m³/hr)	2317 (65.6)
At 25% of Power Rating: CFH (m³/hr)	1413 (40.0)

Fuel Consumption - LP Vapor

At 100% of Power Rating: CFH (m³/hr)	1409 (39.9)
At 75% of Power Rating: CFH (m³/hr)	1201 (34.0)
At 50% of Power Rating: CFH (m³/hr)	809 (22.9)
At 25% of Power Rating: CFH (m³/hr)	512 (14.5)

GENERAL GUIDELINES FOR DERATION: Altitude: Derate 0.5% per 100m (328 ft.) Elevation above 1000m (3279 ft.) Temperature: Derate 1.0% per 10°C (18°F) temperature above 25°C (77°F)

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

125° RATINGS: 125° apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271.For limited running time and base load ratings consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

alternator and controller data

Alternator Data

Manufacturer	Stamford	
Type	PMG	
Insulation Class	NEMA H	
Temperature Rise	125°C Standby	
Hertz	60	
RPM	1800	
Amortisseur Windings	Full	
CFM Cooling Required	2780	
Voltage Regulator	MX341	MX321
Sensing	Single Phase	Three Phase
Voltage Regulation	1.0%	0.50%

Features

- BS EN 60034, BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, and AS1359 complaint
- IP23 enclosure
- Dynamically balanced to exceed BS6861:Part 1 Grade 2.5 vibration standard
- Quality assurance to BS EN ISO 9001
- Self-ventilated and Drip proof construction
- Two-thirds pitch stator and skewed rotor
- Heavy duty bearings
- Fully guarded
- Overexcitation protection
- Under frequency protection
- Analog input
- Overvoltage protection
- Paralleling compatible

Alternator Data

Manufacturer	Marathon	
Type	PMG	
Insulation Class	NEMA N	
Temperature Rise	125°C Standby	
Hertz	60	
RPM	1800	
Amortisseur Windings	Full	
CFM Cooling Required	800	
Voltage Regulator	DVR2400	PM500
Sensing	Three Phase	Three Phase
Voltage Regulation	0.25%	0.25%

Features

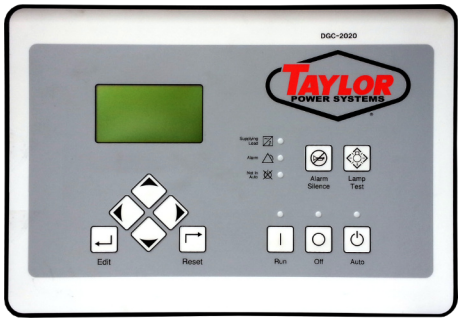
- NEMA MG1-32, BS5000, and IEC 34-1 compliant; CE & CSA Certified and UL Listed
- Self-ventilated and drip proof construction
- Two-thirds pitch stator and skewed rotor
- Wet wound, epoxied field windings
- Designed to withstand overspeeds of up to 125%
- Hybrid analog/digital voltage regulator
- Under frequency protection
- Under frequency indication light
- Less than one cycle response time
- Over excitation protection
- Over excitation indication light
- Easy access front-panel adjustments
- Over voltage protection shutdown

Control Panels



DeepSea 7310 MKII

Simultaneous Use of RS232 & RS485
Modbus RTU Support
Fully Configurable Using USB, RS232 & RS485
IP65 Rating
6 Programmable Inputs & 8 Outputs
UL & cUL Listed and CE Certified



Basler DGC2020

SAE J1939 Engine ECU Communications
4 Programmable Inputs & 10 Outputs
Modbus Communications With RS485
UL Recognized, CSA & CE Certified
IP 54 Front Panel Rating
NFPA 110 Level 1 Compatible
Manual Override Keyswitch
DGC2020HD Variant Available



Taylor Analog

Automatic CANBUS Engine Control
Gauge Zeroing on Shutdown
Auto-Off-Manual Control Switch
Oil Pressure, Water Temperature, Battery Voltage and RPM Gauges
AC Voltage, Frequency, Percent of Load, and Run-Time Metering
LED Status Lights

standard features and options

Warranty

2 Year Standard
5 Year Comprehensive

Standard Features:

- Heavy Duty Steel Base
- Vibration Isolators
- Oil Drain Valve with Extension
- Coolant Drain Kit
- High Ambient Unit Mounted Radiator
- Battery Charger
- Block Heater
- Factory Powder Coating
- Factory Load Test
- Owner's Manual

Controller Options

DGC2020HD Controller
Fiber Optic Ethernet (DGC2020HD)
RS-232 Port & Generator Protection (DGC2020)
Flush or Surface Mount Remote Annunciator
Remote Mount Break Glass E-Stop Switch

Miscellaneous Options:

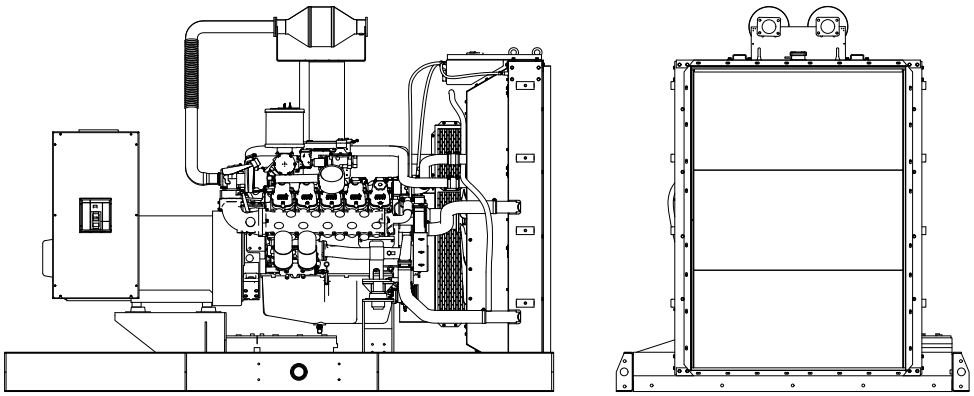
- Generator Strip Heater
- Spring Isolators
- Line Circuit Breaker
- Pad Type Battery Heater
- Battery Heater Blanket
- Oil Pan Heater

Open Unit

Options:
- Radiator Duct Flange
- Flex Exhaust
- Critical Silencer

Overall Size: 140"L x 90"W x 98"H
Approximate Weight: 11,250 lbs.

Note: Dimensions and weights reflect standard open unit with no options and are subject to change.

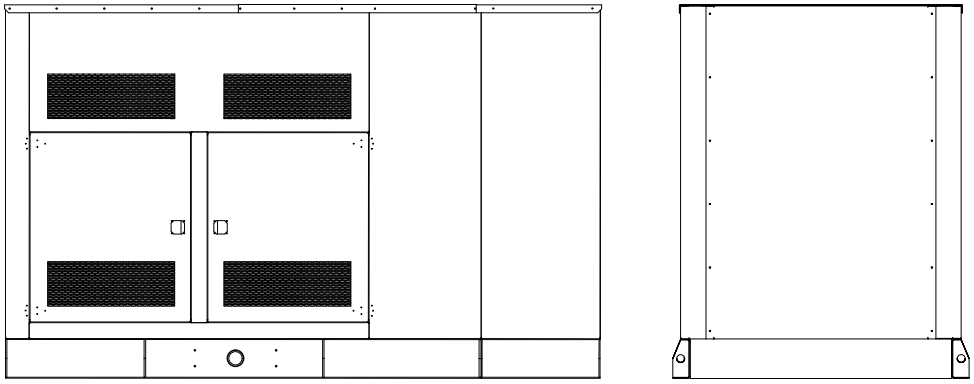


Standard Enclosed Unit

Options:
- Sound Attenuated Enclosure
- Load Center, Lights & GFI Receptacle

Overall Size: 186"L x 90"W x 106"H
Approximate Weight: 13,500 lbs.

Note: Dimensions and weights reflect standard enclosed unit with no options and are subject to change.



Note: The above drawings are provided for reference only and should not be used for planning installation. Contact your local distributor for more information.

Waukesha
INNIO

MODEL H24SE-EPA

SERIAL NUMBER [illegible]

COMP. RATIO 8.6:1

SAA# None

SERVICE TYPE Continuous

DATE NOV 2022

VGF*

THIS ENGINE IS FACTORY EQUIPPED AS LISTED. HP / kW_b ARE PER ISO 3046/1. CONSULT A WAUKESHA AUTHORIZED DISTRIBUTOR OR WAUKESHA APPLICATION ENGINEERING FOR ADDITIONAL INFORMATION.

	PRIMARY	SECONDARY
FUEL	Natural Gas	10-5 Propane
N. WKI *	91	34
TIMING TDC	ESM	ESM
RB ADJ	S-07546-39	S-07546-39
ERVICE IP / kW_b	383/286	366/273
RLOAD P / kW_b	None	None
FIRING ORDER	1-4-2-6-8-5-7-3	

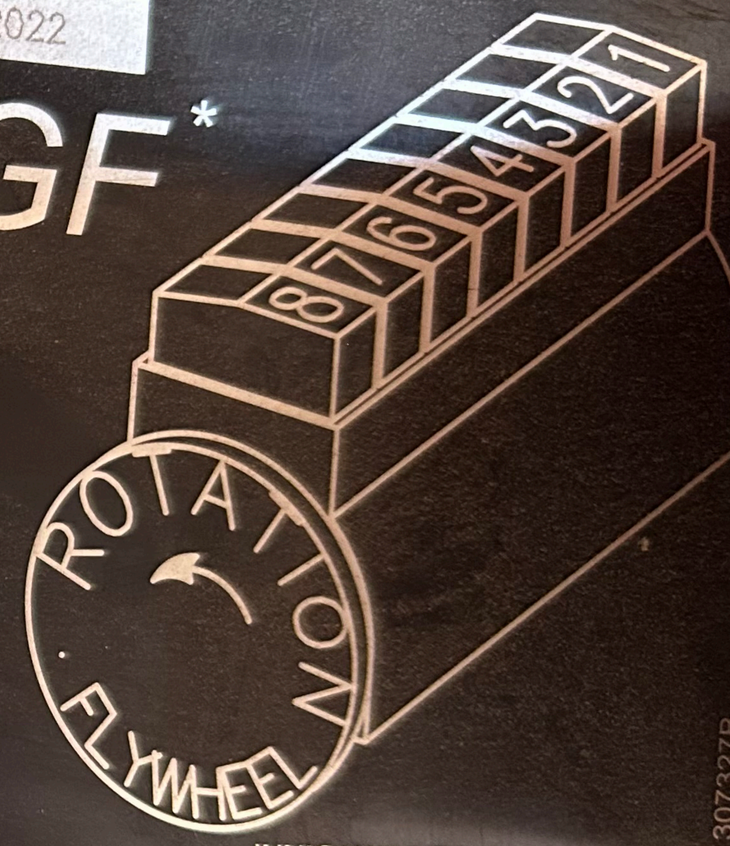
ALTITUDE LIMIT FT/ m: 5000/1524

AIR INLET TEMP LIMIT °F / °C: 100/38

GOVERNED SPEED RPM: 1800

VALVE CLEARANCE IN / mm

INTAKE	EXHAUST
0.008/0.20	0.026/0.66



INNIO WAUKESHA
GAS ENGINES INC.
1101 W. ST. PAUL AVE.
WAUKESHA, WI 53188 USA

307327B

*TRADEMARK OF INNIO WAUKESHA GAS ENGINES INC.

DESIGNED IN WAUKESHA, WI. USA

ECD- High Volume - 48" x 25' x 11.7 MMBTU/HR

ECD48HV

OOOOb/c Certified Enclosed Combustor
Integrated Continuous Monitoring | Performance Guarantee

Data	Parameter
Size	48" OD x 25'
Capacity (Third Party Verified)	109 MSCFD @ 10 oz/in using SG 1.52/2500 BTU/SCF
Heat Duty Rating	11.7 MMBTU/HR Max
Burner Size	90 F-90 Orifices, 28"L x 27" W
Stack	Insulated
Stack Internal Operating Temperature	800-2000°F
Inlet Temp	-20-1200°F
Pressure Rating	Atmospheric
Electrical Classification	Non-Hazardous
Wind Load	90 mph 3sec Wind Gust per ASCE 7-05 (see note below)
Estimated Weight (No Concrete Block):	4,380 lbs

Connection Schedule	QTY	Size	Type
Waste Gas Inlet	1	3"	NPT
Flow Test/Automation (plugged as option)	2	2"	NPT
Stack/Burner Sight Glass	1	2"	NPT
Aux Sight Glass Location (plugged as opt.)	1	2"	NPT
Pilot Sight glass	1	3"	NPT
Aux Sight Glass Location (plugged as opt.)	1	3"	NPT
Pilot Gas In	1	1/4"	NPT
Ignitor Cable (plugged as option)	1	1/2"	NPT
Thermocouple or Automation (plugged as opt.)	1	1"	NPT
Automation Spare (plugged as option)	1	1/2"	NPT
Cabinet Drain (plugged as option)	1	1/2"	NPT

Paint	
External	Default Color: Noble Tan unless other color chosen as option

Notes

- Pilot Consumption: Propane: 15 SCFH @ 4 psig, Natural Gas: 30 SCFH @ 8 - 10 psig (per ignitor).
- OOOOa/b/c certified IAW USEPA 40 CFR 60, App. A, Source Emissions Test Methods.
- **Cimarron Energy guarantees the Quad-O certified combustor proposed in this bid will meet a minimum Destruction Removal Efficiency (DRE) of 98% if all the below conditions are met:**

Max water vapor content in the waste stream:	4% vol.
Min temperature in the combustion chamber:	1400 F
Min Lower Heating Value (LHV) of the gas:	800 BTU/scf
Max Thermal Duty:	Per Technical Section of this Proposal

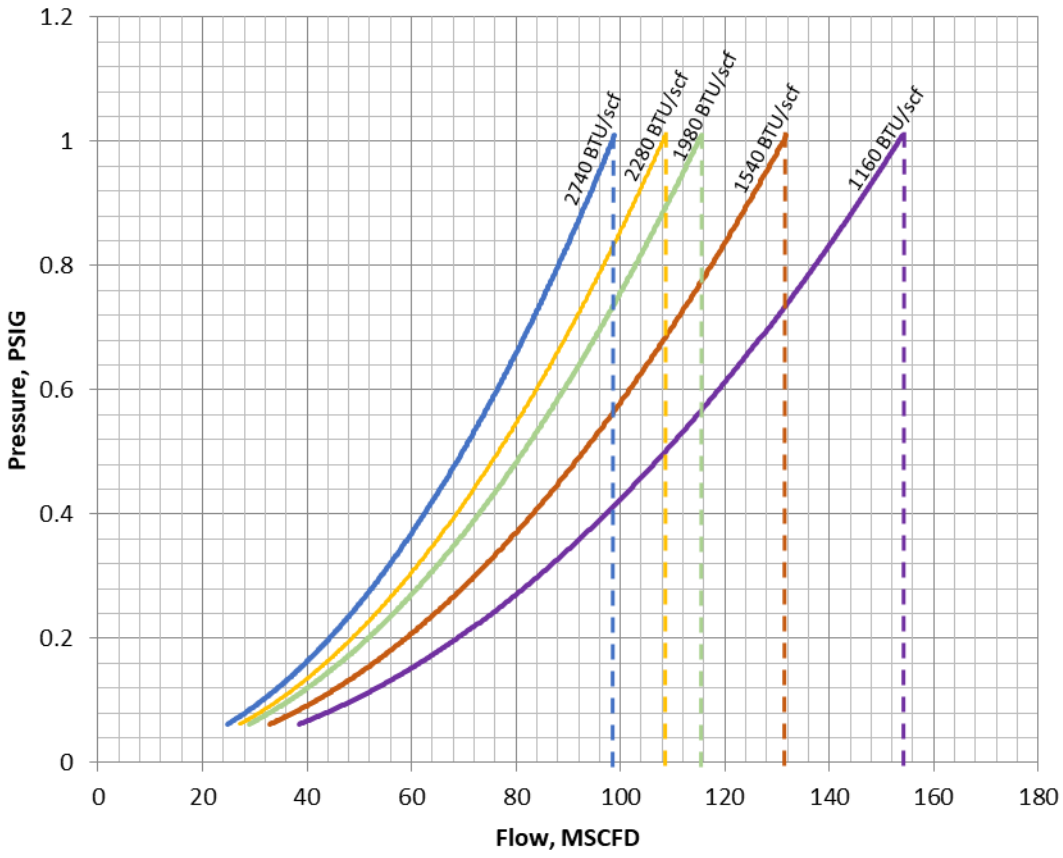
- Please note that Cimarron may still be able to guarantee 98% DRE for applications where some of the above conditions are not met. For these applications, please contact the Application Engineering Team.
- Guarantee applies only to new units purchased after December 1, 2021.
- Structure certified per ASCE 7-05 & IBC 2006 stds (pre-mounted concrete base required for compliance).
- Customer to inform if there are any structural requirements to consider.

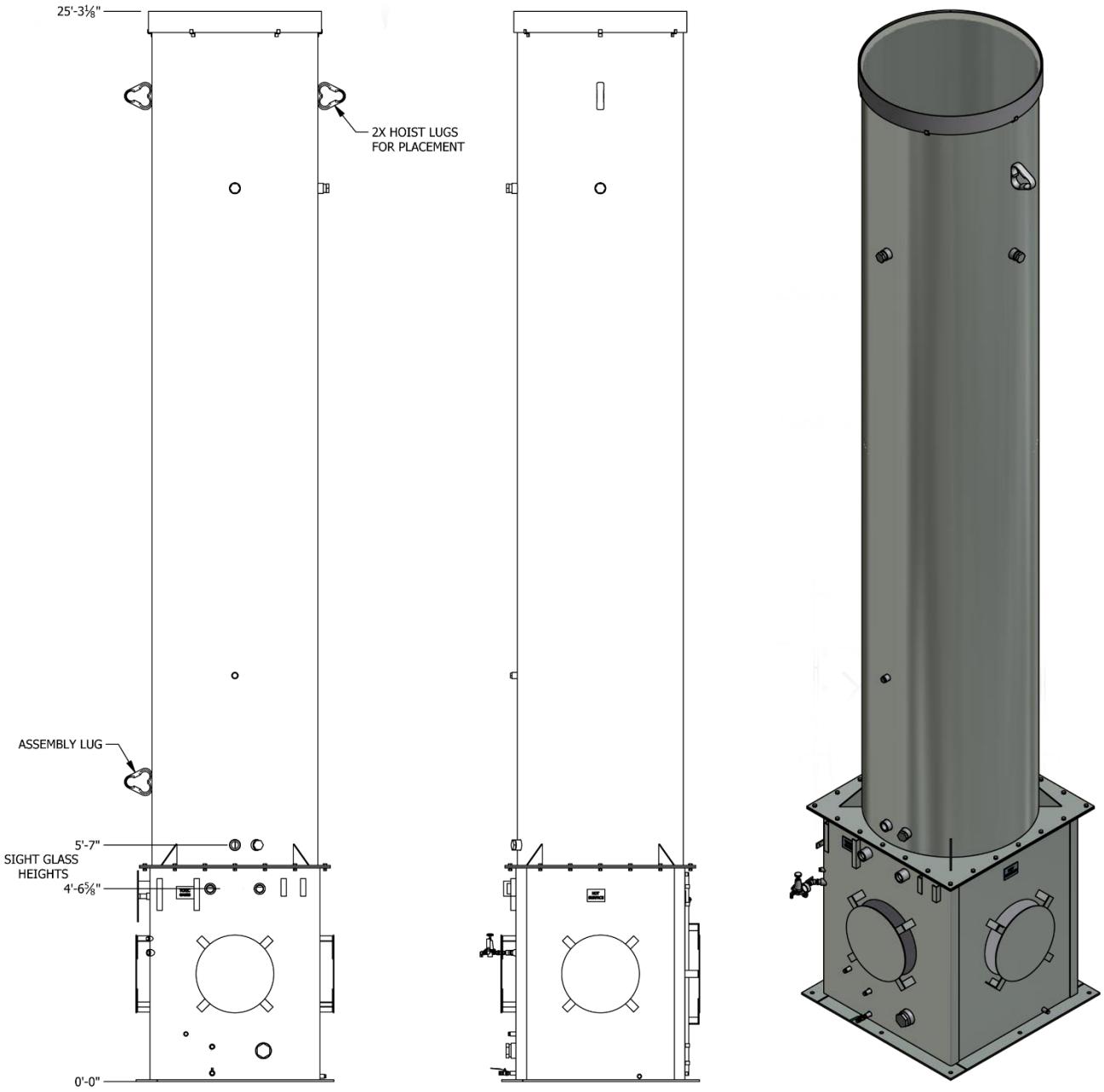
Accessories – Included

Description	OEM	OEM Model #	QTY
Pilot Regulator, 1/4"	Fisher	67CR-206	1
Pilot Isolation Ball Valve 1/4 STL 2000# FP	Chemoil	2027WC-02	1

Accessories – Options

Description	OEM	OEM Model #	QTY
8'x8'x8" Concrete Block No Anchors	Generic	SL 119524	1
48" HV Bird Cone	Generic	123935	1




25'-3⅛"
2X HOIST LUGS
FOR PLACEMENT
ASSEMBLY LUG
5'-7"
SIGHT GLASS
HEIGHTS
4'-6⅝"
0'-0"

Section 8

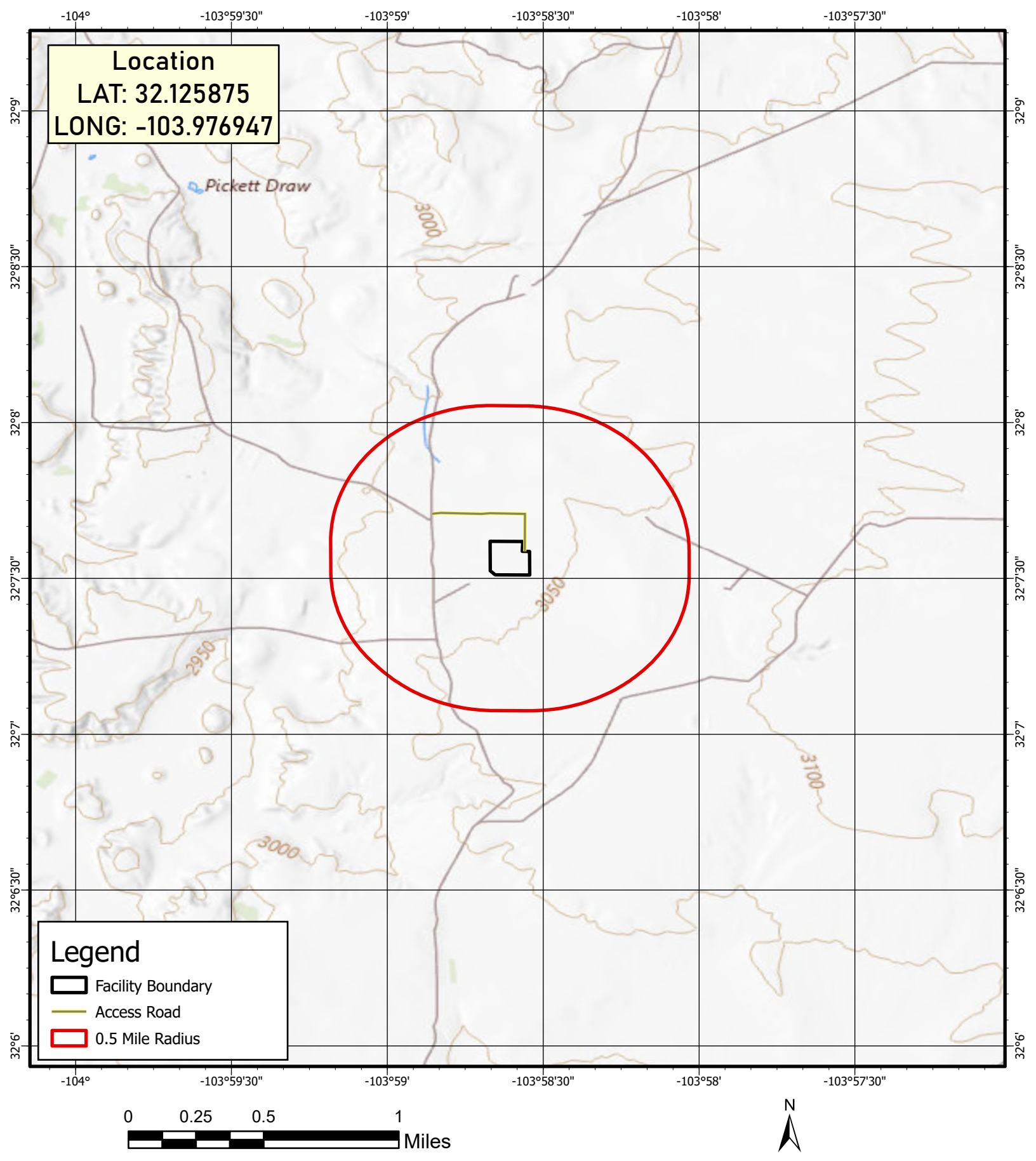
Map(s)

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 map is included in this section.

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RESOLUTE COMPLIANCE, LLC
Purposeful Solutions. Unwavering Service.

Reveille Compressor Station
ONEOK, Inc.
Eddy County, NM

Site Location Map

Project No. Env-EnLink-0350
Report No. Reveille-NSR Mod
Date: August 2026

Section 8

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Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)

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

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

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

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

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

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

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

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

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NOTICE

ONEOK Delaware Gathering, LLC announces its application to the New Mexico Environment Department for an air quality permit for the **modification** of its **compressor station** facility. The expected date of application submittal to the Air Quality Bureau is **May 2026.**

The exact location for the proposed facility known as, **Reveille Compressor Station**, is at latitude **32.125872** dec deg North and longitude **103.976956** dec deg West. The approximate location of this facility is **13.05** miles **southeast** of **Loving, NM** in **Eddy** county.

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Total sum of all Hazardous Air Pollutants (HAPs)	3.63	17.98
Toxic Air Pollutant (TAP)	n/a	n/a
Green House Gas Emissions as Total CO_2e	n/a	132,300.38

The standard operating schedule of the facility will be **continuous**.

The owner and/or operator of the Facility is: **Lance Green; ONEOK Delaware Gathering, LLC; 1722 Routh Street, Suite 1300, Dallas, TX 75201.**

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

With your comments, please refer to the company name and facility name, or send a copy of this notice along with your comments. This information is necessary since the Department may have not yet received the permit application. Please include a legible return mailing address. Once the Department has completed its preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

Atención
Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

Notice of Non-Discrimination
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@env.nm.gov. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

Roswell

General Posting of Notices – Certification

I, Raygen Murray, the undersigned, certify that on **May 15th, 2026,** posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the **City of Carlsbad and near the city of Malaga** of **Eddy** County, State of New Mexico on the following dates:

1. Facility entrance {5/15/26}
2. Carlsbad Post Office {5/15/26}
3. Carlsbad Public Library {5/15/26}
4. Carlsbad City Hall {5/15/26}

Signed this 15TH day of May, 2026.

Raygen Murray
Signature

5/15/2026
Date

Raygen Murray
Printed Name

Environmental Professional
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

General Posting Locations

Reveille Compressor Station

ONEOK Delaware Gathering, LLC

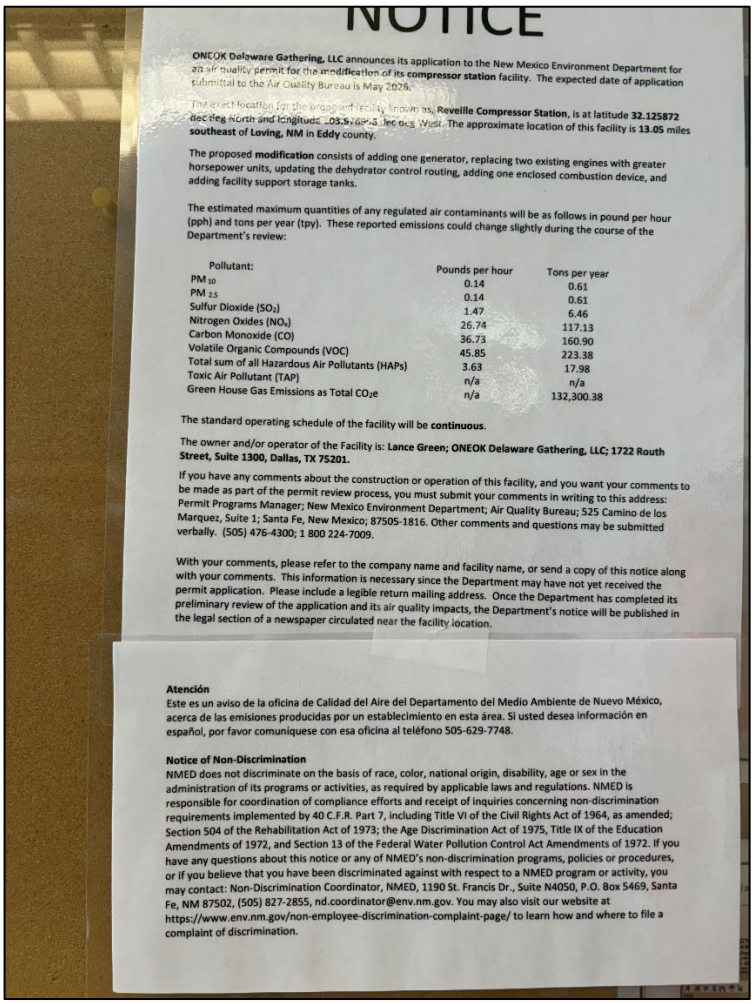
Facility Entrance – 32.125872, -103.976956

Carlsbad Post Office – 204 W Shaw St, Carlsbad, NM 88220

Carlsbad Public Library – 101 S Halagueno St, Carlsbad, NM 88220

Carlsbad City Hall – 101 N Halagueno St, Carlsbad, NM 88220





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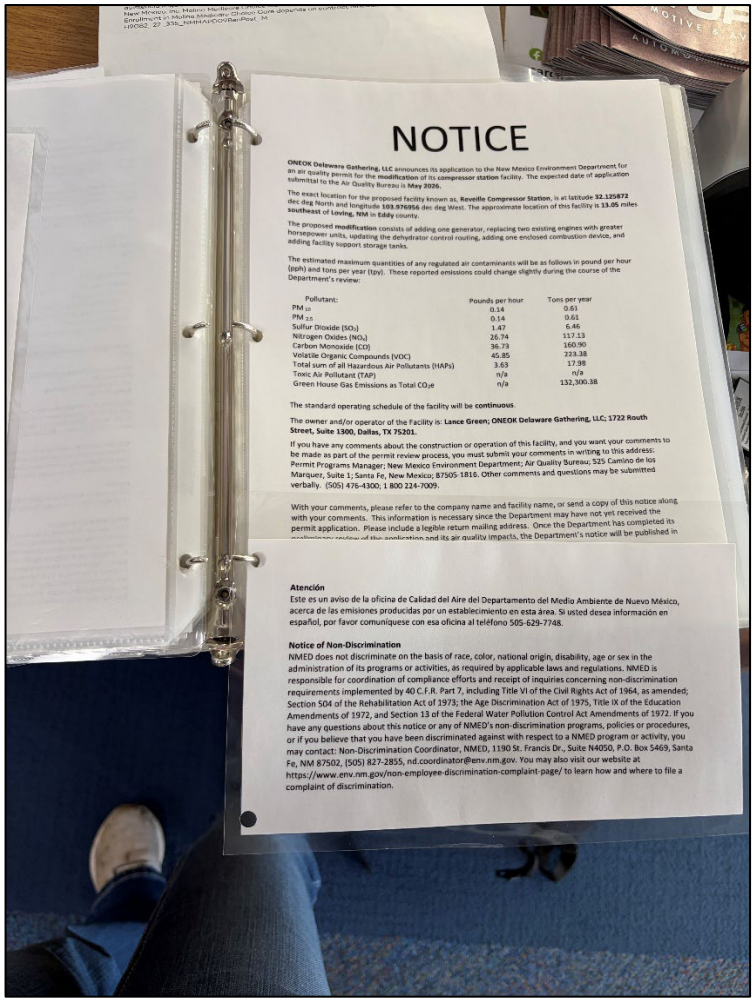
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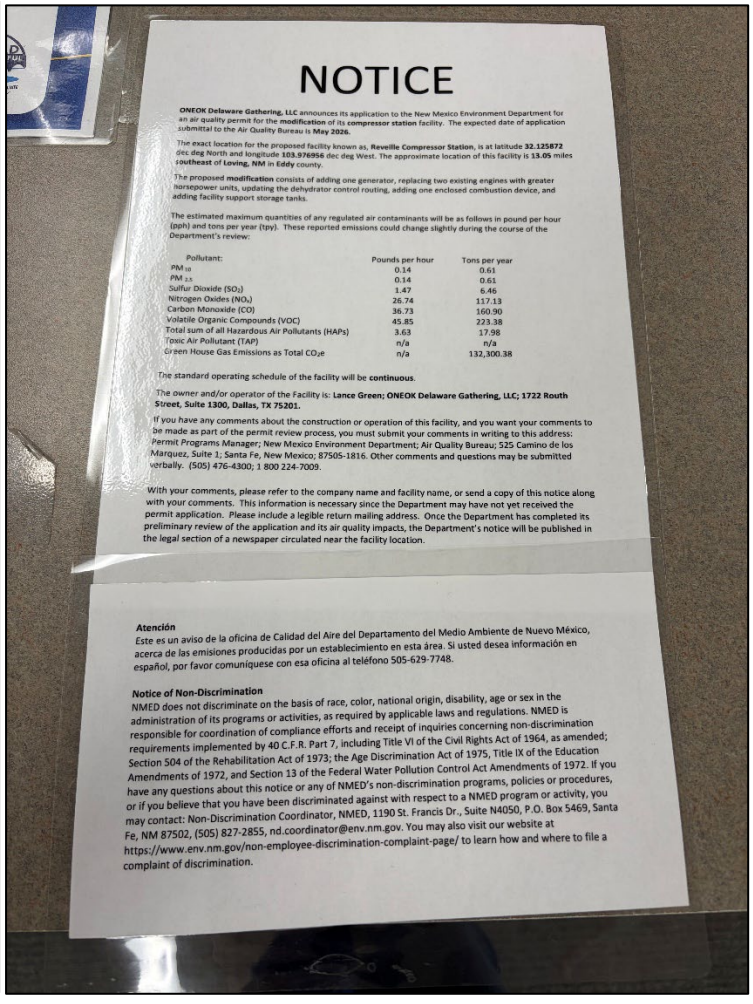
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Table of Notified Landowners, Counties, Municipalities, Indian Tribes
Reveille Compressor Station
ONEOK Delaware Gathering, LLC

Owners within ½ mile of the Property Boundary	
BLM	301 Dinosaur Trail Santa Fe, NM 87508
New Mexico State Land Office	P.O. Box 1148 Santa Fe, NM 87504
Municipalities within 10 miles of the Property Boundary	
Eddy County Clerk's Office	101 W Greene Street Carlsbad, NM 88220

Sample of Letter Sent to Owners, Counties, Municipalities, Indian Tribes

May 18th, 2026

To Whom it May Concern:

On behalf of ONEOK Delaware Gathering, LLC (ONEOK), please see the enclosed notification for an air quality permit modification for their oil and gas facility, Reveille Compressor Station.

The coordinates for the facility are as follows: 32.125872, -103.976956.

Best Regards,

Kayla Curtis

Kayla Curtis

Project Manager

Resolute Compliance, LLC

Encl: Certified Mail – Landowners, Counties, Municipalities, Indian Tribes Notification

May 18th, 2026

CERTIFIED MAIL

Dear **Property Owner,**
ONEOK Delaware Gathering, LLC announces its application to the New Mexico Environment Department for an air quality permit for the **modification** of its **compressor station** facility. The expected date of application submittal to the Air Quality Bureau is **May 2026.**

The exact location for the proposed facility known as, **Reveille Compressor Station**, is at latitude **32.125872** dec deg North and longitude **103.976956** dec deg West. The approximate location of this facility is **13.05** miles **southeast** of **Loving, NM** in **Eddy** county.

The proposed **modification** consists of adding one generator, replacing two existing engines with greater horsepower units, updating the dehydrator control routing, adding one enclosed combustion device, and adding facility support storage tanks.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and may change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
PM_{10}	0.14	0.61
$PM_{2.5}$	0.14	0.61
Sulfur Dioxide (SO_2)	1.47	6.46
Nitrogen Oxides (NO_x)	26.74	117.13
Carbon Monoxide (CO)	36.73	160.90
Volatile Organic Compounds (VOC)	45.85	223.38
Total sum of all Hazardous Air Pollutants (HAPs)	3.63	17.98
Toxic Air Pollutant (TAP)	n/a	n/a
Green House Gas Emissions as Total CO_2e	n/a	132,300.38

The standard operating schedule of the facility will be **continuous**.
Owners and operators of the facility include: **Lance Green; ONEOK Delaware Gathering, LLC; 1722 Routh Street, Suite 1300, Dallas, TX 75201.**

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

Attención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

Sincerely,
ONEOK Delaware Gathering, LLC

Notice of Non-Discrimination
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@env.nm.gov. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

9589 0710 5270 3231 2647 12

U.S. Postal Service™ Reveille
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

Santa Fe, NM 87504

OFFICIAL USE

Certified Mail Fee $5.30	0189 18
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy) $ $0.00	
☐ Return Receipt (electronic) $ $0.00	Postmark Here
☐ Certified Mail Restricted Delivery $ $0.00	
☐ Adult Signature Required $ $0.00	
☐ Adult Signature Restricted Delivery $	
Postage $0.78	
Total Postage and Fees $6.08	05/18/2026

Sent To: New Mexico State Land Office
Street and Apt. No., or PO Box No.: PO Box 1148
City, State, ZIP+4®: Santa Fe, NM 87504-1148

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 3231 2646 20

U.S. Postal Service™ Reveille
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

Santa Fe, NM 87508

OFFICIAL USE

Certified Mail Fee $5.30	0189 18
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy) $ $0.00	
☐ Return Receipt (electronic) $ $0.00	Postmark Here
☐ Certified Mail Restricted Delivery $ $0.00	
☐ Adult Signature Required $ $0.00	
☐ Adult Signature Restricted Delivery $ $0.00	
Postage $0.78	
Total Postage and Fees $6.08	05/18/2026

Sent To: BLM
Street and Apt. No., or PO Box No.: 301 Dinosaur Trail
City, State, ZIP+4®: Santa Fe, NM 87508

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 3231 2647 29

U.S. Postal Service™ Reveille
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

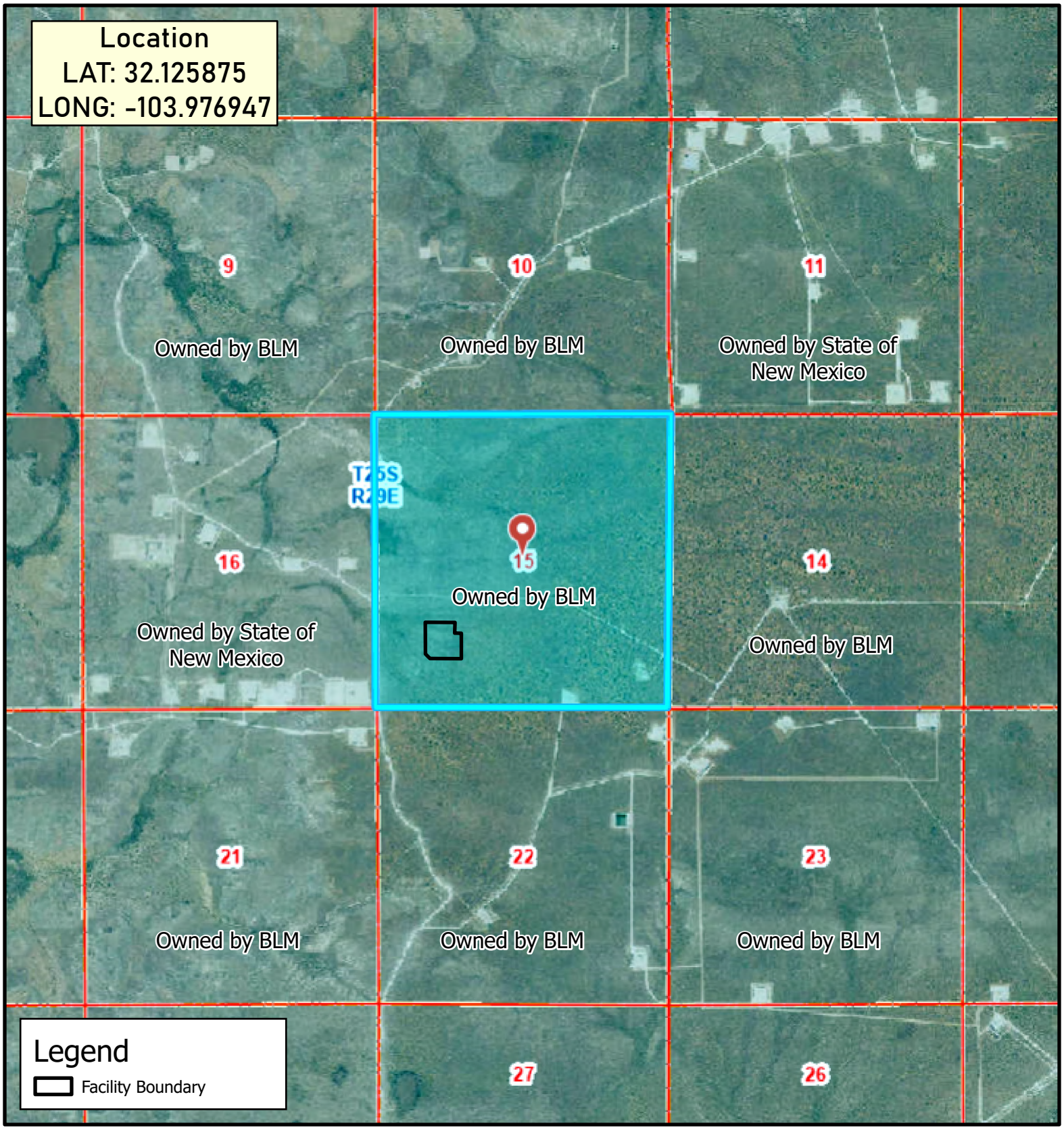
Carlsbad, NM 88220

OFFICIAL USE

Certified Mail Fee $5.30	0189 18
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy) $ $0.00	
☐ Return Receipt (electronic) $ $0.00	Postmark Here
☐ Certified Mail Restricted Delivery $ $0.00	
☐ Adult Signature Required $ $0.00	
☐ Adult Signature Restricted Delivery $	
Postage $0.78	
Total Postage and Fees $6.08	05/18/2026

Sent To: Eddy County Clerk's Office
Street and Apt. No., or PO Box No.: 101 W. Greene St
City, State, ZIP+4®: Carlsbad, NM 88220

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions



RESOLUTE COMPLIANCE, LLC Purposeful Solutions. Unwavering Service.	**Reveille Compressor Station** **ONEOK Delaware Gathering, LLC** **Eddy County, New Mexico** **Parcel Map**	**Project No.** Env-EnLink-0350 **Report No.** Reveille-NSR Public Notice **Date:** May 2026

- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091587 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091587

Situs Address 390-5 LONGHORN ROAD

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-172-147-265-265

Legal Summary Quarter: NE S: 15 T: 25S R: 29E Quarter: NW S: 15 T: 25S R: 29E Quarter: SW S: 15 T: 25S R: 29E Quarter: SE S: 15 T: 25S R: 29E ALL EXEMPT

Map Number 384-15

Parcel Size 640

Owner Information

Owner Name BUREAU OF LAND MANAGEMENT

Owner Address UNITED STATES OF AMERICA

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

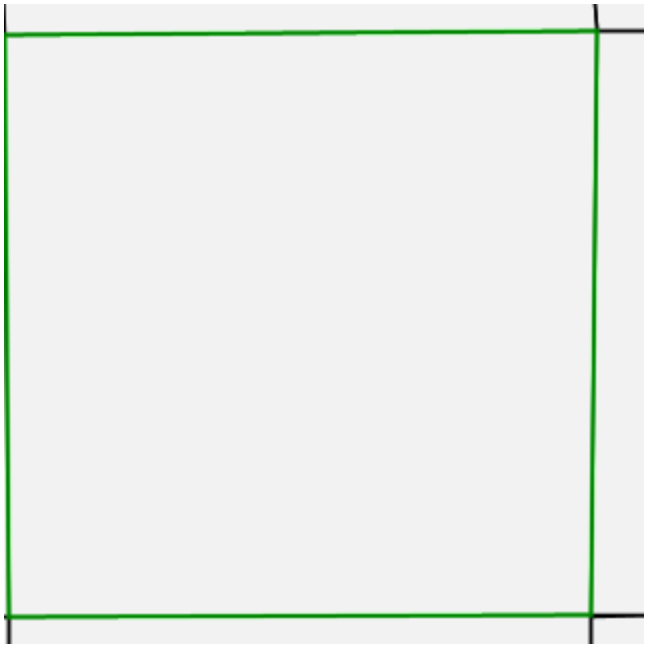
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091583 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091583

Situs Address 390-3 LONGHORN ROAD

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-171-146-265-265

Legal Summary Quarter: NE S: 9 T: 25S R: 29E Quarter: NW S: 9 T: 25S R: 29E Quarter: SW S: 9 T: 25S R: 29E Quarter: SE S: 9 T: 25S R: 29E

Map Number 384-9

Parcel Size 640 AC, AVG

Owner Information

Owner Name BUREAU OF LAND MANAGEMENT

Owner Address UNITED STATES OF AMERICA

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

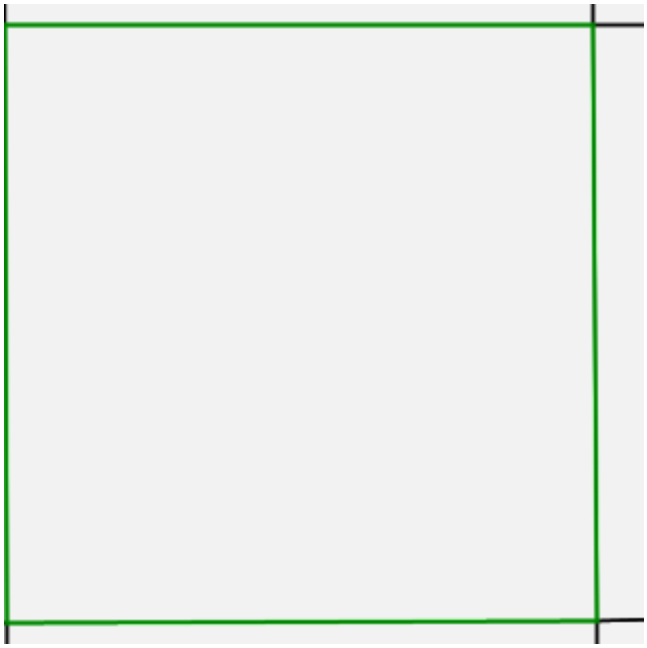
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091584 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091584

Situs Address E OF 1102 PECOS HIGHWAY

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-172-145-265-265

Legal Summary Quarter: NE S: 10 T: 25S R: 29E Quarter: NW S: 10 T: 25S R: 29E Quarter: SW S: 10 T: 25S R: 29E Quarter: SE S: 10 T: 25S R: 29E ALL EXEMPT

Map Number 384-10

Parcel Size 640 ACRES

Owner Information

Owner Name BUREAU OF LAND MANAGEMENT

Owner Address UNITED STATES OF AMERICA

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

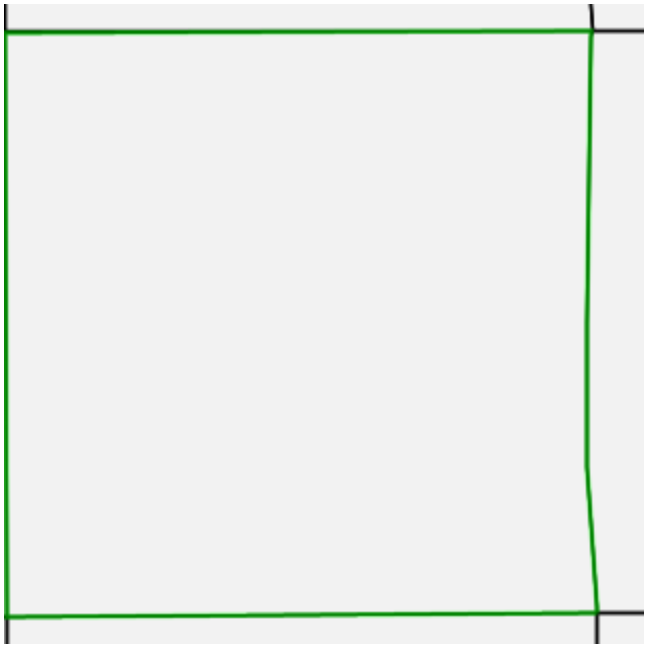
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091573 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091573

Situs Address E OF 390-3 LONGHORN ROAD

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-173-146-265-265

Legal Summary Quarter: NE S: 11 T: 25S R: 29E Quarter: NW S: 11 T: 25S R: 29E Quarter: SW S: 11 T: 25S R: 29E Quarter: SE S: 11 T: 25S R: 29E ALL EXEMPT

Map Number 384-11

Parcel Size 640 ACRES

Owner Information

Owner Name STATE OF NEW MEXICO

Owner Address 310 OLD SANTA FE TRAIL SANTA FE, NM 87504

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

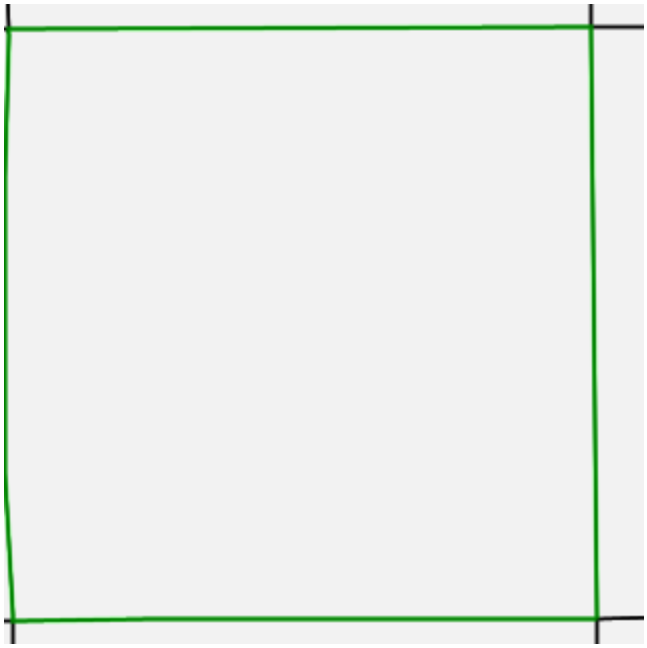
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091586 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091586

Situs Address E OF 390-5 LONGHORN ROAD

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-173-147-266-265

Legal Summary Quarter: NE S: 14 T: 25S R: 29E Quarter: NW S: 14 T: 25S R: 29E Quarter: SW S: 14 T: 25S R: 29E Quarter: SE S: 14 T: 25S R: 29E ALL EXEMPT

Map Number 384-14

Parcel Size 640

Owner Information

Owner Name BUREAU OF LAND MANAGEMENT

Owner Address UNITED STATES OF AMERICA

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

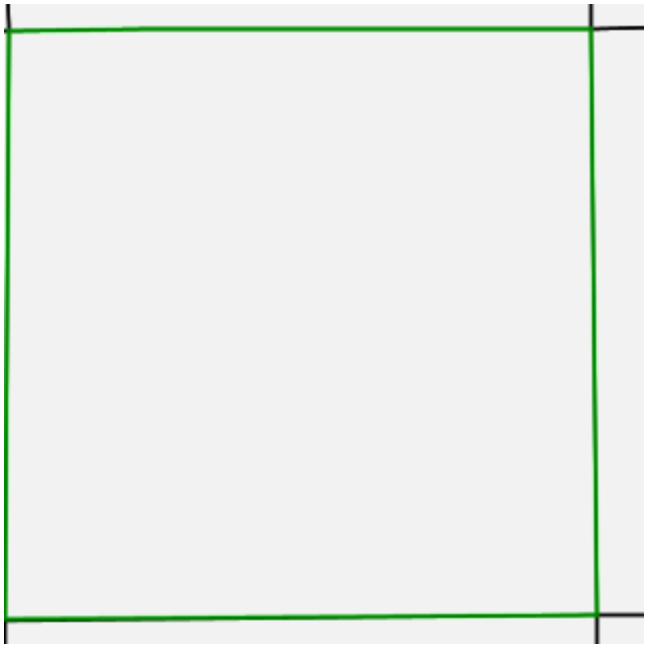
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091575 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091575

Situs Address 390-4 LONGHORN ROAD

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-171-147-265-265

Legal Summary Quarter: NE S: 16 T: 25S R: 29E Quarter: NW S: 16 T: 25S R: 29E Quarter: SW S: 16 T: 25S R: 29E Quarter: SE S: 16 T: 25S R: 29E ALL EXEMPT

Map Number 384-16

Parcel Size 640 ACRES

Owner Information

Owner Name STATE OF NEW MEXICO

Owner Address 310 OLD SANTA FE TRAIL SANTA FE, NM 87504

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

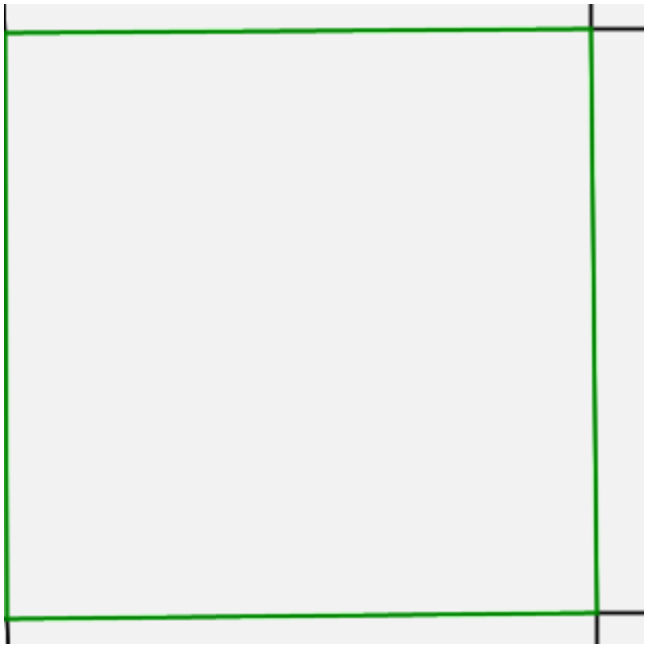
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091592 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091592

Situs Address S OF 390-4 LONGHORN ROAD

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-171-148-265-265

Legal Summary Quarter: NE S: 21 T: 25S R: 29E Quarter: NW S: 21 T: 25S R: 29E Quarter: SW S: 21 T: 25S R: 29E Quarter: SE S: 21 T: 25S R: 29E ALL EXEMPT

Map Number 384-21

Parcel Size 640 ACRES

Owner Information

Owner Name BUREAU OF LAND MANAGEMENT

Owner Address UNITED STATES OF AMERICA

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

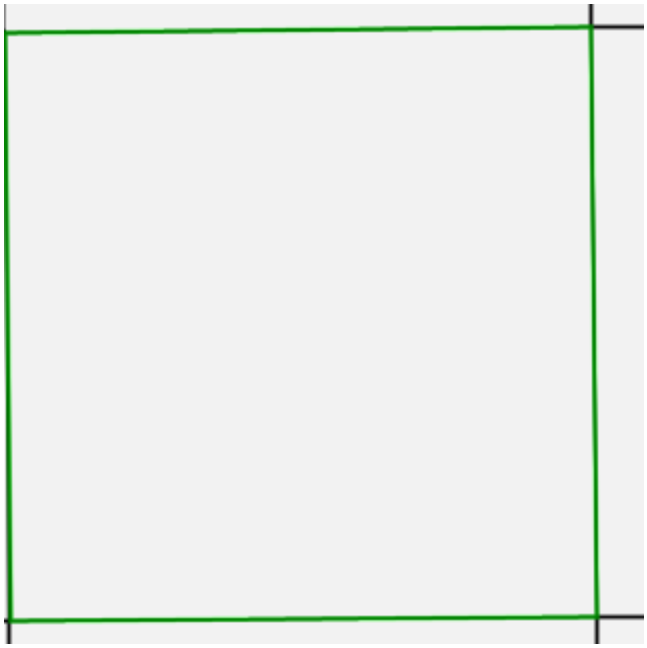
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091593 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091593

Situs Address S OF 390-5 LONGHORN ROAD

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-172-148-269-265

Legal Summary Quarter: NE S: 22 T: 25S R: 29E Quarter: NW S: 22 T: 25S R: 29E Quarter: SW S: 22 T: 25S R: 29E Quarter: SE S: 22 T: 25S R: 29E ALL EXEMPT

Map Number 384-22

Parcel Size 640 ACRES

Owner Information

Owner Name BUREAU OF LAND MANAGEMENT

Owner Address UNITED STATES OF AMERICA

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

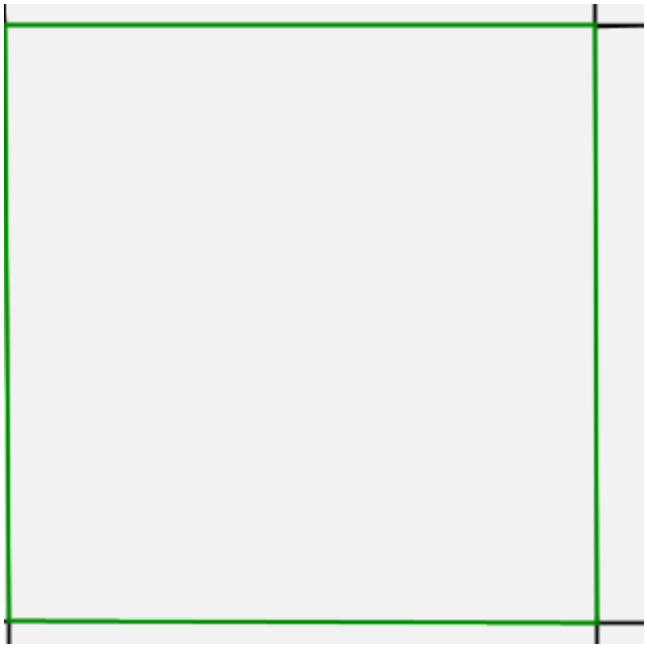
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R091594 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R091594

Situs Address SE OF 390-5 LONGHORN ROAD

Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)

Parcel Number 4-173-148-265-265

Legal Summary Quarter: NE S: 23 T: 25S R: 29E Quarter: NW S: 23 T: 25S R: 29E Quarter: SW S: 23 T: 25S R: 29E Quarter: SE S: 23 T: 25S R: 29E ALL EXEMPT

Map Number 384-23

Parcel Size 640 ACRES

Owner Information

Owner Name BUREAU OF LAND MANAGEMENT

Owner Address UNITED STATES OF AMERICA

Assessment History

Actual Value (2026)	$1,152
Primary Taxable	$384
Exempt	-$384
Adjusted Taxable Total	$0

Tax Area: CO_NR **Mill Levy**: 22.562000

Type	Actual	Assessed	Acres
Exempt Land	$1,152	$384	640.000

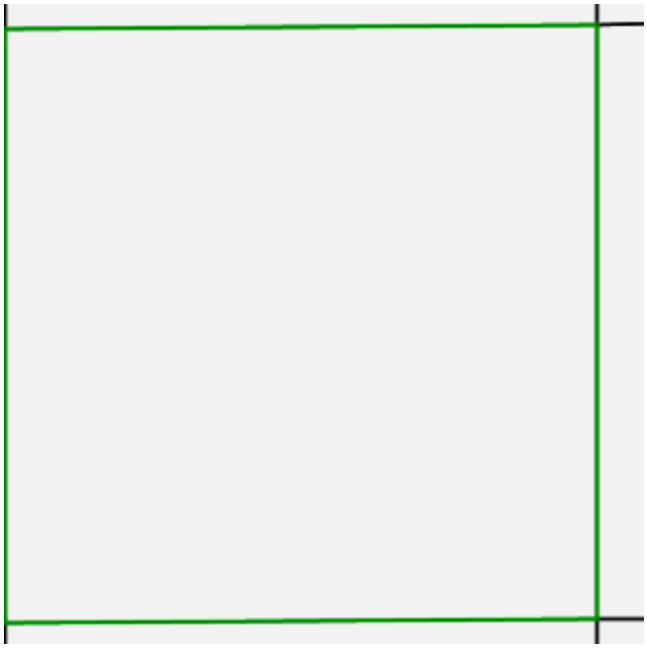
Tax History

Tax Year	Taxes
*2026	$0.00
2025	$0.00

* Estimated

Images

- GIS



NOTICE OF AIR QUALITY PERMIT APPLICATION

ONEOK Delaware Gathering, LLC announces its application to the New Mexico Environment Department for an air quality permit for the **modification** of its **compressor station** facility. The expected date of application submittal to the Air Quality Bureau is **May 2026.**

The exact location for the proposed facility known as, **Reveille Compressor Station**, is at latitude **32.125872** dec deg North and longitude **103.976956** dec deg West. The approximate location of this facility is **13.05** miles **southeast** of **Loving, NM** in **Eddy** county.

The proposed **modification** consists of adding one generator, replacing two existing engines with greater horsepower units, updating the dehydrator control routing, adding one enclosed combustion device, and adding facility support storage tanks.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and could change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
PM_{10}	0.14	0.61
$PM_{2.5}$	0.14	0.61
Sulfur Dioxide (SO_2)	1.47	6.46
Nitrogen Oxides (NO_x)	26.74	117.13
Carbon Monoxide (CO)	36.73	160.90
Volatile Organic Compounds (VOC)	45.85	223.38
Total sum of all Hazardous Air Pollutants (HAPs)	3.63	17.98
Toxic Air Pollutant (TAP)	n/a	n/a
Green House Gas Emissions as Total CO_2e	n/a	132,300.38

The standard operating schedule of the facility will be **continuous**.

The owner and/or operator of the Facility is: **Lance Green; ONEOK Delaware Gathering, LLC; 1722 Routh Street, Suite 1300, Dallas, TX 75201.**

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process, and links to the regulations can be found at the Air Quality Bureau's website: www.env.nm.gov/air-quality/permitting-section-home-page/. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@env.nm.gov. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

Affidavit of Publication

No. 105200

State of New Mexico

County of Eddy:

Adrian Hedden

being duly sworn, sayes that he is the **Publisher**

of the Artesia Daily Press, a weekly newspaper of General circulation, published in English at Artesia,

said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a weekly newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same day as follows:

First Publication	May 20, 2026
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	
Eighth Publication	

Subscribed ans sworn before me this

20th day of May 2026

LATISHA ROMINE
Notary Public, State of New Mexico
Commission No. 1076338
My Commission Expires
05-12-2027

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

NOTICE OF AIR QUALITY PERMIT APPLICATION

ONEOK Delaware Gathering, LLC announces its application to the New Mexico Environment Department for an air quality permit for the **modification** of its **compressor station** facility. The expected date of application submittal to the Air Quality Bureau is **May 2026.**

The exact location for the proposed facility known as, **Reveille Compressor Station**, is at latitude **32.125872** dec deg North and longitude **103.976956** dec deg West. The approximate location of this facility is **13.05** miles **southeast** of **Loving, NM** in **Eddy** county.

The proposed **modification** consists of adding one generator, replacing two existing engines with greater horsepower units, updating the dehydrator control routing, adding one enclosed combustion device, and adding facility support storage tanks.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and could change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
PM_{10}	0.14	0.61
$PM_{2.5}$	0.14	0.61
Sulfur Dioxide (SO_2)	1.47	6.46
Nitrogen Oxides (NO_x)	26.74	117.13
Carbon Monoxide (CO)	36.73	160.90
Volatile Organic Compounds (VOC)	45.85	223.38
Total sum of all Hazardous Air Pollutants (HAPs)	3.63	17.98
Toxic Air Pollutant (TAP)	n/a	n/a
Green House Gas Emissions as Total CO_2e	n/a	132,300.38

The standard operating schedule of the facility will be **continuous.**

The owner and/or operator of the Facility is: **Lance Green; ONEOK Delaware Gathering, LLC; 1722 Routh Street, Suite 1300, Dallas, TX 75201.**

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process, and links to the regulations can be found at the Air Quality Bureau's website: www.env.nm.gov/air-quality/permitting-section-home-page/. The regulation dealing

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Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@env.nm.gov. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

105200-Published in Artesia Daily Press May 20, 2026.

Affidavit of Publication

No.

State of New Mexico

County of Eddy:

Adrian Hedden

being duly sworn, sayes that he is the **Publisher**

of the Artesia Daily Press, a weekly newspaper of General circulation, published in English at Artesia,

said county and state, and that the hereto attached

Diplay Ad

was published in a regular and entire issue of the said Artesia Daily Press, a weekly newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same day as follows:

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From: Don Hughes
To: Morgan Langlinais
Subject: Re: Reveille PSA Request
Date: Thursday, May 14, 2026 6:48:02 PM

I'm on it!
Sent from my iPhone

> On May 14, 2026, at 4:50 PM, Morgan Langlinais <ml@resolutecompliance.com> wrote:
>
> Good afternoon!
>
> ONEOK Delaware Gathering, LLC requests a public service announcement on Carlsbad Radio, for its intention to modify a compressor station in Eddy County. The State of New Mexico requires that any company that desires to construct or modify an oil and gas facility must have a public service announcement. ONEOK has written out the following to be aired in Eddy County as soon as practical**, but no sooner than Thursday, May 21st, 2026**:
>
> "ONEOK Delaware Gathering, LLC is an oil and gas gathering company planning to modify and operate the Reveille Compressor Station in Eddy County. The facility is located at latitude 32.125872 dec deg North and longitude 103.976956 dec deg West. The approximate location of this facility is 13.05 miles southeast of Loving, NM in Eddy County. The proposed modification consists of the addition of one generator, replacing two existing engines with greater horsepower units, updating the dehydrator control routing, adding one enclosed combustion device, and adding facility support storage tanks. More information about this facility can be found at the facility entrance, Carlsbad Public Library, Carlsbad City Hall, and the Post Office in Carlsbad, NM. For any comments about the construction or operation of the facility, the New Mexico Air Quality Bureau can be contacted by phone at (505) 476-4300 or by mail at 525 Camino de los Marquez, Suite 1, Santa Fe, New Mexico 87505-1816."
>
> Please respond to this email as an acknowledgment of the receipt of the request to read the public service announcement and provide an electronic version of the affidavit the announcement has aired. You can also reply to this email with the invoice.

Thank you,

Morgan Langlinais
Environmental Compliance Specialist

<image001.jpg>

1127 Judson Rd. Suite 233 | Longview, TX 75601
O: 903.707.8658
C: 903.431.5137
Email: ml@resolutecompliance.com

Submittal of Public Service Announcement – Certification

I, KAYLA CURTIS, the undersigned, certify that on **May 14th, 2026**, submitted a public service announcement to **Carlsbad Radio/KATK-FM and KCDY-FM Stations** that serves the City\Town\Village of **Carlsbad, Eddy** County, New Mexico, in which the source is or is proposed to be located and that **Carlsbad Radio/KATK-FM and KCDY-FM Stations RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT.**

Signed this 18 day of MAY, 2026.

Signature

5/18/2026
Date

KAYLA CURTIS
Printed Name

CONSULTANT TO ONEOK DELAWARE GATHERING, LLC
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

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Section 10

Written Description of the Routine Operations of the Facility

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

The Facility is a natural gas compressor station, the purpose of which is to compress natural gas along a pipeline to sales. Low pressure field gas is gathered from various wells in the area. The gas enters the Facility through an inlet separator, where entrained liquids are removed from the stream. Liquids removed from the inlet gas stream are routed to a 750-barrel (bbl) gun barrel separator (Source ID TK-407), where the condensate removed is routed to two (2) 1,000-bbl condensate tanks (Source IDs TK-406A & TK-406B). Produced water that separates from the condensate at the condensate storage tanks is transferred to a 1,000-bbl produced water tank (Source ID TK-406C). The gun barrel, condensate, and produced water tank emissions are captured by an electric vapor recovery unit (VRU), which routes the emissions back to the Facility's inlet. Liquids collected in the tanks are periodically transported off-site via truck (Source ID LOAD-1). Vapors from truck loading are vapor balanced back to the tanks and subsequently routed to the VRU. During VRU downtime, tank and loading vapors are routed to one (1) enclosed combustion device (Source ID ECD-1) for 98% combustion control. From the inlet separator, the gas is compressed by eight (8) natural gas-driven compressor engines (Unit ENG-1 through ENG-8).

The sweet gas is then routed to a glycol dehydration unit (Source ID DEHY-1), which removes water from the gas through contact with glycol. The rich glycol (water saturated) is routed to a flash tank, where flash-off vapors are recycled to the inlet suction for recompression. Subsequently, the rich glycol is routed to the reboiler (Source ID RBL-1), which heats the glycol and vaporizes water from the stream. The lean glycol is then recycled back to the dehydration unit. Still vent emissions are routed to a condenser, where condensable liquids are routed to the storage tanks and non-condensable vapors are routed to the enclosed combustion device (Source ID ECD-2) with 98% destruction efficiency. The dry gas is transported off-site via pipeline.

There are generators located on-site for electricity generation (GEN-1 and GEN-2).

Additional sources of emissions include fugitive components (Source ID FUG, COMP-1 FUG, COMP-2 FUG, COMP-3 FUG, COMP-4 FUG, COMP-5 FUG, COMP-6 FUG, COMP-7 FUG, COMP-8 FUG), unpaved road dust (Source ID HAUL), miscellaneous exempt storage tanks (Source IDs TK-405, TK-406, TK-408, TK-409, TK-OIL1, TK-OIL2, TK-OIL3, TK-OIL4, TK-TEG, TK-AF1, TK-AF2, TK-AF3, TK-AF4), maintenance operations (Source ID SSM), and malfunction emissions (Source ID MALF).

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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)**:**

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):

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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.**

N/A – This application is being submitted under 20.2.72 NMAC and is not applying for a significant permit revision under 20.2.74 NMAC.

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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 RELEVENT 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/

To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.

Table for State Regulations:

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	If subject, this would normally apply to the entire facility. 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. Title V applications, see exemption at 20.2.3.9 NMAC The TSP NM ambient air quality standard was repealed by the EIB effective November 30, 2018.
20.2.7 NMAC	Excess Emissions	Yes	Facility	If subject, this would normally apply to the entire facility. If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. This would not apply to Notices of Intent since these are not permits.
20.2.23 NMAC	Fugitive Dust Control	No	N/A	This regulation does not apply because this application is not for a Notice of Intent.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	This facility does not have gas burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit; therefore, this regulation does not apply.
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; therefore, this unit does not apply.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	This facility does not meet the definition of a natural gas processing plant; therefore, this regulation does not apply.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.
20.2.38 NMAC	Hydrocarbon Storage Facility	Yes	TK-406A & TK-406B	This new facility has a storage capacity greater than 65,000 gallons; therefore, this regulation is subject.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	This facility does not meet the definition of a sulfur recovery plant; therefore, this regulation does not apply.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	Yes	ENG-1 through ENG-8, ECD-1, ECD-2, SSM, DEHY-1, FUG, COMP 1-8 FUG, TK-406A - TK-406C, LOAD-1	This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NOx) 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 applicable: ☒113 – Engines and Turbines: ENG-1 through ENG-8 are existing. GEN-1 and GEN-2 are new and less than 1,000 hp. ☒114 – Compressor Seals: Reciprocating compressors for ENG-1 through ENG-8. ☒115 – Control Devices and Closed Vent Systems: ECD-1, ECD-2, VRU ☒116 – Equipment Leaks and Fugitive Emissions: FUG ☐ 117 – Natural Gas Well Liquid Unloading ☒ 118 – Glycol Dehydrators: DEHY-1 are controlled 98% by ECD-2.

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
				☐ 119 – Heaters: RBL-1 is <20 MMBtu/hr ☒ 120 – Hydrocarbon Liquid Transfers ☒121 – Pig Launching and Receiving ☐122 – Pneumatic Controllers and Pumps ☒ 123 – Storage Vessels: 406A, 406B, and 406C are existing with a PTE > 3tpy. ☐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	ENG-1 through ENG-8, GEN-1, GEN-2, RBL-1, ECD-1, ECD-2	Engines, boilers, heaters, and flares are subject. ENG-1 through ENG-8, GEN-1, GEN-2 and RBL- 1 will be subject to this regulation.
20.2.70 NMAC	Operating Permits	Yes	Facility	The facility has the potential to emit more than 100 tpy of carbon monoxide; therefore, this regulation is subject.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	This facility is subject to 20.2.70 NMAC; therefore, this regulation is subject.
20.2.72 NMAC	Construction Permits	Yes	Facility	This facility is subject to 20.2.72 NMAC. HAUL and TK-408 is exempt under 20.2.72.202(B)(5). TK-409, TK-OIL1, TK-OIL2, TK-OIL3, TK-OIL4, TK-TEG, TK-AF1, TK-AF2, TK-AF3, and TK-AF4 are exempt under 20.2.72.202(B)(2).
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)	No	Facility	This facility is not a PSD source; therefore, this regulation does not apply.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	This facility is subject to 20.2.72 NMAC; therefore, this regulation applies.
20.2.77 NMAC	New Source Performance	Yes	FUG, ENG-1 through ENG-8, GEN-1, GEN-2, COMP 1-8 FUG	This regulation establishes state authority to implement new source performance standards (NSPS) for stationary sources, as amended through January 15, 2017. FUG applies as it is subject to NSPS OOOOb, and Units ENG-1 through ENG-8 and GEN-1 will be subject to JJJJ. The compressors associated with ENG-1 through ENG-8 (Source IDs COMP 1-8 FUG) are subject to OOOOb.
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.

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.79 NMAC	Permits – Nonattainment Areas	No	Facility	This regulation establishes the requirements for obtaining a nonattainment area permit. The facility is not located in a non-attainment 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 practice.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	DEHY-1, ENG-1 through ENG-8, GEN-1, GEN-2	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63.

Table for Applicable Federal Regulations (Note: This is not an exhaustive list):

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 50	NAAQS	Yes	Facility	This regulation defines national ambient air quality standards. The facility meets all applicable national ambient air quality standards for NOx, CO, SO2, H2S, PM10, and PM2.5 under this regulation.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	ENG-1 through ENG-8, GEN-1, GEN-2, FUG, COMP 1-8 FUG	This regulation defines general provisions for relevant standards that have been set under this part. The facility is subject to this regulation because the following Subparts apply: - Unit FUG is subject to NSPS OOOOb when the rule is promulgated. Units ENG-1 through ENG-8 and GEN-1 are subject to JJJJ. The compressors associated with ENG-1 through ENG-8 (Source IDs COMP 1-8 FUG) are subject to OOOOb.
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for **Electric Utility Steam Generating Units**	No	N/A	There are no electric utility steam generating units located at this facility; therefore, the facility is not subject to this regulation.
NSPS 40 CFR60.40b Subpart Db	**Electric Utility Steam Generating Units**	No	N/A	There are no electric utility steam generating units located at this facility; therefore, the facility is not subject to this regulation.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	No	N/A	There are no small industrial commercial institutional steam generating units located at this facility; therefore, the facility is not subject to this regulation.
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	TK-406A and TK-406B	Tanks TK-406A and TK-406B have a storage capacity greater than 151,416 liters (40,000 gallons) that are used to store petroleum liquids for which construction is commenced after May 18, 1978.
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	TK-406A and TK-406B	This facility storage vessels TK-406A, TK-406B, and TK-406C were constructed after July 23, 1984 but are not subject because they store "petroleum (other than crude oil) or condensate stored, processed, and/or treated prior to custody transfer" and have a combined capacity less than 420,000 gal (10,000 bbl) per §60.110b(d)(4). Storage vessels TK-405, TK-406, TK-408, TK-409, TK-OIL1, TK-OIL2, TK-OIL3, TK-OIL4, TK-TEG, TK-AF1, TK-AF2, TK-AF3, and TK-AF4 each have capacities less than 75 m^3.
NSPS 40 CFR 60, Subpart Kc	Standards of Performance for **Volatile Organic Liquid Storage Vessels** (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced **After** October 4, 2023	No	N/A	Storage vessels TK-406A, TK-406B, TK-406C, TK-405, TK-406, TK-408, TK-409, TK-OIL1, TK-OIL2, TK-OIL3, TK-OIL4, TK-TEG, TK-AF1, TK-AF2, TK-AF3, and TK-AF4 were constructed before October 4, 2023 and have not been modified in a way that meets the definition of "modification" in §60.110c(e)(1); therefore, this regulation does not apply.
NSPS 40 CFR 60.330 Subpart GG	**Stationary Gas Turbines**	No	N/A	There are no turbines located at this facility; therefore, this regulation does not apply.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from **Onshore Gas Plants**	No	N/A	This is not a natural gas processing plant; therefore, this regulation does not apply.
NSPS	Standards of Performance for **Onshore Natural**	No	N/A	This is not a natural gas processing plant; therefore, this regulation does not apply.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR Part 60 Subpart LLL	**Gas Processing**: SO_2 Emissions			
NSPS 40 CFR Part 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after August 23, 2011 and before September 18, 2015	No	N/A	This facility was constructed after September 18, 2015; therefore, this regulation does not apply.
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 facility was constructed after December 6, 2022; therefore, this regulation does not apply.
NSPS 40 CFR Part 60 Subpart OOOOb	Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification or Reconstruction Commenced After December 6, 2022	Yes	FUG, COMP 1-8 FUG	Fugitive equipment components are subject to LDAR requirements as the facility was constructed after December 6, 2022. ONEOK will conduct routine fugitive leak monitoring using optical gas imaging (OGI) or EPA Method 21. The group of tanks at the Facility are considered a storage vessel battery under 60.5365b(e). Per §60.5365b(e)(2), this registration establishes a legally and practically enforceable limit on the storage vessels, which are manifolded together and equipped with a closed vent control system (VRU) and a backup control device (ECD), resulting in controlled VOC emissions by at least 95%. The cumulative potential emissions are less than 6 tpy VOC and 20 tpy methane; therefore, the tanks are not an affected facility or subject to the requirements of this Subpart. Storage vessels TK-405, TK-406, TK-408, TK-409, TK-OIL1, TK-OIL2, TK-OIL3, TK-OIL4, TK-TEG, TK-AF1, TK-AF2, TK-AF3, and TK-AF4 have uncontrolled emissions less than 6 tpy VOC and 20 tpy methane and are not subject to this Subpart. The pneumatics at the Facility are air driven and therefore not subject to the requirements of this Subpart. Reciprocating compressors manufactured after December 6, 2022 are affected facilities under 60.5365b(c).
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression	No	N/A	This facility does not have any compression ignition internal combustion engines. Thus, this regulation is not subject to this facility.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
	Ignition Internal Combustion Engines			
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	ENG-1 through ENG-8, GEN-1, GEN-2	ENG-1 through ENG-8 are manufactured after June 12, 2006, and have maximum engine power greater than 500 HP. Thus, ENG-1 to ENG-8 and GEN-1 and GEN-2 are subject to this subpart.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No	N/A	This facility does not have any steam generating units and is therefore not subject to this regulation.
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No	N/A	This facility does not operate any sources that are applicable to this subpart.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No	N/A	This facility is not a municipal solid waste landfill and is therefore not subject to this regulation.
NESHAP 40 CFR 61 Subpart A	General Provisions	No	N/A	This facility is not subject to any subparts of 40 CFR 61.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for **Mercury**	No	N/A	The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge.
NESHAP 40 CFR 61 Subpart V	National Emission Standards for **Equipment Leaks** (Fugitive Emission Sources)	No	N/A	Not applicable as the facility equipment does not operate in VHAP service. VHAP service is a piece of equipment, which contains or encounters a fluid that is at least 10% weight of VHAP. VHAP is a substance regulated under this subpart for which a standard for equipment leaks of VHAPs has been promulgated.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	ENG-1 through ENG-8 GEN-1, GEN-2, DEHY-1	Applies if any other Subpart in 40 CFR 63 applies.
MACT 40 CFR 63.760 Subpart HH	**Oil and Natural Gas Production Facilities**	Yes	DEHY-1	The dehydrator (Unit DEHY-1) is located at an area source of HAPS and has the potential to emit less than 1 tpy (0.90 megagram per year) of benzene. Therefore, it is subject to the operating and recordkeeping requirements of §63.764(e)(1)(ii).

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
MACT 40 CFR 63 Subpart HHH		No	N/A	This facility is not a natural gas transmission or storage facility; therefore, this subpart does not apply.
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	RBL-1	RBL-1 is a process heater that is located at a facility that is a not major source of HAPs; 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 contain a coal or oil fire electric utility steam generating units; therefore, this regulation 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	ENG-1 through ENG-8, GEN-1 GEN-2	ENG-1 through ENG-8 and GEN-1 and GEN-2 are stationary internal combustion engines that are operated at a major source HAP; therefore, these engines are subject to this subpart.
40 CFR 64	**Compliance Assurance Monitoring**	No	N/A	This facility is submitting an application pursuant of 20.2.72.200A.(1) NMAC for an NSR permit. Thus, this regulation does not apply.
40 CFR 68	**Chemical Accident Prevention**	Yes	Facility	The facility has more than a threshold quantity of a regulated substance in a process, as determined under §68.115. The owner will comply by maintaining a Risk Management Plan.
Title IV – Acid Rain 40 CFR 72	**Acid Rain**	No	N/A	This facility is not an acid rain source; therefore, this regulation is not subject.

Federal Regulation Citation	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 facility is not an acid rain source; therefore, this regulation is not subject.
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 and is therefore not subject to this regulation.
Title IV – Acid Rain 40 CFR 76	**Acid Rain** Nitrogen Oxides **Emission Reduction Program**	No	N/A	This facility is not an acid rain source; therefore, this regulation is not subject.
Title VI – 40 CFR 82	Protection of **Stratospheric Ozone**	No	N/A	This facility will have appliances containing CFCs. The owner will use only certified technicians for the maintenance, service, repair and disposal of appliances to comply with this regulation.

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Section 14

Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

☐ **Title V Sources** (20.2.70 NMAC)**:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies** defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

☒ **NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown** defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

☒ **Title V** (20.2.70 NMAC)**, NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.

Startup and shutdown procedures are either based on manufacturer's recommendations or based on ONEOK's experience with specific equipment. These procedures are designed to proactively address the potential for malfunction to the minimize emissions from the facility during events that result in shutdown and subsequent startup.

Equipment located at this facility is equipped with various safety devices and features that aid in the prevention of excess emissions in the event of an operational emergency. If an operational emergency does occur and excess emissions occur, ONEOK will submit the required Excess Emissions Report as per 20.2.7 NMAC. Corrective action to eliminate the excess emissions and prevent recurrence in the future will be undertaken as quickly as safety allows.

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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.

There are no alternative operating scenarios.

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Section 16

Air Dispersion Modeling

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

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

Check each box that applies:

☐ See attached, approved modeling **waiver for all** pollutants from the facility.

☐ See attached, approved modeling **waiver for some** pollutants from the facility.

☒ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.

☐ Attached in UA4 is a **modeling report for some** pollutants from the facility.

☐ No modeling is required.

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Universal Application 4

Air Dispersion Modeling Report

Refer to and complete Section 16 of the Universal Application form (UA3) to assist your determination as to whether modeling is required. If, after filling out Section 16, you are still unsure if modeling is required, e-mail the completed Section 16 to the AQB Modeling Manager for assistance in making this determination. If modeling is required, a modeling protocol would be submitted and approved prior to an application submittal. The protocol should be emailed to the modeling manager. A protocol is recommended but optional for minor sources and is required for new PSD sources or PSD major modifications. Fill out and submit this portion of the Universal Application form (UA4), the "Air Dispersion Modeling Report", only if air dispersion modeling is required for this application submittal. This serves as your modeling report submittal and should contain all the information needed to describe the modeling. No other modeling report or modeling protocol should be submitted with this permit application.

16-A: Identification

1	Name of facility:	Reveille Compressor Station
2	Name of company:	Delaware G & P, LLC
3	Current Permit number:	9896-M1
4	Name of applicant's modeler:	Mr. Ryan Sullivan, Sullivan Environmental Consulting, Inc. (dispersion modeling and modeling report); Ms. Kayla Curtis of Resolute Compliance, LLC provided permitting and modeling-input coordination.
5	Phone number of modeler:	703-231-3723 (Sullivan) 817-821-6526 (Resolute)
6	E-mail of modeler:	ryansullivanenvironmental@gmail.com kc@resolutecompliance.com

16-B: Brief

1	Was a modeling protocol submitted and approved?	Yes☒	No☐
2	Why is the modeling being done?	Adding New Equipment	
3	Describe the permit changes relevant to the modeling.		
	Additional equipment and emission factor adjustments to existing equipment.		
4	What geodetic datum was used in the modeling?	WGS84	
5	How long will the facility be at this location?	Permanent Facility	

6	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes☐	No☒
7	Identify the Air Quality Control Region (AQCR) in which the facility is located	155	

8	List the PSD baseline dates for this region (minor or major, as appropriate).	
	NO2	3/16/1988
	SO2	7/28/1978
	PM10	2/20/1979
	PM2.5	11/13/2013
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).	
	Carlsbad Caverns National Park – 43.5 km	

10	Is the facility located in a non-attainment area? If so describe below	Yes☐	No☒
11	Describe any special modeling requirements, such as streamline permit requirements.		
	NMED specifically requested Class I area modeling because Carlsbad Caverns National Park is less than 50 km from the Facility. The final Class I significance screen uses nominal facility-centered 40-km and 50-km receptor rings. See Modeling Report Sections 5.2 and 6.3.		

16-C: Modeling History of Facility

1. Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQS), and PSD increments modeled. (Do not include modeling waivers).

Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
CO	9896M1	8/24/2023	Met standard
NO_2	9896M1	8/24/2023	Met standard
SO_2	9896M1	8/24/2023	Met standard
H_2S	N/A	N/A	N/A
PM2.5	9896M1	8/24/2023	Met standard
PM10	9896M1	8/24/2023	Met standard
Lead	N/A	N/A	Facility has no permitted lead emissions.
Ozone (PSD only)	N/A	N/A	Not a PSD source; no facility-specific ozone AERMOD modeling was required.
NM Toxic Air Pollutants (20.2.72.402 NMAC)	N/A	N/A	No NMTAP dispersion modeling was included in the identified prior permit modeling.

16-D: Modeling performed for this application

1. For each pollutant, indicate the modeling performed and submitted with this application.
Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.

	Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
	CO	☒	☐	☐	☐	☐
	NO_2	☒	☒	☐	☐	☐
	SO_2	☐	☒	☐	☐	☐
	H_2S	☐	☐	☐	☐	☒
	PM2.5	☒	☒	☐	☐	☐
	PM10	☒	☒	☐	☐	☐
	Lead	☐	☐	☐	☐	☒
	Ozone	☐	☐	☐	☐	☒
	State air toxic(s) (20.2.72.402 NMAC)	☐	☐	☐	☐	☒

16-E: New Mexico toxic air pollutants modeling

1 List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application.

No NMTAPs from Tables A or B were modeled in this criteria-pollutant dispersion analysis. NMTAP applicability and emissions are addressed in the emissions/application forms; the modeling package does not establish that the facility emits no NMTAPs.

2 List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.

Pollutant	Emission Rate (pounds/hour)	Emission Rate Screening Level (pounds/hour)	Stack Height (meters)	Correction Factor	Emission Rate/ Correction Factor
N/A	N/A	N/A	N/A	N/A	N/A

16-F: Modeling options

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes☒	No☒
	AERMOD v24142 was intentionally retained for this project and run in regulatory default concentration mode. AERMAP v24142 and the NMED-prepared Carlsbad 2020–2024 meteorological files were used consistently with the selected project setup. See Modeling Report Section 4.1. The AERMET files processed by the state (NMED) were processed using v24142 so the modeling was done using the same version.		

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	July 30, 2026 (AQB-generated surrounding-source inventories).

2 If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.

AQB Source ID	Description of Corrections
N/A	N/A

16-H: Building and structure downwash

1	How many buildings are present at the facility?	6 rectangular compressor/cooler structures (BLD_9 through BLD_14) were included in BPIPPRM.
2	How many above ground storage tanks are present at the facility?	

7 above-ground storage tanks are present, plus one 750-bbl gunbarrel separator. All 8 tanks/vessels were included as downwash structures: GUNBAR (10.67 m high × 3.66 m diameter); COND1, COND2, and PWTANK (9.14 m × 4.72 m each); and OILT1, OILT2, METH, and COOLANT (4.57 m × 3.05 m each).

3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes☒	No☐
4	Building comments	BPIPPRM v04274 processed 14 structures and generated source-specific, direction-dependent BUILDHGT/BUILDWID parameters for ENG1–ENG8, GEN1, RBL1, ECD1, and ECD2. Rectangular structure dimensions (height × width × length, m) were: BLD_9 6.10 × 8.50 × 27.49; BLD_10 6.10 × 8.00 × 33.36; BLD_11 6.10 × 7.50 × 34.23; BLD_12 6.10 × 10.49 × 27.24; BLD_13 6.10 × 10.24 × 27.36; and BLD_14 6.10 × 10.24 × 27.23.	

16-I: Receptors and modeled property boundary

1	"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 a 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. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility. Describe the fence or other physical barrier at the facility that defines the restricted area.		
	The Facility has installed a perimeter fence to restrict access to the site.		
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?	Yes☐	No☒
3	Are restricted area boundary coordinates included in the modeling files?	Yes☒	No☐

4 Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.

Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments
Ambient boundary	Polygon	25 meters	Restricted-area boundary	Restricted-area boundary	PLBN1; five vertices; included in the executed receptor file.
Nested Cartesian	Square	50 meters	Boundary	~0.4 km	Near-field grid.

	Nested Cartesian	Square	100 and 250 meters	~0.4 km	~6 km	100-m spacing to approximately 3 km; 250-m spacing to approximately 6 km.
	Nested Cartesian	Square	500 and 1,000 meters	~6 km	~15 km	500-m intermediate spacing and 1,000-m outer spacing.
	Class I screen	Rings	1° azimuth (360/ring)	40 km	50 km	720 AERMAP-processed receptors total.

5	Describe receptor spacing along the fence line.
	25-m spacing was used along the final PLBN1 ambient boundary. The executed AERMAP receptor file contains 2,407 receptors. PLBN1 vertices (WGS84 UTM Zone 13N, m) are: (596414.12, 3554973.73), (596414.95, 3554802.76), (596451.47, 3554768.73), (596618.29, 3554770.39), and (596618.29, 3554979.54).
6	Describe the PSD Class I area receptors.
	Two nominal facility-centered rings at 40 and 50 km, with 360 AERMAP-processed discrete receptors per ring (720 total), were used for the final Class I significance screen. The network samples all azimuths at 1° increments and is a screening surrogate, not an exact Carlsbad Caverns National Park boundary grid.

16-J: Modeling Scenarios

1	Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).		
	Point sources were modeled at maximum allowable potential-to-emit or proposed maximum operating capacity for 8,760 hr/yr. GEN1 was used as the worst-case generator; GEN1 and GEN2 do not operate simultaneously. HR-1 was modeled as five adjacent volume-source segments with the HROFDY factors shown below. Separate facility-only SIL/ROI, cumulative NAAQS/NMAAQS, Class II increment, and Class I significance scenarios were executed by pollutant and averaging period.		
2	Which scenario produces the highest concentrations? Why?		
	Maximum allowable potential-to-emit or proposed maximum operating capacity was modeled for project-impacted units. The controlling scenario varies by pollutant and averaging period and is identified in Modeling Report Tables 3–7. GEN1 represents the worst-case non-simultaneous generator scenario.		
3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)	Yes☒	No☐

4	If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. HR-1 (L0000001 through L0000005): identical HROFDY factors were applied to PM2.5 and PM10 emissions for all five segments—0.69 for hours 1–8, 1.62 for hours 9–16, and 0.69 for hours 17–24. See the executed AERMOD inputs. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.) Sources:											
5	Hour of Day	Factor	Hour of Day	Factor								
	1	0.69	13	1.62								
	2	0.69	14	1.62								
	3	0.69	15	1.62								
	4	0.69	16	1.62								
	5	0.69	17	0.69								
	6	0.69	18	0.69								
	7	0.69	19	0.69								
	8	0.69	20	0.69								
	9	1.62	21	0.69								
	10	1.62	22	0.69								
	11	1.62	23	0.69								
	12	1.62	24	0.69								
	If hourly, variable emission rates were used that were not described above, describe them below.											
	No additional applicant-source hourly factors were used. AQB-provided temporal factors for offsite sources were retained in the applicable surrounding-source inventories.											
6	Were different emission rates used for short-term and annual modeling? If so describe below.									Yes☐		No☒
	No. For each pollutant, the same applicant maximum emission rates were used for the corresponding short-term and annual NAAQS/NMAAQS analyses; the averaging-period-specific statistical processing differs.											

16-K: NO_2 Modeling

1	Which types of NO_2 modeling were used? Check all that apply.	
	☒	ARM2
	☒	100% NO_X to NO_2 conversion
	☐	PVMRM
	☐	OLM
	☐	Other:
2	Describe the NO_2 modeling.	
	ARM2 with default national minimum/maximum NO2/NOx ratios of 0.5 and 0.9 was used for NO2 NAAQS/NMAAQS and Class II analyses. The annual NO2 Class I significance run used Tier 1 100% NOx-to-NO2 conversion as a conservative screening assumption. See Modeling Report Section 4.2.	
3	Were default NO_2/NO_X ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below.	Yes☒ No☐
4	Describe the design value used for each averaging period modeled.	

	1-hour NAAQS: five-year average of the 98th-percentile (8th-highest) daily maximum 1-hour concentration at each receptor. Annual NAAQS/NMAAQS: annual mean concentration averaged across the five meteorological years. See Modeling Report Section 5.1.

16-L: Ozone Analysis

1	NMED has performed a generic analysis that demonstrates sources that are minor with respect to PSD do not cause or contribute to any violations of ozone NAAQS. The analysis follows. The basis of the ozone SIL is documented in *Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program*, EPA, April 17, 2018 and associated documents. NMED accepts this SIL basis and incorporates it into this permit record by reference. Complete documentation of the ozone concentration analysis using MERPS is included in the New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines.		
2	The MERP values presented in Table 10 and Table 11 of the NM AQB Modeling Guidelines that produce the highest concentrations indicate that facilities emitting no more than 250 tons/year of NO_X and no more than 250 tons/year of VOCs will cause less formation of O_3 than the O_3 significance level. $$[O_3]_{8-hour} = \left(\frac{250 \frac{ton}{yr}}{340_{MERP_{NOX}}} + \frac{250 \frac{ton}{yr}}{4679_{MERP_{VOC}}} \right) \times 1.96\ \mu g/m^3$$ =1.546 µg/m^3, which is below the significance level of 1.96 µg/m^3. Sources that produce ozone concentrations below the ozone SIL do not cause or contribute to air contaminant levels exceeding the ozone NAAQS.		
3	Does the facility emit at least 250 tons per year of NO_X or at least 250 tons per year of VOCs? Sources that emit at least 250 tons per year of NO_X or at least 250 tons per year of VOCs are covered by the analysis above and require an individual analysis.	Yes☐	No☒

5 For new PSD Major Sources or PSD major modifications, if MERPs were used to account for ozone fill out the information below. If another method was used describe below.

NO_X (ton/yr)	$MERP_{NOX}$	VOCs (ton/yr)	$MERP_{VOC}$	$[O_3]_{8\text{-hour}}$
N/A	N/A	N/A	N/A	N/A

16-M: Particulate Matter Modeling

1 Select the pollutants for which plume depletion modeling was used.

☐	PM2.5
☐	PM10
☒	None

2 Describe the particle size distributions used. Include the source of information.

N/A

3	Does the facility emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2? Sources that emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2 are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5.	Yes☒	No☐

4	Was secondary PM modeled for PM2.5?				Yes☒	No☐
	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.					
	Pollutant	NO_X	SO_2		$[PM2.5]_{24\text{-hour}}$	
	$MERP_{annual}$				0.00397 µg/m³	
	$MERP_{24\text{-hour}}$				$[PM2.5]_{annual}$	
	Emission rate (ton/yr)	113.0	6.15		0.000661 µg/m³	
	Calculated secondary PM2.5 contributions are 0.00397 µg/m³ (24-hour) and 0.000661 µg/m³ (annual). These values were added to the direct modeled PM2.5 results.					

16-N: Setback Distances

1	Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.
	N/A
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.
	N/A

16-O: PSD Increment and Source IDs

1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below.			Yes☐	No☒
	Unit Number in UA-2		Unit Number in Modeling Files		
	ENG-1–ENG-8; GEN-1; RBL-1; ECD-1–ECD-2		ENG1–ENG8; GEN1; RBL1; ECD1–ECD2		
	HR-1		L0000001–L0000005 (five volume segments)		
2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.			Yes☒	No☐
3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?			Yes☐	No☒
4	Which units consume increment for which pollutants? Applicant source IDs are pollutant-specific: ENG1–ENG8, GEN1, and RBL1 consume NO2, SO2, PM10, and PM2.5 increment; ECD1–ECD2 consume NO2 and SO2 increment only; HR-1 (L0000001–L0000005) consumes PM10 and PM2.5 increment only.				
	Unit ID	NO_2	SO_2	PM10	PM2.5
	ENG1–ENG8; GEN1; RBL1	Yes	Yes	Yes	Yes
	ECD1–ECD2; HR-1 (L0000001–L0000005)	ECDs: Yes; HR-1: No	ECDs: Yes; HR-1: No	ECDs: No; HR-1: Yes	ECDs: No; HR-1: Yes

5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).	No unusual baseline-unit expansion case was identified; increment applicability follows the pollutant-specific source mapping above.	
6	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☒	No☐

16-P: Flare Modeling

1	For each flare or flaring scenario, complete the following. Not applicable. No flare sources were modeled. ECD1 and ECD2 were represented as vertical point sources using source-specific release parameters; they are enclosed combustion devices, not flares.			
	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)
	N/A	N/A	N/A	N/A

16-Q: Volume and Related Sources

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines? If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☐	No☒
	No alternate nonstandard dimensions were identified in the executed model. HR-1 was represented by five adjacent volume sources using release height 3.11 m, sigma-y 3.93 m, and sigma-z 2.89 m.		
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		

The executed AERMOD SRCPARAM records for L0000001–L0000005 provide the controlling parameters: release height 3.11 m, initial lateral dimension sigma-y = 3.93 m, and initial vertical dimension sigma-z = 2.89 m. The same dimensions were applied to all five adjacent segments; aggregate HR-1 emissions are 0.005 lb/hr PM2.5 and 0.050 lb/hr PM10. See Modeling Report Tables 1a and 1b.

3	Describe how the volume sources are related to unit numbers. Or say they are the same.
	Model unit HR-1 is represented in AERMOD by five adjacent volume-source segments (L0000001 through L0000005). The PM2.5 and PM10 emission rates reported for HR-1 are aggregate rates distributed across those segments. See Modeling Report Sections 3.1-3.2 and Tables 1a-1b.
4	Describe any open pits.
	N/A
5	Describe emission units included in each open pit.
	N/A

16-R: Background Concentrations

1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.	Yes☒	No☐
	CO: N/A - facility-only 1-hour and 8-hour impacts are below the applicable Class II SILs; no cumulative CO analysis was required.		
	NO2: 1-hour - Hobbs-Jefferson / refined 43,848-hour BACKGRND HOURLY profile (58.3 µg/m³ monitoring-basis reference); annual - Carlsbad project input, 9.3 µg/m³.		
	PM2.5: NMED Eastern New Mexico / Hobbs-Jefferson - 16.7 µg/m³ (24-hour) and 6.6 µg/m³ (annual).		
	PM10: NMED Eastern New Mexico / Hobbs-Jefferson - 37.3 µg/m³ (24-hour) and 24.0 µg/m³ (annual monitoring basis).		
	SO2: No representative monitored background was used for the Pecos-Permian Basin; surrounding sources were modeled explicitly.		
	Other:		
	Comments: See Modeling Report Section 5.1, Table 4, and Appendix B for background treatment.		
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes☒	No☐
	Yes. The 1-hour NO2 NAAQS analysis uses a 43,848-hour background file aligned hour-for-hour with the 2020-2024 Carlsbad meteorological period via AERMOD BACKGRND HOURLY. AERMOD pairs each hourly modeled concentration with the corresponding hourly background before calculating the five-year 98th-percentile design value.		

16-S: Meteorological Data

1	Was NMED provided meteorological data used? If so select the station used. Carlsbad	Yes☒	No☐
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		
	NMED-prepared Carlsbad 2020–2024 sequential hourly data were used. The AERMOD inputs identify surface station WBAN 93033, upper-air station Midland Regional Air Terminal WBAN 23023, and a profile base elevation of 976 m. No alternate non-NMED dataset was used.		

16-T: Terrain

1	Was complex terrain used in the modeling? If not, describe why below.	Yes☒	No☐
2	What was the source of the terrain data?		
	USGS 1/3 arc-second National Elevation Dataset (NED) elevation profiles were processed using AERMAP (v24142) to compute source and receptor base elevations and hill height scale factors.		

16-U: Modeling Files

1	Describe the modeling files:		
	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)

	REVEILLE-SIL-MODEL-FILES\REVEILLE-CO-1HR-8HR	CO	Facility-only SIL/ROI screening; 1- and 8-hour.
	REVEILLE-SIL-MODEL-FILES\REVEILLE-NO2-1HR; REVEILLE-NO2-ANNUAL; REVEILLE-SO2-1HR	NO2, SO2	Facility-only SIL/ROI screening.
	REVEILLE-SIL-MODEL-FILES\REVEILLE-PM25-24HR; REVEILLE-PM25-ANNUAL; REVEILLE-PM10-24HR; REVEILLE-PM10-ANNUAL	PM2.5, PM10	Facility-only SIL/ROI screening.
	REVEILLE-NAAQS-MODEL-FILES\NO2-1HR-NAAQS; NO2-ANNUAL-NAAQS; SO2-1HR-NAAQS	NO2, SO2	Cumulative NAAQS/NMAAQS analyses.
	REVEILLE-NAAQS-MODEL-FILES\PM25-24HR-NAAQS-10KM; PM25-ANNUAL-NAAQS; PM10-24HR-NAAQS	PM2.5, PM10	Cumulative NAAQS analyses; PM2.5 uses 10-km source isolation.
	REVEILLE-CLASS-II\NO2-PSD-INCR; SO2-PSD-INCR; PM25-PSD-INCR; PM10-PSD-INCR	NO2, SO2, PM2.5, PM10	Class II PSD increment analyses.
	REVEILLE-CLASS-I\NO2-CLASS-I; SO2-CLASS-I; PM25-CLASS-I; PM10-CLASS-I	NO2, SO2, PM2.5, PM10	Class I 40-/50-km significance screening.
	REVEILLE-SIL-MODEL-FILES\REVEILLE-SOURCES-INFORMATION\Reveille Modeling Inputs 20260817.xlsx	All modeled pollutants	Applicant source parameters, coordinates, and emissions.
	REVEILLE-SIL-MODEL-FILES\REVEILLE-MASTER-PLANT-BOUNDARY	All modeled pollutants	Final PLBN1 ambient-boundary coordinates.
	REVEILLE-SIL-MODEL-FILES\REVEILLE-MASTER-RECEPTOR-GRID; REVEILLE-MASTER-RECEPTOR-GRID-HAUL-ROADS-ALSO	All modeled pollutants	AERMAP receptor networks, including HR-1 configuration.
	AQB surrounding-source INP files generated 7/30/2026	CO, NO2, SO2, PM2.5, PM10, H2S	Offsite source inventories retained for applicable cumulative/increment runs.

16-V: PSD New or Major Modification Applications

1	A new PSD major source or a major modification to an existing PSD major source requires additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?	Yes☐	No☒
2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes☐	No☐
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
	Not a PSD Source		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
	Not a PSD Source		
5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes☐	No☒
	N/A—Reveille is not a PSD major source. The generic ozone screen is documented in Section 16-L, and project-specific secondary PM2.5 is documented in Section 16-M.		

16-W: Modeling Results			
1	If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.	Yes☐	No☒
	No. The completed refined ambient-standard analyses are below the applicable NAAQS/NMAAQS, so a culpability analysis was not required. See Modeling Report Sections 6.2 and 7.0.		
2	Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary. Maximum concentrations are reproduced in the Modeling Report tables on the following pages. Key cumulative maxima are: NO2 1-hour 176.455 µg/m³; NO2 annual 20.319 µg/m³; SO2 1-hour 24.416 µg/m³; PM2.5 24-hour 19.325 µg/m³; PM2.5 annual 7.918 µg/m³; and PM10 24-hour 52.542 µg/m³. Class II and Class I maxima are also tabulated below.		

Please reference the modeling report attached to UA4. Section 6.0

Table 3: Model Results for Significance Impact Analyses

Pollutant	Averaging Time	NAAQS / Statistical Basis	Facility-Only Modeled Conc. (ug/m³)	Class II SIL (ug/m³)	Exceeds SIL?	Radius of Impact (km)
CO	1-hour	Not to be exceeded > once per year	276.323	2,000	No	-
CO	8-hour	Not to be exceeded > once per year	226.204	500	No	-
NO_2	1-hour	98th percentile, averaged over 5 years	130.621	7.5	Yes	15.0+
NO_2	Annual	Annual mean, averaged over 5 years	9.862	1.0	Yes	See App. C
SO_2	1-hour	99th percentile, averaged over 5 years	11.341	7.8	Yes	0.163
SO_2	3-hour	High-second-high	11.405	25	No	-
SO_2	24-hour	High-second-high	6.776	5.0	Yes	0.132
SO_2	Annual	Annual mean, averaged over 5 years	0.605	1.0	No	-
$PM_{2.5}$	24-hour	98th percentile, averaged over 5 years	1.990	1.2	Yes	0.294*
$PM_{2.5}$	Annual	Annual mean, averaged over 5 years	0.588	0.13	Yes	0.294*
PM_{10}	24-hour	6th-highest over 5 years	8.559	5.0	Yes	0.184
PM_{10}	Annual	Annual mean, averaged over 5 years	3.262	1.0	Yes	0.154

*The $PM_{2.5}$ refined receptor file used for the current annual analysis extends to approximately 0.294 km from the modeled facility center; the same 124-receptor refined set is used in the current $PM_{2.5}$ cumulative package. NO_2 1-hour impacts remain above the SIL at the outer 15-km grid extent.

Table 4: Summary of Ambient Background Concentrations

Pollutant	Averaging Period	Monitoring / Background Basis	Value (µg/m³)	Rationale
NO_2	1-Hour	Hobbs-Jefferson / refined hourly AERMOD profile	58.3 (reference)	NMED Eastern NM 98th-percentile reference; final AERMOD uses 43,848-hour BACKGRND HOURLY profile
NO_2	Annual	Carlsbad / Reveille protocol input	9.3	Annual background used in final Reveille annual NO_2 input
$PM_{2.5}$	24-Hour	NMED Eastern NM / Hobbs-Jefferson	16.7	3-year 98th-percentile 24-hour background
$PM_{2.5}$	Annual	NMED Eastern NM / Hobbs-Jefferson	6.6	3-year annual-average background
PM_{10}	24-Hour	NMED Eastern NM / Hobbs-Jefferson	37.3	3-year second-highest 24-hour background
PM_{10}	Annual	NMED Eastern NM / Hobbs-Jefferson	24.0	Annual monitoring background basis

Table 5a: Cumulative NAAQS/NMAAQS Predicted Concentrations

Pollutant	Averaging Time	Background (ug/m^3)	Facility + Background (ug/m^3)	Facility + Offsite + Background (ug/m^3)	Exceeds?
NO_2	1-hour	Hourly profile (58.3 reference)	176.455	-	No
NO_2	Annual	9.3	20.319	-	No
SO_2	1-hour	N/A	11.342	24.416	No
$PM_{2.5}$	24-hour	16.7	18.694*	19.325*	No
$PM_{2.5}$	Annual	6.6	7.189*	7.918*	No
PM_{10}	24-hour	37.3	45.866	52.542	No

Table 5b: Applicable Ambient Standards and Statistical Basis

Pollutant	Averaging Time	NAAQS / Statistical Basis	Federal NAAQS (ug/m^3)	NM NMAAQS (ug/m^3)
NO_2	1-hour	98th percentile, averaged over 5 years	188	-
NO_2	Annual	Annual mean, averaged over 5 years	100	94.02
SO_2	1-hour	99th percentile, averaged over 5 years	196.4	-
$PM_{2.5}$	24-hour	98th percentile, averaged over 5 years	35	-
$PM_{2.5}$	Annual	Annual mean, averaged over 5 years	9.0	-
PM_{10}	24-hour	6th-highest over 5 years	150	-

*$PM_{2.5}$ totals include project-specific secondary formation: 0.00397 ug/m^3 (24-hour) and 0.000661 ug/m^3 (annual). The 24-hour $PM_{2.5}$ cumulative result shown here is from the NMED 10-km source-isolation run with 893 total modeled sources (17 Reveille sources and 876 retained offsite sources).

Table 6a: Gaseous Class II PSD Increment Results

Pollutant	Averaging Time	Class II Increment / Statistical Basis	Facility-Only Modeled Conc. (ug/m^3)	Facility + Offsite Increment Conc. (ug/m^3)	Class II PSD Increment (ug/m^3)	Exceeds?
NO_2	1-hour	N/A	N/A	N/A	N/A	N/A
NO_2	Annual	Annual mean, averaged over 5 years	11.007	19.656	25	No
SO_2	3-hour	High-second-high	11.405	22.107	512	No
SO_2	24-hour	High-second-high	6.776	7.253	91	No
SO_2	Annual	Annual mean, averaged over 5 years	0.605	1.002	20	No

PSD increment comparisons do not include monitored ambient background; background is 0 for applicable increment comparisons. Table 6b summarizes particulate Class II PSD increment results.

Table 6b: Particulate Class II PSD Increment Results

Pollutant	Averaging Time	Class II Increment / Statistical Basis	Facility + Offsite Increment Conc. (ug/m^3)	Class II PSD Increment (ug/m^3)	Exceeds?
$PM_{2.5}$	24-hour	High-second-high	5.774*	9	No
$PM_{2.5}$	Annual	Annual mean, averaged over 5 years	2.456*	4	No
PM_{10}	24-hour	High-second-high	16.314	30	No
PM_{10}	Annual	Annual mean, averaged over 5 years	6.438	17	No

*$PM_{2.5}$ increment values include the applicable project-specific secondary $PM_{2.5}$ contribution.

Table 7: Model Results of Class I Significance Analyses

Pollutant	Averaging Time	Max. Facility-Only Conc. Across 40-/50-km Rings (µg/m³)	Class I SIL (µg/m³)	Exceeds SIL?
NO_2	Annual	0.02915	0.1	No
SO_2	3-hour	0.14049	1.0	No
	24-hour	0.03136	0.2	No
	Annual	0.00161	0.1	No
$PM_{2.5}$	24-hour	0.00308	0.27	No
	Annual	0.00016	0.05	No
PM_{10}	24-hour	0.00417	0.3	No
	Annual	0.00019	0.2	No

16-X: Summary/conclusions

	A statement that modeling requirements have been satisfied and that the permit can be issued.
1	Modeling requirements for CO, NO2, SO2, PM2.5, and PM10 have been satisfied for the current project-specific scope. All completed NAAQS/NMAAQS, Class II PSD increment, and Class I significance-screening results are below their applicable comparison levels. No culpability analysis or additional criteria-pollutant AERMOD runs are indicated by the modeled results. Based on this air-dispersion modeling demonstration, the permit may be issued, subject to NMED review and any separate boundary-specific Class I refinement requested by NMED or the Federal Land Manager.

Air Dispersion Modeling Report

For Reveille Compressor Station (NMED AI # 40948)

Eddy County, New Mexico

Prepared for:

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August 30, 2026

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1.0 Executive Summary

An air dispersion modeling analysis was performed for ONEOK Delaware Gathering, LLC's Reveille Compressor Station in Eddy County, New Mexico. The Modeling used AERMOD version 24142 in regulatory default mode in accordance with the Reveille modeling protocol, NMED Air Quality Bureau modeling guidance, and U.S. EPA Appendix W. The completed modeling program addresses CO, NO_2, SO_2, $PM_{2.5}$, and PM_{10} NAAQS/NMAAQS requirements, applicable Class II PSD increments, and Class I significance screening. All final compliance results are summarized below.

- Class II SIL Analysis: CO 1-hour and 8-hour impacts are below their Class II SILs (276.323 and 226.204 µg/m³, respectively), so no additional CO cumulative modeling is required. Facility-only NO_2, SO_2, $PM_{2.5}$, and PM_{10} impacts exceed one or more applicable Class II SILs and therefore proceed to the corresponding refined NAAQS/NMAAQS and/or PSD increment analyses. Table 3 summarizes the controlling significance results.
- Cumulative NAAQS/NMAAQS Analysis: Completed refined results are below the applicable ambient standards: NO_2 1-hour = 176.455 µg/m³; NO_2 annual = 20.319 µg/m³; SO_2 1-hour = 24.416 µg/m³; $PM_{2.5}$ 24-hour = 19.325 µg/m³ including secondary formation; $PM_{2.5}$ annual = 7.918 µg/m³ including secondary formation; and PM_{10} 24-hour = 52.542 µg/m³. The $PM_{2.5}$ 24-hour and annual cumulative analyses apply the NMED 10-km source-isolation screen; each run includes 893 total sources (17 Reveille sources and 876 retained offsite sources). The final 24-hour design concentration remains well below the 35 µg/m³ NAAQS.
- Class II PSD Increment Analysis: All completed Class II increment results are below the applicable increments. The final NO_2 annual Class II result is 19.656 µg/m³ versus the 25 µg/m³ increment. SO_2 results are 22.107 µg/m³ (3-hour), 7.253 µg/m³ (24-hour), and 1.002 µg/m³ (annual). $PM_{2.5}$ results, including secondary formation, are 5.774 µg/m³ (24-hour) and 2.456 µg/m³ (annual). PM_{10} results are 16.314 µg/m³ (24-hour) and 6.438 µg/m³ (annual).

- Class I Analysis: NMED requested Class I modeling because Carlsbad Caverns National Park is less than 50 km from Reveille. The final screen uses nominal facility-centered 40-km and 50-km rings (360 receptors each; 720 total). All facility-only maxima are below the applicable Class I SILs for NO_2, SO_2, $PM_{2.5}$, and PM_{10}, and all controlling maxima occur on the nominal 40-km ring. Table 7 summarizes the final values.

2.0 Modeling Quality-Control Summary

An independent quality-control review was completed for the final AERMOD modeling files and this report. The review included source locations and parameters, emission rates, model setup, and report-result consistency. The report tables were cross-checked against the client-provided modeling inputs and the completed QC records; the source-file audit log identifies each available AERMOD output file used for numerical verification.

Minor source-coordinate differences relative to the document supplied by Resolute Compliance reflect ground-truthing of source locations using aerial imagery/Google Earth; the adjustments were limited to a few meters and did not change source identity or the modeled source configuration.

The final AERMOD emission rates were generated from the client-provided lb/hr values as displayed in the August 17, 2026 modeling workbook—generally rounded to three decimal places, with scientific notation retained for very small rates—and converted to g/s. Table 1b reports the executed point-source emission rates rounded to six decimal places for presentation; the AERMOD input files retain additional numerical precision.

No material discrepancies were identified in the high-confidence comparisons between the report tables and the authoritative input/QC records; presentational rounding differences were retained where they did not affect reproducibility. See the following modeling run summary:

Reveille AERMOD Modeling QC Summary

Updated QC findings and final run status - August 30, 2026

Stage	Reveille run	Status	QC finding / action
SIL	CO 1-hr / 8-hr	✓ COMPLETE	1-hr = 276.32349 µg/m³ < 2,000; 8-hr = 226.20377 µg/m³ < 500. No cumulative CO modeling is required.
SIL	SO_2 1-hr	✓ COMPLETE - TRIGGERS	11.34139 µg/m³ > 7.8 µg/m³. Cumulative 1-hour SO_2 modeling was required and has been completed.
SIL	SO_2 3-hr / 24-hr / annual	✓ COMPLETE - 24-HR TRIGGERS	3-hr = 11.40513 µg/m³ < 25; 24-hr = 6.77556 µg/m³ > 5; annual = 0.60547 µg/m³ < 1. Required 24-hour increment analysis is complete.
SIL	NO_2 1-hr	✓ COMPLETE - TRIGGERS	Facility-only SIL result = 130.62149 µg/m³ > 7.5 µg/m³. Cumulative 1-hour NO_2 NAAQS modeling was required and completed.
SIL	NO_2 annual	✓ COMPLETE - TRIGGERS	9.86186 µg/m³ > 1.0 µg/m³. Annual NO_2 NAAQS and Class II PSD increment analyses were required and completed.
SIL	$PM_{2.5}$ 24-hr	✓ COMPLETE - TRIGGERS	1.99007 µg/m³ > 1.2 µg/m³. Refined $PM_{2.5}$ analysis was required and completed.
SIL	$PM_{2.5}$ annual	✓ COMPLETE - TRIGGERS	0.58811 µg/m³ > 0.13 µg/m³. Refined $PM_{2.5}$ analysis was required and completed.
SIL	PM_{10} 24-hr / annual	✓ COMPLETE - BOTH TRIGGER	24-hr = 8.55856 µg/m³ > 5; annual = 3.26204 µg/m³ > 1. Both applicable significance thresholds are exceeded.
NAAQS	NO_2 1-hr	✓ COMPLETE / PASSES	ARM2 and the refined hourly background profile are complete. Final ALL design concentration = 176.45541 µg/m³ < 188 µg/m³.
NAAQS	NO_2 annual	✓ COMPLETE / PASSES	Final ALL concentration = 20.31873 µg/m³, including annual background; below 94.02 µg/m³ NMAAQS and 100 µg/m³ NAAQS.
NAAQS	SO_2 1-hr	✓ COMPLETE / PASSES	Final ALL concentration = 24.41606 µg/m³ < 196.4 µg/m³. Surrounding sources are explicitly modeled.
NAAQS	$PM_{2.5}$ 24-hr	✓ COMPLETE / PASSES	Final 10-km run: AERMOD = 19.32071 µg/m³ + secondary $PM_{2.5}$ = 0.00397 µg/m³; final = 19.32468 µg/m³ (~19.325) < 35 µg/m³. 893 sources.
NAAQS	$PM_{2.5}$ annual	✓ COMPLETE / PASSES	AERMOD = 7.91704 µg/m³ + secondary $PM_{2.5}$ = 0.000661 µg/m³; final = 7.91770 µg/m³ (~7.918) < 9 µg/m³. 893 sources.
NAAQS	PM_{10} 24-hr	✓ COMPLETE / PASSES	Correct 6th-high 24-hour processing with 37.3 µg/m³ background. Final ALL concentration = 52.54233 µg/m³ < 150 µg/m³. Run includes 4,192 sources.
NAAQS	PM_{10} annual	— NOT REQUIRED	No annual PM_{10} NAAQS applies.
Class II PSD	NO_2 annual	✓ COMPLETE / PASSES	Controlling annual increment = 19.65571 µg/m³ < 25 µg/m³.
Class II PSD	SO_2 3-hr / 24-hr / annual	✓ COMPLETE / PASSES	3-hr = 22.10695 µg/m³ < 512; 24-hr = 7.25256 µg/m³ < 91; annual = 1.00213 µg/m³ < 20.
Class II PSD	$PM_{2.5}$ 24-hr	✓ COMPLETE / PASSES	AERMOD H2H = 5.77049 µg/m³ + secondary $PM_{2.5}$ = 0.00397 µg/m³; final = 5.77446 µg/m³ < 9 µg/m³.
Class II PSD	$PM_{2.5}$ annual	✓ COMPLETE / PASSES	AERMOD = 2.45558 µg/m³ + secondary $PM_{2.5}$ = 0.000661 µg/m³; final = 2.45624 µg/m³ < 4 µg/m³.
Class II PSD	PM_{10} 24-hr / annual	✓ COMPLETE / PASSES	24-hr H2H = 16.31437 µg/m³ < 30; annual = 6.43801 µg/m³ < 17.

Stage	Reveille run	Status	QC finding / action
Class I	NO2	✓ **COMPLETE / PASSES**	Annual = 0.02915 µg/m³ < 0.1 µg/m³. Final 40-/50-km dual-ring screen passes; controlling maximum is on the nominal 40-km ring.
Class I	SO2	✓ **COMPLETE / PASSES**	3-hr = 0.14049 < 1.0; 24-hr = 0.03136 < 0.2; annual = 0.00161 < 0.1 µg/m³. All Class I SILs pass; controlling maxima are on the nominal 40-km ring.
Class I	PM2.5	✓ **COMPLETE / PASSES**	24-hr = 0.00308 µg/m³ < 0.27; annual = 0.00016 µg/m³ < 0.05. Class I significance screening passes.
Class I	PM10	✓ **COMPLETE / PASSES**	24-hr = 0.00417 µg/m³ < 0.3; annual = 0.00019 µg/m³ < 0.2. Class I significance screening passes.

Completion status: All required Reveille AERMOD runs reviewed in the final package are complete. NAAQS/NMAAQS demonstrations and Class II PSD increment analyses pass. The final Class I significance screen uses combined nominal 40-km and 50-km receptor rings (720 total receptors); all Class I SIL comparisons pass, with the controlling maxima on the nominal 40-km ring. The dual-ring network is a project-specific screening surrogate rather than an exact park-boundary receptor grid.

3.0 Introduction and Facility Overview

The Reveille Compressor Station (Facility) is a natural gas compression and dehydration facility operated by ONEOK Delaware Gathering, LLC. The Facility is located in Eddy County, New Mexico, approximately 13.05 miles southeast of Loving. The modeled facility center is approximately UTM 596,537 m E and 3,554,866 m N (WGS84, Zone 13N), corresponding to approximately 32.126050 degrees N, 103.976583 degrees W. AERMAP-processed onsite source elevations in the current model are generally approximately 923 to 925 m above mean sea level.

This report supports the current Reveille air-permitting modeling demonstration. The modeled onsite configuration includes eight compressor engines, one generator, a glycol reboiler, two enclosed combustion devices, and a particulate haul-road/line-volume source. The Facility also includes dehydration, liquid-handling and storage equipment, loading operations, and associated fugitive and intermittent sources addressed in the permitting record as applicable.

3.1 Project Scope and Proposed Modifications

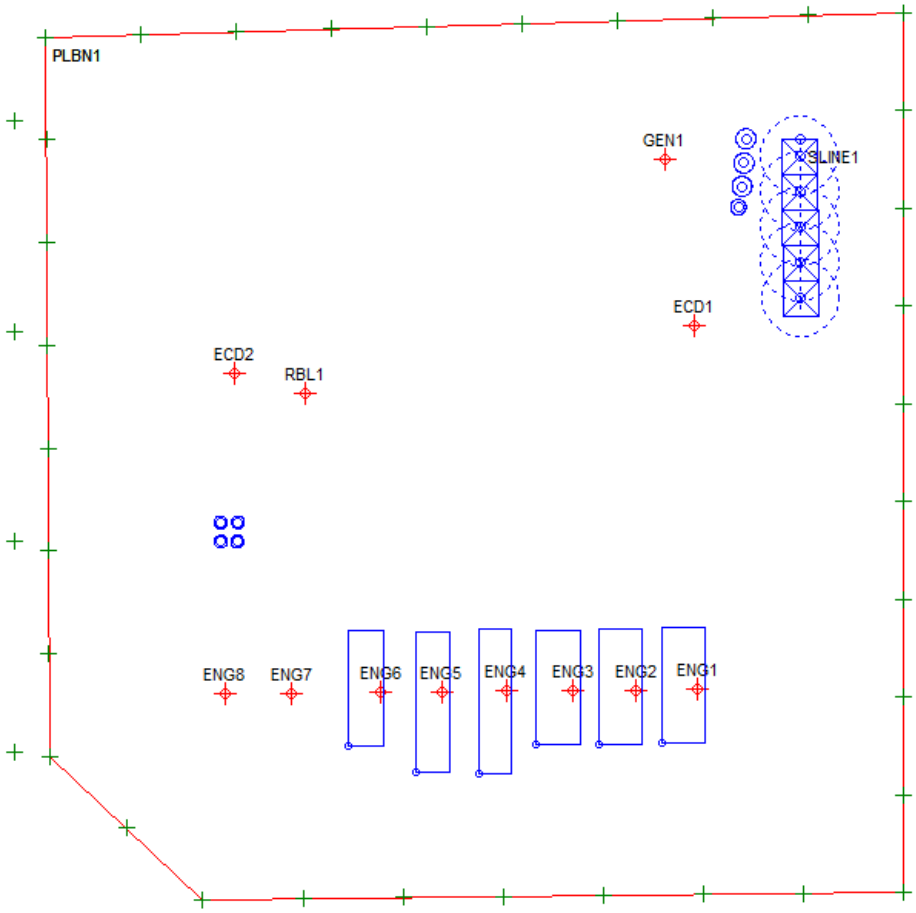
For the current Reveille modeling configuration, the onsite AERMOD source group includes the following modeled emission units:

- Four (4) Caterpillar G3612 A4 compressor engines (ENG1, ENG2, ENG3, and ENG6).
- Two (2) Waukesha 16V275GI compressor engines (ENG4 and ENG5).
- Two (2) Caterpillar G3616 A4 Gen 2 compressor engines (ENG7 and ENG8), one generator (GEN1), and one 2.0 MMBtu/hr glycol reboiler (RBL1).
- Two (2) enclosed combustion devices (ECD1 and ECD2) and one particulate line-volume source represented by five adjacent volume-source segments (L0000001 through L0000005).

3.2 Facility Source Emissions and Parameters

A geographical layout of the Reveille Compressor Station modeled facility boundary, onsite emission sources, and buildings/structures is presented in Figure 1. The source coordinates and elevations used in the final model files are the controlling values for the dispersion analysis.

Figure 1: Reveille Facility, Modeled Emission Sources, and Buildings/Structures



Emission units were modeled using standard dispersion characterization principles:

- Point Sources: Compressor engines, the generator, the glycol reboiler, and the enclosed combustion devices were represented as vertical point sources using source-specific stack heights, diameters, exit temperatures, velocities, and AERMAP-processed base elevations. Tables 1a and 1b summarize release geometry and elevations from the final Reveille AERMOD inputs and emission rates from Reveille Modeling Inputs 20260817.xlsx.

- Enclosed Combustion Devices: ECD1 and ECD2 were modeled as vertical point sources using the source-specific release parameters in the Reveille model. For direct $PM_{2.5}$, both ECDs have a modeled emission rate of 0.0 g/s in the 24-hour run.

- Haul Road / Line-Volume Source: Particulate emissions from HR-1 were represented by five adjacent volume-source segments. The modeled road emission rates are 0.005 lb/hr $PM_{2.5}$ and 0.050 lb/hr PM_{10} distributed across the five segments. Hour-of-day emission factors limit emissions to the modeled operating period.

A complete summary of the facility sources, source types, release parameters, and potential-to-emit emission rates is provided in Tables 1a and 1b. Table 1a summarizes Reveille facility source locations and release geometry. Table 1b summarizes Reveille facility source release conditions and emission rates.

Table 1a: Reveille Facility Source Locations and Release Geometry

Type	ID	Description	UTM-X (m)	UTM-Y (m)	Base Elev. (m)	Release Ht. (m)	Diam./sigma-y (m)
POINT	ENG1	Comp. Engine 1 - CAT G3612 A4	596569.24	3554818.65	924.77	8.504	0.6096
POINT	ENG2	Comp. Engine 2 - CAT G3612 A4	596554.70	3554818.51	924.62	8.504	0.6096
POINT	ENG3	Comp. Engine 3 - CAT G3612 A4	596539.52	3554818.36	924.40	8.504	0.6096
POINT	ENG4	Comp. Engine 4 - Wauk. 16V275GI	596523.74	3554818.33	924.38	10.649	0.7620
POINT	ENG5	Comp. Engine 5 - Wauk. 16V275GI	596508.34	3554818.18	924.28	10.649	0.7620
POINT	ENG6	Comp. Engine 6 - CAT G3612 A4	596493.90	3554817.90	924.11	8.504	0.6096
POINT	ENG7	Comp. Engine 7 - CAT G3616 A4 Gen 2	596472.67	3554817.70	923.78	8.504	0.6096
POINT	ENG8	Comp. Engine 8 - CAT G3616 A4 Gen 2	596456.69	3554817.55	923.53	8.504	0.6096
POINT	GEN1	Generator - Taylor TG400 21.9L	596561.35	3554944.80	923.99	3.048	0.3048
POINT	RBL1	Glycol Reboiler - 2.00 MMBtu/hr	596475.93	3554888.87	923.17	2.804	0.2438
POINT	ECD1	Enclosed Combustion Device 1	596568.28	3554905.14	924.18	7.620	1.2192
POINT	ECD2	Enclosed Combustion Device 2	596459.11	3554893.94	922.81	7.620	1.2192
VOLUME	HR-1	Haul road; five adjacent volume-source segments	See model input	See model input	See model input	3.11	sigma-y = 3.93

Table 1b: Reveille Facility Source Release Conditions and Emission Rates

ID	Exit Vel./sigma-z (m/s or m)	Exit Temp. (K)	Release Type	NO_x (g/s)	CO (g/s)	$PM_{2.5}$ (g/s)	PM_{10} (g/s)	SO_2 (g/s)
ENG1	38.7248	710.9	Vertical	0.312475	0.416675	0.001008	0.001008	0.018018
ENG2	38.7248	710.9	Vertical	0.312475	0.416675	0.001008	0.001008	0.018018
ENG3	38.7248	710.9	Vertical	0.312475	0.416675	0.001008	0.001008	0.018018
ENG4	26.8407	735.4	Vertical	0.416675	0.555525	0.001386	0.001386	0.024444
ENG5	26.8407	735.4	Vertical	0.416675	0.555525	0.001386	0.001386	0.024444
ENG6	38.7248	710.9	Vertical	0.312475	0.416675	0.001008	0.001008	0.018018
ENG7	50.6090	694.3	Vertical	0.458380	0.611090	0.001386	0.001386	0.025830
ENG8	50.6090	694.3	Vertical	0.458380	0.611090	0.001386	0.001386	0.025830
GEN1	15.2156	1023.2	Vertical	0.056951	0.133054	0.005418	0.005418	0.003024
RBL1	8.1077	1033.2	Vertical	0.024696	0.020790	0.001890	0.001890	0.001386
ECD1	0.7874	1033.2	Vertical	0.135070	0.269635	0.000000	0.000000	0.000022
ECD2	0.7874	1033.2	Vertical	0.033893	0.067787	0.000000	0.000000	0.000022
HR-1	sigma-z = 2.89	--	Volume	0	0	0.000630	0.006300	0

Point-source emission rates in Table 1b are the executed AERMOD values derived from Reveille Modeling Inputs 20260817.xlsx and are rounded to six decimal places for presentation. Point-source coordinates, AERMAP elevations, and release geometry are from the final Reveille AERMOD inputs. GEN1 is the modeled worst-case generator; GEN1 and GEN2 do not operate simultaneously. HR-1 is represented by five adjacent volume-source segments with hour-of-day operating factors; the particulate rates shown in Table 1b are the aggregate rates across the five segments, and individual segment coordinates and elevations are provided in the AERMOD input.

3.3 Modeling Applicability and Emissions Thresholds

In accordance with NMED AQB modeling guidance and the Reveille modeling protocol, dispersion modeling is required for pollutants that do not qualify for the applicable very-small-emission-rate criteria. The updated Reveille inventory exceeds the applicable criteria for CO, NO_2/NO_x, SO_2, $PM_{2.5}$, and PM_{10}; therefore, all five criteria pollutants are included in the modeling program. Table 2 summarizes the updated applicability values from the August 17, 2026 Reveille modeling-input workbook.

Table 2: Modeling Applicability Comparison

Pollutant	Annualized Point/Modeled Rate (tpy)	Peak Modeled Rate (lb/hr)	NMED Criterion Used (lb/hr)	Modeling Required?
CO	156.13	35.645	2.580	Yes
NO_2/NO_x	113.00	25.800	0.024	Yes
SO_2	6.15	1.405	0.023	Yes
$PM_{2.5}$ (point sources)	0.59	0.134	0.009	Yes
$PM_{2.5}$ (line-volume source)	0.02	0.005	0.003	Yes
PM_{10} (point sources)	0.59	0.134	0.039	Yes
PM_{10} (volume/road contribution)	0.22	0.050	0.015	Yes

3.4 Modeling Requirements and Compliance Objectives

The primary objective of the Reveille modeling analysis is to demonstrate compliance with the applicable National Ambient Air Quality Standards (NAAQS), New Mexico Ambient Air Quality Standards (NMAAQS), and PSD increment requirements. The modeling program addresses the following pollutants and averaging periods, subject to the approved protocol and applicable surrogate demonstrations:

- Carbon Monoxide (CO): 1-hour and 8-hour
- Nitrogen Dioxide (NO_2): 1-hour, 24-hour, and annual
- Sulfur Dioxide (SO_2): 1-hour, 3-hour, 24-hour, and annual
- Fine Particulate Matter ($PM_{2.5}$): 24-hour and annual
- Particulate Matter (PM_{10}): 24-hour and annual

4.0 Model Selection and Setup

4.1 Model Selection

Dispersion modeling was executed using AERMOD version 24142 in regulatory default concentration mode. AERMOD is the EPA-preferred near-field regulatory dispersion model and is appropriate for the Reveille analysis. Version 24142 is intentionally retained for this modeling project; AERMAP version 24142 and the NMED-prepared Carlsbad 2020-2024 meteorological files are used consistently with the selected project setup.

4.2 NO_2 Chemical Transformation

The Tier 2 Ambient Ratio Method 2 (ARM2) is applied for the Reveille NO_2 NAAQS/NMAAQS and Class II analyses in accordance with EPA Appendix W guidance, using the default national minimum and maximum NO_2/NO_x conversion ratios of 0.5 and 0.9. The annual NO_2 Class I

significance run uses Tier 1 full conversion of NO_x to NO_2 as a conservative screening assumption, consistent with the executed Class I AERMOD run.

4.3 Building Downwash & Terrain

- **Building Downwash:** Structural wake interactions for all point sources were computed using BPIPPRM (v04274).

- **Terrain Data:** USGS 1/3 arc-second National Elevation Dataset (NED) elevation profiles were processed using AERMAP (v24142) to compute source and receptor base elevations and hill height scale factors.

4.4 Receptor Grid

A multi-tier nested grid was deployed to capture maximum offsite ground-level impacts:

- **Fenceline:** 25-meter spacing along the ambient boundary.

- **Near-Field and Mid-Field Grid:** approximately 50-meter spacing in the near field, approximately 100-meter spacing out to about 3 km, and approximately 250-meter spacing out to about 6 km, with additional refinement where needed to resolve concentration maxima.

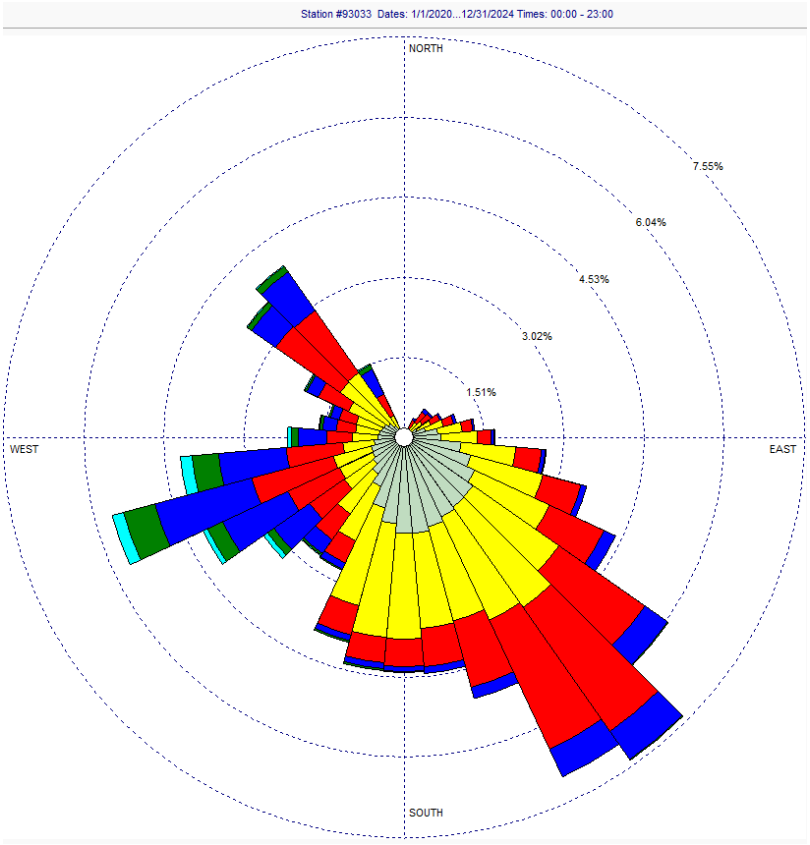
- **Far-Field Grid:** approximately 500-meter spacing extending to about 15 km, with discrete receptors added or retained as needed for the applicable significant-impact and cumulative analyses.
- **Class I Screening Receptors:** Two nominal facility-centered rings at 40 and 50 km, with 360 AERMAP-processed discrete receptors on each ring (720 total), are used for the final Class I significance screen.

4.5 Meteorological Data

In accordance with NMED AQB air-dispersion-modeling guidance and the Reveille modeling protocol, the meteorological dataset was selected based on representativeness for the Eddy County project area, including terrain, regional flow, and surface characteristics.

Five years (2020-2024) of sequential hourly meteorological data from the NMED-prepared Carlsbad dataset were used for the Reveille analysis. The AERMOD input identifies Carlsbad surface station WBAN 93033 and Midland, Texas upper-air station WBAN 23023, with a meteorological profile base elevation of 976 m. Figure 2 presents the corresponding Carlsbad 2020-2024 meteorological summary/wind rose.

Figure 2: Five-Year (2020-2024) Meteorological Summary for Carlsbad, New Mexico



5.0 NAAQS/NMAAQS Air Quality Impact Assessment Methodology

5.1 Class II Modeling Analyses

In accordance with the U.S. EPA *Guideline on Air Quality Models* (40 CFR Part 51, Appendix W) and New Mexico Environment Department (NMED) Air Quality Bureau modeling guidelines, air dispersion modeling was performed using a multi-tiered approach to demonstrate compliance with all applicable National Ambient Air Quality Standards (NAAQS), New Mexico Ambient Air Quality Standards (NMAAQS), and Prevention of Significant Deterioration (PSD) Class II Increments.

Phase 1: Preliminary Analysis (Significant Impact Level Demonstration)

The modeling evaluation begins with a facility-only Significant Impact Level (SIL) analysis to determine whether modeled emissions from the Reveille Compressor Station produce ambient concentrations at or above the applicable significance thresholds.

- **Emission Inventory:** Modeled source parameters and emission rates represented the maximum allowable potential-to-emit (PTE) or proposed maximum operational capacity for all project-impacted emission units (See Tables 1a and 1b).

- **Receptor Network:** A multi-tier nested receptor grid was deployed, anchored by a high-density 25-meter fenceline spacing and extending outward to capture maximum ground-level impacts across all surrounding terrain elevations (see Section 4.4).

- **Evaluation Criteria:** Maximum modeled facility-only concentrations for each criteria pollutant and averaging period were compared directly against U.S. EPA and NMED Class II SIL thresholds.

If the maximum facility-only concentration for a given pollutant and averaging time remained below its corresponding SIL across all modeled receptors, offsite impacts were deemed

insignificant, concluding the compliance demonstration for that specific pollutant and averaging period. Pollutants exceeding Class II SILs defined a Radius of Impact (ROI) and advanced to a cumulative Full Impact Analysis.

Phase 2: Radius of Impact (ROI) & Cumulative Full Impact Analysis

For any pollutant and averaging time where the facility-only predicted concentration equaled or exceeded the applicable SIL, a full Cumulative Impact Analysis (CIA) was required. Pursuant to Section 7.1 of the *NMED Air Quality Bureau Air Dispersion Modeling Guidelines*, a Radius of Impact (ROI) analysis was conducted using facility-only modeling results.

- Radius of Impact (ROI): The ROI was established by measuring the maximum distance from the center of the facility to the furthest receptor where modeled impacts exceeded the applicable Significant Impact Level (SIL). The resulting ROI distance was established for each pollutant and averaging time. Representative Reveille ROI and receptor-selection exhibits for the $PM_{2.5}$ and NO_2 analyses are provided in Appendix C (Exhibits C-1 through C-5).

- Receptor Domain: For the Cumulative Impact Analysis (CIA), the receptor grid was defined as the complete area circumscribed by the ROI around the facility. All receptors within this ROI boundary were retained for the multi-source modeling run to evaluate total ambient concentrations against the NMAAQS and NAAQS.

- Offsite Permitted Sources and $PM_{2.5}$ Source Isolation: For pollutant/averaging-period combinations that exceed the SIL, offsite permitted sources are included using the NMED-provided NAAQS or PSD source-group designations, as applicable. When a monitored particulate background is used, NMED treats the monitor as representing the regional contribution of more distant sources; therefore, explicitly modeling distant sources can double count the same regional contribution. For $PM_{2.5}$ NAAQS modeling, the current NMED procedure retains applicable NAAQS-group sources

within 10 km of Reveille and discards sources beyond 10 km. Both the annual and 24-hour $PM_{2.5}$ refined cumulative runs implement this screen and each include 893 total modeled sources: 17 Reveille sources and 876 retained offsite sources. The final 24-hour $PM_{2.5}$ AERMOD design value is 19.32071 µg/m³ with monitored background included; adding the project-specific secondary $PM_{2.5}$ contribution of 0.00397 µg/m³ gives a final design concentration of 19.325 µg/m³, below the 35 µg/m³ NAAQS.

- Ambient Background Concentrations and Refined NO_2 Background Procedure: Pollutant-specific background is applied only where representative monitored background is appropriate. For the 1-hour NO_2 NAAQS analysis, Reveille uses a refined hourly background profile rather than adding a single constant concentration after modeling. The AERMOD control pathway uses BACKGRND HOURLY and a 43,848-hour background file aligned hour-for-hour with the 2020-2024 Carlsbad meteorological period. AERMOD combines each hourly background value with the corresponding modeled facility concentration before calculating the five-year 98th-percentile (high-eighth-high) design concentration at each receptor. The final NO_2 1-hour ALL design value is 176.455 µg/m³. Table 4 also identifies the 58.3 µg/m³ Eastern New Mexico 98th-percentile value as the monitoring-basis reference. $PM_{2.5}$ uses 16.7 µg/m³ for 24-hour and 6.6 µg/m³ for annual background; PM_{10} uses 37.3 µg/m³ for 24-hour. SO_2 uses no monitored background in the Pecos-Permian Basin; surrounding sources are modeled explicitly.

Phase 3: Full Cumulative NAAQS Compliance Analysis

For each Reveille pollutant and averaging period that exceeds its Class II SIL, a refined cumulative analysis is performed consistent with NMED AQB modeling guidance and EPA Appendix W. The completed refined NAAQS/NMAAQS results are presented in Tables 5a and 5b. Source-group definitions, background treatment, and secondary $PM_{2.5}$ contributions are applied by pollutant as described below.

- Cumulative NO_2 Concentration (1-hour refined background procedure):

  The 1-hour NO_2 design concentration is calculated in AERMOD by pairing each modeled hour with the corresponding hourly monitored-background value and then calculating the five-year 98th-percentile design value. The annual NO_2 analysis uses the modeled annual concentration plus the annual background specified in the final input.

- Cumulative Particulate ($PM_{2.5}$ / PM_{10}) Concentration:

  Total Predicted [$PM_{2.5}$; PM_{10}] Design Concentration = Modeled Direct Impact [Facility + retained Offsite Sources] + Representative Ambient Background + Applicable Secondary $PM_{2.5}$ Contribution (for $PM_{2.5}$)

Design Concentrations and Regulatory Metrics: AERMOD output statistics were selected to match the form of each applicable ambient standard and PSD increment:

- NO_2 1-hour NAAQS: five-year average of the 98th-percentile (8th-highest) daily maximum 1-hour concentration at each receptor; SO_2 1-hour NAAQS: five-year average 99th-percentile (4th-highest) daily maximum 1-hour concentration.
- NO_2 annual NAAQS/NMAAQS and $PM_{2.5}$ annual NAAQS: annual mean concentration averaged across the five meteorological years, consistent with the applicable AERMOD design-value processing.
  - $PM_{2.5}$ 24-hour NAAQS: five-year average of the 98th-percentile (8th-highest) 24-hour concentration at each receptor.

- PSD Class II annual increments: annual average of increment-consuming facility and retained offsite-source impacts, with applicable secondary $PM_{2.5}$ added for $PM_{2.5}$.
- PM_{10} 24-hour NAAQS: maximum 6th-highest 24-hour concentration over the five-year period. PSD Class II 3-hour and 24-hour increments: high-second-high concentration for the applicable averaging period.

Demonstration of Compliance: Compliance with the NAAQS is demonstrated if the Total Predicted Design Concentration (modeled impacts plus representative background) does not exceed the National Ambient Air Quality Standard at any receptor within the modeling domain. PSD Class II Increment Procedure: For increment analyses, the model uses increment-consuming Reveille emissions together with applicable NMED PSD-group surrounding sources. Monitored ambient background is not added to PSD increment results. SO_2 3-hour and 24-hour increments are evaluated using the high-second-high statistic and SO_2 annual using the annual average. $PM_{2.5}$ and PM_{10} increment statistics are applied as summarized in Tables 6a and 6b; secondary $PM_{2.5}$ is added where applicable.

5.2 Class I Significance Modeling Analyses

Carlsbad Caverns National Park is the nearest mandatory federal PSD Class I area to Reveille and is less than 50 km from the Facility. Public NMED permit-application materials for Reveille contain two project-specific distance references: Section 16-B lists Carlsbad Caverns National Park at 38.20 km, while the embedded 2023 air-dispersion modeling protocol identifies the nearest Class I area at 43.47 km. Both references place the Class I area within 50 km. In its June 30, 2026 response accepting the Reveille modeling protocol, NMED specifically requested Class I area modeling because the Class I area is less than 50 km away.

To provide a conservative screen around the reported Class I distance range without relying on a single point-to-point distance, the final project-specific Class I significance screen uses nominal facility-centered receptor rings at 40 km and 50 km. The network contains 360 discrete receptors on each ring (720 total) and samples all azimuths at both distances. It is a screening surrogate for

facility-only far-field impacts and is not represented as an exact Carlsbad Caverns National Park boundary receptor grid.

Maximum facility-only concentrations across the combined 40-km and 50-km network are compared with the applicable Class I PSD SILs. The annual NO_2 Class I screen uses full NO_x-to-NO_2 conversion. Results are summarized in Table 7 and Appendix D.

6.0 Summary of Results

6.1 Significance Impact Analyses

As discussed in Section 5.1, Class II significance analyses were conducted to determine the need for further pollutant modeling. Modeled facility source parameters and emission rates are provided in Tables 1a and 1b. Table 3 presents the controlling facility-only significance results. CO remains below the applicable SILs. NO_2 1-hour and annual, SO_2 1-hour and 24-hour, $PM_{2.5}$ 24-hour and annual, and PM_{10} 24-hour and annual exceed the applicable SILs and therefore advance to the corresponding refined analyses. Digitized significance-model files are identified in Appendix E.

Table 3: Model Results for Significance Impact Analyses

Pollutant	Averaging Time	NAAQS / Statistical Basis	Facility-Only Modeled Conc. (ug/m^3)	Class II SIL (ug/m^3)	Exceeds SIL?	Radius of Impact (km)
CO	1-hour	Not to be exceeded > once per year	276.323	2,000	No	-
CO	8-hour	Not to be exceeded > once per year	226.204	500	No	-
NO_2	1-hour	98th percentile, averaged over 5 years	130.621	7.5	Yes	15.0+
NO_2	Annual	Annual mean, averaged over 5 years	9.862	1.0	Yes	See App. C
SO_2	1-hour	99th percentile, averaged over 5 years	11.341	7.8	Yes	0.163
SO_2	3-hour	High-second-high	11.405	25	No	-
SO_2	24-hour	High-second-high	6.776	5.0	Yes	0.132
SO_2	Annual	Annual mean, averaged over 5 years	0.605	1.0	No	-
$PM_{2.5}$	24-hour	98th percentile, averaged over 5 years	1.990	1.2	Yes	0.294*
$PM_{2.5}$	Annual	Annual mean, averaged over 5 years	0.588	0.13	Yes	0.294*
PM_{10}	24-hour	6th-highest over 5 years	8.559	5.0	Yes	0.184
PM_{10}	Annual	Annual mean, averaged over 5 years	3.262	1.0	Yes	0.154

*The $PM_{2.5}$ refined receptor file used for the current annual analysis extends to approximately 0.294 km from the modeled facility center; the same 124-receptor refined set is used in the current $PM_{2.5}$ cumulative package. NO_2 1-hour impacts remain above the SIL at the outer 15-km grid extent.

The completed significance runs show that CO 1-hour and 8-hour impacts are below their SILs. NO_2 1-hour (130.621 µg/m³), NO_2 annual (9.862 µg/m³), SO_2 1-hour (11.341 µg/m³), SO_2 24-hour (6.776 µg/m³), $PM_{2.5}$ 24-hour (1.990 µg/m³), $PM_{2.5}$ annual (0.588 µg/m³), and PM_{10} 24-hour (8.559 µg/m³), and PM_{10} annual (3.262 µg/m³) exceed their respective SILs and were carried forward to refined NAAQS/NMAAQS and/or Class II increment modeling.

6.2 Cumulative and Increment NAAQS Analyses

Cumulative modeling is required for the Reveille pollutant/averaging-period combinations that exceed their SILs. For $PM_{2.5}$ with monitored background, the current NMED particulate source-isolation procedure retains applicable offsite NAAQS sources within 10 km to avoid double counting regional source contributions already represented by the monitor. The annual and 24-hour $PM_{2.5}$ cumulative runs both implement this 10-km screen, with 893 total modeled sources (17 Reveille sources and 876 retained offsite sources). The final 24-hour $PM_{2.5}$ design concentration, including 0.00397 µg/m³ of project-specific secondary formation, is 19.325 µg/m³, below the 35 µg/m³ NAAQS.

Table 4 summarizes the background concentrations and background bases used for Reveille. The NO_2 1-hour run uses the refined 43,848-hour background profile described in Section 5.1; 58.3 µg/m³ is retained in Table 4 as the NMED Eastern New Mexico 98th-percentile monitoring-basis reference. The annual NO_2 run uses 9.3 µg/m³ as specified in the project input. $PM_{2.5}$ uses 16.7 µg/m³ (24-hour) and 6.6 µg/m³ (annual), and PM_{10} uses 37.3 µg/m³ (24-hour). SO_2 has no representative monitored background for the Pecos-Permian Basin and is evaluated using surrounding-source modeling.

Table 4: Summary of Ambient Background Concentrations

Pollutant	Averaging Period	Monitoring / Background Basis	Value (µg/m³)	Rationale
NO_2	1-Hour	Hobbs-Jefferson / refined hourly AERMOD profile	58.3 (reference)	NMED Eastern NM 98th-percentile reference; final AERMOD uses 43,848-hour BACKGRND HOURLY profile
NO_2	Annual	Carlsbad / Reveille protocol input	9.3	Annual background used in final Reveille annual NO_2 input
$PM_{2.5}$	24-Hour	NMED Eastern NM / Hobbs-Jefferson	16.7	3-year 98th-percentile 24-hour background
$PM_{2.5}$	Annual	NMED Eastern NM / Hobbs-Jefferson	6.6	3-year annual-average background
PM_{10}	24-Hour	NMED Eastern NM / Hobbs-Jefferson	37.3	3-year second-highest 24-hour background
PM_{10}	Annual	NMED Eastern NM / Hobbs-Jefferson	24.0	Annual monitoring background basis

Tables 5a and 5b summarize the completed ambient-standard demonstrations. NO_2 1-hour (176.455 µg/m³) and annual (20.319 µg/m³), SO_2 1-hour (24.416 µg/m³), $PM_{2.5}$ 24-hour (19.325 µg/m³ including 0.00397 µg/m³ secondary formation), $PM_{2.5}$ annual (7.918 µg/m³ including 0.000661 µg/m³ secondary formation), and PM_{10} 24-hour (52.542 µg/m³) are below their applicable standards. The final $PM_{2.5}$ 24-hour result is based on the NMED 10-km source-isolation run with 893 total modeled sources. Table 5a summarizes cumulative NAAQS/NMAAQS predicted concentrations. Table 5b summarizes applicable ambient standards and statistical basis.

Table 5a: Cumulative NAAQS/NMAAQS Predicted Concentrations

Pollutant	Averaging Time	Background (ug/m^3)	Facility + Background (ug/m^3)	Facility + Offsite + Background (ug/m^3)	Exceeds?
NO_2	1-hour	Hourly profile (58.3 reference)	176.455	-	No
NO_2	Annual	9.3	20.319	-	No
SO_2	1-hour	N/A	11.342	24.416	No
$PM_{2.5}$	24-hour	16.7	18.694*	19.325*	No
$PM_{2.5}$	Annual	6.6	7.189*	7.918*	No
PM_{10}	24-hour	37.3	45.866	52.542	No

Table 5b: Applicable Ambient Standards and Statistical Basis

Pollutant	Averaging Time	NAAQS / Statistical Basis	Federal NAAQS (ug/m^3)	NM NMAAQS (ug/m^3)
NO_2	1-hour	98th percentile, averaged over 5 years	188	-
NO_2	Annual	Annual mean, averaged over 5 years	100	94.02
SO_2	1-hour	99th percentile, averaged over 5 years	196.4	-
$PM_{2.5}$	24-hour	98th percentile, averaged over 5 years	35	-
$PM_{2.5}$	Annual	Annual mean, averaged over 5 years	9.0	-
PM_{10}	24-hour	6th-highest over 5 years	150	-

*$PM_{2.5}$ totals include project-specific secondary formation: 0.00397 ug/m^3 (24-hour) and 0.000661 ug/m^3 (annual). The 24-hour $PM_{2.5}$ cumulative result shown here is from the NMED 10-km source-isolation run with 893 total modeled sources (17 Reveille sources and 876 retained offsite sources).

Tables 6a and 6b summarize the completed Reveille Class II PSD increment analyses. The NO_2 annual result (19.656 µg/m³), SO_2 3-hour, 24-hour, and annual results, $PM_{2.5}$ 24-hour and annual results, and PM_{10} 24-hour and annual results are below the applicable Class II increments. Table 6a summarizes gaseous Class II PSD increment results.

Table 6a: Gaseous Class II PSD Increment Results

Pollutant	Averaging Time	Class II Increment / Statistical Basis	Facility-Only Modeled Conc. (ug/m^3)	Facility + Offsite Increment Conc. (ug/m^3)	Class II PSD Increment (ug/m^3)	Exceeds?
NO_2	1-hour	N/A	N/A	N/A	N/A	N/A
NO_2	Annual	Annual mean, averaged over 5 years	11.007	19.656	25	No
SO_2	3-hour	High-second-high	11.405	22.107	512	No
SO_2	24-hour	High-second-high	6.776	7.253	91	No
SO_2	Annual	Annual mean, averaged over 5 years	0.605	1.002	20	No

PSD increment comparisons do not include monitored ambient background; background is 0 for applicable increment comparisons. Table 6b summarizes particulate Class II PSD increment results.

Table 6b: Particulate Class II PSD Increment Results

Pollutant	Averaging Time	Class II Increment / Statistical Basis	Facility + Offsite Increment Conc. (ug/m^3)	Class II PSD Increment (ug/m^3)	Exceeds?
$PM_{2.5}$	24-hour	High-second-high	5.774*	9	No
$PM_{2.5}$	Annual	Annual mean, averaged over 5 years	2.456*	4	No
PM_{10}	24-hour	High-second-high	16.314	30	No
PM_{10}	Annual	Annual mean, averaged over 5 years	6.438	17	No

*$PM_{2.5}$ increment values include the applicable project-specific secondary $PM_{2.5}$ contribution.

All digitized AERMOD model input and output files for the Cumulative NAAQS and Class II PSD Increment Analyses are identified in Appendix E and are available upon request.

6.3 Class I Significance Analyses

For Reveille, the final Class I significance analysis uses the combined nominal 40-km and 50-km facility-centered rings described in Sections 4.4 and 5.2 and Appendix D. For each pollutant/averaging period, the maximum facility-only concentration across all 720 receptors is compared with the applicable Class I SIL.

The completed dual-ring results are below the applicable Class I SILs for all modeled pollutant/averaging-period combinations. Table 7 reports the final maxima. The least-margin result is NO_2 annual at 0.02915 µg/m³ (29.15 percent of the 0.1 µg/m³ SIL); the next-highest relative result is SO_2 24-hour at 0.03136 µg/m³ (15.68 percent of the 0.2 µg/m³ SIL). All controlling maxima occur on the nominal 40-km ring. No Class I SIL exceedance is identified by this screen. Because the 40-km and 50-km rings are a screening surrogate rather than an exact park-boundary grid, the conclusion is limited to this dual-ring screening construct.

Table 7: Model Results of Class I Significance Analyses

Pollutant	Averaging Time	Max. Facility-Only Conc. Across 40-/50-km Rings (µg/m³)	Class I SIL (µg/m³)	Exceeds SIL?
NO_2	Annual	0.02915	0.1	No
SO_2	3-hour	0.14049	1.0	No
	24-hour	0.03136	0.2	No
	Annual	0.00161	0.1	No
$PM_{2.5}$	24-hour	0.00308	0.27	No
	Annual	0.00016	0.05	No
PM_{10}	24-hour	0.00417	0.3	No
	Annual	0.00019	0.2	No

7.0 Conclusions

This final report documents the completed Reveille modeling configuration and compliance demonstrations. All ambient-standard, Class II PSD increment, and Class I significance screening results presented in Tables 3 through 7 pass their applicable comparison levels. The

final NO_2 annual Class II PSD increment result is 19.656 µg/m³, below the 25 µg/m³ increment. The final 24-hour $PM_{2.5}$ cumulative NAAQS analysis applies the NMED 10-km source-isolation screen and includes 893 total modeled sources; the resulting design concentration is 19.325 µg/m³ including project-specific secondary formation, below the 35 µg/m³ 24-hour NAAQS. The final Class I screen uses nominal 40-km and 50-km rings; all Class I maxima are below the applicable SILs, with the controlling maxima on the nominal 40-km ring. No additional criteria-pollutant AERMOD runs are indicated by the results under the current project-specific scope; any boundary-specific Class I refinement requested by NMED or the Federal Land Manager would be addressed separately. All digitized AERMOD model input and output files for the Class I Significance Analyses are identified in Appendix E and are available upon request.

8.0 References

New Mexico Environment Department (NMED), 2025. *Air Quality Bureau 2025 Annual Network Review.* July 1, 2025. Santa Fe, NM.

New Mexico Environment Department (NMED), 2024. Air Dispersion Modeling Guidelines, Air Quality Bureau, July 11, 2024.

U.S. Environmental Protection Agency, 2025. *Guideline on Air Quality Models*. 40 CFR Part 51, Appendix W. U.S. Environmental Protection Agency. Revised January 2025.

U.S. Environmental Protection Agency, 2024. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. Publication No. EPA-454/B-24-001. Office of Air Quality Planning and Standards, Air Quality Assessment Division, Research Triangle Park, NC.

Reveille Modeling Protocol for NAAQS/NMAAQS Analysis, Reveille Compressor Station (AI #40948), May 19, 2026, and associated NMED protocol correspondence.

New Mexico Environment Department (NMED), 2026. Email correspondence from Sufi A. Mustafa, Manager, Air Dispersion Modeling and Emission Inventory Section, June 30, 2026, accepting the Reveille modeling protocol and directing Class I area modeling because the Class I area is less than 50 km from the Facility.

New Mexico Environment Department (NMED), 2023. Delaware G&P, LLC, Reveille Compressor Station, Air Quality Permit Application No. 9896M1, Section 16-B and embedded Air Dispersion Modeling Protocol; Section 16-B reports 38.20 km, while Protocol Section 2.6 reports 43.47 km.

National Park Service (NPS), 2025. Carlsbad Caverns National Park Air Quality; identifies the park as a Clean Air Act Class I air quality area.

Reveille AERMOD model input/output files, including the current significance, NAAQS/NMAAQS, Class II PSD increment, and Class I screening run packages identified in Appendix E.

Appendix A: Reveille Enclosed Combustion Device and Modeled Source Parameters

The modeled parameters for ECD1 and ECD2, together with the other Reveille sources, are provided in Tables 1a and 1b. The final digitized AERMOD source definitions, AERMAP elevations, and building-downwash inputs are included with the model files identified in Appendix E.

Appendix B: Reveille Background Concentration Basis

For the 1-hour NO_2 NAAQS analysis, 58.3 µg/m³ is the current NMED Eastern New Mexico 98th-percentile monitoring-basis reference for the Hobbs-Jefferson monitor; however, the final Reveille AERMOD run does not add 58.3 µg/m³ as a constant. Instead, the control pathway uses BACKGRND HOURLY and the file REVEILLE_NO_2_CARLSBAD_BACKGROUND_FIXED.DAT. The file contains 43,848 hourly background records aligned with the 2020-2024 meteorological period. AERMOD pairs the hourly modeled concentration and hourly background before calculating the five-year 98th-percentile 1-hour design value. $PM_{2.5}$ background values used in the current report are 16.7 µg/m³ (24-hour) and 6.6 µg/m³ (annual).

Appendix C: Refined ROI and Class II Receptor Selection Exhibits

Appendix C contains the final refined receptor-selection figures used to document the Class II modeling approach. Exhibit C-1 shows the $PM_{2.5}$ annual first-high contours and initial receptor selection; Exhibit C-2 shows the $PM_{2.5}$ annual ROI; Exhibit C-3 shows the $PM_{2.5}$ 24-hour first-high contours and ROI; Exhibit C-4 presents the final $PM_{2.5}$ Class II increment contour displays; and Exhibit C-5 presents the NO_2 annual refined receptor and ROI display used for the Class II PSD run.

Exhibit C-1: $PM_{2.5}$ Annual First-High Contours and Initial Class II Receptor Selection

This figure is presented as an example of the modeling procedure.

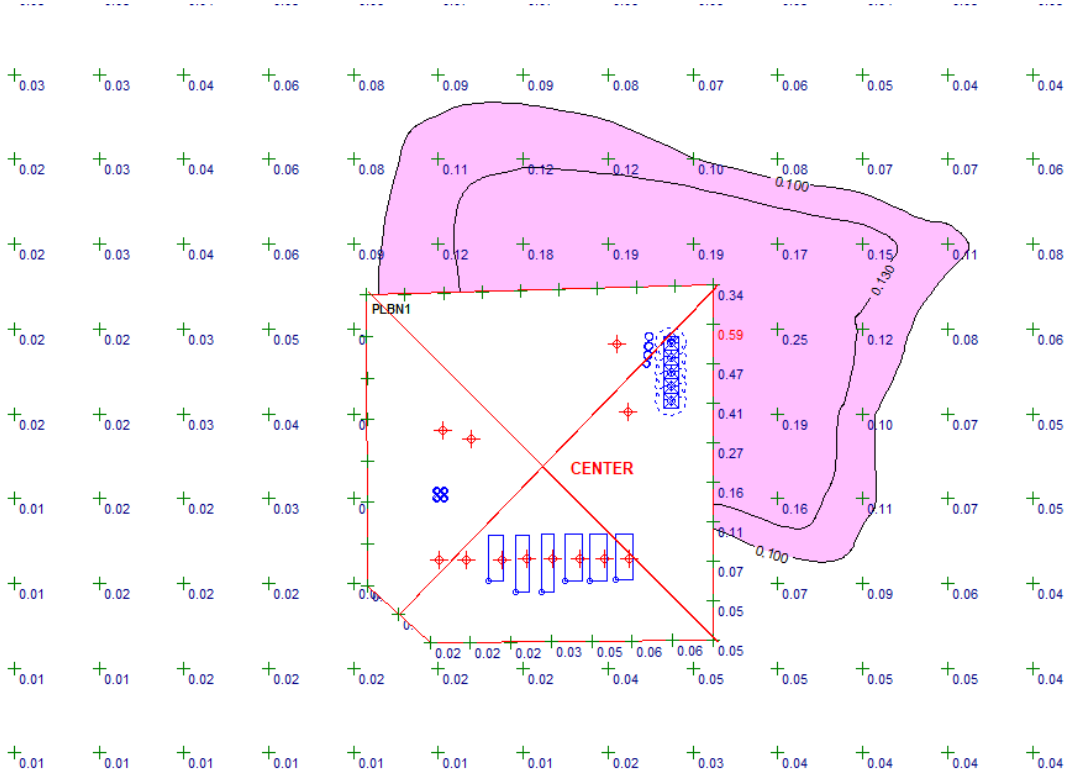


Exhibit C-2: $PM_{2.5}$ Annual ROI Used for Class II Receptor Selection

This figure is presented as an example of the modeling procedure.

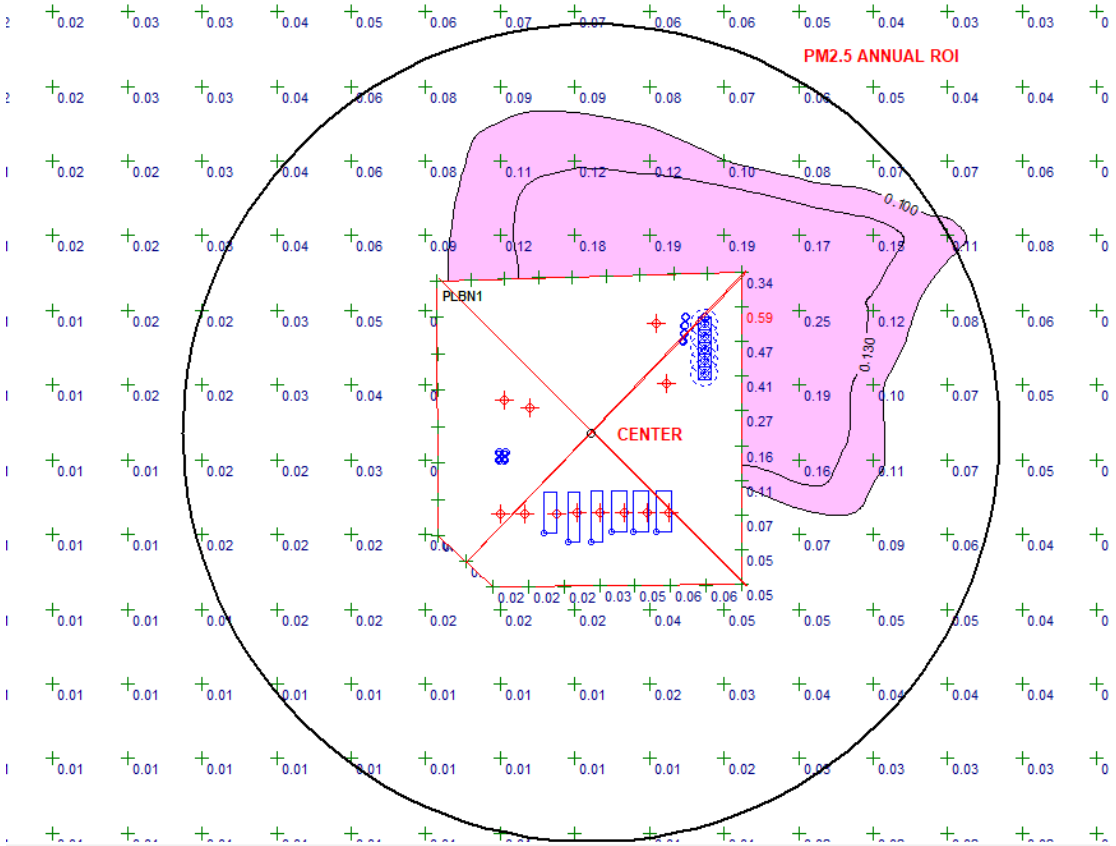


Exhibit C-3: $PM_{2.5}$ 24-Hour First-High Contours and ROI Used for Class II Receptor Selection

This figure is presented as an example of the modeling procedure.

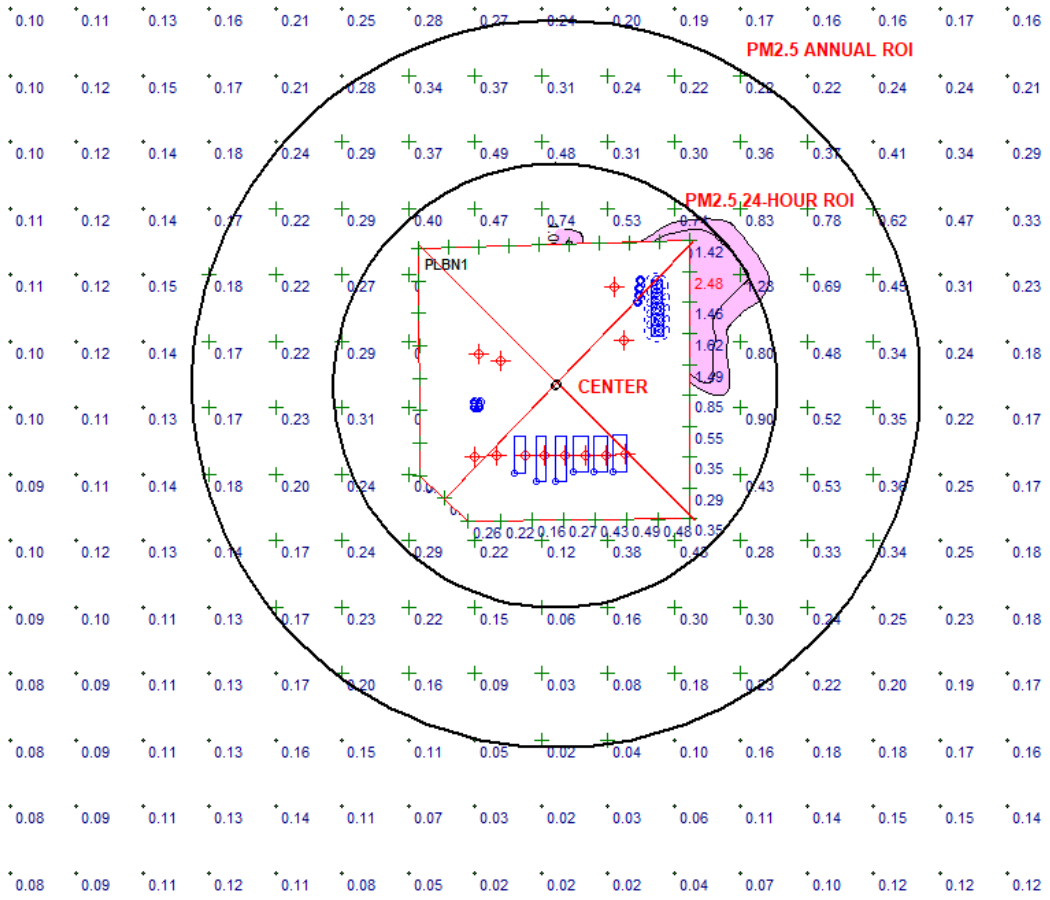
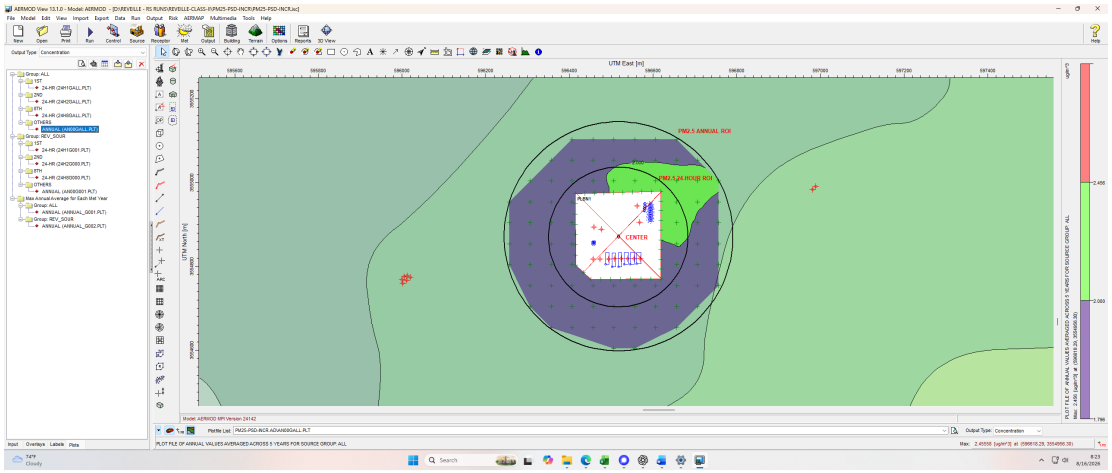


Exhibit C-4: $PM_{2.5}$ Class II Increment Contours - Annual and 24-Hour Second-High

These figures are presented as examples of the modeling procedure.



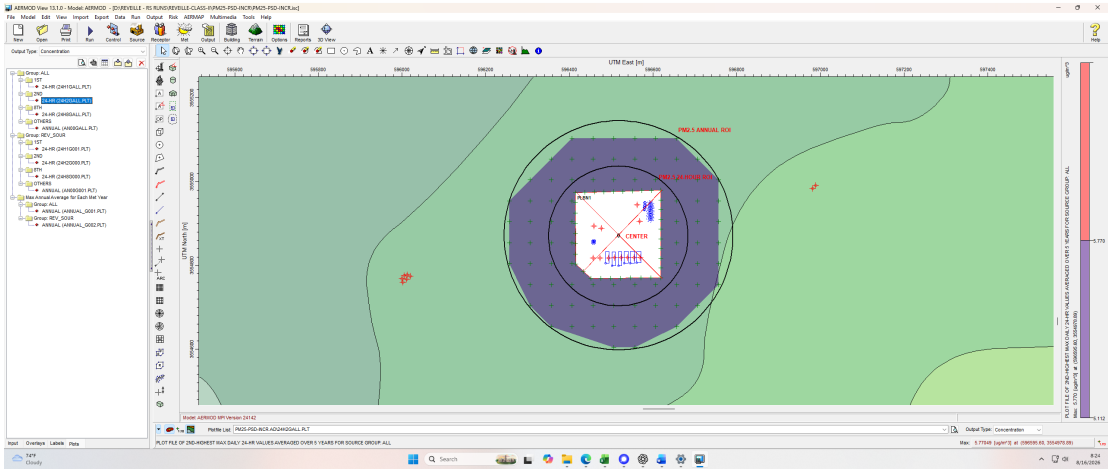
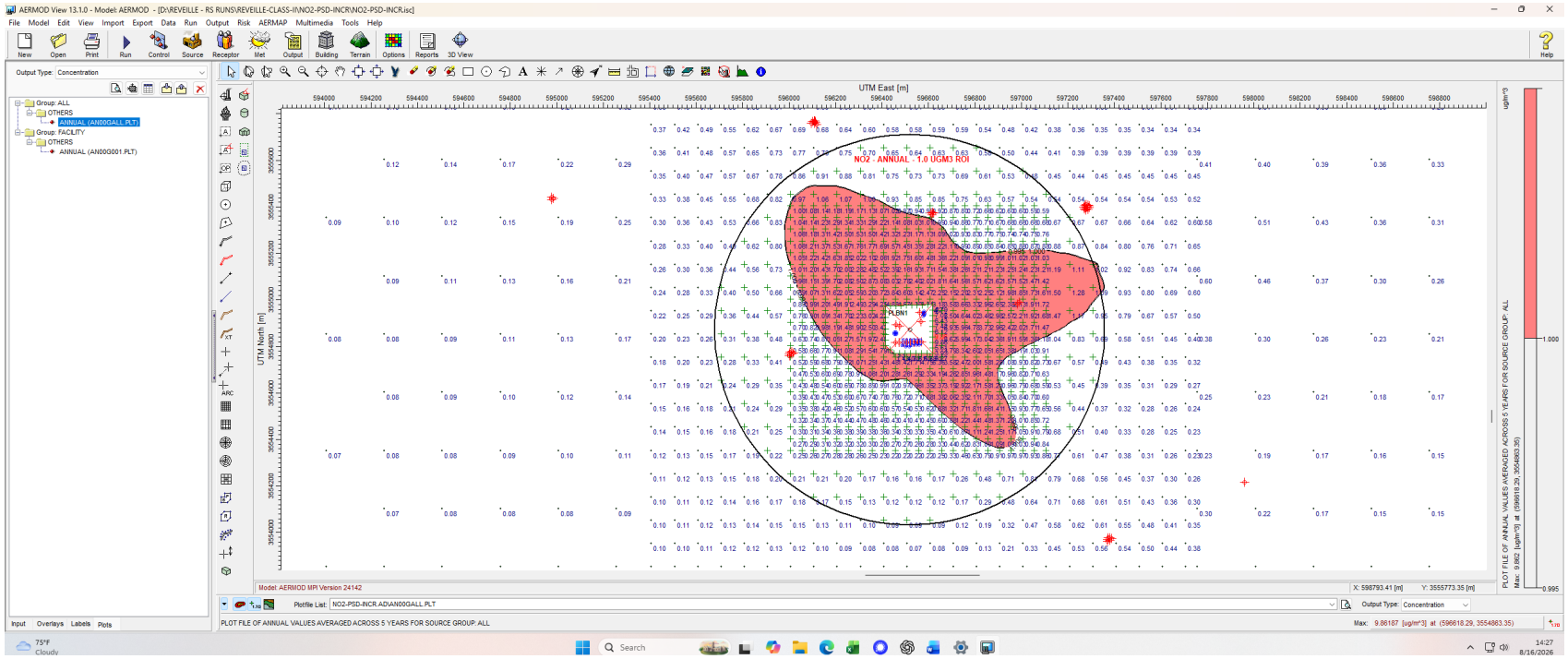


Exhibit C-5: NO_2 Annual Refined Receptor and ROI Display for the Class II PSD Run

This is an example of the procedure used in this modeling assessment.



Appendix D: Class I Significance Screening Summary

The final Reveille Class I significance analysis uses nominal facility-centered receptor rings at 40 km and 50 km, with 360 discrete receptors on each ring (720 total), as described in Sections 4.4 and 5.2. The maximum facility-only concentration across the combined network is compared with the applicable Class I SIL for each pollutant and averaging period. The final maxima for NO_2, SO_2, $PM_{2.5}$, and PM_{10} are reported in Table 7 and are all below their applicable Class I SILs; all controlling maxima occur on the nominal 40-km ring. The dual-ring network is a project-specific screening surrogate and is not represented as an exact Carlsbad Caverns National Park boundary grid.

Appendix E: Digitized AERMOD Model Input/Output Files

Available upon request. The final electronic modeling record is organized as follows: (1) Significance Impact Analyses — REVEILLE-SIL-MODEL-FILES; (2) Cumulative NAAQS/NMAAQS Analyses — REVEILLE-NAAQS-MODEL-FILES, including the final PM25-24HR-NAAQS-10KM and SO_2-1HR-NAAQS run packages; (3) Class II PSD Increment Analyses — REVEILLE-CLASS-II; and (4) Class I Significance Analyses — REVEILLE-CLASS-I.

Appendix F. Reveille Modeling Inputs Provided by Resolute Compliance

The tables in this appendix reproduce the modeling inputs provided by Resolute Compliance in "Reveille Modeling Inputs 20260817." Values are presented as supplied by the client; final modeled coordinates and numerical precision are addressed in the Modeling Quality-Control Summary. Note that the GPS coordinates were adjusted slightly during ground truthing (by a few meters).

Emission Sources

Description	Unit Number	NO_x lb/hr	CO lb/hr	SO_2 lb/hr	PM_{10} lb/hr	$PM_{2.5}$ lb/hr	H_2S lb/hr	Height ft	Temp F	Velocity ft/s	Diam. ft	X Coordinate (m)	Y Coordinate (m)
Comp. Engine 1 - CAT G3612 A4	ENG-1	2.480	3.307	0.143	0.008	0.008	-	28	820	127.05	2	596572.24	3554818.65
Comp. Engine 2 - CAT G3612 A4	ENG-2	2.480	3.307	0.143	0.008	0.008	-	28	820	127.05	2	596557.57	3554818.51
Comp. Engine 3 - CAT G3612 A4	ENG-3	2.480	3.307	0.143	0.008	0.008	-	28	820	127.05	2	596542.11	3554818.36
Comp. Engine 4 - Wauk. 16V275GI	ENG-4	3.307	4.409	0.194	0.011	0.011	-	35	864	88.06	2.5	596525.86	3554818.2
Comp. Engine 5 - Wauk. 16V275GI	ENG-5	3.307	4.409	0.194	0.011	0.011	-	35	864	88.06	2.5	596509.09	3554818.05
Comp. Engine 6 - CAT G3612 A4	ENG-6	2.480	3.307	0.143	0.008	0.008	-	28	820	127.05	2	596493.9	3554817.90
Comp. Engine 7 - CAT G3616 A4 Gen 2	ENG-7	3.638	4.850	0.205	0.011	0.011	-	28	790	166.04	2	596472.67	3554817.7
Comp. Engine 8 - CAT G3616 A4 Gen 2	ENG-8	3.638	4.850	0.205	0.011	0.011	-	28	790	166.04	2	596456.69	3554817.55
Generator - Taylor TG400 21.9L	GEN-1*	0.452	1.056	0.024	0.043	0.043	-	10	1382	49.92	1	596561.35	3554944.8
Glycol Reboiler - 2.00 MMBtu/hr	RBL-1	0.196	0.165	0.011	0.015	0.015	-	9	1400	26.6	0.8	596475.93	3554888.87
Enclosed Combustion Device 1	ECD-1	1.072	2.140	1.71E-04	-	-	-	25	1400	2.58	4	596568.28	3554905.14
Enclosed Combustion Device 2	ECD-2	0.269	0.538	1.71E-04	-	-	-	25	1400	2.58	4	596459.11	3554893.94

*GEN-1 and GEN-2 will never operate at the same time, but both have the potential to operate 8,760 hours. The worst case emissions associated with GEN-1 are reported on the summary tables.

Haul Roads	HR-1	--	--	--	0.050	0.005	--	--	--	--	--	596610.57	3554949.58
												596610.99	3554905.55

Updated 8/17/2026
Updated July 2026

Buildings

Description	Unit Number	Height (ft)	Diamter (ft)	X Coordinate (m)	Y Coordinate (m)		
750-bbl Gunbarrel Separator	TK-407	35	12	596581.52	3554918.2	32° 7'35.46"N	103°58'33.38"W
1000-bbl Condensate Tank 1	TK-406A	30	15.5	596581.48	3554922.2	32° 7'35.59"N	103°58'33.38"W
1000-bbl Condensate Tank 2	TK-406B	30	15.5	596581.44	3554926.52	32° 7'35.73"N	103°58'33.38"W
1000-bbl Produced Water Tank	TK-406C	30	15.5	596581.41	3554929.9	32° 7'35.84"N	103°58'33.38"W
210-bbl Oil Tank	TK-405	15	10	596454.96	3554833.24	32° 7'32.74"N	103°58'38.84"W
210-bbl Oil Tank	TK-406	15	10	596458.63	3554833.27	32° 7'32.74"N	103°58'38.70"W
210-bbl Methanol Tank	TK-408	15	10	596458.67	3554829.88	32° 7'32.63"N	103°58'38.70"W
210-bbl Coolant Tank	TK-407	15	10	596455.00	3554829.85	32° 7'32.63"N	103°58'38.84"W

Fenceline Receptor

Description	X Coordinate (m)	Y Coordinate (m)		
Boundary Corner 1	596425.86	3554950.02	32° 7'36.45"N	103°58'40.18"W
Boundary Corner 2	596643.62	3554953.86	32° 7'36.49"N	103°58'32.28"W
Boundary Corner 3	596642.42	3554777.57	32° 7'30.77"N	103°58'32.33"W
Boundary Corner 4	596459.47	3554777.46	32° 7'30.77"N	103°58'38.89"W
Boundary Corner 5	596428.45	3554803.67	32° 7'31.59"N	103°58'40.08"W

Modeling Protocol for NAAQS/NMAAQS Analysis

Reveille Compressor Station (AI # 40948)

Eddy County, New Mexico

Prepared for:

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May 19, 2026

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1.0 Introduction and Facility Overview

The Reveille Compressor Station (Facility) is a natural gas gathering, compression, dehydration, and liquids-handling facility operated by ONEOK Delaware Gathering, LLC. The Facility supports the collection, compression, dehydration, and handling of natural gas and associated liquids. Condensate and produced water generated through station operations are collected and stored onsite and subsequently transported offsite by truck.

The Facility is located in Eddy County, New Mexico. The approximate site coordinate used for this protocol is 596,537 meters Easting and 3,554,866 meters Northing in Universal Transverse Mercator (UTM), WGS84, Zone 13. The supplied calculation workbook identifies a protocol-level site elevation of 3,037 feet above mean sea level. Source base elevations will be finalized through AERMAP terrain processing.

This protocol supports a New Source Review permitting action pursuant to 20.2.72.200.A NMAC. The modeling approach described below is intended to demonstrate that the permitted Facility configuration will comply with applicable ambient air quality standards and New Mexico Environment Department (NMED) Air Quality Bureau dispersion modeling requirements.

1.1 Project Scope and Proposed Modifications

The permitting action will evaluate the Reveille source inventory and associated allowable emission rates. The modeled onsite sources include the following equipment and activities:

- Eight (8) compressor engines, consisting of four Caterpillar G3612 A4 units, two Waukesha 16V275GL units, two Caterpillar G3616 A4 units;
- One (1) generator-engine operating scenario represented by GEN-1, a PSI 21.9L unit; GEN-1 and GEN-2 are identified as non-simultaneous in the modeling inputs;
- One (1) TEG glycol dehydration system (DEHY-1) and associated 2.0 MMBtu/hr glycol reboiler (RBL-1);
- Two (2) enclosed combustion devices, ECD-1 and ECD-2, used to control tank/loading vapors and dehydration-related vent streams;
- A tank battery consisting of one 750 bbl gunbarrel separator, two 1,000 bbl condensate tanks, one 1,000 bbl produced-water tank, and supporting 210 bbl oil, methanol, and coolant tanks.

Storage tanks, truck loading, fugitives, haul roads, and startup, shutdown, and maintenance sources are not represented as separate point-source dispersion modeling sources under this point-source protocol unless they are routed to an enclosed combustion device or otherwise required by NMED for the final modeling demonstration. Only the point sources listed in Table 1 are included in the protocol-level source inventory and applicability totals.

1.2 Modeling Requirements and Compliance Objectives

The primary objective of this modeling analysis is to demonstrate that the Facility will comply with all applicable air quality standards. The analysis will evaluate the National Ambient Air Quality Standards (NAAQS), New Mexico Ambient Air Quality Standards (NMAAQS), and PSD increment standards where applicable.

The analysis addresses the following pollutants and averaging times:

- Carbon Monoxide (CO) - 1-hour and 8-hour;
- Nitrogen Dioxide (NO_2) - 1-hour, 24-hour, and annual;
- Sulfur Dioxide (SO_2) - 1-hour, 3-hour, 24-hour, and annual;
- Fine Particulate ($PM_{2.5}$) - 24-hour and annual; and
- Particulate Matter (PM_{10}) - 24-hour and annual, including PSD increment where applicable.

2.0 Proposed Modeling

2.1 Model Selection and Application

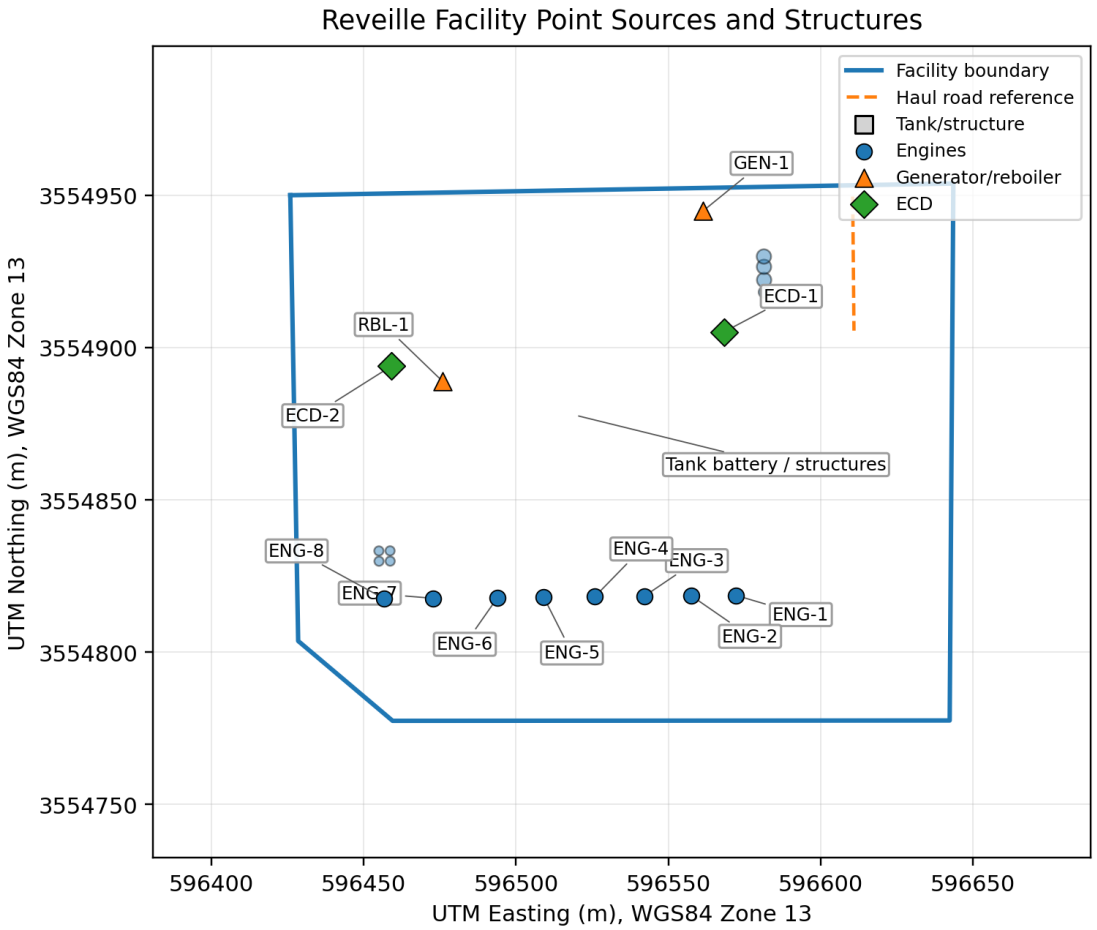
To evaluate potential air quality impacts from the Reveille Compressor Station, the AERMOD Modeling System, version 24142 or the latest NMED/EPA-approved regulatory version available at the time of the final analysis, will be utilized. AERMOD is the preferred regulatory model for assessing impacts within 50 kilometers of an emission source and is appropriate for this Facility.

AERMOD will be used to predict ground-level concentrations for CO, NO_2, SO_2, $PM_{2.5}$, and PM_{10} to demonstrate compliance with applicable NAAQS, NMAAQS, and PSD increment standards. Source grouping may be used to calculate project-only and cumulative impacts from modeled Facility sources and to support tiered significant impact and cumulative analyses.

2.2 Facility Source Emissions and Parameters

A geographical layout of the Reveille Compressor Station, including the facility boundary, modeled point sources, tank battery structures, and other onsite structures, is presented in Figure 1. The figure is a protocol-level schematic developed from the Reveille Modeling Inputs workbook and reviewed against the supplied plot plan; it is not intended to replace a surveyed plot plan.

Figure 1: Reveille Facility Point Sources and Buildings/Structures



Emission sources at the Facility will be characterized based on their physical release dynamics. Compressor engines, the generator, the reboiler, and the enclosed combustion devices will be modeled as point sources using source-specific stack parameters, including stack height, stack diameter, exhaust temperature, and exhaust velocity. Only point sources will be modeled under this protocol.

The source parameters and emission rates summarized in Table 1 are based on the Reveille Modeling Inputs workbook and the supporting Reveille emission calculation workbook. All modeled point sources are conservatively evaluated using the AERMOD-ready rates provided in the modeling input workbook. Only point sources are included in the source inventory table and in the modeling applicability totals.

Table 1: Summary of Reveille Point Sources and Emission Rates

Type	ID	Description	UTM-X (m)	UTM-Y (m)	Base Elev. (m)	Height (m)	Diam. (m)	Exit Vel. (m/s)	Exit Temp (K)	Release Type	CO (g/s)	NO_x (g/s)	PM_{10} (g/s)	$PM_{2.5}$ (g/s)	SO_2 (g/s)
POINT	ENG-1	Comp. Engine 1 - CAT G3612 A4	596,572.24	3,554,818.65	925.7	8.53	0.61	38.72	710.93	VERTICAL	0.4167	0.3125	0.0010	0.0010	0.0180
POINT	ENG-2	Comp. Engine 2 - CAT G3612 A4	596,557.57	3,554,818.51	925.7	8.53	0.61	38.72	710.93	VERTICAL	0.4167	0.3125	0.0010	0.0010	0.0180
POINT	ENG-3	Comp. Engine 3 - CAT G3612 A4	596,542.11	3,554,818.36	925.7	8.53	0.61	38.72	710.93	VERTICAL	0.4167	0.3125	0.0010	0.0010	0.0180
POINT	ENG-4	Comp. Engine 4 - Wauk. 16V275GL	596,525.86	3,554,818.20	925.7	10.67	0.76	26.84	735.37	VERTICAL	0.5556	0.4167	0.0013	0.0013	0.0244
POINT	ENG-5	Comp. Engine 5 - Wauk. 16V275GL	596,509.09	3,554,818.05	925.7	10.67	0.76	26.84	735.37	VERTICAL	0.5556	0.4167	0.0013	0.0013	0.0244
POINT	ENG-6	Comp. Engine 6 - CAT G3612 A4	596,493.90	3,554,817.90	925.7	8.53	0.61	38.72	710.93	VERTICAL	0.4167	0.3125	0.0010	0.0010	0.0180
POINT	ENG-7	Comp. Engine 7 - CAT G3616 A4	596,472.67	3,554,817.70	925.7	8.53	0.61	38.72	710.93	VERTICAL	0.6111	0.4583	0.0014	0.0014	0.0259
POINT	ENG-8	Comp. Engine 8 - CAT G3616 A4	596,456.69	3,554,817.55	925.7	8.53	0.61	38.72	710.93	VERTICAL	0.6111	0.4583	0.0014	0.0014	0.0259
POINT	GEN-1	Generator - PSI 21.9L	596,561.35	3,554,944.80	925.7	3.05	0.30	15.22	1,023.15	VERTICAL	0.1330	0.0570	0.0054	0.0054	0.0030
POINT	RBL-1	Glycol Reboiler	596,475.93	3,554,888.87	925.7	2.74	0.24	8.11	1,033.15	VERTICAL	0.0208	0.0247	0.0019	0.0019	0.0014
POINT	ECD-1	Enclosed Combustion Device 1	596,568.28	3,554,905.14	925.7	7.62	1.22	0.70	922.04	VERTICAL	0.0858	0.0430	0.0000	0.0000	0.0000
POINT	ECD-2	Enclosed Combustion Device 2	596,459.11	3,554,893.94	925.7	3.96	1.52	0.45	922.04	VERTICAL	0.1685	0.0844	0.0000	0.0000	0.0000

Note: Base elevations will be finalized through AERMAP processing. The preliminary base elevation shown above reflects the common site elevation of 925.7 meters (3,037 feet) from the supplied calculation workbook and is used only for protocol-level source summaries.

2.3 Modeling Applicability and Emission Thresholds

In accordance with the NMED Air Quality Bureau Modeling Guidelines, dispersion modeling or an approved modeling waiver is required for pollutants that do not qualify for the applicable very small emission rate criteria. Because the Reveille point-source inventory includes stacks lower than 20 feet, including the generator, glycol reboiler, and ECD-2, the conservative lower waiver criteria are used for protocol-level screening.

As shown in Table 2, modeled Facility point-source emissions exceed the applicable waiver criteria for CO, NO_2/NO_x, SO_2, PM_{10}, and $PM_{2.5}$. Consequently, all five criteria pollutants will be included in the air dispersion modeling analysis.

Table 2: Modeling Applicability Comparison

Pollutant	Facility Point-Source Peak (lb/hr)	Hourly Rate Annualized (tpy)	NMED Very Small Source Criterion Used (lb/hr)	Modeling Required?
CO	34.985	153.23	2.580	Yes
NO_2/NO_x	25.469	111.56	0.024	Yes
SO_2	1.405	6.15	0.023	Yes
$PM_{2.5}$	0.134	0.59	0.003	Yes
PM_{10}	0.134	0.59	0.015	Yes

Note: Annualized tons per year are calculated from the AERMOD input hourly rates for screening consistency. Permit allowable annual totals may differ because the emission calculation workbook applies source-specific operating limitations and other permit-note adjustments.

2.4 Treatment of NO_2 Chemical Transformation

In accordance with the Guideline on Air Quality Models, the Facility will use a tiered approach for NO_2 modeling. A Tier 1 analysis assumes 100 percent conversion of NO_x to NO_2; however, this approach is physically conservative and may over-predict ambient NO_2 concentrations. To provide a more representative assessment of air quality impacts, the Facility proposes to use the Ambient Ratio Method 2 (ARM2) as the primary Tier 2 regulatory option.

ARM2 provides a refined, non-linear estimate of NO_x-to-NO_2 conversion while retaining conservative regulatory limits. The model will be configured with the following national default ratios:

- Minimum NO_2/NO_x Ratio: 0.5; and
- Maximum NO_2/NO_x Ratio: 0.9.

2.5 Building Downwash and Aerodynamic Effects

Building downwash effects will be incorporated to account for the potential grounding of plumes caused by aerodynamic turbulence around onsite structures. Significant onsite structures, including compressor buildings or skids, tank battery structures, the gunbarrel separator, utility structures, and other plot-plan features, will be processed using BPIPPRM, version 04274 or the latest agency-approved version.

BPIPPRM will generate direction-specific building dimensions for AERMOD. The final BPIPPRM input file will be checked against the final plot plan and the modeling input workbook so that all structures with potential downwash relevance are represented.

2.6 Terrain Processing and Receptor Grid

Terrain processing will be performed with AERMAP, version 24142 or the latest agency-approved version. Base elevations for all sources and receptors, as well as critical hill height scales, will be determined using high-resolution elevation data from the USGS 3D Elevation Program, typically 1/3 arc-second or approximately 10-meter resolution.

The receptor grid will be centered on the Facility and will include receptor spacing that is finest at the fenceline and near-field area, transitioning to coarser spacing with distance from the source. The plant boundary coordinates currently provided in the modeling input workbook are used for protocol-level fenceline placement and will be confirmed against the final surveyed site boundary before final modeling.

- Fenceline and near-field receptors will be placed along the modeled facility boundary and in the near-source area using approximately 25-meter spacing at the fenceline and approximately 50-meter spacing extending outward as appropriate.
- Mid-field receptors will use approximately 100-meter spacing out to approximately 3 kilometers and approximately 250-meter spacing out to approximately 6 kilometers to capture elevated combustion-source plume impacts.
- Far-field receptors will extend to approximately 15 kilometers using approximately 500-meter spacing to verify compliance across the modeling domain. Additional receptors will be added as needed to refine maximum concentrations.

3.0 Meteorological Data Preparation

The dispersion modeling analysis will utilize five years of sequential meteorological data representative of the Reveille Compressor Station to characterize atmospheric transport and diffusion. For the Eddy County location, the modeling will use the NMED AQB-prepared Carlsbad, New Mexico surface meteorological data set for the latest NMED-approved five-year period available at the time of final modeling, currently expected to be 2020-2024, with concurrent upper-air data from the Midland, Texas NWS station or another NMED-approved upper-air source. The Carlsbad surface station is selected because it is the closest NMED-provided AERMOD-ready meteorological data set for the Eddy County project area and is representative of the terrain, land use, and regional meteorological conditions affecting the Reveille Compressor Station.

The latest available meteorological data will be downloaded from the NMED Air Quality Bureau modeling publications and meteorological data repository. The applicant requests the option to process the data using the latest regulatory AERMET version if the currently available NMED dataset has not been processed with that version. The analysis will incorporate the ADJ_U* beta option in Stage 3, where accepted by NMED, to improve model performance during stable, low wind-speed conditions while retaining regulatory conservatism.

3.1 Determination of Surface Characteristics via AERSURFACE

Surface parameters - albedo, Bowen ratio, and surface roughness - will be determined using AERSURFACE, version 24142 or the latest accepted version. These parameters are critical inputs for the planetary boundary layer calculations used by AERMOD.

Surface roughness will be calculated within a 1-kilometer radius centered on the representative surface station anemometer, with review for temporal consistency and changes in land cover over the five-year meteorological period. Albedo and Bowen ratio will be calculated over a larger 10-kilometer by 10-kilometer domain, with Bowen ratio adjusted seasonally based on precipitation data to characterize average, dry, or wet moisture regimes relative to climatological norms. Sectoring will be based on 12 equal 30-degree sectors unless an alternative sectoring scheme is justified by the land-use review.

4.0 Multi-Tiered Modeling Approach

4.1 Significant Impact Analysis (SIA) Tiering

The modeling will be conducted using a tiered approach to determine the required depth of analysis. Initially, a project-only Significant Impact Analysis will be performed for CO, NO_2, SO_2, $PM_{2.5}$, and PM_{10}, as applicable. The maximum predicted concentrations from the modeled Facility sources will be compared against EPA-recommended and New Mexico-recognized Significant Impact Levels (SILs).

Tier 1 (Screening): If the maximum project-only impact for a specific pollutant and averaging period is below the applicable SIL, the project will be considered to have a de minimis impact for that pollutant and averaging period, and no further cumulative modeling will be required for that pollutant and averaging period.

Tier 2 (Refined Cumulative Analysis): If project-only impacts exceed a SIL, a Significant Impact Area will be defined for each affected pollutant and averaging period. A cumulative NAAQS/NMAAQS and PSD increment analysis will then be performed within the relevant area using nearby offsite sources and representative ambient background concentrations.

Table 3: Federal and New Mexico Significant Impact Levels (SILs)

Pollutant	Averaging Time	Federal/NM SIL Value ($\mu g/m^3$)
CO	1-hour	2,000
CO	8-hour	500
NO_2	1-hour	7.52
NO_2	24-hour	5.0
NO_2	Annual	1.0
$PM_{2.5}$	24-hour	1.2
$PM_{2.5}$	Annual	0.13
PM_{10}	24-hour	5.0
PM_{10}	Annual	1.0
SO_2	1-hour	7.8
SO_2	3-hour	25.0
SO_2	24-hour	5.0
SO_2	Annual	1.0

Table 4: National and New Mexico Ambient Air Quality Standards (NAAQS & NMAAQS)

Pollutant	Averaging Time	Federal NAAQS ($\mu g/m^3$)	New Mexico NMAAQS ($\mu g/m^3$)	PSD Class II Increment ($\mu g/m^3$)	Form / Statistical Basis
CO	1-hour	40,069.6	14,997.5	--	Not to be exceeded more than once per year
CO	8-hour	10,303.6	9,960.1	--	Not to be exceeded more than once per year
NO_2	1-hour	188.03	--	--	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years
NO_2	24-hour	--	188.03	--	NMAAQS; surrogate compliance generally demonstrated by 1-hour NO_2 NAAQS
NO_2	Annual	99.66	94.02	25	Annual mean
$PM_{2.5}$	24-hour	35	--	9	98th percentile 24-hour concentration, averaged over 3 years; direct plus secondary formation where applicable
$PM_{2.5}$	Annual	9.0	--	4	Annual mean
PM_{10}	24-hour	150	--	30	Not to be exceeded more than once per year on average over 3 years
PM_{10}	Annual	--	--	17	PSD increment only
SO_2	1-hour	196.4	--	--	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years
SO_2	3-hour	1,309.3	--	512	Not to be exceeded more than once per year
SO_2	24-hour	--	261.9	91	NMAAQS/PSD increment
SO_2	Annual	--	52.4	20	Annual mean / PSD increment

The controlling standards and averaging periods will be modeled directly where required. Where NMED has historically accepted a surrogate approach, compliance with the controlling short-term standard may be used to demonstrate compliance with less restrictive surrogate standards, subject to agency concurrence.

Table 4a: Proposed Surrogate Demonstrations Where Applicable

Standard Not Modeled	Surrogate That Demonstrates Compliance
CO 8-hour NAAQS	CO 8-hour NMAAQS
CO 1-hour NAAQS	CO 1-hour NMAAQS
NO_2 annual NAAQS	NO_2 annual NMAAQS
NO_2 24-hour NMAAQS	NO_2 1-hour NAAQS
SO_2 annual NMAAQS	SO_2 1-hour NAAQS
SO_2 24-hour NMAAQS	SO_2 1-hour NAAQS
SO_2 3-hour NAAQS	SO_2 1-hour NAAQS

5.0 Background Air Quality Monitoring Site Selection and Analysis

For this analysis, data from the most recent three-year period of quality-assured monitoring will be used where available. The representative background monitoring basis for the Reveille Compressor Station is the Carlsbad-area NMED/EPA monitoring network, with the Carlsbad (Holland St.) monitor (AQS Site ID 35-015-1005) selected as the primary nitrogen dioxide background site.

Because the Facility is located in Eddy County and is representative of a southeastern New Mexico oil and gas production setting, the Carlsbad-area monitoring basis is more geographically representative than Hobbs-area monitoring for this project. The selected monitoring basis will be documented in the final report with the quality-assured years, completeness criteria, design-value calculations, and any temporally varying background arrays used for refined cumulative modeling.

Nitrogen dioxide monitoring data from the Carlsbad (Holland St.) monitoring site (AQS Site ID 35-015-1005) are selected for the NO_2 background demonstration because the monitor is located in Eddy County and is representative of the same southeastern New Mexico project setting as the Reveille Compressor Station.

For the 1-hour NO_2 NAAQS, the proposed background concentration is 65.8 $\mu g/m^3$. For annual NO_2, the proposed background concentration is 9.3 $\mu g/m^3$. The proposed $PM_{2.5}$ background concentrations are 16.5 $\mu g/m^3$ for 24-hour and 7.1 $\mu g/m^3$ annual. The proposed PM_{10} background concentrations are 37.3 $\mu g/m^3$ for 24-hour and 24.0 $\mu g/m^3$ annual.

Table 5: Summary of Proposed Background Concentrations

Pollutant	Averaging Period	Monitoring Source / Basis	Value ($\mu g/m^3$)	Rationale
NO_2	1-hour	Carlsbad (Holland St., AQS 35-015-1005)	65.8	2023-2025 quality-assured design-value basis from the selected Eddy County monitor; carried forward from current model inputs
NO_2	Annual	Carlsbad (Holland St., AQS 35-015-1005)	9.3	2023-2025 quality-assured annual-mean basis from the selected Eddy County monitor; carried forward from current model inputs
$PM_{2.5}$	24-hour	Reveille modeling workbook / Carlsbad-area monitoring basis	16.5	Current model input value retained as proposed protocol background; final report will document quality-assured monitor data and design-value basis
$PM_{2.5}$	Annual	Reveille modeling workbook / Carlsbad-area monitoring basis	7.1	Current model input value retained as proposed protocol background; final report will document quality-assured monitor data and design-value basis
PM_{10}	24-hour	Reveille modeling workbook / Carlsbad-area monitoring basis	37.3	Current model input value retained as proposed protocol background; final report will document quality-assured monitor data and design-value basis
PM_{10}	Annual	Reveille modeling workbook / Carlsbad-area monitoring basis	24.0	Current model input value retained as proposed protocol background; final report will document quality-assured monitor data and design-value basis

5.1 Proposed Background Values and Refinement Methodology

Should the initial cumulative analysis with the proposed background concentrations indicate potential exceedances, a refined background approach may be employed. This refinement could include temporally varying background arrays, such as month-by-hour or season-by-hour values, to more accurately reflect diurnal and seasonal patterns in background concentrations.

The applicant will submit a request for offsite source retrieval from the NMED Modeling Section. The request will include the Facility UTM coordinates and the pollutants of interest, including CO, NO_2, SO_2, $PM_{2.5}$, and PM_{10}. Offsite sources returned by NMED will be reviewed for inclusion in the cumulative analysis using the following screening procedures:

- For each offsite source, calculate the distance in kilometers from the center of the Reveille Compressor Station.
- Convert emission rates to tons per year where necessary, assuming continuous operation unless more representative operating information is available.
- Eliminate a source from the cumulative analysis if the emission rate in tons per year is less than 20 times the distance in kilometers, subject to NMED approval and pollutant-specific judgment.
- Review any source located in a potentially up-valley or otherwise influential direction before excluding it under the 20D screening test.
- Review source parameters for reasonableness, including exit velocity and exit temperature, and modify or flag sources for review where parameters are outside established criteria.
- Include buildings for offsite sources selected for cumulative modeling where those buildings are known and are likely to affect downwash.
-

6.0 Class I Areas Analysis

The nearest Class I area is Carlsbad Caverns National Park, located west-southwest of the Facility in Eddy County. A protocol-level straight-line estimate from the Facility center to the commonly mapped park location is approximately 45 kilometers; therefore, the final analysis should confirm the distance to the nearest Class I boundary and determine whether a Class I screening or significance evaluation is required.

If a Class I screening evaluation is required, special runs may be performed using receptors along the relevant Class I boundary or a conservative set of receptors at the requested distance to evaluate potential Class I impacts. The evaluation would be scoped with NMED and the Federal Land Manager before preparation of final modeling files.

7.0 Summary and Approval of Modeling Protocol

ONEOK Delaware Gathering, LLC provides this preliminary modeling protocol to facilitate collaborative review with NMED. The applicant requests NMED concurrence on the proposed methodology so that the subsequent modeling analysis meets regulatory expectations. To maintain the project schedule, the applicant respectfully requests a written response within 30 days. All modeling input and output files, meteorological and terrain processing data, and the final modeling report will be submitted to NMED as part of the permitting record.

8.0 References

New Mexico Environment Department (NMED), 2025. Air Quality Bureau 2025 Annual Network Review. July 1, 2025. Santa Fe, NM.

New Mexico Environment Department (NMED), 2024. Air Dispersion Modeling Guidelines. Air Quality Bureau. Revised July 11, 2024. Santa Fe, NM.

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U.S. Environmental Protection Agency, 2024. User's Guide for the AMS/EPA Regulatory Model (AERMOD). Publication No. EPA-454/B-24-001. Office of Air Quality Planning and Standards, Research Triangle Park, NC.

U.S. Environmental Protection Agency. Outdoor Air Quality Data: Monitor Values Report. https://www.epa.gov/outdoor-air-quality-data/monitor-values-report

Reveille Modeling Inputs 20260430.xlsx. emission and modeling input workbook.

Reveille_UA2_Tables_20260424.xlsx. emission calculation and application table workbook.

D-13843-PL-100 Reveille.pdf. Reveille Compressor Station Plot Plan, EnLink Midstream, Eddy County, New Mexico.

Appendix A: Enclosed Combustor Stack Parameters and Heat Input

The enclosed combustion devices are modeled using stack parameters from the Reveille modeling inputs and supporting emission calculations. The following values summarize the heat input and stack characteristics used for protocol-level documentation. Final ECD values will be reconciled against the vendor design package and final emission calculation package before model-file submittal.

Table A-1: Enclosed Combustor Stack Parameters and Heat Input

Unit	Controlled Stream	Waste Gas Heat Input (MMBtu/hr)	Pilot Heat Input (MMBtu/hr)	Total Heat Input (MMBtu/hr)	Stack Height (ft)	Stack Diameter (ft)	Exit Temp (F)	Exit Velocity (ft/s)
ECD-1	Condensate tanks, produced-water tank, gunbarrel, and condensate / produced-water loading vapors	2.440	0.031	2.470	25.0	4.0	1,200	2.31
ECD-2	DEHY-1 still vent / flash tank vapors	4.824	0.031	4.855	13.0	5.0	1,200	1.48

The enclosed combustor stack height, diameter, exit temperature, and velocity are carried forward into the AERMOD point-source input file. These parameters will be checked during final model input quality control against the final emission calculation package and vendor design information.

Appendix B: Proposed Background Concentration Inputs

Reveille Modeling Inputs 20260430.xlsx, Results Screen sheet. EPA Monitor Values Report and NMED monitoring documentation provide the basis for documenting the selected Carlsbad-area monitoring data, data completeness, and final design-value calculations in the modeling report.

Table B-1: Reveille Background Concentration Input Summary

Pollutant	Averaging Period	Background Value ($\mu g/m^3$)	Source in Supplied Files
NO_2	1-hour	65.8	Reveille Modeling Inputs 20260430.xlsx, Results Screen
NO_2	Annual	9.3	Reveille Modeling Inputs 20260430.xlsx, Results Screen
$PM_{2.5}$	24-hour	16.5	Reveille Modeling Inputs 20260430.xlsx, Results Screen
$PM_{2.5}$	Annual	7.1	Reveille Modeling Inputs 20260430.xlsx, Results Screen
PM_{10}	24-hour	37.3	Reveille Modeling Inputs 20260430.xlsx, Results Screen
PM_{10}	Annual	24.0	Reveille Modeling Inputs 20260430.xlsx, Results Screen

The background values shown above are the proposed protocol background concentrations for the Reveille modeling analysis. The final modeling report will identify the representative Carlsbad-area monitor(s), the three-year period used, completeness statistics, design-value calculations, and any temporal background arrays used for refined cumulative modeling.

From:	Mustafa, Sufi A., ENV
To:	Kayla Curtis
Cc:	Jeff Jackson; Green, Lance; Meyer, Ross; jim.farrell@oneok.com; Dennis Hlinka; David Sullivan; Ryan Sullivan
Subject:	RE: [EXTERNAL] Modeling Protocol: Reveille Compressor Station
Date:	Tuesday, June 30, 2026 6:24:37 PM
Attachments:	image002.png image003.png

Kayla

Modeling protocol is acceptable. I have few comments below.

When you do full facility modeling the first recommended step is to determine area of significant impact or significant receptors. You can further analyze these receptors and areas in cumulative analyses.

Since Class I area is less than 50 KM away, please perform Class I area modeling analyses also.

Thank you.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
sufi.mustafa@env.nm.gov
4359 Jager Drive NE,
Rio Rancho, New Mexico, 87144
https://www.env.nm.gov/air-quality/

"Innovation, Science, Collaboration, Compliance"

From: Kayla Curtis <kc@resolutecompliance.com>
Sent: Tuesday, May 19, 2026 3:21 PM
To: Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
Cc: Jeff Jackson <jj@resolutecompliance.com>; Green, Lance <lance.green@oneok.com>; Meyer, Ross <Ross.Meyer@oneok.com>; Dennis Hlinka <dhlinka@ix.netcom.com>; David Sullivan <sull_env@ix.netcom.com>; Ryan Sullivan <ryansullivanenvironmental@gmail.com>
Subject: [EXTERNAL] Modeling Protocol: Reveille Compressor Station

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon, Sufi!

The modeling protocol for the Reveille Compressor Station is attached for your review. Please let us know if there are any questions.

Thank you!

Kayla Curtis
Manager, Environmental Compliance

RESOLUTE COMPLIANCE, LLC
Purposeful Solutions. Unwavering Service.

1127 Judson Rd. Suite 233 | Longview, TX 75601
Office: 903.707.8632
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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
ENG-1	Initial test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/25/2024
ENG-2	Initial test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/26/2024
ENG-3	Initial test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	9/16/2024
ENG-4	Initial test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/23/2024
ENG-5	Initial test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/23/2024
ENG-6	Initial test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	5/16/2024
ENG-1	Test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/22/2025
ENG-2	Test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/23/2025
ENG-3	Test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	9/4/2025
ENG-4	Test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/22/2025
ENG-5	Test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/24/2025
ENG-6	Test in accordance with EPA test methods for VOC, NOx, and CO as required by NSPS JJJJ.	4/23/2025

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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**
ONEOK, Inc.		August 2026
Permittee/Company Contact	**Phone**	**Email**
Lance Green	(225) 692-6947	Lance.green@oneok.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. The facility is subject to the New Mexico New Owner Audit Program entered between the New Mexico Environmental Department and ONEOK, Inc. effective July 16, 2025. As a result, ONEOK disclosed several permitting deviations associated with the facility through New Owner Monthly Reports. Additionally, Notice of Violation EPCEB Air Case No. DGP-Multi-2501 was received on April 22, 2025 and alleges the failure to update the Facility's New Source Review permits 9897-M1 and 9896-M1.	

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Section 22: Certification

Company Name: ONEOK, Inc.

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

Signed this 1 day of SEPTEMBER 2026 upon my oath or affirmation, before a notary of the State of OKLAHOMA.

*Signature

9.1.2026
Date

SYPY THOMAS
Printed Name

SUP, OPERATIONS
Title

Scribed and sworn before me on this 1 day of SEPTEMBER, 2026

My authorization as a notary of the State of OKLAHOMA expires on the 17 day of MARCH, 2031.

Notary's Signature

9/1/2026
Date

JANET MCCARTY
Notary's Printed Name

JANET MCCARTY NOTARY # 26002751 EXP. 03/17/30 PUBLIC STATE OF OKLAHOMA

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