



ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

2929 N. Central Ave., Suite 1800

Phoenix, Arizona 85012

Tel: 602.274.3831

www.swca.com

October 7, 2026

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

Re: Application for Initial NSR Permit; Site Layer 1, LLC

Dear Permit Programs Manager:

On behalf of Site Layer 1, LLC, SWCA Environmental Consultants is submitting this initial NSR application for the Site Layer 1 facility proposed in Grant and Hidalgo Counties, New Mexico.

The format and contents of this application are consistent with the Bureau's current policy regarding NSR applications. It is a complete application package utilizing the most current application forms. Enclosed is one hard copy and one working copy of the application, including the original certification page and application check. Digital files will be sent once requested by the Bureau.

Please contact me by email at ellen.kraus@swca.com if you have any questions regarding this application. Alternatively, you can contact Ian Marcus of Site Layer 1, LLC at hello@graniterenewables.com.

Sincerely,

Ellen Kraus | Project Manager – Air Quality
ellen.kraus@swca.com

cc: Stephanie Blochowiak, SWCA
Travis McWhorter, SWCA
Blake Marcus, Site Layer 1, LLC

The logo for SWCA is positioned vertically on the left side of the page. It consists of the letters 'S', 'W', 'C', and 'A' in a large, stylized, light blue font. The letters are stacked vertically, with the 'S' at the bottom and the 'A' at the top. The background of the entire page is a solid blue color.

Site Layer 1 Data Center Project Grant County, New Mexico Initial NSR Application

OCTOBER 2026

PREPARED FOR
Site Layer 1, LLC

PREPARED BY
SWCA Environmental Consultants



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
Site Layer 1, LLC		October 2026
Permittee/Company Contact	Phone	Email
Ian Marcus	720-504-6239	hello@graniterenewables.com
Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:		
1	Knowingly misrepresented a material fact in an application for a permit?	☐ Yes ☒ No
2	Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act?	☐ Yes ☒ No
3	Been convicted of a felony related to environmental crime in any court of any state or the United States?	☐ Yes ☒ No
4	Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States?	☐ Yes ☒ No
5a	Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC?	☐ Yes ☒ No
5b	If "No" to question 5a, go to question 6. If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions: a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or b. The operator of the facility estimated that the facility's emissions would not require an air permit, and the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility.	☐ Yes ☐ No
6	Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States?	☐ Yes ☒ No
7	For each "yes" answer, please provide an explanation and documentation.	

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

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.: 010138 in the amount of \$500
- ☒ 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

Section 1-A: Company Information		AI # if known: TBD	Permit/NOI #: TBD
1	Facility Name: Site Layer 1	Plant primary SIC Code (4 digits): 4911	
		Plant NAIC code (6 digits): 221112	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): The approximate location of this facility is 2.8 miles East of the intersection of NM-9 and NM-113/Muir Rd in Grant County.		
2	Plant Operator Company Name: Site Layer 1, LLC	Phone/Fax: (720) 504-6239	

a	Plant Operator Address: 126 E 56 th Street, 7 th Floor, New York, NY 10022	
b	Plant Operator's New Mexico Corporate ID or Tax ID: 33-3565362	
3	Plant Owner(s) name(s): Site Layer 1, LLC	Phone/Fax: (720) 504-6239
a	Plant Owner(s) Mailing Address(s): 126 E 56 th Street, 7 th Floor, New York, NY 10022	
4	Bill To (Company): Site Layer 1, LLC	Phone/Fax: (720) 504-6239
a	Mailing Address: 126 E 56 th Street, 7 th Floor, New York, NY 10022	E-mail: hello@graniterenewables.com
5	☒ Preparer: SWCA Environmental Consultants ☒ Consultant: Ellen Kraus	Phone/Fax: 716-308-6984
a	Mailing Address: 7770 Jefferson Street NE, Suite 410, Albuquerque, NM 87109	E-mail: ellen.kraus@swca.com
6	Plant Operator Contact: Site Layer 1, LLC	Phone/Fax: (720) 504-6239
a	Address: 126 E 56 th Street, 7 th Floor, New York, NY 10022	E-mail: hello@graniterenewables.com
7	Air Permit Contact: Ellen Kraus	Title: Project Manager – Air Quality
a	E-mail: ellen.kraus@swca.com	Phone/Fax: (458) 214-0483
b	Mailing Address: 7770 Jefferson Street NE, Suite 410, Albuquerque, NM 87109	
c	The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.	

Section 1-B: Current Facility Status

1.a	Has this facility already been constructed? ☐ Yes ☒ No	1.b If yes to question 1.a, is it currently operating in New Mexico? ☐ Yes ☐ No
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? ☐ Yes ☐ No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? ☐ Yes ☐ No
3	Is the facility currently shut down? ☐ Yes ☒ No	If yes, give month and year of shut down (MM/YY):
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-
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:
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: N/A	Daily: N/A	Annually: N/A
b	Proposed	Hourly: 2,528 MMBtu/hr	Daily: 60,678 MMBtu/day	Annually: 22,147,478 MMBtu/yr
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: N/A	Daily: N/A	Annually: N/A
b	Proposed	Hourly: 300 MW/hr	Daily: 7,200 MWh/d	Annually: 2,610,000 MWh/yr

Section 1-D: Facility Location Information

1	Latitude (decimal degrees): 31.980569	Longitude (decimal degrees): -108.511384	County: Grant	Elevation (ft): 4,540
2	UTM Zone: ☒ 12 or ☐ 13		Datum: ☒ NAD 83 ☐ WGS 84	
a	UTM E (in meters, to nearest 10 meters): 735,145		UTM N (in meters, to nearest 10 meters): 3,540,987	
3	Name and zip code of nearest New Mexico town: Playas, NM 88009			
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): Leave Hachita, New Mexico, 88040 and drive west on NM-9. Travel 11.8 miles and make a right hand turn to enter the facility at 31.973181, -108.470452, NM-9, Hachita, NM, 88040			
5	The facility is 4.9 (distance) miles northeast (direction) of Playas (nearest town).			
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: Municipalities: Playas, NM (4.9 miles); Windmill, NM (7.1 miles); Hachita, NM (11.8 miles); Indian Tribes: N/A Counties: Grant County, NM; Hidalgo County, NM;			
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:			
9	Name nearest Class I area: Chiricahua Wilderness [44.0 miles to the west]			
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 70.9 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: 6,600 m			
12	Method(s) used to delineate the Restricted Area: Continuous Fencing "Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.			
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? ☐ Yes ☒ No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.			
14	Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes If yes, what is the name and permit number (if known) of the other facility?			

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

1	Facility maximum operating ($\frac{\text{hours}}{\text{day}}$): 24	($\frac{\text{days}}{\text{week}}$): 7	($\frac{\text{weeks}}{\text{year}}$): 52	($\frac{\text{hours}}{\text{year}}$): 8,760
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$)? Start:		☐ AM ☐ PM	End: ☐ AM ☐ PM
3	Month and year of anticipated start of construction: Q1 2027			
4	Month and year of anticipated construction completion: Q3 2028			
5	Month and year of anticipated startup of new or modified facility: Q4 2028			
6	Will this facility operate at this site for more than one year? ☒ Yes ☐ No			

Section 1-F: Other Facility Information

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

Section 1-G: Streamline Application (This section applies to 20.2.72.300 NMAC Streamline applications only)

1	☐ I have filled out Section 18, "Addendum for Streamline Applications." ☒ N/A (This is not a Streamline application.)
---	--

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.) Ian Marcus (20.2.70.300.D.2 NMAC):		Phone: (720) 504-6239
a	R.O. Title: Authorized Signatory	R.O. e-mail: hello@graniterenewables.com	
b	R. O. Address: 126 E 56 th Street, 7 th Floor, New York, NY 10022		
2	Alternate Responsible Official N/A (20.2.70.300.D.2 NMAC):		Phone:
a	A. R.O. Title:	A. R.O. e-mail:	
b	A. R. O. Address:		
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.): Rock Layer, LLC		
a	Address of Parent Company: 126 E 56 th Street, 7 th Floor, New York, NY 10022		
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.): N/A		
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: Ian Marcus, (720) 504-6239		

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: States: Arizona (51 km) Local Pollution Control Programs: Arizona Department of Environmental Quality Tucson Regional Office (234 km) Indian Tribes and Pueblos: N/A
---	---

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: Ellen Kraus

Email: ellen.kraus@swca.com

Phone number 716-308-6984

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

- b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
- c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

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

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

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc.), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.
- 3) It is preferred that this application form be submitted as 4 electronic files (**3 MSWord docs**: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and **1 Excel file** of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.
- 4) The **electronic file names** shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the **core permit number** (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the **section #** (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the **header information** throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

Table of Contents

Section 1:	General Facility Information
Section 2:	Tables
Section 3:	Application Summary
Section 4:	Process Flow Sheet
Section 5:	Plot Plan Drawn to Scale
Section 6:	All Calculations
Section 7:	Information Used to Determine Emissions
Section 8:	Map(s)
Section 9:	Proof of Public Notice
Section 10:	Written Description of the Routine Operations of the Facility
Section 11:	Source Determination
Section 12:	PSD Applicability Determination for All Sources & Special Requirements for a PSD Application
Section 13:	Discussion Demonstrating Compliance with Each Applicable State & Federal Regulation
Section 14:	Operational Plan to Mitigate Emissions
Section 15:	Alternative Operating Scenarios
Section 16:	Air Dispersion Modeling

- Section 17: Compliance Test History**
- Section 18: Addendum for Streamline Applications (streamline applications only)**
- Section 19: Requirements for the Title V (20.2.70 NMAC) Program (Title V applications only)**
- Section 20: Other Relevant Information**
- Section 21: Addendum for Landfill Applications**
- Section 22: Certification Page**

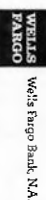
THE REDTHERMO SECURED "SP" LOGO IN THE LOWER CORNER OF THIS CHECK MUST REMAIN TEMPORARILY WHEN WARNED BY TOUCH OR FRICTION. SEE BACK FOR ADDITIONAL FEATURES.

SWCA, INC.
IMPREST ACCOUNT
5647 JEFFERSON ST NE
ALBUQUERQUE, NM 87109

DATE 10/6/2026 010138
11-24/1210

PAY TO THE ORDER OF New Mexico Environment Department \$ 500.00

Five hundred dollars + 0/100 DOLLARS



MEMO Air Quality Permit Application Fee

Madison T. ...



⑈010138⑈ ⑆121000248⑆ 4945026135⑈

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		Source Classification Code (SCC)	For Each Piece of Equipment, Check One			RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/Reconstruction ²	Emissions vented to Stack #		Existing (unchanged)	New/Additional	To Be Modified		
ENG01	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR1, OXCAT1	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG02	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR2, OXCAT2	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG03	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR3, OXCAT3	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG04	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR4, OXCAT4	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG05	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR5, OXCAT5	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG06	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR6, OXCAT6	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG07	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR7, OXCAT7	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG08	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR8, OXCAT8	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG09	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR9, OXCAT9	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG10	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR10, OXCAT10	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG11	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR11, OXCAT11	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG12	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR12, OXCAT12	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG13	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR13, OXCAT13	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG14	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR14, OXCAT14	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG15	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR15, OXCAT15	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A
ENG16	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR16, OXCAT16	2E+07	☐ Existing (unchanged)	☐ New/Additional	☐ To Be Modified	SI, 4SLB	N/A

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ² (Specify Units)	Requested Permitted Capacity ² (Specify Units)	Date of Manufacture ²	Controlled by Unit #		Source Classification Code (SCC)	For Each Piece of Equipment, Check One				RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
								Emissions vented to Stack #	Emissions vented to Stack #		☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		
ENG17	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR17, OXCAT17	ENG17	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG18	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR18, OXCAT18	ENG18	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG19	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR19, OXCAT19	ENG19	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG20	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR20, OXCAT20	ENG20	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG21	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR21, OXCAT21	ENG21	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG22	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR22, OXCAT22	ENG22	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG23	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR23, OXCAT23	ENG23	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG24	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR24, OXCAT24	ENG24	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG25	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR25, OXCAT25	ENG25	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG26	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR26, OXCAT26	ENG26	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG27	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR27, OXCAT27	ENG27	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG28	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR28, OXCAT28	ENG28	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG29	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR29, OXCAT29	ENG29	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG30	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR30, OXCAT30	ENG30	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG31	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR31, OXCAT31	ENG31	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	
ENG32	ICE	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD	SCR32, OXCAT32	ENG32	2E+07	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ To Be Removed ☐ Replacement Unit ☐ To Be Replaced		SI, 4SLB	N/A	

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²		Controlled by Unit #		Source Classification Code (SCC)	For Each Piece of Equipment, Check One				RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/ Reconstruction ²		Emissions vented to Stack #			☐ Existing (unchanged) ☒ New/Additional To Be Modified	☐ To be Removed Replacement Unit To be Replaced	☐	☐		
SSM1	ICE Startup, Shutdown and Maintenance	Wartsila	20V34SG	TBD	9.4 MW	9.4 MW	TBD		N/A		2E+07	☐	☐	☐	SI, 4SLB	N/A	
							TBD		N/A	☐		☐	☐	☐			

Table 2-B: Insignificant Activities¹ (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)		Date of Manufacture /Reconstruction ² Date of Installation /Construction ²	For Each Piece of Equipment, Check One
					Insignificant Activity citation (e.g. IA List Item #1.a)	Capacity Units		
TK-LO	Lube Oil Tank(s)	TBD	TBD	TBD	20.2.72.202.B.2	TBD	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
			TBD	TBD	N/A	TBD	☐ Existing (unchanged) ☒ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
TK-NH3	Ammonia Tank(s)	TBD	TBD	TBD	20.2.72.402.C.9	TBD	☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
			TBD	TBD	N/A	TBD	☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced
							☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ Removed ☐ Replacement Unit ☐ Replaced

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
SCR1	Selective Catalytic Reduction	TBD	NOx	ENG01	90%	EPA-reviewed permitting document for comparable engines (same manufacturer and model)
SCR2	Selective Catalytic Reduction	TBD	NOx	ENG02		
SCR3	Selective Catalytic Reduction	TBD	NOx	ENG03		
SCR4	Selective Catalytic Reduction	TBD	NOx	ENG04		
SCR5	Selective Catalytic Reduction	TBD	NOx	ENG05		
SCR6	Selective Catalytic Reduction	TBD	NOx	ENG06		
SCR7	Selective Catalytic Reduction	TBD	NOx	ENG07		
SCR8	Selective Catalytic Reduction	TBD	NOx	ENG08		
SCR9	Selective Catalytic Reduction	TBD	NOx	ENG09		
SCR10	Selective Catalytic Reduction	TBD	NOx	ENG10		
SCR11	Selective Catalytic Reduction	TBD	NOx	ENG11		
SCR12	Selective Catalytic Reduction	TBD	NOx	ENG12		
SCR13	Selective Catalytic Reduction	TBD	NOx	ENG13		
SCR14	Selective Catalytic Reduction	TBD	NOx	ENG14		
SCR15	Selective Catalytic Reduction	TBD	NOx	ENG15		
SCR16	Selective Catalytic Reduction	TBD	NOx	ENG16		
SCR17	Selective Catalytic Reduction	TBD	NOx	ENG17		
SCR18	Selective Catalytic Reduction	TBD	NOx	ENG18		
SCR19	Selective Catalytic Reduction	TBD	NOx	ENG19		
SCR20	Selective Catalytic Reduction	TBD	NOx	ENG20		
SCR21	Selective Catalytic Reduction	TBD	NOx	ENG21		
SCR22	Selective Catalytic Reduction	TBD	NOx	ENG22		
SCR23	Selective Catalytic Reduction	TBD	NOx	ENG23		
SCR24	Selective Catalytic Reduction	TBD	NOx	ENG24		
SCR25	Selective Catalytic Reduction	TBD	NOx	ENG25		
SCR26	Selective Catalytic Reduction	TBD	NOx	ENG26		
SCR27	Selective Catalytic Reduction	TBD	NOx	ENG27		
SCR28	Selective Catalytic Reduction	TBD	NOx	ENG28		
SCR29	Selective Catalytic Reduction	TBD	NOx	ENG29		

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
SCR30	Selective Catalytic Reduction	TBD	NOx	ENG30		
SCR31	Selective Catalytic Reduction	TBD	NOx	ENG31		
SCR32	Selective Catalytic Reduction	TBD	NOx	ENG32		
OXCAT1	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG01		
OXCAT2	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG02		
OXCAT3	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG03		
OXCAT4	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG04		
OXCAT5	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG05		
OXCAT6	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG06		
OXCAT7	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG07		
OXCAT8	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG08		
OXCAT9	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG09		
OXCAT10	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG10		
OXCAT11	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG11		
OXCAT12	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG12		
OXCAT13	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG13		
OXCAT14	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG14		
OXCAT15	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG15		
OXCAT16	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG16		
OXCAT17	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG17		
OXCAT18	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG18		
OXCAT19	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG19		
OXCAT20	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG20		
OXCAT21	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG21		
OXCAT22	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG22		
OXCAT23	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG23		
OXCAT24	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG24		
OXCAT25	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG25		
OXCAT26	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG26		
OXCAT27	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG27		
OXCAT28	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG28		
OXCAT29	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG29		
OXCAT30	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG30		

CO: 90%
VOC: 90%
Formaldehyde: 85%

Conservative
Manufacturer
Estimate

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
OXCAT31	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG31		
OXCAT32	Oxidation Catalyst	TBD	CO, VOC, Formaldehyde	ENG32		

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 2-4. 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 ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
ENG01	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG02	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG03	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG04	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG05	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG06	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG07	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG08	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG09	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG10	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG11	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG12	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG13	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG14	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG15	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG16	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG17	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG18	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG19	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG20	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG21	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG22	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG23	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG24	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG25	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG26	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG27	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG28	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG29	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG30	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG31	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG32	13.00	56.94	17.00	74.46	17.00	74.46	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
Totals	416.00	1822.08	544.00	2382.72	544.00	2382.72	7.36	32.2368	51.20	224.256	51.20	224.256	51.20	224.256	-	-	-	-

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 ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
ENG01	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG02	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG03	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG04	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG05	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG06	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG07	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG08	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG09	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG10	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG11	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG12	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG13	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG14	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG15	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG16	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG17	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG18	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG19	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG20	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG21	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG22	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG23	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG24	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG25	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG26	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG27	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG28	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG29	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG30	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG31	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
ENG32	1.30	5.69	1.70	7.45	1.70	7.45	0.23	1.01	1.60	7.01	1.60	7.01	1.60	7.01	-	-	-	-
Totals	41.60	182.21	54.40	238.27	54.40	238.27	7.36	32.24	51.20	224.26	51.20	224.26	51.20	224.26	-	-	-	-

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-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 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)			
ENG01	ENG01	V	No	90	741	1120	448	9	57.04	5.00
ENG02	ENG02	V	No	90	741	1120	448	9	57.04	5.00
ENG03	ENG03	V	No	90	741	1120	448	9	57.04	5.00
ENG04	ENG04	V	No	90	741	1120	448	9	57.04	5.00
ENG05	ENG05	V	No	90	741	1120	448	9	57.04	5.00
ENG06	ENG06	V	No	90	741	1120	448	9	57.04	5.00
ENG07	ENG07	V	No	90	741	1120	448	9	57.04	5.00
ENG08	ENG08	V	No	90	741	1120	448	9	57.04	5.00
ENG09	ENG09	V	No	90	741	1120	448	9	57.04	5.00
ENG10	ENG10	V	No	90	741	1120	448	9	57.04	5.00
ENG11	ENG11	V	No	90	741	1120	448	9	57.04	5.00
ENG12	ENG12	V	No	90	741	1120	448	9	57.04	5.00
ENG13	ENG13	V	No	90	741	1120	448	9	57.04	5.00
ENG14	ENG14	V	No	90	741	1120	448	9	57.04	5.00
ENG15	ENG15	V	No	90	741	1120	448	9	57.04	5.00
ENG16	ENG16	V	No	90	741	1120	448	9	57.04	5.00
ENG17	ENG17	V	No	90	741	1120	448	9	57.04	5.00
ENG18	ENG18	V	No	90	741	1120	448	9	57.04	5.00
ENG19	ENG19	V	No	90	741	1120	448	9	57.04	5.00
ENG20	ENG20	V	No	90	741	1120	448	9	57.04	5.00
ENG21	ENG21	V	No	90	741	1120	448	9	57.04	5.00
ENG22	ENG22	V	No	90	741	1120	448	9	57.04	5.00
ENG23	ENG23	V	No	90	741	1120	448	9	57.04	5.00
ENG24	ENG24	V	No	90	741	1120	448	9	57.04	5.00
ENG25	ENG25	V	No	90	741	1120	448	9	57.04	5.00

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation 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)			
ENG26	ENG26	V	No	90	741	1120	448	9	57.04	5.00
ENG27	ENG27	V	No	90	741	1120	448	9	57.04	5.00
ENG28	ENG28	V	No	90	741	1120	448	9	57.04	5.00
ENG29	ENG29	V	No	90	741	1120	448	9	57.04	5.00
ENG30	ENG30	V	No	90	741	1120	448	9	57.04	5.00
ENG31	ENG31	V	No	90	741	1120	448	9	57.04	5.00
ENG32	ENG32	V	No	90	741	1120	448	9	57.04	5.00

Table 2-1: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

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

Stack No.	Unit No.(s)	Total HAPs		Acetaldehyde		Acrolein		Formaldehyde		Hexane		Ammonia		Methanol		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
ENG01	ENG01	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG02	ENG02	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG03	ENG03	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG04	ENG04	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG05	ENG05	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG06	ENG06	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG07	ENG07	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG08	ENG08	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG09	ENG09	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG10	ENG10	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG11	ENG11	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG12	ENG12	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG13	ENG13	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG14	ENG14	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG15	ENG15	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG16	ENG16	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG17	ENG17	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG18	ENG18	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG19	ENG19	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG20	ENG20	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG21	ENG21	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG22	ENG22	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG23	ENG23	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG24	ENG24	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG25	ENG25	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG26	ENG26	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG27	ENG27	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG28	ENG28	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG29	ENG29	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		

Stack No.	Unit No.(s)	Total HAPs		Acetaldehyde		Acrolein		Formaldehyde		Hexane		Ammonia		Methanol		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
ENG30	ENG30	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG31	ENG31	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
ENG32	ENG32	0.3	1.3	0.1	0.4	0.06	0.3	0.13	0.6	0.01	0.04	1	4.4	0.03	0.1		
SSM1	SSM1	54.40	0.843	18.13	0.281	10.88	0.169	23.57	0.365	1.81	0.028	181.33	2.811	5.44	0.084		
Totals:		64.00	42.89	21.33	14.30	12.80	8.58	27.73	18.59	2.13	1.43	213.33	142.97	6.40	4.29		

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
ENG01	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG02	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG03	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG04	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG05	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG06	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG07	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG08	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG09	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG10	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG11	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG12	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG13	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG14	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG15	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG16	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG17	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG18	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%
ENG19	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/ 100 scf	0%

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
ENG20	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG21	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG22	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG23	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG24	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG25	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG26	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG27	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG28	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG29	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG30	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG31	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%
ENG32	Natural Gas	Pipeline Quality Natural Gas / Purchased Commercial	1,020 Btu/scf	77.45 Mscf/hr	673.9 MMscf/yr	0.25 gr S/100 scf	0%

Table 2-P: Greenhouse Gas Emissions

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

☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr ²											Total GHG Mass Basis ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWPs ¹	1	265	28	23,500	footnote 3												
ENG01	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG02	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG03	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG04	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG05	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG06	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG07	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG08	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG09	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG10	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG11	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG12	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG13	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG14	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG15	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG16	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG17	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG18	mass GHG	40337	0.08	0.76													40337.836	
	CO ₂ e	40337	20.14	21.28														40378.42
ENG19	mass GHG	40337	0.08	0.76													40337.836	

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.

Site Layer 1, LLC (Site Layer 1) is proposing to construct a data center powered by a natural gas-fired electrical power generation development (the "Project"), on private land in Hidalgo and Grant Counties, New Mexico. The project area associated with natural gas generation is 7,214.4 acres in total and wholly located in the Grant County parcel of the Project. The anticipated data center size is approximately 800 megawatts (MW), with on-site gas generation providing approximately 300 MW, and the Project is being designed for power resiliency and redundancy using multiple on-site power generation sources. Site Layer 1 conducted a pre-application meeting with New Mexico Environment Department (NMED) on December 17, 2025, to discuss permitting requirements and the proposed permitting approach.

This application is an initial New Source Review (NSR) application being submitted under 20.2.72.200.A(1) NMAC. The site will be a major source for Title V (20.2.70 NMAC). For Prevention of Significant Deterioration (PSD) applicability purposes, the Project is not a categorical source and the potential to emit (PTE) of regulated air pollutants is expected to be below PSD major source thresholds; therefore, PSD permitting is not anticipated to be required for the Project.

The proposed gas generation equipment would consist of thirty-two (32) Wärtsilä 20V34SG internal combustion engines (ICE) [ID: ENG01-ENG32], each rated at approximately 9.4 MW, fired exclusively on clean-burning, pipeline-quality natural gas. Each ICE will be equipped with selective catalytic reduction (SCR) and oxidation catalyst controls to minimize air emissions. Ancillary emission sources associated with the Project include an ammonia storage tank for the SCR control system, lube oil storage tanks for the engines, and minor fugitive emissions from ammonia and natural gas piping components. No other combustion or process emission sources are anticipated.

Start-up, shutdown and maintenance (SSM) emissions for the thirty-two (32) Wartsila 20V34SG ICEs are based on up to sixty (60) events per engine per year. Each event consists of one start-up and one shutdown. Each start-up and shutdown is assumed to last approximately thirty (30) minutes. Air pollution control systems, including the SCR and oxidation catalyst systems, are not fully operational during periods of start-up and shutdown because exhaust gas temperatures are not sufficient for the control devices to function at optimal efficiency. As a result, NO_x, CO, and VOC emissions may be elevated during SSM events. Emissions of PM, PM₁₀, PM_{2.5}, SO₂, H₂SO₄, HAPs, and GHG are not expected to be significantly elevated above steady-state rates during these periods.

The Project is not PSD major for any regulated NSR pollutant, as all project potential emissions are below the 250 tpy PSD major source threshold. However, the Project will result in emissions increases that exceed the PSD Significant Emission Rate (SER) thresholds for NO_x, CO, particulate matter (PM), particulate matter less than 10 microns (PM₁₀), particulate matter less than 2.5 microns (PM_{2.5}), VOC, and greenhouse gases (GHG). Sulfur oxides (SO_x) and sulfuric acid mist emissions are below applicable SER thresholds. Lead, hydrogen sulfide (H₂S), and total reduced sulfur compounds are not expected to be emitted by the project in appreciable quantities, as the majority of the fuel burning equipment will be fueled by pipeline quality natural gas. However, the Project will emit methanol (CH₄) and ammonia (NH₃), which are regulated as TAPs. The emission rate

screening level is not exceeded for the Project-wide CH₄ or NH₃ emissions after application of the correction factor. Therefore, TAP dispersion modeling for CH₄ and NH₃ is not required based on current design.

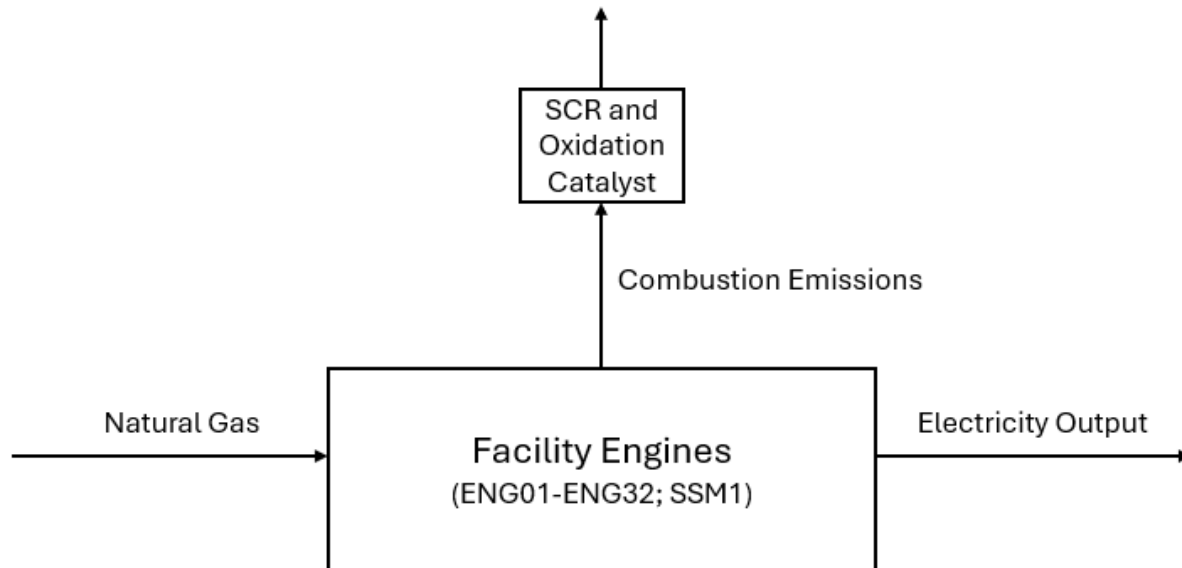
Section 4

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.

Site Layer 1 - Process Flow Diagram

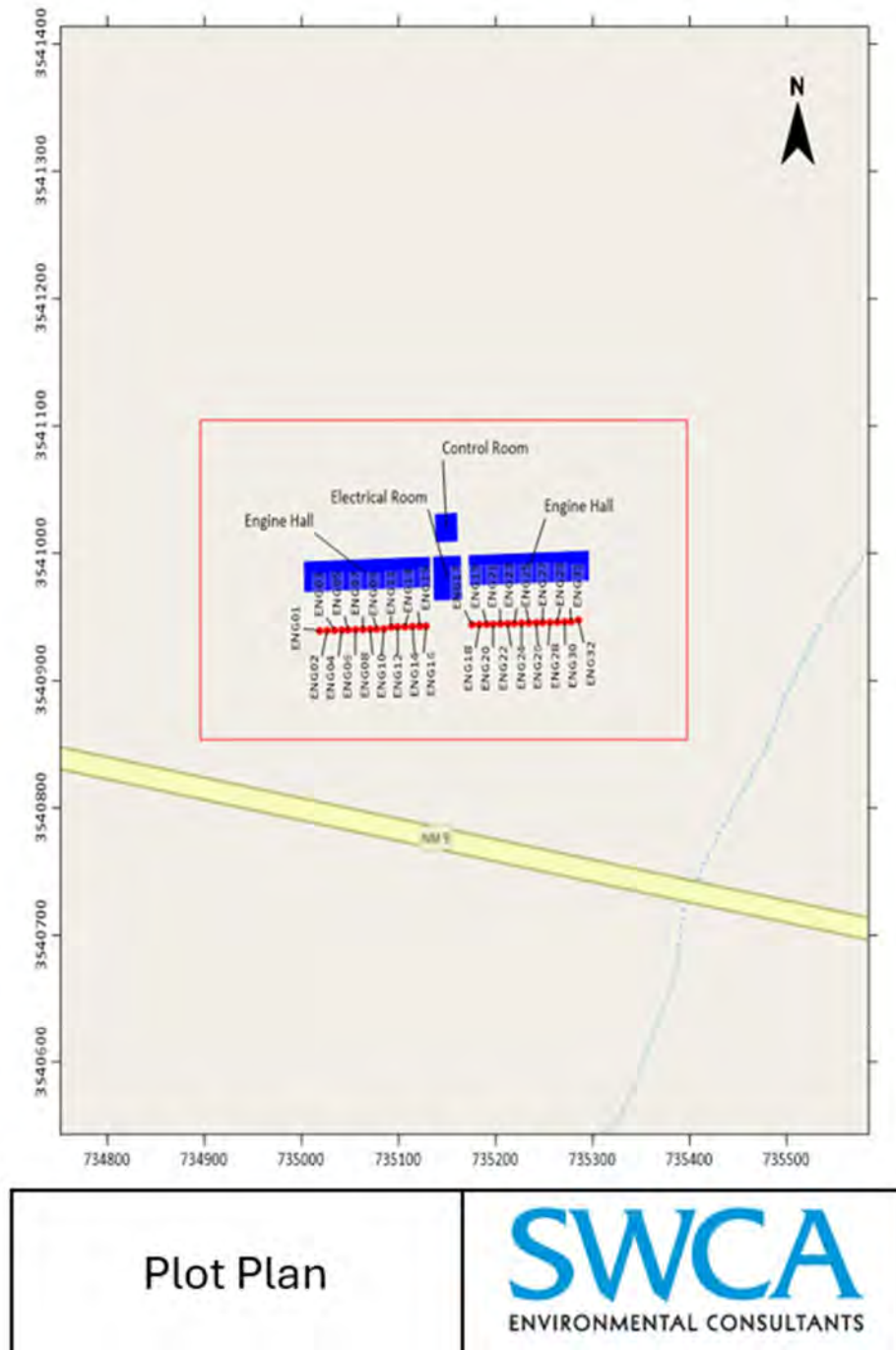
Site Layer 1, LLC



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.



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.

Emissions from thirty-two (32) Wartsila 20V34SG ICEs are dependent on engine load and operating conditions. Each engine is rated at approximately 9.37 MW, or a combined gross electrical output of approximately 300 MW. The engines will fire exclusively clean-burning, pipeline-quality natural gas and will be permitted to operate up to 8,760 hours per year.

Each engine has a gross heat rate of approximately 8,432 Btu/kWh and a maximum heat input of approximately 79.01 MMBtu per hour (MMBtu/hr). Potential emissions were calculated using manufacturer-provided emission data for steady-state operation at full load conditions, supplemented as necessary with emission factors from U.S. EPA AP-42 and other applicable regulatory guidance.

Each ICE will be equipped with selective catalytic reduction (SCR) systems for control of NO_x and oxidation catalysts for control of CO and VOC. Potential emissions reflect operation with these control technologies in place.

Start-up, shutdown and maintenance (SSM) emissions for the thirty-two (32) Wartsila 20V34SG ICEs are based on up to sixty (60) events per engine per year. Each event consists of one start-up and one shutdown. Each start-up and shutdown is assumed to last approximately thirty (30) minutes.

Air pollution control systems, including the SCR and oxidation catalyst systems, are not fully operational during periods of start-up and shutdown because exhaust gas temperatures are not sufficient for the control devices to function at optimal efficiency. As a result, NO_x, CO, and VOC emissions may be elevated during SSM events. Emissions of PM, PM₁₀, PM_{2.5}, SO₂, H₂SO₄, HAPs, and GHG are not expected to be significantly elevated above steady-state rates during these periods.

Site Layer 1 is a new facility and is subject to evaluation for HAP emissions to determine applicability of federal NESHAP requirements. Based on calculated potential emissions from the thirty-two (32) internal combustion engines, the Project's total HAP emissions and emissions of individual HAPs were evaluated in accordance with applicable regulatory thresholds. HAP emission calculations were developed using emission factors from AP-42, Chapter 3, Section 2 for natural gas-fired reciprocating engines, supplemented as appropriate with manufacturer-provided data.

The Project is located outside the designated SO₂ maintenance area in Grant County, New Mexico; therefore, PSD applicability was evaluated for all regulated NSR pollutants.

Site Layer 1, LLC
Facility Emission Calculations
Criteria Pollutant Emissions

Key Inputs

Engine Type	Wartsila 20V34SG
Number of Engines	32 units
Energy Output Per Engine	9.4 MW/unit
Total Energy Output	299.84 MW
Hours of Operation	8,729 hr/yr
Number of Starts/Stops, per engine	60 events/yr
Duration of Start Time	30 min
Duration of Shutdown	1 min
Hours of SSM, per engine	31 hr/yr
Gross Heat Rate, per engine	8,432 Btu/kWh
Heat Input, per engine	79.01 MMBtu/hr

Notes:

Based on available natural gas volume
Based on the Wartsila Technology Presentation - Gas Engine Specifications, max power output
Multiplies MW/unit by # units
Assumption, based on feedback from manufacturer
Assumption, based on feedback from manufacturer
Based on spec sheet, regular start time plus additional time for controls to be fully operational

Sums durations of start+stop, multiplies by event/yr
Net HHV from the Wartsila Technology Presentation - Gas Engine Specifications
Estimated Heat Input (MMBtu/hr) = Gross Heat Rate (Btu/kWh) * Gross Electric Output (MWe) * (1,000 kWe / 1 MWe) * (1 MMBtu/1,000,000 Btu)

Engine Emissions Summary and Permit Applicability

ID	NOx		VOC		CO		PM ₁₀		PM _{2.5}		SO ₂ ³		NH ₃		H ₂ SO ₄ ⁴		Single Highest HAP ⁵		Total HAPs	
	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	lb/hr	tpy
Engine - Normal Operation ¹	1.30	5.67	1.70	7.42	1.70	7.42	1.60	6.98	1.60	6.98	0.23	0.25	1	4.36	0.03	0.12	0.13	0.57	0.30	1.32
SSM ²	4.75	0.07	2.15	0.03	6.85	0.11	2.30	0.04	2.30	0.04	1.15	1.78E-02	1	1.55E-02	0.13	2.05E-03	0.87	1.34E-02	2.02	3.13E-02
TOTALS (ALL ENGINES)		183.92		238.50		240.83		224.60		224.60		8.68		140.16		3.79		19.59		43.34

Notes:

¹ Hourly engine emissions for NOx, CO, VOC (as CH₄), PM₁₀, PM_{2.5} and NH₃ are post-control values provided by Wartsila. Values assume using pipeline natural gas, ambient conditions according to ISO 3046, and the use of selective catalytic reduction system and an oxidation catalyst.
² Hourly MSS emissions for NOx, VOC, CO and PM₁₀ were provided by Wartsila in the document "Expected Startup and Unloading Emissions 20V34SG". MSS emissions represent emissions from 12 hours standby time (assumed warm start). Overall hourly emissions are calculated using 30 min startup emissions and 30 min of normal operating emissions. Other pollutant emissions were estimated from the Technical Review Document for Antelope Station (TCEQ Permit No. 91644) which uses the same Wartsila 20V34SG engines proposed in this project.
³ SO₂ emission factors was calculated by using AP-42 Chapter 3 Section 2 - Natural Gas-fired Reciprocating Engines Table 3.2-2 Uncontrolled Emission Factors for 4-Stroke Lean-Burn Engines. The factor was ratioed compared to the concentration used in Table 3.2-2. A basis of 1 gr/100 scf was used for hourly emissions and 0.25 gr/100 scf for the annual total.
⁴ H₂SO₄ emissions were calculated using the following formula: H₂SO₄ emissions = SO₂ emissions x 7.5% x (H₂SO₄ Molecular Weight / SO₂ Molecular Weight).
⁵ Speciated HAP emissions are detailed in table below. Single highest HAP is Formaldehyde.

Site Layer 1, LLC
Facility Emission Calculations
HAP and TAP Emissions

Single Unit Hazardous Air Pollutant and Toxic Air Pollutant Emissions

Hazardous Air Pollutant	Toxic Air Pollutant? (Y/N)	Emission Factor ¹ (lb/MMBtu)	Controlled Emissions ²			Facility PTE ⁴	
			lb/hr	lb/yr	tpy	tpy	lb/hr
1,1,2,2-Tetrachloroethane	NO	4.00E-05	4.74E-04	4.14E+00	2.07E-03	6.62E-02	
1,1,2-Trichloroethane	NO	3.18E-05	3.77E-04	3.29E+00	1.64E-03	5.26E-02	
1,3-Butadiene	NO	2.67E-04	3.16E-03	2.76E+01	1.38E-02	4.42E-01	
1,3-Dichloropropene	NO	2.64E-05	3.13E-04	2.73E+00	1.37E-03	4.37E-02	
2-Methylnaphthalene	NO	3.32E-05	3.93E-04	3.43E+00	1.72E-03	5.50E-02	
2,2,4-Trimethylpentane	NO	2.50E-04	2.96E-03	2.59E+01	1.29E-02	4.14E-01	
Acenaphthene	NO	1.25E-06	1.48E-05	1.29E-01	6.47E-05	2.07E-03	
Acenaphthylene	NO	5.53E-06	6.55E-05	5.72E-01	2.86E-04	9.15E-03	
Acetaldehyde	NO	8.36E-03	0.10	8.65E+02	0.43	13.84	3.17
Acrolein	NO	5.14E-03	0.06	5.32E+02	0.27	8.51	1.95
Benzene	NO	4.40E-04	5.21E-03	4.55E+01	2.28E-02	7.28E-01	
Benzo(b)fluoranthene	NO	1.66E-07	1.97E-06	1.72E-02	8.59E-06	2.75E-04	
Benzo(e)pyrene	NO	4.15E-07	4.92E-06	4.29E-02	2.15E-05	6.87E-04	
Benzo(g,h,i)perylene	NO	4.14E-07	4.91E-06	4.28E-02	2.14E-05	6.85E-04	
Biphenyl	NO	2.12E-04	2.51E-03	2.19E+01	1.10E-02	3.51E-01	
Carbon Tetrachloride	NO	3.67E-05	4.35E-04	3.80E+00	1.90E-03	6.07E-02	
Chlorobenzene	NO	3.04E-05	3.60E-04	3.14E+00	1.57E-03	5.03E-02	
Chloroform	NO	2.85E-05	3.38E-04	2.95E+00	1.47E-03	4.72E-02	
Chrysene	NO	6.93E-07	8.21E-06	7.17E-02	3.58E-05	1.15E-03	
Ethylbenzene	NO	3.97E-05	4.70E-04	4.11E+00	2.05E-03	6.57E-02	
Ethylene Dibromide	NO	4.43E-05	5.25E-04	4.58E+00	2.29E-03	7.33E-02	
Fluoranthene	NO	1.11E-06	1.32E-05	1.15E-01	5.74E-05	1.84E-03	
Fluorene	NO	5.67E-06	6.72E-05	5.87E-01	2.93E-04	9.38E-03	
Formaldehyde ³	NO		0.13	1.13E+03	0.57	18.16	4.16
Methanol	YES	2.50E-03	0.03	2.59E+02	0.13	4.14	0.95
Methylene Chloride	NO	2.00E-05	2.37E-04	2.07E+00	1.03E-03	3.31E-02	
n-Hexane	NO	1.11E-03	0.01	1.15E+02	0.06	1.84	0.42
Naphthalene	NO	7.44E-05	8.82E-04	7.70E+00	3.85E-03	1.23E-01	
PAH	NO	2.69E-05	3.19E-04	2.78E+00	1.39E-03	4.45E-02	
Phenanthrene	NO	1.04E-05	1.23E-04	1.08E+00	5.38E-04	1.72E-02	
Phenol	NO	2.40E-05	2.84E-04	2.48E+00	1.24E-03	3.97E-02	
Pyrene	NO	1.36E-06	1.61E-05	1.41E-01	7.03E-05	2.25E-03	
Styrene	NO	2.36E-05	2.80E-04	2.44E+00	1.22E-03	3.91E-02	
Perchloroethylene	NO	2.48E-06	2.94E-05	2.57E-01	1.28E-04	4.10E-03	
Toluene	NO	4.08E-04	4.84E-03	4.22E+01	2.11E-02	6.75E-01	
Vinyl Chloride	NO	1.49E-05	1.77E-04	1.54E+00	7.71E-04	2.47E-02	
Xylene	NO	1.84E-04	2.18E-03	1.90E+01	9.52E-03	3.05E-01	
		TOTAL	0.36	3141	1.57	42.3	9.70
		Single Highest HAP	0.13	1134.77	0.57	18.16	4.16

¹ Emission factors for trace organic compounds are from AP-42 Chapter 3 Section 2 – *Natural Gas-fired Reciprocating Engines* Table 3.2-2 Uncontrolled Emission Factors for 4-Stroke Lean-Burn Engines.

² Oxidation catalysts installed on lean-burn natural gas-fired RICE are capable of achieving significant reductions in formaldehyde and other organic HAP emissions. Consistent with EPA RICE MACT technical support documentation and permitting practice, a conservative overall organic HAP control efficiency of approximately 85 percent is appropriate absent source-specific stack test data.

³ Emissions for formaldehyde are post-control values provided by Wartsila with units of lb/hr. Values assume using pipeline natural gas, ambient conditions according to ISO 3046, and the use of selective catalytic reduction system and an oxidation catalyst.

⁴ PTE for each HAP from each regulated emission unit is only reported if the entire facility emits the HAP at a rate greater than or equal to 1 tpy. Facility total HAPs is limited to the sum of HAPs greater than or equal to 1 tpy.

Site Layer 1, LLC
Facility Emission Calculations
SUSD (SSM) Emissions

	Startup Emissions (lb/event)				
Standby Time	NOx	CO	VOC	PM 10	Duration (min)
>2 Days (Cold Start)	6	7.5	1.5	1.5	30
6 hours (Warm Start)	2.8	4	1.2	1.5	30
12 hours (Warm Start)	4.1	6	1.3	1.5	30

Shutdown Emissions (lb/min)			
NOx	CO	VOC	Duration (min)
0.025	0.05	0.05	1

	Hourly SSM Emissions (lb/hr)		
	NOx	CO	VOC
>2 Days (Cold Start)	6.65	8.35	2.35
6 hours (Warm Start)	3.45	4.85	2.05
12 hours (Warm Start)	4.75	6.85	2.15

Assumes 30 min start and 30 min normal operation. Per manufacturer, the maximum shutdown period is one minute, so emissions from shutdown are expected to be negligible.

Site Layer 1, LLC
Facility Emission Calculations
PSD Applicability Summary

Pollutant	Facility Emissions	Facility Emissions	PSD Major Source Threshold	Is the Pollutant above PSD Limits?	Significant Emission Rate	Is the Pollutant above SER?
	(lb/hr)	(tpy)	(tpy)	(Yes/No)	(tpy)	(Yes/No)
CO	219	241	250	No	100	Yes
NO _x	152	184	250	No	40	Yes
PM	74	225	250	No	25	Yes
PM ₁₀	74	225	250	No	15	Yes
PM _{2.5}	74	225	250	No	10	Yes
SO ₂	37	9	250	No	40	No
VOC	69	238	250	No	40	Yes
H ₂ SO ₄ Mist	4	4	-	-	7	No
HAPs	10	42	-	-	-	-
CO ₂ e	296,052	1,292,118	-	-	75,000	Yes

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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

Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO₂e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO₂e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO₂e emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
5. All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO₂e emissions for each unit in Table 2-P.
6. For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following ☐ By checking this box, the applicant acknowledges the total CO₂e emissions are less than 75,000 tons per year.

Sources for Calculating GHG Emissions:

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

Global Warming Potentials (GWP):

Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO₂ over a specified time period.

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

Metric to Short Ton Conversion:

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

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

Site Layer 1, LLC
Facility Emission Calculations
GHG Emissions

Single Unit Wartsila 20V34SG Greenhouse Gas Emissions

Greenhouse Gas	Emission Factor ^{1,2} (lb/MMBtu)	GHG Emissions			Global Warming Potential ³	CO ₂ e Emissions	
		lb/hr	lb/yr	tpy		(lb/hr)	(tpy)
CO ₂	116.98	9,242	80,674,482	40,337	1	9,242	40,337
CH ₄	2.20E-03	1.74E-01	1520	0.760	28	4.88	21.29
N ₂ O	2.20E-04	1.74E-02	152	0.076	265	4.62	20.15
TOTAL						9,252	40,379

Facility CO ₂ e PTE	
(lb/hr)	(tpy)
296,052	1,292,118

¹ Emission factor from Table C-1 of 40 CFR Part 98, Subpart C for weighted U.S. average of natural gas. Emission factor converted from metric units (kg) to Imperial units (lb) by multiplying by 2.205 lb per kg.

² Emission factor from Table C-2 (CH₄ and N₂O) of 40 CFR Part 98, Subpart C. Emission factor converted from metric units (kg) to Imperial units (lb) by multiplying by 2.205 lb per kg.

³ Global warming potentials obtained from Table A-1 to Subpart 98 - Global Warming Potentials

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.
-

Engines (Unit IDs: ENG01-ENG32)

- Hourly engine emissions for NOx, CO, VOC (as CH4), PM10/PM2.5 and NH3 are post-control values provided by Wartsila.
- SO2 emission factors was calculated by using AP-42 Chapter 3 Section 2 – Natural Gas-fired Reciprocating Engines Table 3.2-2 Uncontrolled Emission Factors for 4-Stroke Lean-Burn Engines. The factor was ratioed compared to the concentration used in Table 3.2-2. A basis of 1 gr/100 scf was used for hourly emissions and 0.25 gr/100 scf for the annual total.
- Emission factors for trace organic compounds are from AP-42 Chapter 3 Section 2 – Natural Gas-fired Reciprocating Engines Table 3.2-2 Uncontrolled Emission Factors for 4-Stroke Lean-Burn Engines.
- Emissions for formaldehyde are post-control values provided by Wartsila with units of lb/hr.
- GHG Emissions were calculated using Table C-1 of 40 CFR Part 98, Subpart C for weighted U.S. average of natural gas and emission factor from Table C-2 (CH4 and N2O) of 40 CFR Part 98, Subpart C.
- Global warming potentials obtained from Table A-1 to Subpart 98 - Global Warming Potentials
- Hourly MSS emissions for NOx, VOC, CO and PM10 were provided by Wartsila in the document "Expected Startup and Unloading Emissions 20V34SG". MSS emissions represent emissions from 12 hours standby time (assumed warm start). Overall hourly emissions are calculated using 30 min startup emissions and 30 min of normal operating emissions. Other pollutant emissions were estimated from the Technical Review Document for Antelope Station (TCEQ Permit No. 91644) which uses the same Wartsila 20V34SG engines proposed in this project.



Title:	Indicative US emissions 20V34SG-E	Doc.ID:	DETA00016933
		Revision:	-
Energy Business		Status:	Finalized
3/18/2025		Pages:	1 (2)

This document provides indicative stack emission data for steady-state operation conditions of a Wärtsilä 20V34SG-E engine (60Hz/720 rpm, using pipeline natural gas, methane number >80, ambient conditions according to ISO 3046). The engine is equipped with an efficient emission control system, which includes a selective catalytic reduction system and an oxidation catalyst. Wärtsilä understands that these levels are considered as BACT, best available control technology. Estimates are applicable to new build projects located in the US.

The figures provided are indicative and should not be considered as guaranteed data. Project-specific guaranteed emissions, if required, will be provided in a separate document which includes project-specific information.

Emission levels after an efficient emission control system at stable engine load as 60 minutes averages

Engine load	%	100	25-100% ^{Note 6}
Output	kWe at generator terminal	9370	2342-9370
NO_x (as NO₂)	ppm-v, 15% O ₂ , dry lb/h	4.5	1.3
CO	ppm-v, 15% O ₂ , dry lb/h	15	2.5
VOC (as CH₄) ^{Note 1}	ppm-v, 15% O ₂ , dry lb/h	26	2.5
CH₂O ^{Note 2}	ppm-v, 15% O ₂ , dry lb/h	0.7	0.13
NH₃	ppm-v, 15% O ₂ , dry lb/h	10	1.0
PM10 (total) ^{Note 3}	mg/Nm ³ , 15% O ₂ , dry ^{Note 4} lb/h	12	1.6

Note 1. The VOC concentration of the flue gas depends on the composition of the natural gas. Emission values in the table above are valid for fuel gas with VOC concentration (sum of propane + butane + pentane + hexane). If that concentration exceeds 0.5 vol-%, the VOC emissions shall be corrected according to the table below. In the table the sum of propane + butane + pentane + hexane is denoted C_{GasVOC}.

Actual feed gas C _{GasVOC}	Factor for VOC correction VOC concentration multiplication factor
0 vol-% ≤ C _{GasVOC} < 0.50 vol-%	1.0
0.50 vol-% ≤ C _{GasVOC} < 1.00 vol-%	1.3
1.00 vol-% ≤ C _{GasVOC} < 1.50 vol-%	1.6

Note 2. Formaldehyde is the primary HAP, as stated by the original NESHAP (<https://www.govinfo.gov/content/pkg/FR-2004-06-15/pdf/04-4816.pdf>) "Although numerous HAP may be emitted from RICE, only a few account for essentially all of the mass of HAP emissions from stationary RICE. These HAPs are formaldehyde, acrolein, methanol, and acetaldehyde. The HAP emitted in the largest quantities from stationary RICE is formaldehyde." The emission control system is expected to reduce these HAPs more than 90% from uncontrolled levels.

Note 3. PM10 (total) includes PM2.5 (total).

Note 4. Nm³ defined at 32°F and 101.3 kPa (abs)

Note 5. SO₂ emissions are directly proportional to the Sulphur content in both the fuel being burned and the lubrication oil

Note 6. A minimum load of 10% a case-by-case basis

Emission measurement methods

Oxygen (O₂): EPA Method 3A (USA)

Nitrogen oxides (NO_x): EPA Method 7E (USA)

Carbon monoxide (CO): EPA Method 10 (USA)

Volatile organic compounds (VOC defined as Non-Methane Non-Ethane Hydrocarbons): USA EPA Method 18. VOC is calculated as the sum of components detected above the method detection limit. Relevant components for a gas engine equipped with a high efficiency catalyst are typically: Ethylene, propane, n-butane, n-pentane and n-hexane.

PM₁₀ (total): Total PM₁₀ is defined as the sum of EPA method 5 (front half) and method 202.

Ammonia (NH₃): BAAQMD test Method ST-1B.

Formaldehyde (HCHO): USA EPA Method 323.

Exhaust gas flow: EPA Method 19 – used to determine the emission rate in lb/hr or equivalent units.

Doc. Name	Expected startup and unloading emissions 20V34SG		
Doc. ID	DETA00003587	Revision	a
Doc. Type	Data Sheet	Pages	1 (2)
Author	Lövholm, Markus - Energy Business	Status	Approved
Reviewed by	-		
Approved by	Lövholm, Markus - 19 Jan. 2026		

Expected start up and unloading emissions after catalyst system

This document provides engineering estimates on the start-up and unloading emissions for one Wärtsilä® 20V34SG-D/E engine equipped with an efficient emission control system. The system includes a selective catalytic reduction system and an oxidation catalyst. The figures are best estimates only and shall not be considered as guarantee data.

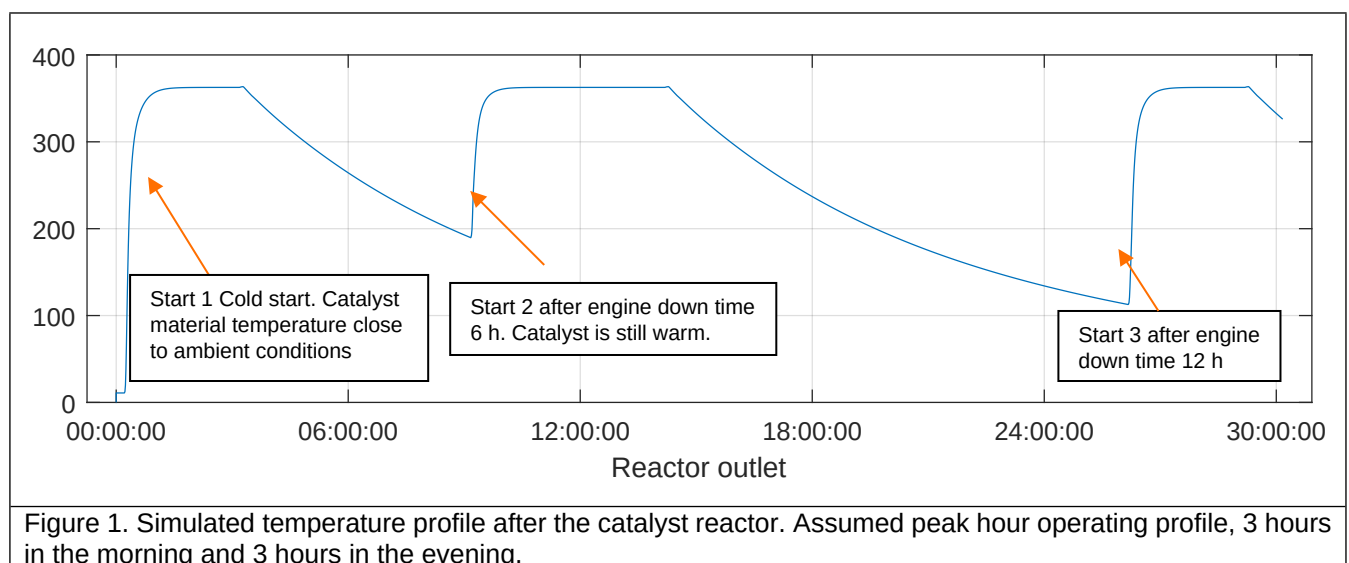
The fast start-up of the engine results in varying exhaust gas flow, non stable temperature, high and low range emission and oxygen levels which make accurate measurement and prediction of emissions very challenging. The flue gas emission estimates herein are based on emission measurement for steady conditions at different loads together with limited measurements performed during start-up. A standard catalyst volume loading has been selected and more accurate start up values can be estimated when final project specific catalyst design is known. The emission control performance in a start up situation is based on supplier estimates and laboratory data. The data assumes that the engines will reach full load within 5 minutes and continue operating at full engine load. The unloading time is assumed to be 60 seconds.

Furthermore, to calculate the emissions the following assumptions have been made:

Ambient conditions: 25 °C (77 °F), relative humidity:30%

Insulation: 100mm for exhaust gas duct up until reactor (and after reactor to silencer), reactor 200mm

Layout: exhaust gas ducting is assumed to be normal without extra ducting and silencer before mixing duct



The estimated cumulative start up flue gas emissions with optimized reagent injection are expressed as lb per a start period (30 min) of one (1) Wärtsilä® 20V34SG-D/E engine are given for 3 different conditions (see figure 1 above) in the tables 1 and 2 below. The warm startup numbers are given for a restart after 6 and 12 h engine down time. If the engine is expected to have shorter stops the expected emissions will be even lower.

A cold catalyst start is when the temperature of the catalyst material inside the reactor is close to ambient temperature. Cold catalyst starts are expected after over haul periods or when the engine has not been operated during the last 2-3 days.

The emission control system will reach its full abatement efficiency within 10-30 minutes from the start when starting to a high load.

Table 1. Expected flue gas emissions during start up:

20V34SG-D/E					
Typical standby time before engine start	unit	NOx (as NO2)	CO	VOC** (as CH4)	PM 10
> 2 days	lb / 30 min	6	7.5	1.5	1.5
6 hours	lb / 30 min	2.8	4	1.2	1.5
12 hours	lb / 30 min	4.1	6	1.3	1.5

**The VOC (volatile organic compounds) emissions depend on the composition of the fuel gas. The VOC emissions in table 1 above are based on max 0.5 vol-% VOC components in the feed fuel gas and are NOT including CH₂O.

Table 2. Expected unloading emissions:

Components	Unit	20V34SG-D/E
NOx (as NO ₂)	lb/min	0.025
CO	lb/min	0.05
VOC (as CH ₄)	lb/min	0.05

Stack emission measurements during start up sequences or heavy transient loads are challenging and the repeatability of start up emission measurement on site is low. The analyser response time for the gaseous emissions needs special attention. Moreover the particulate emissions will stay on a theoretical level since the particulates can not be determined by an isokinetic sampling reference method.

TECHNICAL REVIEW: STANDARD PERMIT FOR POLLUTION CONTROL PROJECTS

CORRECTION

Permit No.:	91644	Company Name:	Golden Spread Electric Cooperative, Inc.	APD Reviewer:	Mr. Emmanuel Ukandu, P.E.
Project No.:	157599	Site/Area Name:	Antelope Station	SP No.:	6005

GENERAL INFORMATION			
Regulated Entity No.:	RN105862510	Project Type:	Standard Permit Application
Customer Reference No.:	CN602663387	Date Received by TCEQ:	May 14, 2010
Account No.:		Date Received by	May 19, 2010
City/County:	Abernathy, Hale County	Physical Location:	site is north off county road 315 east of i-27 and bounded on the east by county road p

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Mr. Randy Allison Vice President Production	Phone No.:	(806) 379-7766	Email:	
Technical Contact/ Consultant Name and Title:		Phone No.:		Email:	

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?		X	
Are there associated authorizations at the site?	X		If YES, list all PBRs and standard permit numbers: 106.183, 106.511
Is the application for renewal of an existing standard permit?		X	If YES, list expiration date:
Will any New Source Review permit be directly affected by this project?		X	If YES, list the NSR Permit No.
Do NSPS, NESHAP, or MACT standards apply to this registration?	X		If YES, list Subparts:
Is the following documentation included with this registration? 1. The General Requirements Checklist demonstrating compliance with 30 TAC §§ 116.110 and 116.601-615 2. Process description 3. Project description 4. Descriptions of any equipment being installed 5. Emissions calculations including the basis of the calculations 6. Emission increases and/or decreases associated with this project (quantified) 7. Description of efforts to minimize any collateral emissions or collateral increases	X		If NO, note any requests for additional information and date received:
Are any requirements of § 116.110 circumvented by: (1) artificially limiting feed or production rates below the maximum capacity of the project's equipment; (2) claiming a limited chemical list; or (3) dividing and registering a project in separate segments?		X	If YES, are the limits intended to allow the project to move forward while waiting for a permit or permit amendment that will allow full-scale operations, particularly when the project would not be economically feasible until fully authorized?

STANDARD PERMIT RULES CHECK	YES	NO	COMMENTS
Will the project include replacement of existing pollution control equipment and/or techniques?		X	If YES, is the new control technique at least as effective?
Will an increase in production capacity result from the installation of control equipment or the implementation of a control technique?		X	
Does the project include installing a new production facility, reconstructing an existing production facility [as defined in 40 CFR § 60.15(b)(1) and (c)], or completely replacing an existing production facility?		X	
Without consideration of any other increases or decreases, will the project result in a significant net increase in emissions of any criteria pollutant?		X	Does the net increase trigger PSD, nonattainment, or netting review? YES _____ NO <u>X</u> _____ Document in technical summary below.
Are predictable maintenance, startup, and shutdown emissions directly associated with the pollution control project included in this project?	N/A	N/A	If NO, how are previous MSS emission authorized or permitted. Give permit nos. and emissions?

DESCRIBE OVERALL PROCESS AT THE SITE

TECHNICAL REVIEW: STANDARD PERMIT FOR POLLUTION CONTROL PROJECTS

CORRECTION

Permit No.:	91644	Company Name:	Golden Spread Electric Cooperative, Inc.	APD Reviewer:	Mr. Emmanuel Ukandu, P.E.
Project No.:	157599	Site/Area Name:	Antelope Station	SP No.:	6005

The Golden States Electric Cooperative Inc. operates the Antelope Station consisting of 18 Wartsila 20V34SG gas-fired engines to produce electricity at this site. The engines are used to provide power to the company's customers through a wholesale agreement when power from the energy market exceeds the cost of power produced from the facility.

DESCRIBE PROJECT AND INVOLVED PROCESS

This project has been sent in to notify the TCEQ of changes that were made to representations when the facility was authorized. As mandated under 30 TAC Chapter 116.615(2): "All representations with regard to construction plans, operating procedures, and maximum emission rates in any registration for a standard permit become conditions upon which the facility or changes thereto, must be constructed and operated. ... Notice of changes in representations must be received by the executive director no later than 30 days after the change." The company is, by this project, sending a notice to TCEQ that the stack on the 18 Wartsila engines are now planned to be at heights of 90 ft instead of the previously represented height of 70 ft. The higher stack will result in reduced ambient concentrations and reduced impacts. Company is doing this on its own because the standard permit does not specify any requirement for stack heights nor does it require the performance of any dispersion modeling.

TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES

The Antelope Station still complies with all the standards and requirements of the standard permit under which it is authorized. This is just a notification of change in representation made in the original application to satisfy compliance with 30 TAC Chapter 116.615(2) reference above in this technical review document.

COMMUNICATION LOG

Date	Time	Name/Company	Subject of Communication
04/25/2014	8.33 am	Pat Murin/Technical Contact	Received the e-mail shown below from client for corrections and revisions of the Emission Rates Table for the facility:
05/02/2014	PM	Team Leader/RR Section	Team Leader requested checking with Combustion for any concerns with the test and revised emissions for MSS startup.
05/02/2014	2.32 pm	Erik Hendrickson/Combustion Section	Sent Correction request package to Erik to review for any concerns regarding the reduced NOx emissions from MSS startup based on engine tests.
05/07/2014	pm	Erik Hendrickson	Met and discussed the project with Erik and Combustion does not have any concerns.

Good morning, Mr. Ukandu.

As we briefly discussed yesterday morning, Golden Spread Electric Cooperative Inc. (GSEC) has found several typos in the Maximum Emission Rates Table issued with Standard Permit Number 91644. In addition, for one pollutant, NOx, GSEC has conducted testing to more accurately define emissions during startup, and wishes to revise the reported value in the Maximum Emission Rates Table to reflect the lower emissions determined in testing. After discussing these corrections and changes with me yesterday morning, Anne Inman suggested that GSEC submit an email to the permit reviewer to request that the corrections and changes be made to the Maximum Emission Rates Table. I am submitting this email to you on behalf of GSEC, since you were the permit reviewer for this permit.

The permit was originally issued on 2/2/2010 (Project 153805), and re-issued on July 8, 2010 (Project 157599) to accept a change in the represented engine stack heights. Attached is a re-print of the July 8, 2010 permit. We have noted on this re-print those emission rates which do not match up to the permit registration representations and the emissions for which we are requesting a lower permit limit in the Maximum Emission Rates Table due to the recent testing. Each of these are addressed below.

Corrections to Maximum Emission Rates Table – For most of the pollutants listed in the Maximum Emission Rates Table, the emission rates properly reflect correct hourly and annual emissions, for both normal operations and MSS. These include correct values for VOC, CO, PM₁₀, PM_{2.5}, SO₂, and Other (which includes the total of H₂SO₄, NH₃, and HAP emissions). For NOx emissions, the only incorrect value is for the hourly emission limit for MSS. For H₂SO₄, NH₃, and HAP emissions, the incorrect values are the hourly emission limits for both normal operations and MSS. These are clearly minor oversights since the total hourly emissions shown for the Other emission category, which includes H₂SO₄, NH₃, and HAP emissions, are correct. It appears that the erroneous values currently in the Maximum Emission Rates Table for these pollutants are for a single engine, whereas all other values reported in the Table are (properly) for the total of all 18 engines. The Maximum Emission Rates Table should be corrected to reflect the following values:

H₂SO₄ – Normal emissions: 3.24 lbs/hr; MSS emissions: 3.24 lbs/hr

NH₃ – Normal emissions: 18 lbs/hr; MSS emissions: 18 lbs/hr

HAPs – Normal emissions: 26.1 lbs/hr; MSS emissions: 47.88 lbs/hr

NOx – MSS emissions: 189.36 lbs/hr – however, this change will be superseded by the change requested below.

The supporting documentation for the emission rates in the permit registration submittal are attached to facilitate your review. The values reported above are calculated as the single unit emissions multiplied by 18.

Requested Reduction in NOx Emissions During MSS – In March of this year, GSEC tested 4 of the engines at the site to more accurately determine startup emissions. These emissions were previously determined in the standard permit registration based on estimates provided by the engine manufacturer. GSEC tested 6 periods of cold startups and 6 periods of warm startups at each of these engines for a total of 23 tests of cold startups and 24 tests of warm startups. (One result for testing cold startups was excluded as a low-lying outlier.) This testing found a 99% upper confidence limit for

TECHNICAL REVIEW: STANDARD PERMIT FOR POLLUTION CONTROL PROJECTS

CORRECTION

Permit No.:	91644	Company Name:	Golden Spread Electric Cooperative, Inc.	APD Reviewer:	Mr. Emmanuel Ukandu, P.E.
Project No.:	157599	Site/Area Name:	Antelope Station	SP No.:	6005

the mean of 6.52 lbs for cold startups, and 1.23 lbs for warm startups. These compare to the manufacturer values of 9.8 lbs and 2.7 lbs for cold and warm startups respectively. As shown in red in the attached for revised NOx emissions, based on the new testing results, the lower values for NOx emissions that we request be included in the Maximum Emissions Rate Table are the following:
 NOx – MSS emissions: **130.32** lbs/hr and **71.67** tons/yr; total emissions (normal plus MSS): **113.14** tons/yr. The hourly emission limit for MSS is based on the value of 7.24 lbs per hour multiplied by 18 engines. The annual emissions for MSS are based on the addition of 45.77 tons (for cold startups) and 25.9 tons (for warm startups). The total emissions are the total of normal emissions and startup emissions.

If you have any questions on this request, or need any additional information, please feel free to contact me.

Pat Murin, P.E.
 Murin Environmental Inc.

713/819-6115 (cell)

979 Via Puebla
 Rio Rico, AZ 85648-1918
 520/281-4229 (office)
 520/281-4359 (fax)

MAXIMUM EMISSION RATES TABLE (MERT)																					
EPN/ Emission Source	H ₂ SO ₄		NH ₃		HAPs		VOC		NOx		CO		PM ₁₀		PM _{2.5}		SO ₂		Other+		
	lbs/h r	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/hr	tpy	
ENG1- ENG18/ Generators	0.18	5.07	1.0	28.80	1.45	41.78	76.86	123.03	25.92	41.47	48.06	76.90	37.08	59.33	37.08	59.33	20.7	33.12	47.34	75.65	
MSS	0.18	1.24	1.0	7.02	2.66	54.31	169.9	93.37	10.52	125.66	288.72	155.84	67.14	65.28	67.14	65.28	20.7	8.14	69.12	62.57	
TOTALS(TPY)		6.31		35.8		96.09		216.4		167.13		232.74		124.61							
TOTAL EMISSIONS (TPY):								216.4		167.13		232.74		124.61		124.61		41.26		138.2	
MAXIMUM OPERATING SCHEDULE:							Hours/Day			Days/Week					Weeks/Year			Hours/Year		3200*	

MAXIMUM EMISSION RATES TABLE (MERT) - CORRECTION																					
EPN/ Emission Source	H ₂ SO ₄		NH ₃		HAPs		VOC		NOx		CO		PM ₁₀		PM _{2.5}		SO ₂		Other+		
	lbs/ hr	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/hr	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/h r	tpy	lbs/hr	tpy	
ENG1- ENG18/Generat ors	3.24	5.07	18.0	28.8 0	26.1	41.7 8	76.8 6	123.0 3	25.92	41.47	48.06	76.90	37.0 8	59.33	37.0 8	59.33	20.7	33.1 2	47.34	75.6 5	
MSS	3.24	1.24	18.0	7.02	47.8 8	54.3 1	169. 9	93.37	130.3 2	71.67	288.7 2	155.8 4	67.1 4	65.28	67.1 4	65.28	20.7	8.14	69.12	62.5 7	
TOTALS (TPY)		6.31		35.8		96.0 9		216.4		113.1 4		232.7 4		124.6 1							
TOTAL EMISSIONS (TPY):								216.4		113.1 4		232.7 4		124.6 1		124.6 1		41.2 6		138. 2	
MAXIMUM OPERATING SCHEDULE:							Hours/Day			Days/Week				Weeks/Year				Hours/Yea r		3200*	

*represents average hours of operation a year for each engine.

VOC - volatile organic compounds

TECHNICAL REVIEW: STANDARD PERMIT FOR POLLUTION CONTROL PROJECTS

CORRECTION

Permit No.:	91644	Company Name:	Golden Spread Electric Cooperative, Inc.	APD Reviewer:	Mr. Emmanuel Ukandu, P.E.
Project No.:	157599	Site/Area Name:	Antelope Station	SP No.:	6005

NO_x - total oxides of nitrogen
 CO - carbon monoxide
 PM₁₀ - particulate matter equal to or less than 10 microns in size
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in size
 SO₂ - sulfur dioxide

**Fugitive emissions are an estimate only and should not be considered as a maximum allowable limits.

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:			See Hard Copy.
PRINTED NAME:	Emmanuel Ukandu, P.E.		Anne Inman, P.E., Manager
DATE:	July 8, 2010	July 8, 2010	July 8, 2010

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:			See Hard Copy.
PRINTED NAME:	Emmanuel Ukandu, P.E.	Julie Steger, Team Leader	Anne Inman, P.E., Manager
DATE:	May 14, 2014	May 15, 2014	May 16, 2014

BASIS OF PROJECT POINTS	POINTS
Base Points:	1.00
Project Complexity Description and Points: Comm.(0.50)	0.50
Technical Reviewer Project Points Assessment:	1.50
Final Reviewer Project Points Confirmation:	

FACT SHEET

FINAL RULE TO REDUCE HAZARDOUS AIR EMISSIONS FROM RECIPROCATING INTERNAL COMBUSTION ENGINES

TODAY'S ACTION

- On February 26, 2004, the Environmental Protection Agency (EPA) issued final requirements to reduce toxic air emissions from stationary reciprocating internal combustion engines (RICE). These requirements apply to RICE used at facilities such as pipeline compressor stations, chemical and manufacturing plants, and power plants.
- The final rule will reduce emissions of a number of toxic air pollutants such as formaldehyde, acrolein, methanol, and acetaldehyde by 5,6000 tons in the fifth year after promulgation. These pollutants, also known as air toxics, are known or suspected to cause adverse health and environmental effects. Formaldehyde and acetaldehyde are probable human carcinogens.
- The final rule limits the amount of air pollution that may be released from exhaust stacks of all new (built after December 19, 2002), and certain existing, stationary RICE above 500 horsepower that are located at major industrial sources of air toxics. According to the Clean Air Act, a major source emits 10 tons a year or more of a single toxic air pollutant, or 25 tons a year or more of a combination of toxic air pollutants.
- Existing stationary RICE must comply with the final rule no later than 3 years after the final rule is published. New stationary RICE must comply with the final rule when they are brought on line. These units have up to 6 months after the rule is final, or 6 months after startup, whichever is later, to demonstrate compliance with the new standards.
- The final rule requires that:
 - Existing and new 4-stroke rich burn (4SRB) engines either reduce formaldehyde by 76 percent or limit the formaldehyde concentration to 350 parts per billion.
 - New 2-stroke lean burn (2SLB) engines either reduce carbon monoxide (CO) by 58 percent or limit the formaldehyde concentration to 12 parts per million.
 - New 4-stroke lean burn (4SLB) engines either reduce CO by 93 percent or limit the formaldehyde concentration to 14 parts per million.
 - New compression ignition (CI) engines either reduce CO by 70 percent or limit the formaldehyde concentration to 580 parts per billion.

Formaldehyde and CO are surrogates for reducing the air toxics of concern from RICE. Therefore, by reducing formaldehyde and CO, facilities also will reduce the other air toxics to similar levels.

- EPA expects owners or operators of 4SRB engines to install air pollution control devices known as “non-selective catalyst reduction.” These systems not only reduce CO emissions, they also reduce air toxics emissions such as formaldehyde, acrolein,

methanol, and acetaldehyde. Sources are free to comply with either compliance option, irrespective of the control technique applied.

- Owners or operators of 2SLB, 4SLB, and CI engines likely will install devices known as “CO catalytic oxidation systems” to meet the formaldehyde and CO requirements.
- EPA estimates that approximately 8,120 new stationary RICE will be built at major sources of air toxic emissions by the end of the 5th year after this rule takes effect. In addition, about 1,800 existing stationary RICE located at major sources may potentially be subject to the rule.
- When proposing this rule, EPA requested comment on three options that could reduce the cost of complying with the final rule requirements. These options focused regulatory controls on facilities that pose significant human health risks from their toxic air emissions. Facilities that could show their air toxic emissions fall below certain thresholds could have been exempt from this air toxics rule if EPA adopted one or more of these options.
- EPA received comments on these risk-based approaches. After considering the complex issues raised and evaluating the effort required to finalize this rule by the court ordered deadline, EPA did not adopt any of these options in the final rule.

HEALTH/ENVIRONMENTAL BENEFITS

- The final rule will provide improvements in protecting human health and the environment by reducing air toxics emissions by 5,600 tons per year in the fifth year after the rule is final. Emissions of formaldehyde, acrolein, acetaldehyde and methanol will be reduced by 40 to 90 percent, depending on the type of stationary RICE.
- Exposure to emissions of these air toxics may produce a wide variety of human health effects including irritation of the eyes, skin and mucous membranes, dysfunction of the central nervous system, and narcosis. Formaldehyde exposure has been associated with reproductive effects such as menstrual disorders and pregnancy problems. EPA has classified formaldehyde and acetaldehyde as probable human carcinogens.

In addition, the controls that will be used to reduce air toxic emissions will also reduce carbon monoxide (CO), nitrogen oxides (NO_x), volatile organic compounds (VOC), and particulate matter (PM). The total annualized benefits for the final rule are \$280 million in the fifth year due to the NO_x reductions. Benefits would be greater if we were able to quantify the effects of the air toxics and pollutants other than NO_x.

COST

- EPA estimates the total nationwide capital costs for the final rule to be \$440 million within the first five years, with an annualized cost of \$247 million in the fifth year.

BACKGROUND

- The Clean Air Act requires EPA to develop standards for categories of facilities that emit one or more of 188 listed toxic air pollutants. These standards require the application of strict controls known as maximum achievable control technology (MACT).
- EPA identified stationary RICE as a category of sources that emit one or more of the listed air toxics.
- The Clean Air Act requires EPA to identify MACT controls based on the emissions levels achieved by the best-performing facilities. This baseline for controls, or MACT floor, is established differently for existing and new sources. In the case of existing stationary RICE, there were not enough existing 2SLB, 4SLB, and CI engines with controls to establish an emission reduction for the MACT floor. Requiring these facilities to add controls required for new engines would be cost prohibitive.

FOR MORE INFORMATION

- To download the final standards from EPA's web site, go to "Recent Actions" at the following address: <http://www.epa.gov/ttn/oarpg>.
- For further information about the final rule, contact Mr. Sims Roy at EPA's Office of Air Quality Planning and Standards at 919-541-5263.
- For information regarding stationary RICE, visit EPA's web site at: <http://www.epa.gov/ttn/atw/combust/engine/ricepg.html>. For other combustion-related regulations, visit EPA's Combustion Related Rules page at: <http://www.epa.gov/ttn/atw/combust/list.html>.

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES^a
(SCC 2-02-002-54)

Pollutant	Emission Factor (lb/MMBtu) ^b (fuel input)	Emission Factor Rating
Criteria Pollutants and Greenhouse Gases		
NO _x ^c 90 - 105% Load	4.08 E+00	B
NO _x ^c <90% Load	8.47 E-01	B
CO ^c 90 - 105% Load	3.17 E-01	C
CO ^c <90% Load	5.57 E-01	B
CO ₂ ^d	1.10 E+02	A
SO ₂ ^e	5.88 E-04	A
TOC ^f	1.47 E+00	A
Methane ^g	1.25 E+00	C
VOC ^h	1.18 E-01	C
PM10 (filterable) ⁱ	7.71 E-05	D
PM2.5 (filterable) ⁱ	7.71 E-05	D
PM Condensable ^j	9.91 E-03	D
Trace Organic Compounds		
1,1,2,2-Tetrachloroethane ^k	<4.00 E-05	E
1,1,2-Trichloroethane ^k	<3.18 E-05	E
1,1-Dichloroethane	<2.36 E-05	E
1,2,3-Trimethylbenzene	2.30 E-05	D
1,2,4-Trimethylbenzene	1.43 E-05	C
1,2-Dichloroethane	<2.36 E-05	E
1,2-Dichloropropane	<2.69 E-05	E
1,3,5-Trimethylbenzene	3.38 E-05	D
1,3-Butadiene ^k	2.67E-04	D
1,3-Dichloropropene ^k	<2.64 E-05	E
2-Methylnaphthalene ^k	3.32 E-05	C
2,2,4-Trimethylpentane ^k	2.50 E-04	C
Acenaphthene ^k	1.25 E-06	C

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES
(Continued)

Pollutant	Emission Factor (lb/MMBtu) ^b (fuel input)	Emission Factor Rating
Acenaphthylene ^k	5.53 E-06	C
Acetaldehyde ^{k,l}	8.36 E-03	A
Acrolein ^{k,l}	5.14 E-03	A
Benzene ^k	4.40 E-04	A
Benzo(b)fluoranthene ^k	1.66 E-07	D
Benzo(e)pyrene ^k	4.15 E-07	D
Benzo(g,h,i)perylene ^k	4.14 E-07	D
Biphenyl ^k	2.12 E-04	D
Butane	5.41 E-04	D
Butyr/Isobutyraldehyde	1.01 E-04	C
Carbon Tetrachloride ^k	<3.67 E-05	E
Chlorobenzene ^k	<3.04 E-05	E
Chloroethane	1.87 E-06	D
Chloroform ^k	<2.85 E-05	E
Chrysene ^k	6.93 E-07	C
Cyclopentane	2.27 E-04	C
Ethane	1.05 E-01	C
Ethylbenzene ^k	3.97 E-05	B
Ethylene Dibromide ^k	<4.43 E-05	E
Fluoranthene ^k	1.11 E-06	C
Fluorene ^k	5.67 E-06	C
Formaldehyde ^{k,l}	5.28 E-02	A
Methanol ^k	2.50 E-03	B
Methylcyclohexane	1.23 E-03	C
Methylene Chloride ^k	2.00 E-05	C
n-Hexane ^k	1.11 E-03	C
n-Nonane	1.10 E-04	C

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES
(Continued)

Pollutant	Emission Factor (lb/MMBtu) ^b (fuel input)	Emission Factor Rating
n-Octane	3.51 E-04	C
n-Pentane	2.60 E-03	C
Naphthalene ^k	7.44 E-05	C
PAH ^k	2.69 E-05	D
Phenanthrene ^k	1.04 E-05	D
Phenol ^k	2.40 E-05	D
Propane	4.19 E-02	C
Pyrene ^k	1.36 E-06	C
Styrene ^k	<2.36 E-05	E
Tetrachloroethane ^k	2.48 E-06	D
Toluene ^k	4.08 E-04	B
Vinyl Chloride ^k	1.49 E-05	C
Xylene ^k	1.84 E-04	B

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

^b Emission factors were calculated in units of (lb/MMBtu) based on procedures in EPA Method 19. To convert from (lb/MMBtu) to (lb/10⁶ scf), multiply by the heat content of the fuel. If the heat content is not available, use 1020 Btu/scf. To convert from (lb/MMBtu) to (lb/hp-hr) use the following equation:

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

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

^d Based on 99.5% conversion of the fuel carbon to CO₂. CO₂ [lb/MMBtu] = (3.67)(%CON)(C)(D)(1/h), where %CON = percent conversion of fuel carbon to CO₂, C = carbon content of fuel by weight (0.75), D = density of fuel, 4.1 E+04 lb/10⁶ scf, and

^h h = heating value of natural gas (assume 1020 Btu/scf at 60°F).

^e Based on 100% conversion of fuel sulfur to SO₂. Assumes sulfur content in natural gas of 2,000 gr/10⁶ scf.

^f Emission factor for TOC is based on measured emission levels from 22 source tests.

^g Emission factor for methane is determined by subtracting the VOC and ethane emission factors from the TOC emission factor. Measured emission factor for methane compares well with the calculated emission factor, 1.31 lb/MMBtu vs. 1.25 lb/MMBtu, respectively.

^h VOC emission factor is based on the sum of the emission factors for all speciated organic compounds less ethane and methane.

ⁱ Considered $\leq 1 \mu\text{m}$ in aerodynamic diameter. Therefore, for filterable PM emissions, PM₁₀(filterable) = PM_{2.5}(filterable).

^j PM Condensable = PM Condensable Inorganic + PM-Condensable Organic

^k Hazardous Air Pollutant as defined by Section 112(b) of the Clean Air Act.

^l For lean burn engines, aldehyde emissions quantification using CARB 430 may reflect interference with the sampling compounds due to the nitrogen concentration in the stack. The presented emission factor is based on FTIR measurements. Emissions data based on CARB 430 are available in the background report.

This content is from the eCFR and is authoritative but unofficial.

Title 40 —Protection of Environment

Chapter I —Environmental Protection Agency

Subchapter C —Air Programs

Part 98 —Mandatory Greenhouse Gas Reporting

Subpart C —General Stationary Fuel Combustion Sources

Authority: 42 U.S.C. 7401-7671q.

Source: 74 FR 56374, Oct. 30, 2009, unless otherwise noted.

Editorial Note: At 90 FR 21227, May 19, 2025, as required by the Congressional Review Act and Public Law 119-2, the Environmental Protection Agency removed the amendments to §§ 98.3 and 98.4 made effective on Jan. 17, 2025, at 89 FR 91163, Nov. 18, 2024. As of May 19, 2025, §§ 98.3 and 98.4 reverted to the Jan. 16, 2025 version.

Table C-1 to Subpart C of Part 98—Default CO₂ Emission Factors and High Heat Values for Various Types of Fuel

DEFAULT CO₂ EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL

Fuel type	Default high heat value	Default CO ₂ emission factor
Coal and coke	mmBtu/short ton	kg CO ₂ /mmBtu
Anthracite	25.09	103.69

¹ The HHV for components of LPG determined at 60 °F and saturation pressure with the exception of ethylene.

² Ethylene HHV determined at 41 °F (5 °C) and saturation pressure.

³ Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.

⁴ Reporters subject to subpart X of this part that are complying with § 98.243(d) or subpart Y of this part may only use the default HHV and the default CO₂ emission factor for fuel gas combustion under the conditions prescribed in § 98.243(d)(2)(i) and (d)(2)(ii) and § 98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C-5) or Tier 4.

⁵ Use the following formula to calculate a wet basis HHV for use in Equation C-1: $HHV_w = ((100 - M)/100) * HHV_d$ where HHV_w = wet basis HHV, M = moisture content (percent) and HHV_d = dry basis HHV from Table C-1.

Table C-1 to Subpart C of Part 98, Title 40 (up to date as of 9/28/2026).
Default CO₂ Emission Factors and High Heat Values for Various Fuels

Fuel type	Default high heat value	Default CO ₂ emission factor
Bituminous	24.93	93.28
Subbituminous	17.25	97.17
Lignite	14.21	97.72
Coal Coke	24.80	113.67
Mixed (Commercial sector)	21.39	94.27
Mixed (Industrial coking)	26.28	93.90
Mixed (Industrial sector)	22.35	94.67
Mixed (Electric Power sector)	19.73	95.52
Natural gas	mmBtu/scf	kg CO ₂ /mmBtu
(Weighted U.S. Average)	1.026×10^{-3}	53.06
Petroleum products—liquid	mmBtu/gallon	kg CO ₂ /mmBtu
Distillate Fuel Oil No. 1	0.139	73.25
Distillate Fuel Oil No. 2	0.138	73.96
Distillate Fuel Oil No. 4	0.146	75.04
Residual Fuel Oil No. 5	0.140	72.93
Residual Fuel Oil No. 6	0.150	75.10
Used Oil	0.138	74.00
Kerosene	0.135	75.20
Liquefied petroleum gases (LPG) ¹	0.092	61.71
Propane ¹	0.091	62.87
Propylene ²	0.091	67.77
Ethane ¹	0.068	59.60
Ethanol	0.084	68.44
Ethylene ²	0.058	65.96
Isobutane ¹	0.099	64.94

¹ The HHV for components of LPG determined at 60 °F and saturation pressure with the exception of ethylene.

² Ethylene HHV determined at 41 °F (5 °C) and saturation pressure.

³ Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.

⁴ Reporters subject to subpart X of this part that are complying with § 98.243(d) or subpart Y of this part may only use the default HHV and the default CO₂ emission factor for fuel gas combustion under the conditions prescribed in § 98.243(d)(2)(i) and (d)(2)(ii) and § 98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C-5) or Tier 4.

⁵ Use the following formula to calculate a wet basis HHV for use in Equation C-1: $HHV_w = ((100 - M)/100) * HHV_d$ where HHV_w = wet basis HHV, M = moisture content (percent) and HHV_d = dry basis HHV from Table C-1.

Table C-1 to Subpart C of Part 98, Title 40 (up to date as of 9/28/2026).
Default CO₂ Emission Factors and High Heat Values for Various Fuels

Fuel type	Default high heat value	Default CO ₂ emission factor
Isobutylene ¹	0.103	68.86
Butane ¹	0.103	64.77
Butylene ¹	0.105	68.72
Naphtha (<401 deg F)	0.125	68.02
Natural Gasoline	0.110	66.88
Other Oil (>401 deg F)	0.139	76.22
Pentanes Plus	0.110	70.02
Petrochemical Feedstocks	0.125	71.02
Special Naphtha	0.125	72.34
Unfinished Oils	0.139	74.54
Heavy Gas Oils	0.148	74.92
Lubricants	0.144	74.27
Motor Gasoline	0.125	70.22
Aviation Gasoline	0.120	69.25
Kerosene-Type Jet Fuel	0.135	72.22
Asphalt and Road Oil	0.158	75.36
Crude Oil	0.138	74.54
Petroleum products—solid	mmBtu/short ton	kg CO ₂ /mmBtu.
Petroleum Coke	30.00	102.41.
Petroleum products—gaseous	mmBtu/scf	kg CO ₂ /mmBtu.
Propane Gas	2.516 × 10 ⁻³	61.46.
Other fuels—solid	mmBtu/short ton	kg CO ₂ /mmBtu
Municipal Solid Waste	9.95 ³	90.7
Tires	28.00	85.97
Plastics	38.00	75.00

¹ The HHV for components of LPG determined at 60 °F and saturation pressure with the exception of ethylene.

² Ethylene HHV determined at 41 °F (5 °C) and saturation pressure.

³ Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.

⁴ Reporters subject to subpart X of this part that are complying with § 98.243(d) or subpart Y of this part may only use the default HHV and the default CO₂ emission factor for fuel gas combustion under the conditions prescribed in § 98.243(d)(2)(i) and (d)(2)(ii) and § 98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C-5) or Tier 4.

⁵ Use the following formula to calculate a wet basis HHV for use in Equation C-1: $HHV_w = ((100 - M)/100) * HHV_d$ where HHV_w = wet basis HHV, M = moisture content (percent) and HHV_d = dry basis HHV from Table C-1.

Table C-1 to Subpart C of Part 98, Title 40 (up to date as of 9/28/2026).
Default CO₂ Emission Factors and High Heat Values for Various...

Fuel type	Default high heat value	Default CO ₂ emission factor
Other fuels—gaseous	mmBtu/scf	kg CO ₂ /mmBtu
Blast Furnace Gas	0.092×10^{-3}	274.32
Coke Oven Gas	0.599×10^{-3}	46.85
Fuel Gas ⁴	1.388×10^{-3}	59.00
Biomass fuels—solid	mmBtu/short ton	kg CO ₂ /mmBtu
Wood and Wood Residuals (dry basis) ⁵	17.48	93.80
Agricultural Byproducts	8.25	118.17
Peat	8.00	111.84
Solid Byproducts	10.39	105.51
Biomass fuels—gaseous	mmBtu/scf	kg CO ₂ /mmBtu
Landfill Gas	0.485×10^{-3}	52.07
Other Biomass Gases	0.655×10^{-3}	52.07
Biomass Fuels—Liquid	mmBtu/gallon	kg CO ₂ /mmBtu
Ethanol	0.084	68.44
Biodiesel (100%)	0.128	73.84
Rendered Animal Fat	0.125	71.06
Vegetable Oil	0.120	81.55

¹ The HHV for components of LPG determined at 60 °F and saturation pressure with the exception of ethylene.

² Ethylene HHV determined at 41 °F (5 °C) and saturation pressure.

³ Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.

⁴ Reporters subject to subpart X of this part that are complying with § 98.243(d) or subpart Y of this part may only use the default HHV and the default CO₂ emission factor for fuel gas combustion under the conditions prescribed in § 98.243(d)(2)(i) and (d)(2)(ii) and § 98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C-5) or Tier 4.

⁵ Use the following formula to calculate a wet basis HHV for use in Equation C-1: $HHV_w = ((100 - M)/100) * HHV_d$ where HHV_w = wet basis HHV, M = moisture content (percent) and HHV_d = dry basis HHV from Table C-1.

[78 FR 71950, Nov. 29, 2013, as amended at 81 FR 89252, Dec. 9, 2016]

This content is from the eCFR and is authoritative but unofficial.

Title 40 —Protection of Environment

Chapter I —Environmental Protection Agency

Subchapter C —Air Programs

Part 98 —Mandatory Greenhouse Gas Reporting

Subpart C —General Stationary Fuel Combustion Sources

Authority: 42 U.S.C. 7401-7671q.

Source: 74 FR 56374, Oct. 30, 2009, unless otherwise noted.

Editorial Note: At 90 FR 21227, May 19, 2025, as required by the Congressional Review Act and Public Law 119-2, the Environmental Protection Agency removed the amendments to §§ 98.3 and 98.4 made effective on Jan. 17, 2025, at 89 FR 91163, Nov. 18, 2024. As of May 19, 2025, §§ 98.3 and 98.4 reverted to the Jan. 16, 2025 version.

Table C-2 to Subpart C of Part 98—Default CH₄ and N₂O Emission Factors for Various Types of Fuel

Fuel type	Default CH ₄ emission factor (kg CH ₄ /mmBtu)	Default N ₂ O emission factor (kg N ₂ O/mmBtu)
Coal and Coke (All fuel types in Table C-1)	1.1 × 10 ⁻⁰²	1.6 × 10 ⁻⁰³
Natural Gas ¹	1.0 × 10 ⁻⁰³	1.0 × 10 ⁻⁰⁴
Petroleum Products (All fuel types in Table C-1)	3.0 × 10 ⁻⁰³	6.0 × 10 ⁻⁰⁴
Fuel Gas	3.0 × 10 ⁻⁰³	6.0 × 10 ⁻⁰⁴
Other Fuels—Solid	3.2 × 10 ⁻⁰²	4.2 × 10 ⁻⁰³
Blast Furnace Gas	2.2 × 10 ⁻⁰⁵	1.0 × 10 ⁻⁰⁴
Coke Oven Gas	4.8 × 10 ⁻⁰⁴	1.0 × 10 ⁻⁰⁴
Biomass Fuels—Solid (All fuel types in Table C-1, except wood and wood residuals)	3.2 × 10 ⁻⁰²	4.2 × 10 ⁻⁰³
Wood and wood residuals	7.2 × 10 ⁻⁰³	3.6 × 10 ⁻⁰³
Biomass Fuels—Gaseous (All fuel types in	3.2 × 10 ⁻⁰³	6.3 × 10 ⁻⁰⁴

Note: Those employing this table are assumed to fall under the IPCC definitions of the “Energy Industry” or “Manufacturing Industries and Construction”. In all fuels except for coal the values for these two categories are identical. For coal combustion, those who fall within the IPCC “Energy Industry” category may employ a value of 1g of CH₄/mmBtu.

¹ Reporters subject to subpart W of this part may only use the default CH₄ emission factor for natural gas-fired combustion units that are not reciprocating internal combustion engines or gas turbines. For natural gas-fired reciprocating internal combustion engines or gas turbines, at facilities subject to subpart W of this part, reporters must use a CH₄ emission factor determined in accordance with § 98.233(z)(4).

Fuel type	Default CH ₄ emission factor (kg CH ₄ /mmBtu)	Default N ₂ O emission factor (kg N ₂ O/mmBtu)
Table C-1) Biomass Fuels—Liquid (All fuel types in Table C-1)	1.1 × 10 ⁻⁰³	1.1 × 10 ⁻⁰⁴

Note: Those employing this table are assumed to fall under the IPCC definitions of the “Energy Industry” or “Manufacturing Industries and Construction”. In all fuels except for coal the values for these two categories are identical. For coal combustion, those who fall within the IPCC “Energy Industry” category may employ a value of 1g of CH₄/mmBtu.

¹ *Reporters subject to subpart W of this part may only use the default CH₄ emission factor for natural gas-fired combustion units that are not reciprocating internal combustion engines or gas turbines. For natural gas-fired reciprocating internal combustion engines or gas turbines, at facilities subject to subpart W of this part, reporters must use a CH₄ emission factor determined in accordance with § 98.233(z)(4).*

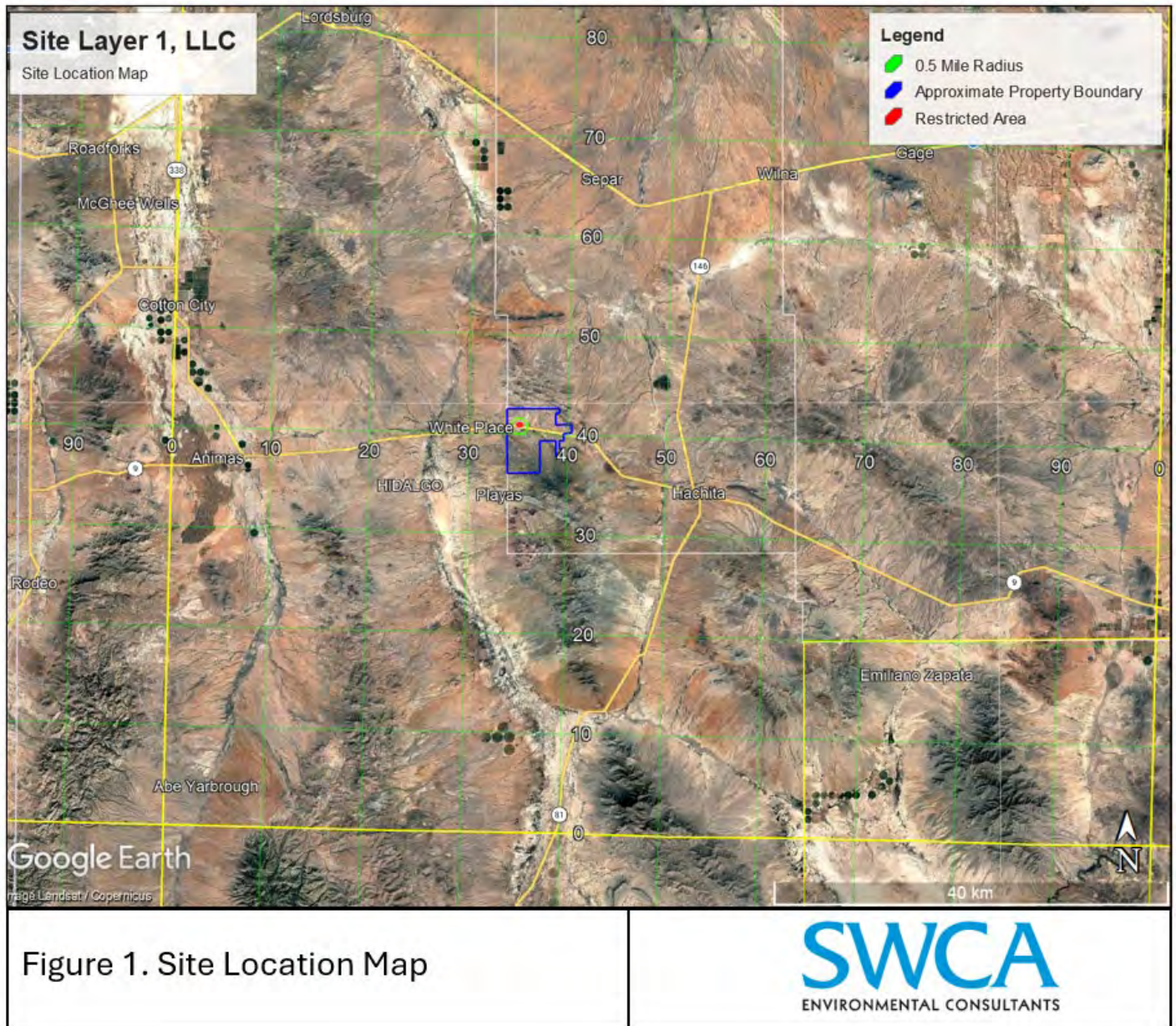
[78 FR 71952, Nov. 29, 2013, as amended at 81 FR 89252, Dec. 9, 2016; 89 FR 42220, May 14, 2024]

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	



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")

x 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.

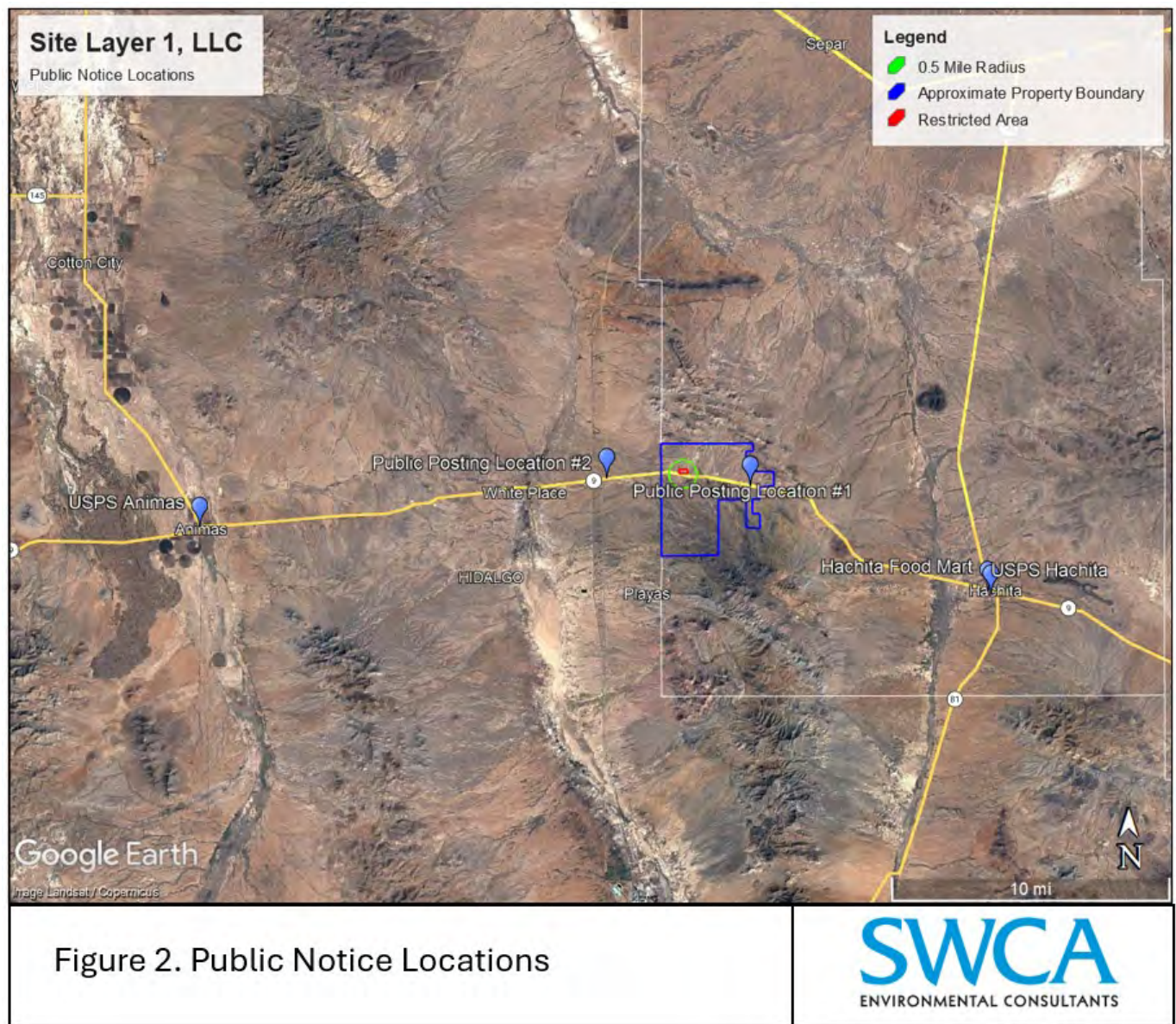
New Permit and **Significant Permit Revision** public notices must include all items in this list.

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

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

1. x A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
 2. x 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. x 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. x A sample of the letters sent to counties, municipalities, and Indian tribes.
 6. x A sample of the public notice posted and a verification of the local postings.
 7. x A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
 8. x A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
 9. x 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. x 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. x 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.
-

A map is attached as Figure 2 detailing the locations where notice was posted to the public. There were no residents within 0.5 miles of the restricted area.



Copy of Certified Letter Receipts with Postmark

9589 0710 5270 3642 6731 58

U.S. Postal ServiceTM
CERTIFIED MAIL[®] RECEIPT
Domestic Mail Only

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

Silver City, NM 88062

Certified Mail Fee \$5.55

\$0.00

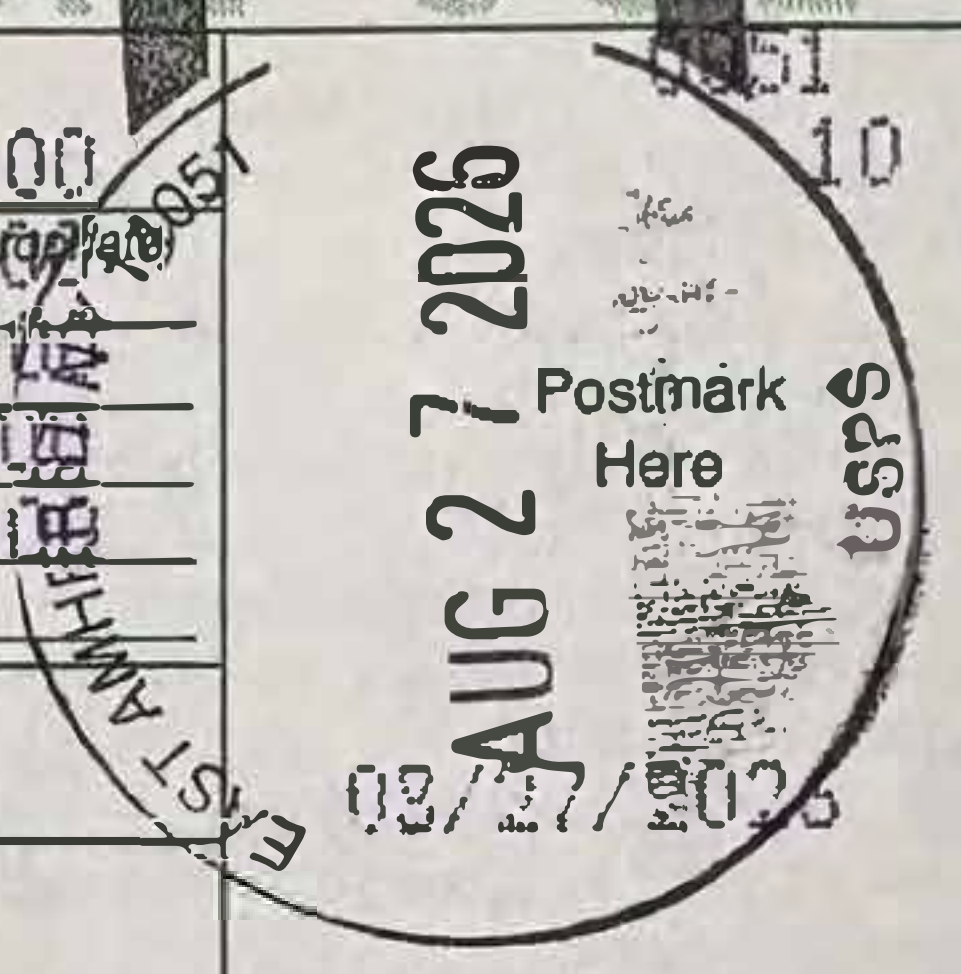
Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.82

Total Postage and Fees \$6.37

Sent To County Manager Charlene Wells
Street and Apt. No., or PO Box No.
P.O. Box 898
City, State, ZIP+4[®] Silver City, NM 88062



9589 0710 5270 3642 6731 34

U.S. Postal ServiceTM
CERTIFIED MAIL[®] RECEIPT
Domestic Mail Only

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

Lordsburg, NM 88045

Certified Mail Fee \$5.55

\$0.00

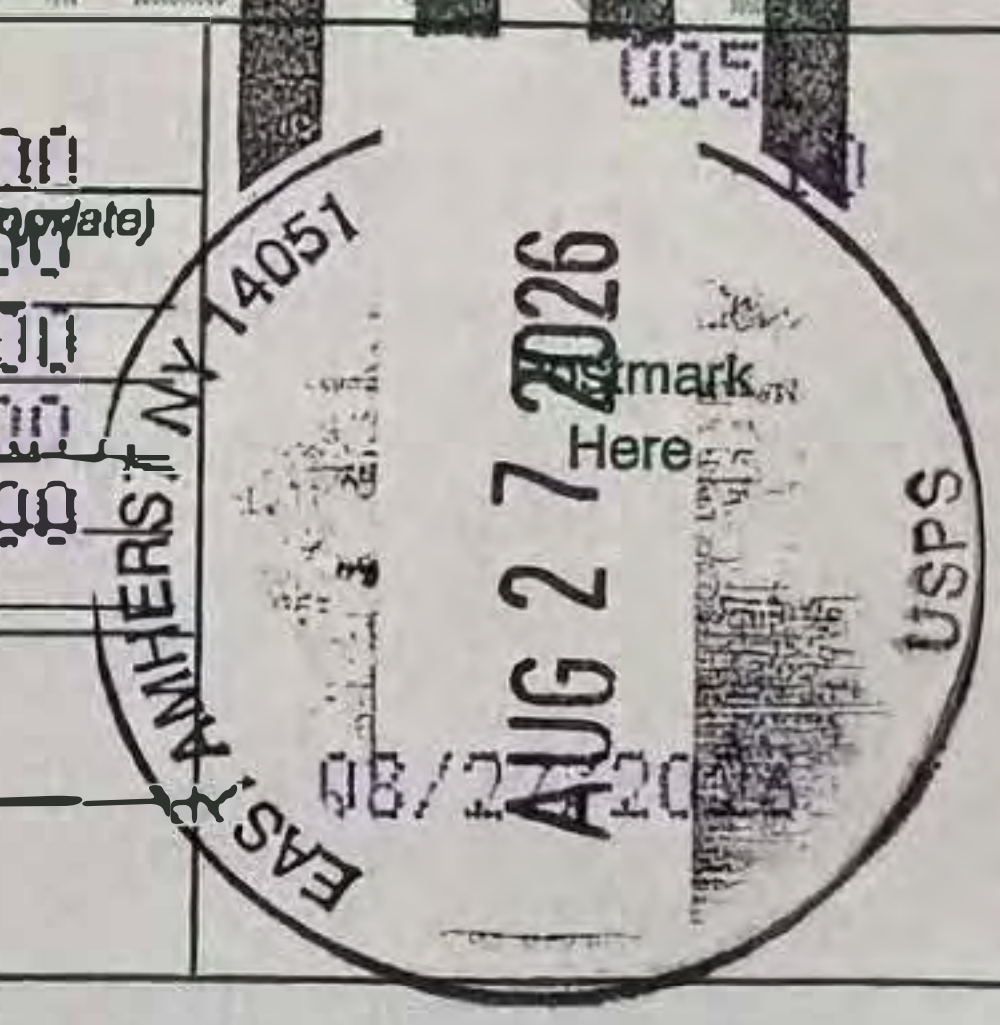
Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$0.82

Total Postage and Fees \$6.37

Sent To County Manager Tisha Green
Street and Apt. No., or PO Box No. 305 Pyramid St.
City, State, ZIP+4[®] Lordsburg, NM 88045



Places Where Notice Has Been Posted

Table of Posted Notice Locations

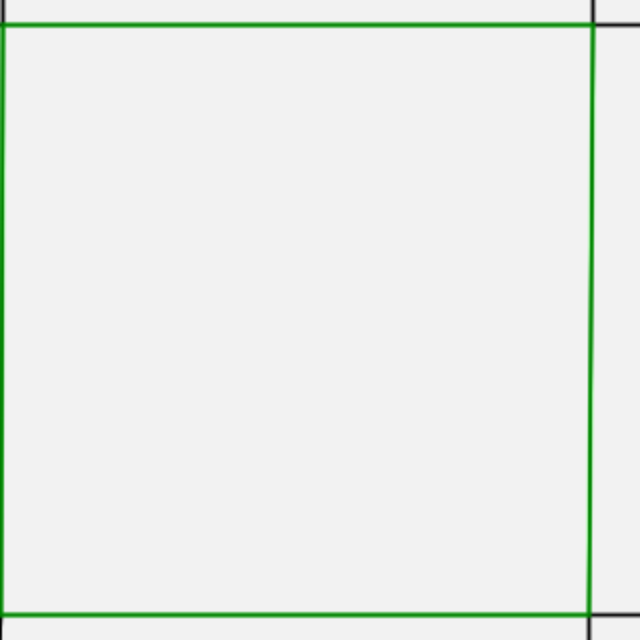
Name	Address	City	State	Zip Code
Public Posting Location #1	31.973181 deg N, -108.470452 deg W			
Public Posting Location #2	31.977129 deg N, -108.558255 deg W			
United States Postal Service	26 B St.	Hachita	NM	88040
Hachita Food Mart	4398 NM-9	Hachita	NM	88040
United States Postal Service	2415 State Highway 338	Animas	NM	88020

Copy of Property Tax Record

Account: R087308

Location	Owner Information	Assessment History
Account Number R087308	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,304
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-095-160-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 20 T: 27S R: 16W		LAND-GRZ \$2,304 \$768 640.000
NEQ Quarter: SE S: 20 T: 27S R: 16W SEQ Quarter: SW S: 20 T: 27S R: 16W SWQ Quarter: NW S: 20 T: 27S R: 16W NWQ 640.00 AC		

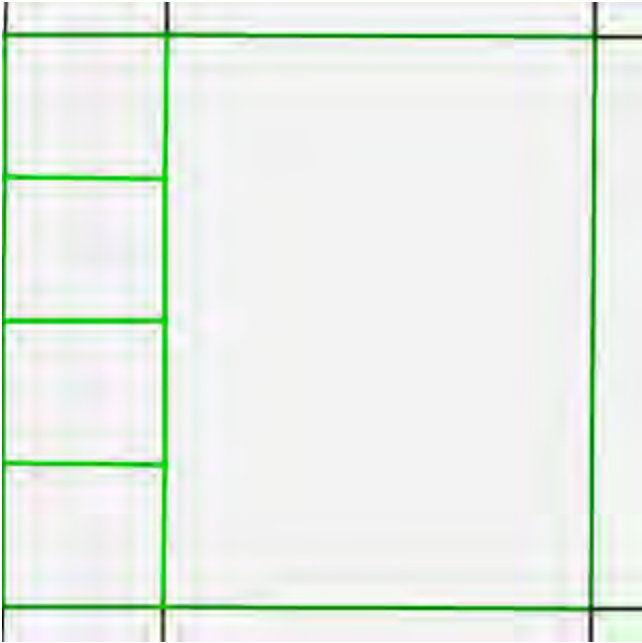
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.16	
2025 \$19.16	

Account: R087310

Location	Owner Information	Assessment History
Account Number R087310	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,379
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$793
Parcel Number 3-096-159-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 18 T: 27S R: 16W		LAND-GRZ \$2,379 \$793 660.840
NEQ Quarter: SE S: 18 T: 27S R: 16W SEQ Quarter:		
SW S: 18 T: 27S R: 16W GOV LOT 3 (NWSWQ)		
GOV LOT 4 (SWQSWQ) EHSWQ Quarter: NW S:		
18 T: 27S R: 16W GOV LOT 1 (NWQNWQ) GOV		
LOT 2 (SWQNWQ) EHNWQ 660.840 AC,		
LIVESTOCK P066860 SELF GRAZED		

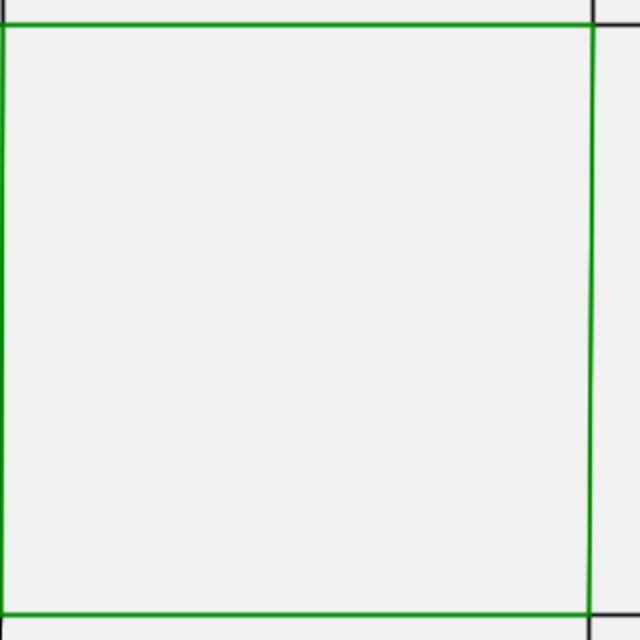
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.76	
2025 \$19.80	

Account: R087311

Location	Owner Information	Assessment History
Account Number R087311	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,304
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-095-159-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 17 T: 27S R: 16W		LAND-GRZ \$2,304 \$768 640.000
NEQ Quarter: SE S: 17 T: 27S R: 16W SEQ Quarter:		
SW S: 17 T: 27S R: 16W SWQ Quarter: NW S: 17 T:		
27S R: 16W NWQ 640.00 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.16	
2025 \$19.16	

Account: R087314

Location	Owner Information	Assessment History
Account Number R087314	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$1,728
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$576
Parcel Number 3-093-158-396-132	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 10 T: 27S R: 16W		LAND-GRZ \$1,728 \$576 480.000
NEQ Quarter: SW S: 10 T: 27S R: 16W SWQ		
Quarter: NW S: 10 T: 27S R: 16W NWQ 480.00 AC		

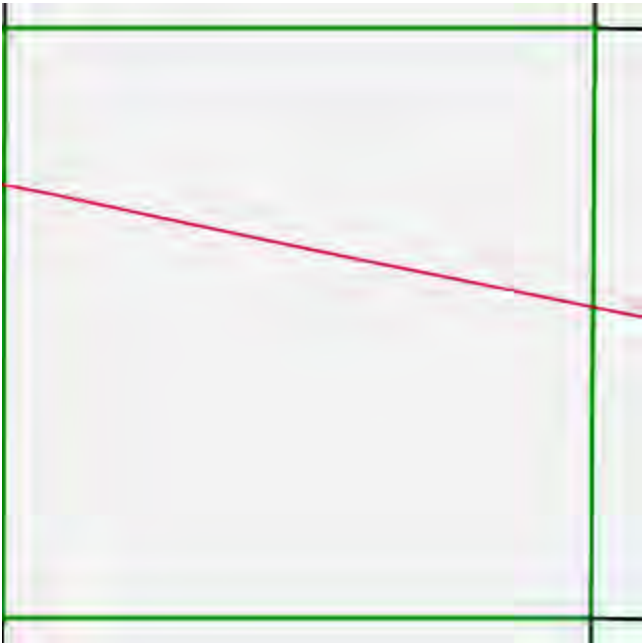
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$14.36	
2025 \$14.40	

Account: R087315

Location	Owner Information	Assessment History
Account Number R087315	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,304
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-094-158-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 09 T: 27S R: 16W		LAND-GRZ \$2,304 \$768 640.000
NEQ Quarter: SE S: 09 T: 27S R: 16W SEQ Quarter:		
SW S: 09 T: 27S R: 16W SWQ Quarter: NW S: 09 T:		
27S R: 16W NWQ 640.00 AC		

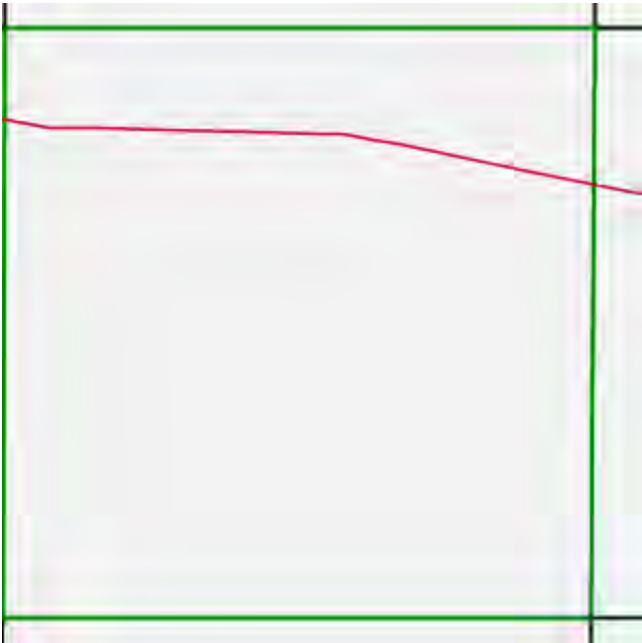
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.16	
2025 \$19.16	

Account: R087316

Location	Owner Information	Assessment History
Account Number R087316	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,304
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-095-158-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 08 T: 27S R: 16W		LAND-GRZ \$2,304 \$768 640.000
NEQ Quarter: SE S: 08 T: 27S R: 16W SEQ Quarter:		
SW S: 08 T: 27S R: 16W SWQ Quarter: NW S: 08 T:		
27S R: 16W NWQ 640.00 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.16	
2025 \$19.16	

Account: R087317

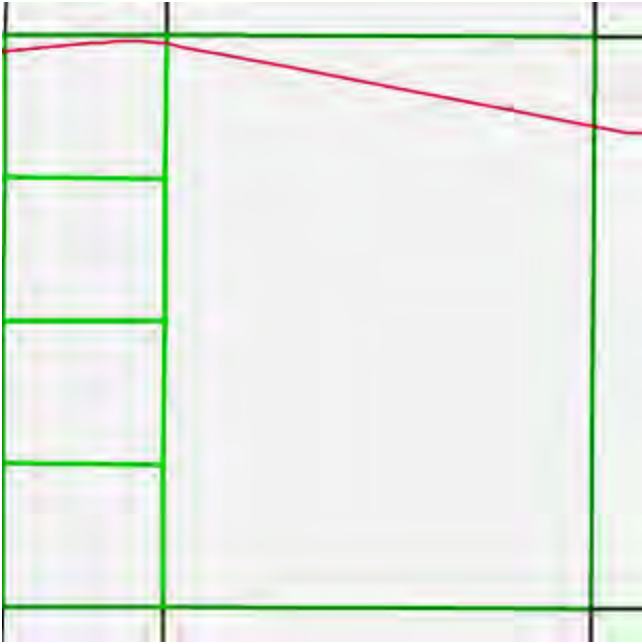
Location	Owner Information	Assessment History
Account Number R087317	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,376
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$792
Parcel Number 3-096-158-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 07 T: 27S R: 16W		LAND-GRZ \$2,376 \$792 660.080
NEQ Quarter: SE S: 07 T: 27S R: 16W SEQ Quarter: SW S: 07 T: 27S R: 16W GOV LOT 3 (NWQSWQ) GOV LOT 4 (SWQSWQ) EHSWQ Quarter: NW S: 07 T: 27S R: 16W GOV LOT 1 (NWQNWQ) GOV LOT 2 (SWQNWQ) EHNWQ 660.080 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
-------------	--------

Tax Year	Taxes
2026	\$19.76
2025	\$19.76

- [GIS](#)



Account: R087318

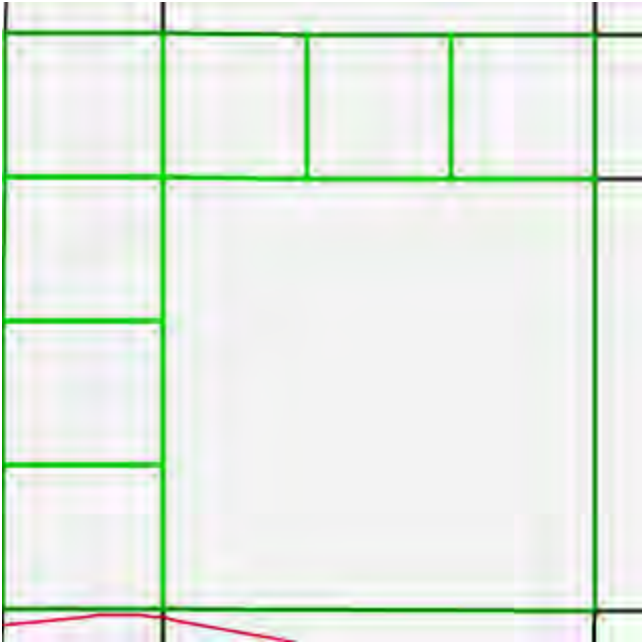
Location	Owner Information	Assessment History		
Account Number R087318	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026)	\$2,370	
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable	\$790	
Parcel Number 3-096-157-264-264	DEMING, NM 88031	Tax Area: 01O_NR	Tax Rate:	
Situs Address		0.024935		
Legal Summary Quarter: NE S: 06 T: 27S R: 16W		Type	Actual	Assessed Acres
GOV LOT 1 (NEQNEQ) GOV LOT 2 (NWQNEQ)		LAND-		
SHNEQ Quarter: SE S: 06 T: 27S R: 16W SEQ		GRZ	\$2,370	\$790 658.250
Quarter: SW S: 06 T: 27S R: 16W SWQ Quarter: NW				
S: 06 T: 27S R: 16W GOV LOT 3 (NEQNWQ) GOV				
LOT 4 (NWQNWQ) SHNWQ 658.250 AC				

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
-------------	--------

Tax Year	Taxes
2026	\$19.68
2025	\$19.72

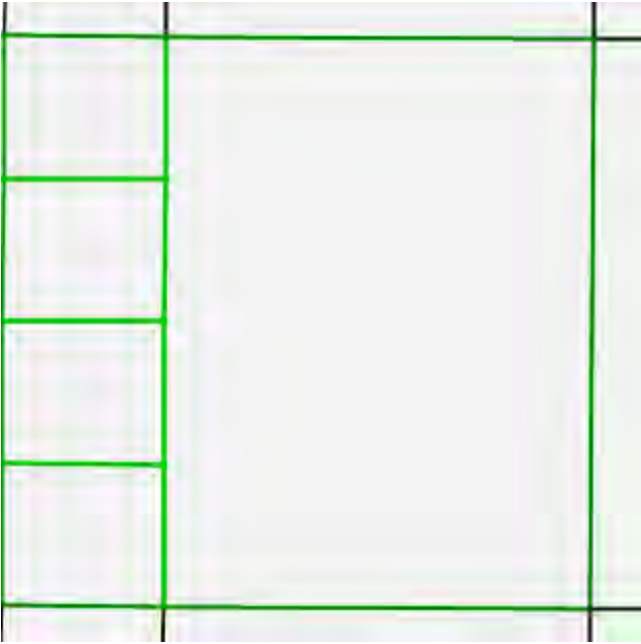
- [GIS](#)



Account: R087319

Location	Owner Information	Assessment History
Account Number R087319	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,381
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$794
Parcel Number 3-096-160-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 19 T: 27S R: 16W		LAND-GRZ \$2,381 \$794 661.520
NEQ Quarter: SE S: 19 T: 27S R: 16W SEQ Quarter: SW S: 19 T: 27S R: 16W GOV LOT 3 (NWQSWQ) GOV LOT 4 (SWQSWQ) EHSWQ Quarter: NW S: 19 T: 27S R: 16W GOV LOT 1 (NWQNWQ) GOV LOT 2 (SWQNWQ) EHNWQ 661.520 AC		

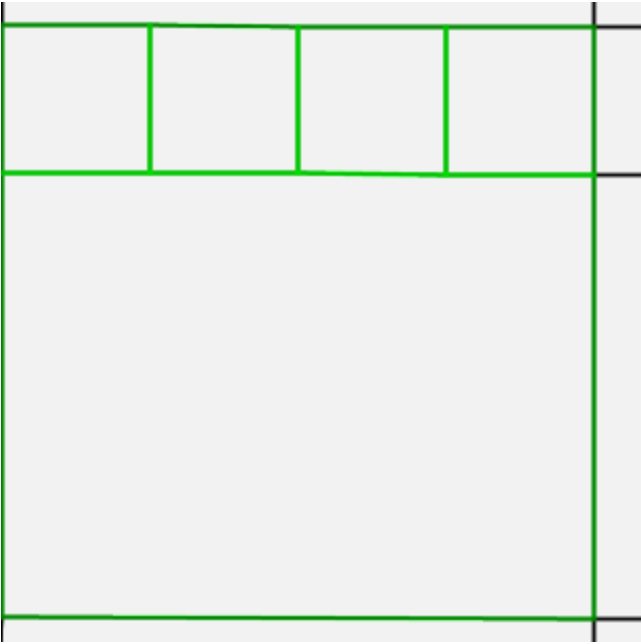
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.80	
2025 \$19.84	

Account: R087320

Location	Owner Information	Assessment History			
Account Number R087320	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026)		\$2,301	
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable		\$767	
Parcel Number 3-094-157-264-264	DEMING, NM 88031	Tax Area: 01O_NR		Tax Rate:	
Situs Address		0.024935			
Legal Summary Quarter: NE S: 04 T: 27S R: 16W		Type	Actual	Assessed	Acres
GOV LOT 1 (NEQNEQ) GOV LOT 2 (NWQNEQ)		LAND-	\$2,301	\$767	639.200
SHNEQ Quarter: SE S: 04 T: 27S R: 16W SEQ		GRZ			
Quarter: SW S: 04 T: 27S R: 16W SWQ Quarter: NW					
S: 04 T: 27S R: 16W GOV LOT 3 (NEQNWQ) GOV					
LOT 4 (NWQNWQ) SHNWQ 639.200 AC					

Protest	Transfers
No Protests	No Transfer Documents

Tax History			Images
Tax Year	Taxes		GIS
	2026	\$19.12	
	2025	\$19.16	

Account: R087321

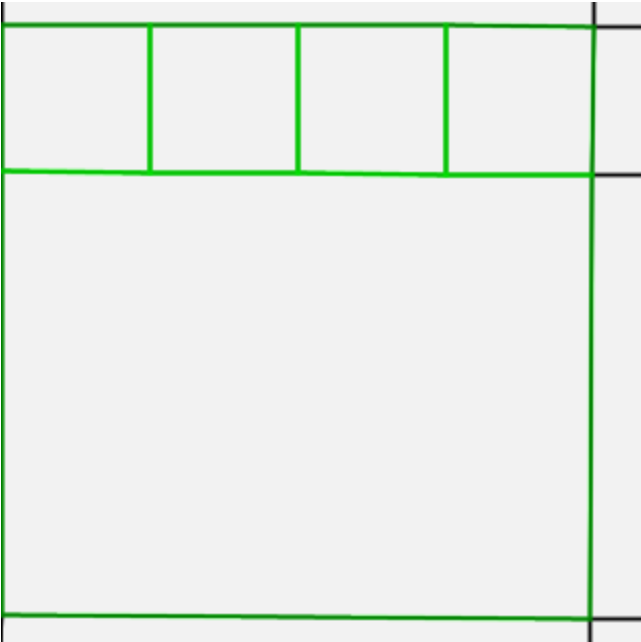
Location	Owner Information	Assessment History
Account Number R087321	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,305
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-093-157-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 03 T: 27S R: 16W		LAND-GRZ \$2,305 \$768 640.240
GOV LOT 1 (NEQNEQ) GOV LOT 2 (NWQNEQ)		
SHNEQ Quarter: SE S: 03 T: 27S R: 16W SEQ		
Quarter: SW S: 03 T: 27S R: 16W SWQ Quarter: NW		
S: 03 T: 27S R: 16W GOV LOT 3 (NEQNWQ) GOV		
LOT 4 (NWQNWQ) SHNWQ 640.240 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
-------------	--------

Tax Year	Taxes
2026	\$19.16
2025	\$19.16

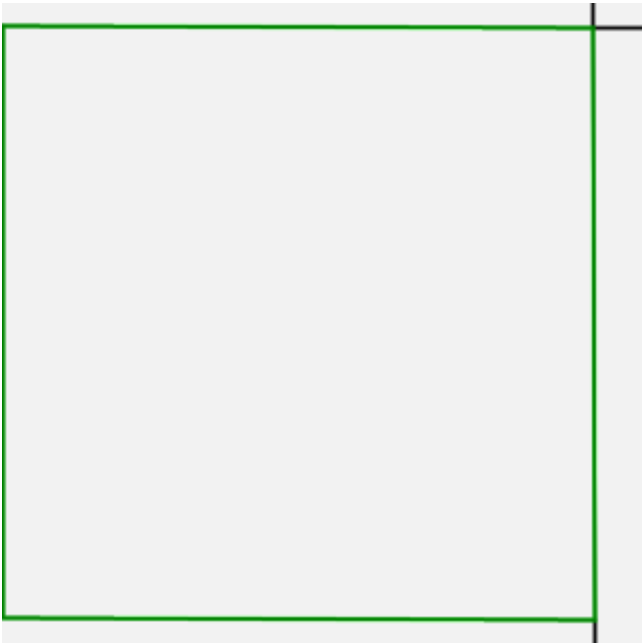
- [GIS](#)



Account: R087327

Location	Owner Information	Assessment History
Account Number R087327	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$576
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$192
Parcel Number 3-089-159-132-132	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 17 T: 27S R: 15W		LAND-GRZ \$576 \$192 160.000
NEQ 160.00 AC		

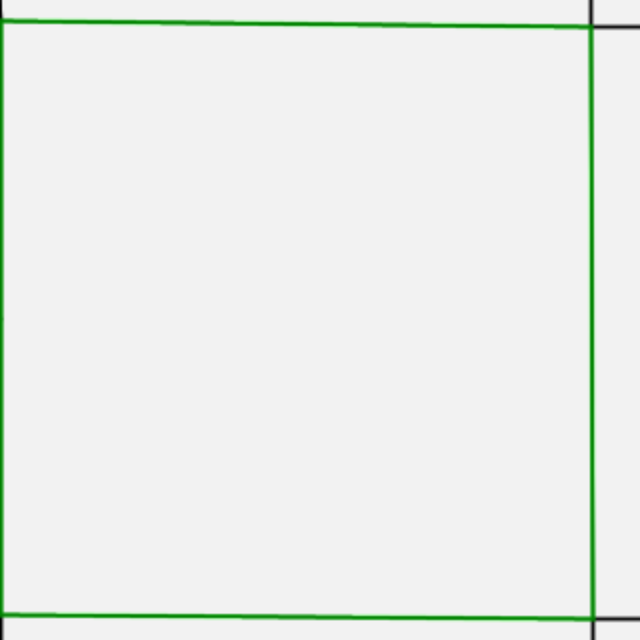
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$4.80	
2025 \$4.80	

Account: R087328

Location	Owner Information	Assessment History
Account Number R087328	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,304
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-088-159-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 16 T: 27S R: 15W		LAND-GRZ \$2,304 \$768 640.000
NEQ Quarter: SE S: 16 T: 27S R: 15W SEQ Quarter: SW S: 16 T: 27S R: 15W SWQ Quarter: NW S: 16 T: 27S R: 15W NWQ 640.00 AC		

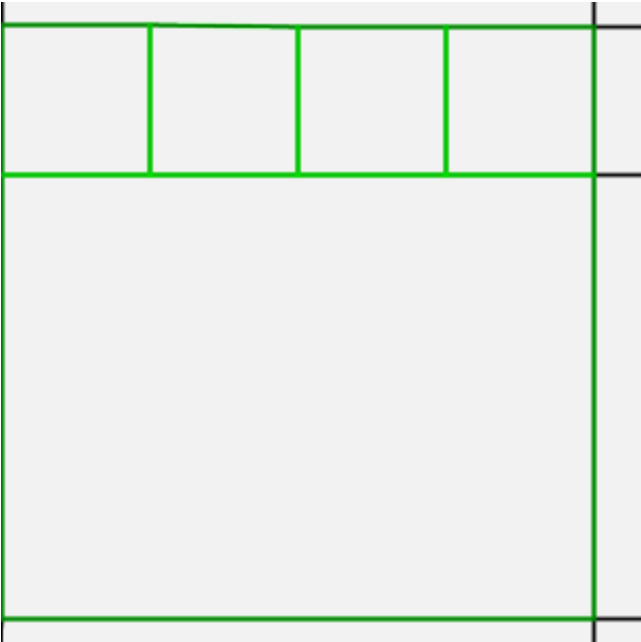
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.16	
2025 \$19.16	

Account: R087329

Location	Owner Information	Assessment History
Account Number R087329	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,305
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-095-157-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 05 T: 27S R: 16W		LAND-GRZ \$2,305 \$768 640.240
GOV LOT 1 (NEQNEQ) GOV LOT 2 (NWQNEQ)		
SHNEQ Quarter: SE S: 05 T: 27S R: 16W SEQ		
Quarter: SW S: 05 T: 27S R: 16W SWQ Quarter: NW		
S: 05 T: 27S R: 16W GOV LOT 3 (NEQNWQ) GOV		
LOT 4 (NWQNWQ) SHNWQ 640.240 AC		

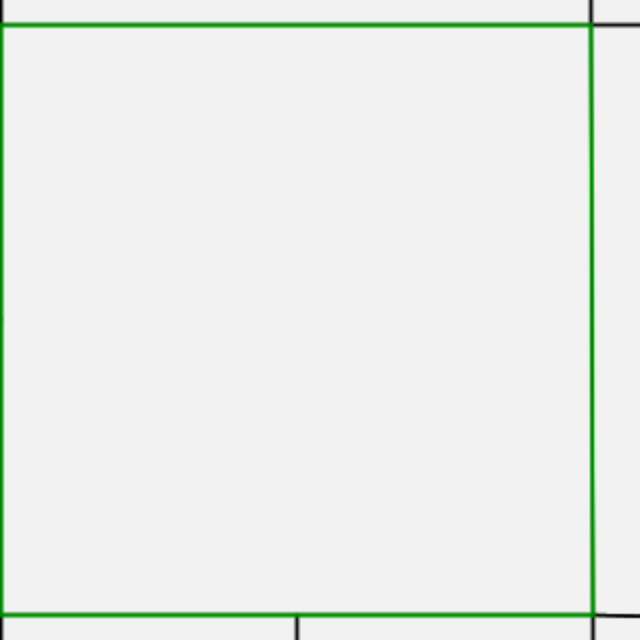
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.16	
2025 \$19.16	

Account: R087332

Location	Owner Information	Assessment History
Account Number R087332	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,304
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-089-158-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 08 T: 27S R: 15W		LAND-GRZ \$2,304 \$768 640.000
NEQ Quarter: SE S: 08 T: 27S R: 15W SEQ Quarter:		
SW S: 08 T: 27S R: 15W SWQ Quarter: NW S: 08 T:		
27S R: 15W NWQ 640.00 AC		

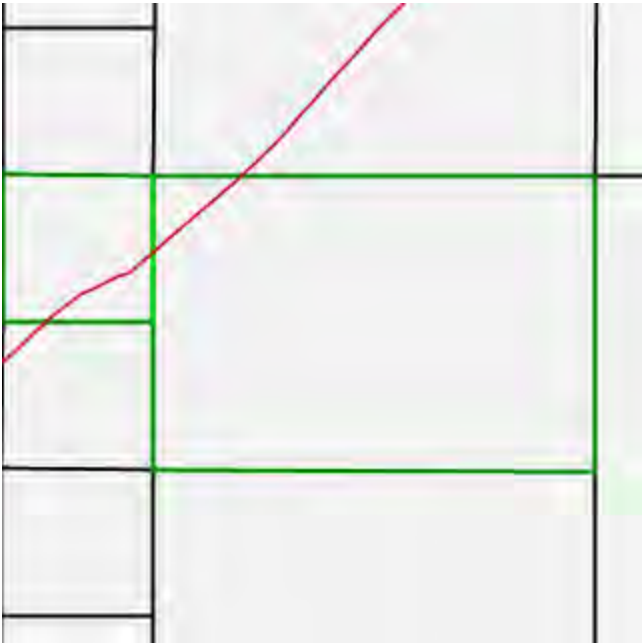
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.16	
2025 \$19.16	

Account: R087333

Location	Owner Information	Assessment History
Account Number R087333	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$1,011
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$337
Parcel Number 3-090-158-165-132	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 07 T: 27S R: 15W		LAND-GRZ \$1,011 \$337 280.930
NEQ Quarter: NW S: 07 T: 27S R: 15W GOV LOT 1		
(NWQNWQ) EHNWQ 280.930 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$8.40	
2025 \$8.40	

Account: R087335

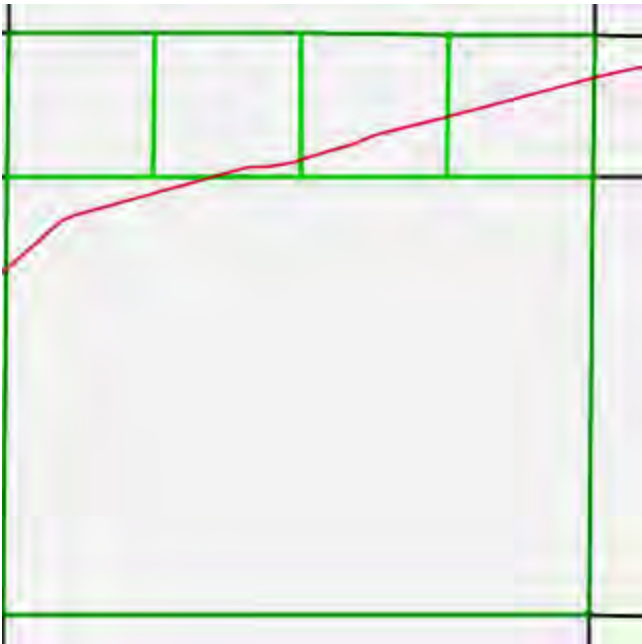
Location	Owner Information	Assessment History
Account Number R087335	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,290
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$763
Parcel Number 3-089-157-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 05 T: 27S R: 15W		LAND-GRZ \$2,290 \$763 636.160
GOV LOT 1 (NEQNEQ) GOV LOT 2 (NWQNEQ)		
SHNEQ Quarter: SE S: 05 T: 27S R: 15W SEQ		
Quarter: SW S: 05 T: 27S R: 15W SWQ Quarter: NW		
S: 05 T: 27S R: 15W GOV LOT 3 (NEQNWQ) GOV		
LOT 4 (NWQNWQ) SHNWQ 636.160 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
-------------	--------

Tax Year	Taxes
2026	\$19.04
2025	\$19.04

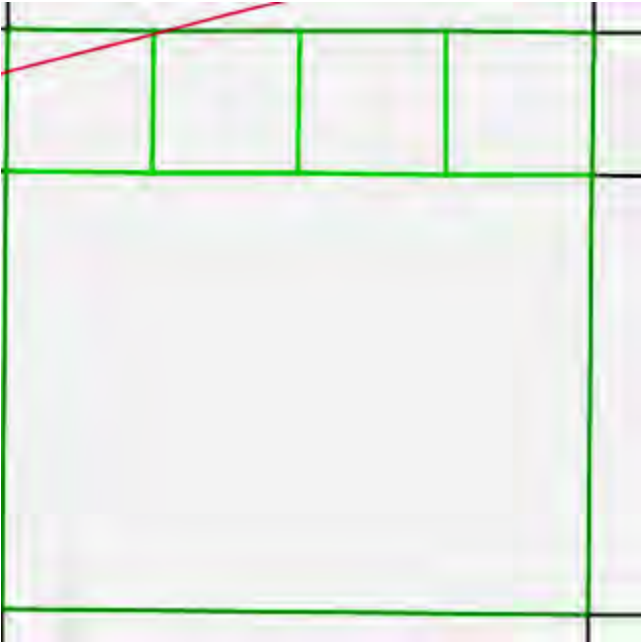
- [GIS](#)



Account: R087336

Location	Owner Information	Assessment History
Account Number R087336	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,288
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$763
Parcel Number 3-088-157-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 04 T: 27S R: 15W		LAND-GRZ \$2,288 \$763 635.480
GOV LOT 1 (NEQNEQ) GOV LOT 2 (NWQNEQ)		
SHNEQ Quarter: SE S: 04 T: 27S R: 15W SEQ		
Quarter: SW S: 04 T: 27S R: 15W SWQ Quarter: NW		
S: 04 T: 27S R: 15W GOV LOT 3 (NEQNWQ) GOV		
LOT 4 (NWQNWQ) SHNWQ 635.480 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.04	
2025 \$19.04	

Account: R087337

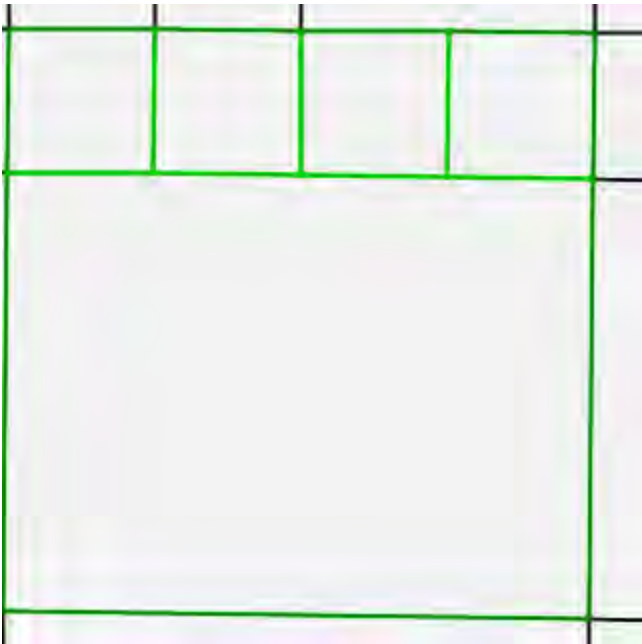
Location	Owner Information	Assessment History
Account Number R087337	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,300
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$767
Parcel Number 3-087-157-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 03 T: 27S R: 15W		LAND-GRZ \$2,300 \$767 638.840
GOV LOT 1 (NEQNEQ) GOV LOT 2 (NWQNEQ)		
SHNEQ Quarter: SE S: 03 T: 27S R: 15W SEQ		
Quarter: SW S: 03 T: 27S R: 15W SWQ Quarter: NW		
S: 03 T: 27S R: 15W GOV LOT 3 (NEQNWQ) GOV		
LOT 4 (NWQNWQ) SHNWQ 638.840 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
-------------	--------

Tax Year	Taxes
2026	\$19.12
2025	\$19.16

- [GIS](#)



Account: R087339

Location	Owner Information	Assessment History
Account Number R087339	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$2,304
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$768
Parcel Number 3-087-159-264-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 15 T: 27S R: 15W		LAND-GRZ \$2,304 \$768 640.000
NEQ Quarter: SE S: 15 T: 27S R: 15W SEQ Quarter:		
SW S: 15 T: 27S R: 15W SWQ Quarter: NW S: 15 T:		
27S R: 15W NWQ 640.00 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$19.16	
2025 \$19.16	

Account: R087340

Location	Owner Information	Assessment History
Account Number R087340	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$1,152
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$384
Parcel Number 3-095-154-132-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: NE S: 20 T: 26S R: 16W		LAND-GRZ \$1,152 \$384 320.000
NEQ Quarter: SE S: 20 T: 26S R: 16W SEQ 320.00 AC		

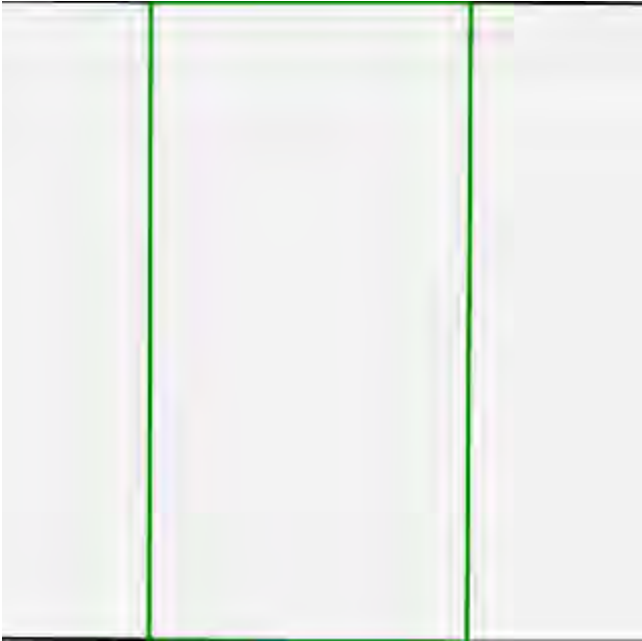
Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$9.56	
2025 \$9.60	

Account: R087349

Location	Owner Information	Assessment History
Account Number R087349	Owner Name HURT CATTLE COMPANY INC	Actual Value (2026) \$1,152
Tax Area 01O_NR - 01O_NR	Owner Address PO BOX 189	Primary Taxable \$384
Parcel Number 3-094-154-396-264	DEMING, NM 88031	Tax Area: 01O_NR Tax Rate: 0.024935
Situs Address		Type Actual Assessed Acres
Legal Summary Quarter: SW S: 21 T: 26S R: 16W		LAND-GRZ \$1,152 \$384 320.000
SWQ Quarter: NW S: 21 T: 26S R: 16W NWQ		
320.00 AC		

Protest	Transfers
No Protests	No Transfer Documents

Tax History	Images
Tax Year Taxes	GIS
2026 \$9.56	
2025 \$9.60	

Samples of Letters Sent to Counties

August 27, 2026

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dear **Grant County Manager Charlene Webb**,

Site Layer 1, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the **construction** of its **data center powered by natural-gas fired electrical power generation** facility. The expected date of application submittal to the Air Quality Bureau is **October 1, 2026**.

The exact location for the proposed facility known as **Site Layer 1** will be at **31.980165 dec deg North and longitude -108.511324 dec deg West**. The approximate location of this facility is **2.8 miles East** of the intersection of NM-9 and NM-113/Muir Rd in **Grant County**.

The proposed **construction** consists of thirty-two (32) Wartsila 20V34SG internal combustion engines (ICE), each rated at approximately 9.4 MW, fired exclusively on clean-burning, pipeline-quality natural gas. Each ICE will be equipped with selective catalytic reduction (SCR) and oxidation catalyst controls to minimize air emissions. Ancillary emission sources associated with the Project include an ammonia storage tank for the SCR control system and minor fugitive emissions from ammonia and natural gas piping components. No other combustion or process emission sources are anticipated.

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
Particulate Matter (PM)	74 pph	225 tpy
PM ₁₀	74 pph	225 tpy
PM _{2.5}	74 pph	225 tpy
Sulfur Dioxide (SO ₂)	37 pph	9 tpy
Nitrogen Oxides (NO _x)	152 pph	184 tpy
Carbon Monoxide (CO)	219 pph	241 tpy
Volatile Organic Compounds (VOC)	69 pph	238 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	10 pph	42 tpy
Ammonia (NH ₃)	32 pph	140 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	1,292,118 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, and a maximum of 52 weeks per year.

Owners and operators of the facility include:

**Site Layer 1, LLC;
126 E 56th Street, 7th Floor
New York, NY 10022**

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.

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.

Sincerely,

Site Layer 1, 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.

August 27, 2026

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dear **Hidalgo County Manager Tisha Green,**

Site Layer 1, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the **construction** of its **data center powered by natural-gas fired electrical power generation** facility. The expected date of application submittal to the Air Quality Bureau is **October 1, 2026**.

The exact location for the proposed facility known as **Site Layer 1** will be at **31.980165 dec deg North and longitude -108.511324 dec deg West**. The approximate location of this facility is **2.8 miles East** of the intersection of NM-9 and NM-113/Muir Rd in **Grant** County.

The proposed **construction** consists of thirty-two (32) Wartsila 20V34SG internal combustion engines (ICE), each rated at approximately 9.4 MW, fired exclusively on clean-burning, pipeline-quality natural gas. Each ICE will be equipped with selective catalytic reduction (SCR) and oxidation catalyst controls to minimize air emissions. Ancillary emission sources associated with the Project include an ammonia storage tank for the SCR control system and minor fugitive emissions from ammonia and natural gas piping components. No other combustion or process emission sources are anticipated.

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
Particulate Matter (PM)	74 pph	225 tpy
PM ₁₀	74 pph	225 tpy
PM _{2.5}	74 pph	225 tpy
Sulfur Dioxide (SO ₂)	37 pph	9 tpy
Nitrogen Oxides (NO _x)	152 pph	184 tpy
Carbon Monoxide (CO)	219 pph	241 tpy
Volatile Organic Compounds (VOC)	69 pph	238 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	10 pph	42 tpy
Ammonia (NH ₃)	32 pph	140 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	1,292,118 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, and a maximum of 52 weeks per year.

Owners and operators of the facility include:

**Site Layer 1, LLC;
126 E 56th Street, 7th Floor
New York, NY 10022**

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.

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.

Sincerely,

Site Layer 1, 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.

August 27, 2026

CERTIFIED MAIL 9589 0710 5270 3642 6731 58
RETURN RECEIPT REQUESTED

Dear **Grant County Manager Charlene Webb**,

Site Layer 1, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the **construction** of its **data center powered by natural-gas fired electrical power generation** facility. The expected date of application submittal to the Air Quality Bureau is **October 1, 2026**.

The exact location for the proposed facility known as **Site Layer 1** will be at **31.980165 dec deg North and longitude -108.511324 dec deg West**. The approximate location of this facility is **2.8 miles East** of the intersection of NM-9 and NM-113/Muir Rd in **Grant County**.

The proposed **construction** consists of thirty-two (32) Wartsila 20V34SG internal combustion engines (ICE), each rated at approximately 9.4 MW, fired exclusively on clean-burning, pipeline-quality natural gas. Each ICE will be equipped with selective catalytic reduction (SCR) and oxidation catalyst controls to minimize air emissions. Ancillary emission sources associated with the Project include an ammonia storage tank for the SCR control system and minor fugitive emissions from ammonia and natural gas piping components. No other combustion or process emission sources are anticipated.

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
Particulate Matter (PM)	74 pph	225 tpy
PM ₁₀	74 pph	225 tpy
PM _{2.5}	74 pph	225 tpy
Sulfur Dioxide (SO ₂)	37 pph	9 tpy
Nitrogen Oxides (NO _x)	152 pph	184 tpy
Carbon Monoxide (CO)	219 pph	241 tpy
Volatile Organic Compounds (VOC)	69 pph	238 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	10 pph	42 tpy
Ammonia (NH ₃)	32 pph	140 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	1,292,118 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, and a maximum of 52 weeks per year.

August 27, 2026

CERTIFIED MAIL 9589 0710 5270 3642 6731 34

RETURN RECEIPT REQUESTED

Dear **Hidalgo County Manager Tisha Green,**

Site Layer 1, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the **construction** of its **data center powered by natural-gas fired electrical power generation** facility. The expected date of application submittal to the Air Quality Bureau is **October 1, 2026**.

The exact location for the proposed facility known as **Site Layer 1** will be at **31.980165 dec deg North and longitude -108.511324 dec deg West**. The approximate location of this facility is **2.8 miles East** of the intersection of NM-9 and NM-113/Muir Rd in **Grant County**.

The proposed **construction** consists of thirty-two (32) Wartsila 20V34SG internal combustion engines (ICE), each rated at approximately 9.4 MW, fired exclusively on clean-burning, pipeline-quality natural gas. Each ICE will be equipped with selective catalytic reduction (SCR) and oxidation catalyst controls to minimize air emissions. Ancillary emission sources associated with the Project include an ammonia storage tank for the SCR control system and minor fugitive emissions from ammonia and natural gas piping components. No other combustion or process emission sources are anticipated.

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
Particulate Matter (PM)	74 pph	225 tpy
PM ₁₀	74 pph	225 tpy
PM _{2.5}	74 pph	225 tpy
Sulfur Dioxide (SO ₂)	37 pph	9 tpy
Nitrogen Oxides (NO _x)	152 pph	184 tpy
Carbon Monoxide (CO)	219 pph	241 tpy
Volatile Organic Compounds (VOC)	69 pph	238 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	10 pph	42 tpy
Ammonia (NH ₃)	32 pph	140 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	1,292,118 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, and a maximum of 52 weeks per year.

General Posting of Notices – Certification

I, _____, the undersigned, certify that on **August 20, 2026**, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in various locations of **Grant and Hidalgo** Counties, State of New Mexico on the following dates:

1. Facility entrance [south side] - 8/20/26
2. Facility entrance [west side] - 8/20/26
3. United States Post Office, 26 B St., Hachita, NM 88040 – 8/20/26
4. Hachita Food Mart, 4398 NM-9, Hachita, NM 88040 – 8/20/26
5. United States Post Office, 2415 State Highway 338, Animas, NM 88020 – 8/20/26

Signed this ____ day of _____, _____.

D. Seifried

Signature

Date

Danielle Seifried
Printed Name

Field Personnel - SWCA
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

Sample of Public Notice Posted and Verification of Postings

NOTICE

Site Layer 1, LLC announces its application to the New Mexico Environment Department for an air quality permit for the **construction** of its **data center powered by natural-gas fired electrical power generation** facility. The expected date of application submittal to the Air Quality Bureau is **October 1, 2026**.

The exact location for the proposed facility, known as **Site Layer 1**, will be at **31.980165 dec deg North and longitude -108.511324 dec deg West**. The approximate location of this facility is **2.8 miles East** of the intersection of NM-9 and NM-113/Muir Rd in **Grant County**.

The proposed **construction** consists of thirty-two (32) Wartsila 20V34SG internal combustion engines (ICE), each rated at approximately 9.4 MW, fired exclusively on clean-burning, pipeline-quality natural gas. Each ICE will be equipped with selective catalytic reduction (SCR) and oxidation catalyst controls to minimize air emissions. Ancillary emission sources associated with the Project include an ammonia storage tank for the SCR control system and minor fugitive emissions from ammonia and natural gas piping components. No other combustion or process emission sources are anticipated.

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

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	74 pph	225 tpy
PM ₁₀	74 pph	225 tpy
PM _{2.5}	74 pph	225 tpy
Sulfur Dioxide (SO ₂)	37 pph	9 tpy
Nitrogen Oxides (NO _x)	152 pph	184 tpy
Carbon Monoxide (CO)	219 pph	241 tpy
Volatile Organic Compounds (VOC)	69 pph	238 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	10 pph	42 tpy
Ammonia (NH ₃)	32 pph	140 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	1,292,118 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, and a maximum of 52 weeks per year.

Owners and operators of the facility include:

Site Layer 1, LLC

126 E 56th Street, 7th Floor;

New York, NY 10022

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.



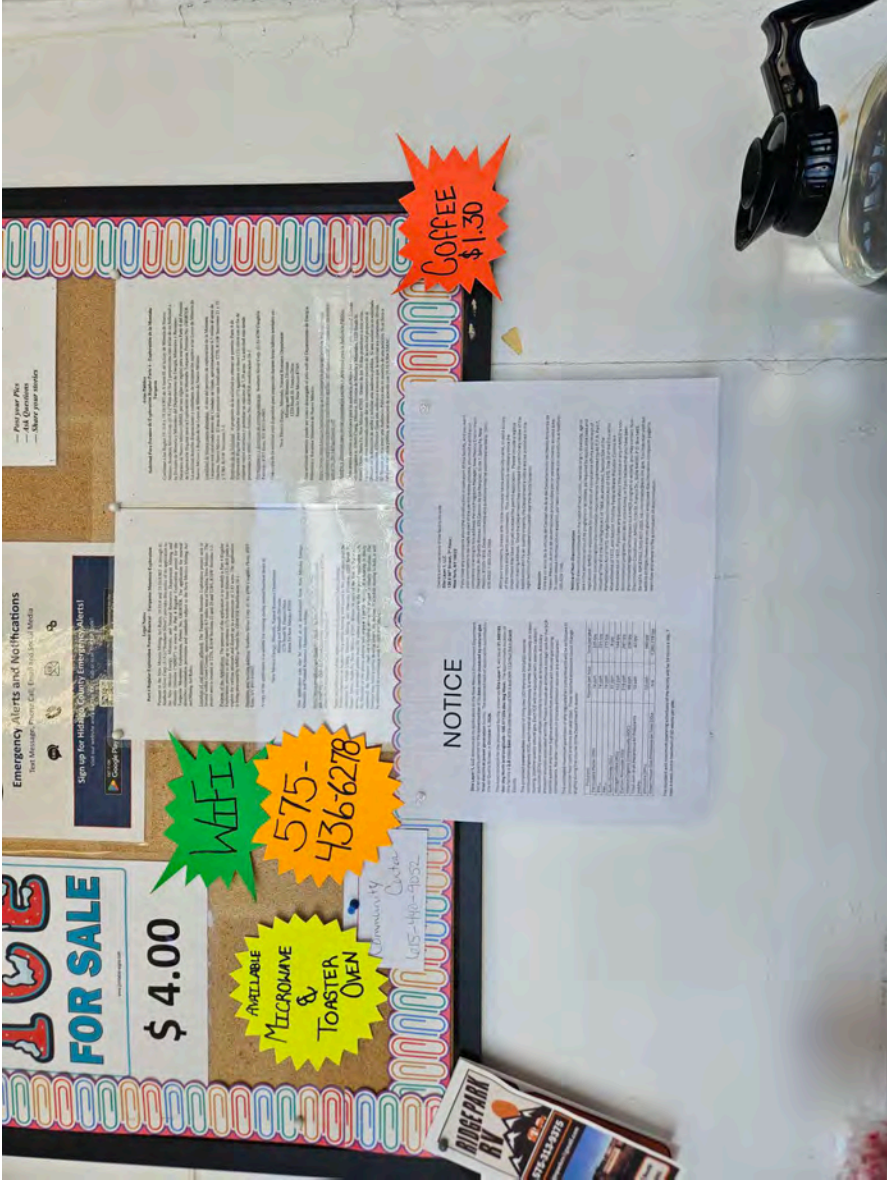
Public Posting Location #1
31.973181 deg N, -108.470452 deg W



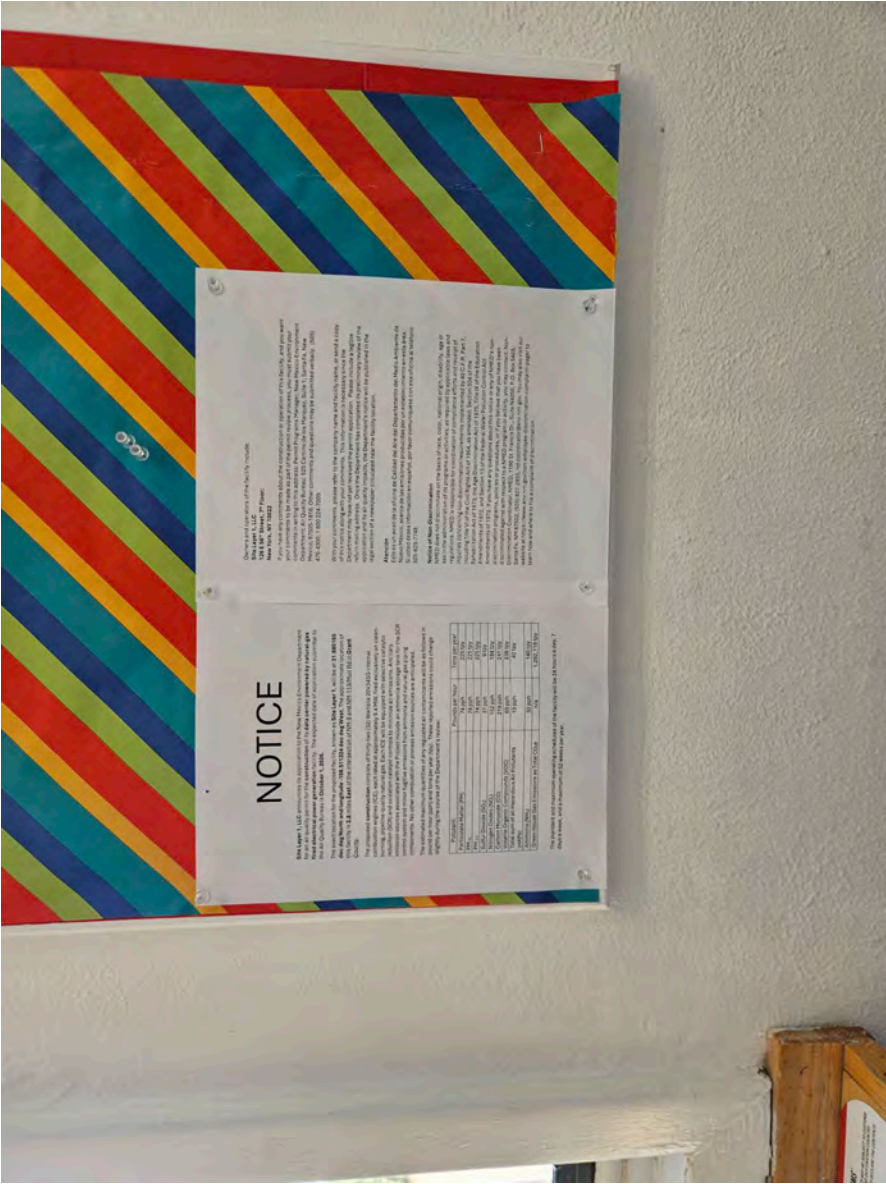
Public Posting Location #2
31.977129 deg N, -108.558255 deg W



USPS Hachita
26 B St.
Hachita, NM 88040



Hachita Food Mart
4398 NM-9
Hachita, NM 88040



NOTICE

Notice is hereby given that the Board of Directors of the City of Animas, New Mexico, has adopted the following resolution:

Resolved, That the Board of Directors of the City of Animas, New Mexico, do hereby authorize the City Manager to execute and deliver to the County of Santa Fe, New Mexico, a Certificate of Incorporation for the City of Animas, New Mexico, as provided for in the Charter of the City of Animas, New Mexico, and as provided for in the Charter of the County of Santa Fe, New Mexico.

Item	Amount	Total
1. City of Animas, New Mexico	\$100,000.00	\$100,000.00
2. County of Santa Fe, New Mexico	\$100,000.00	\$100,000.00
3. State of New Mexico	\$100,000.00	\$100,000.00
4. United States of America	\$100,000.00	\$100,000.00
5. Total	\$400,000.00	\$400,000.00

This resolution was adopted by the Board of Directors of the City of Animas, New Mexico, on the 15th day of May, 1990.

City of Animas, New Mexico

City Manager

It is hereby certified that the foregoing is a true and correct copy of the resolution of the Board of Directors of the City of Animas, New Mexico, as provided for in the Charter of the City of Animas, New Mexico, and as provided for in the Charter of the County of Santa Fe, New Mexico.

Witness my hand and the seal of the City of Animas, New Mexico, this 15th day of May, 1990.

Mayor

City of Animas, New Mexico

City Manager

It is hereby certified that the foregoing is a true and correct copy of the resolution of the Board of Directors of the City of Animas, New Mexico, as provided for in the Charter of the City of Animas, New Mexico, and as provided for in the Charter of the County of Santa Fe, New Mexico.

Witness my hand and the seal of the City of Animas, New Mexico, this 15th day of May, 1990.

Mayor

City of Animas, New Mexico

City Manager

USPS Animas
2415 State Highway 338
Animas, NM 88020

Table of Noticed Citizens, Counties, Municipalities and Tribes

Table of Notified Municipalities

Name	Address	City	State	Zip Code
There are no municipalities within 10 miles of the Proposed Facility Location				

Table of Notified Counties

Name	Address	City	State	Zip Code
Grant County - County Manager Charlene Webb	PO Box 898	Silver City	NM	88062
Hidalgo County - County Manager Tisha Green	305 Pyramid St	Lordsburg	NM	88045

Table of Notified Tribes

Name	Address	City	State	Zip Code
There are no Indian Tribes within 10 miles of the Proposed Facility Location				

Table of Notified Citizens

Name	Address	City	State	Zip Code
There are no residents within 0.5 miles of the Proposed Facility Location				

Copy of PSA and Proof of Submittal



SkyWest Media, LLC
P.O. Box 2577
Silver City, NM 88062
(575) 538-3396

KNFT-FM Invoice

Invoice ID: 26080018
Invoice Date: 8/25/2026
Account ID: 1211
Order ID: 1211-001
Account Rep: House Accounts

Amount Due: \$378.39

Amount Paid: _____

SWCA ENVIRONMENTAL CONSULTANTS
BUFFALO, NY 14221

Sponsor: SWCA Environmental Consultants for P.O./Estimate # Site Layer 1
(Air quality permit application for a data center facility)

Page 1

Date	Time	Length	Description	CopyID / ISCI Code	Cost
8/25/2026 8/25/2026	06:16 AM	2:00	Spot Package	SWCA (Air quality permit -Site Layer 1)	[Package] 350.00
1 Total Items				Total Cost:	\$350.00
				+ State, County, City Tax as of 7-1-23:	\$28.39
				Net Total:	\$378.39

AFFIDAVIT OF PERFORMANCE: I certify that, in accordance with the
Official Station Logs, announcements were broadcast as shown on this invoice.

Amount Due:

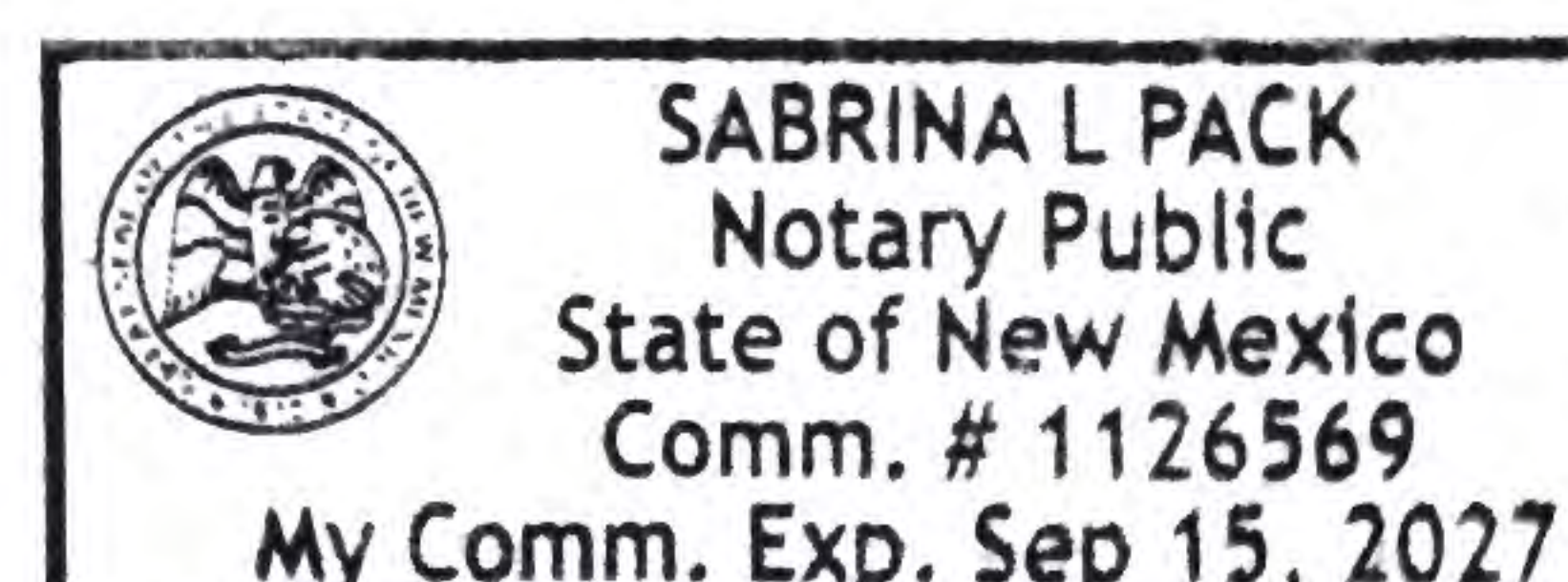
\$378.39

Sabrina Pack

STATE OF NEW MEXICO
COUNTY OF GRANT

Subscribed and sworn before me this 26 day of Aug 26

Sabrina Pack, Sabrina Pack NOTARY PUBLIC
Commission expires 9-15-2027



**STATION DOCUMENTATION APPROVED BY
THE ASSOCIATION OF NATIONAL ADVERTISERS**
Form at bottom of script indicates how many times script ran, at what cost

Station call letters: KNFT-FM

Client: SWCA Environmental Consultants

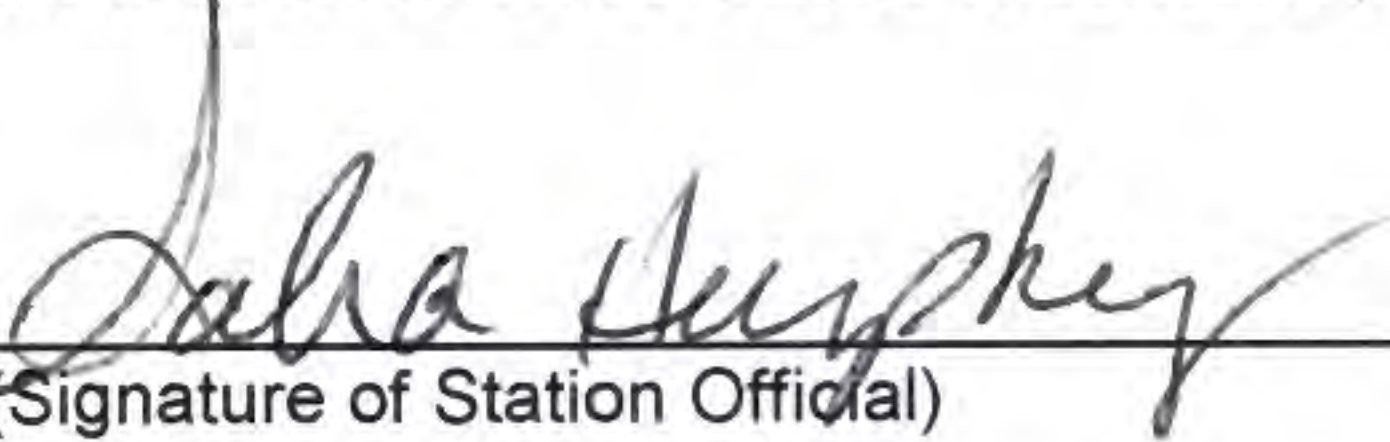
for:

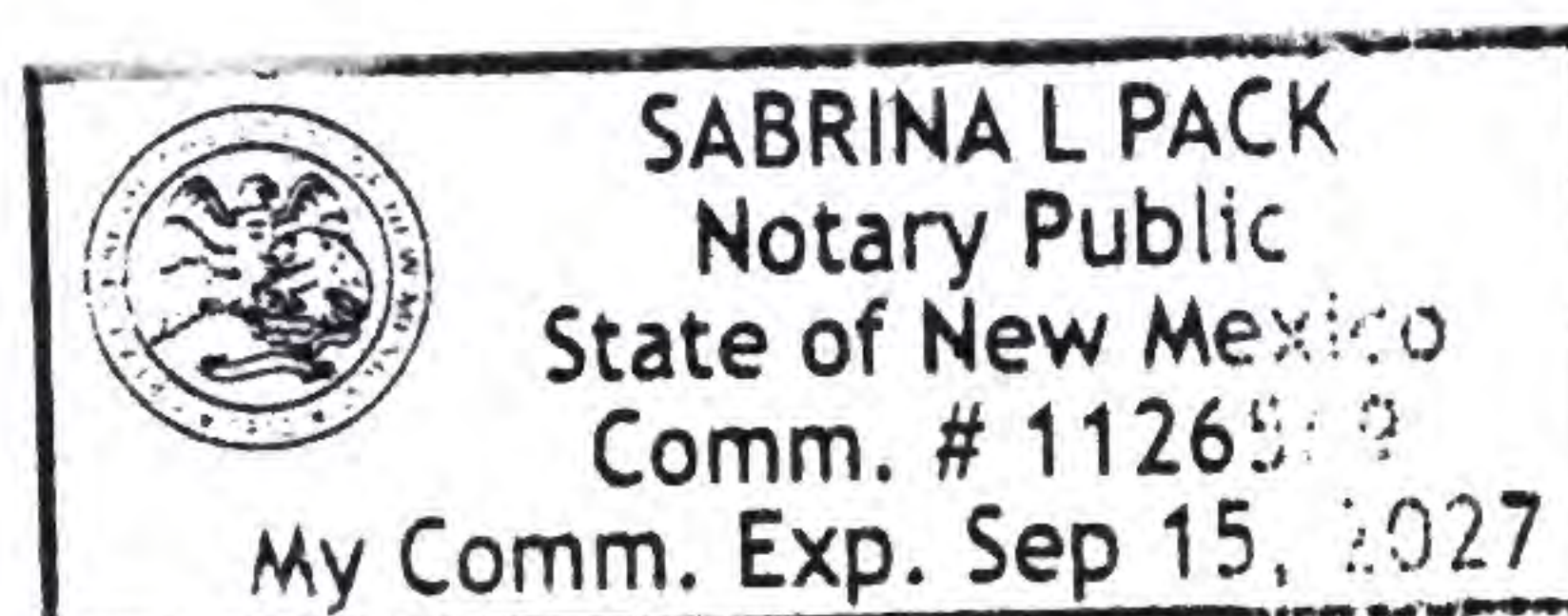
Begin: 8/25/2026 End: 8/25/2026

Date: 8/25/2026

This is a Public Service Announcement for an initial air quality permit application for a data center facility per the requirements of New Mexico Administrative Code 20.2.72.203.D. The name of the facility is Site Layer 1. The Site Layer 1 facility is located at the following coordinates: 31.980165 degrees North and -108.511324 degrees West. The principal owner and operator of Site Layer 1 is Site Layer 1, LLC. permit is sought for the proposed construction of a data center powered by natural-gas fired electrical power generation. Public notice has been posted near the project at the following locations: To the west of the proposed facility (31.977129 degrees North and -108.558255 degrees West), to the east of the proposed facility (31.973181 degrees North and - 108.470452 degrees West), the United States Post Office in Hachita located at 26 B St., in Hachita, New Mexico, Zip Code 88040, at the Hachita Food Mart located at 4398 NM-9 in Hachita, New Mexico, Zip Code 88040, and at the Playas Research and Training Center located at 1 Plaza Ave. in Playas, New Mexico, Zip Code 88009. Comments may be directed to the following address: Permits Program Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de las Marquez; Suite 1, Santa Fe, New Mexico, 87505-1816. Comments may be directed to the following telephone numbers: (505) 476-4300 or 1 (800) 224-7009.

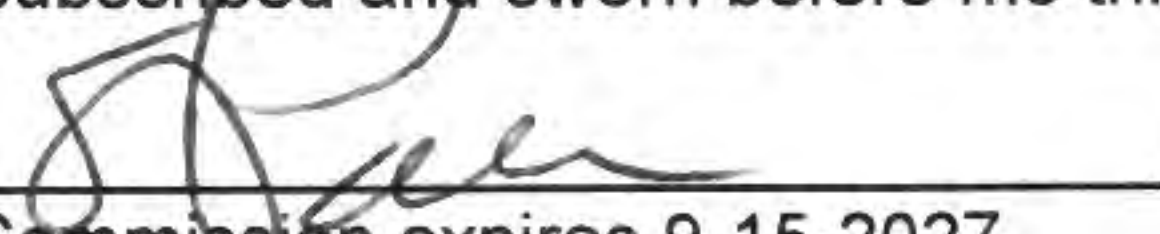
This announcement was broadcast a total of 1 times at the dates and times coded SWCA (Air quality permit -Site Layer 1) on our attached invoice number 26080018 dated 8/25/2026, as entered in the station's program log. This announcement was billed to this client at a total cost of \$350.00

 for KNFT-FM
(Signature of Station Official)



STATE OF NEW MEXICO
COUNTY OF GRANT

Subscribed and sworn before me this 26 day of Aug 2026

 Sabrina Pack NOTARY PUBLIC
Commission expires 9-15-2027

Copy of Newspaper Ads / Affidavit of Publication

Hidalgo County HERALD

A Division of Sunrise Design, LLC

212 E. Motel Dr. Suite B

Lordsburg, NM 88045

STATEMENT

Statement Date

8/31/2026

Billed To:

SWCA

Attn: Ellen Kraus

2929 N Central Ave Ste 1800

Phoenix, AZ 85012

		Amount Due	\$332.45
Inv Date	Invoice # and Description	Amount	Balance
07/31/2026	Balance forward		0.00
08/19/2026	INV #HCH26-12565. 3x9.5 Display Ad - Affidavit Attached "Notice of Air Quality Permit Application"	186.01	186.01
08/19/2026	INV #HCH26-12566. Legal Notice / 1 Week - Affidavit Attached "Notice of Air Quality Permit Application"	146.44	332.45
Thank You for your business! Prompt payment will be appreciated! Past due accounts will be subject to 1.5% interest charge or a minimum charge of \$5.00. We accept Visa, Mastercard, Discover & American Express for your convenience.		Current	0.00
		1-30 Days Past Due	332.45
		31-60 Days Past Due	0.00
		61-90 Days Past Due	0.00
		90+ Days Past Due	0.00
		Amount Due	\$332.45

Hidalgo County HERALD

A Division of Sunrise Design, LLC

212 E. Motel Dr. Suite B

Lordsburg, NM 88045

INVOICE

Bill To:

SWCA

Attn: Ellen Kraus

2929 N Central Ave Ste 1800

Phoenix, AZ 85012

Date: 8/19/2026

Invoice #: HCH26-12565

PO No.:

Terms: Net 30

Run Date: 08/21/2026

Quantity	Description	Price	Amount
	3x9.5 Display Ad - Affidavit Attached "Notice of Air Quality Permit Application"	163.88	163.88T
	Affidavit	8.75	8.75T
Thank you! It's been a pleasure working with you!		Sales Tax (7.75%)	\$13.38
		Invoice Total	\$186.01

AFFIDAVIT OF PUBLICATION

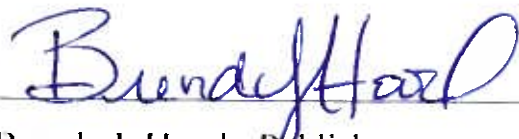
State of New Mexico,
County of Hidalgo,
City of Lordsburg

I, Brenda J. Hood, Publisher of the Hidalgo County Herald, a newspaper of record in the aforesaid city, county and state, hereby attest that the following legal notice for SWCA:

"Notice of Air Quality Permit Application"

as published for 1 consecutive week(s). from: August 21, 2026 through August 21, 2026

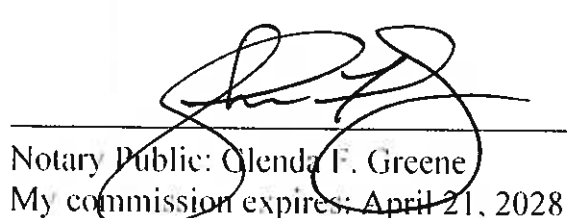
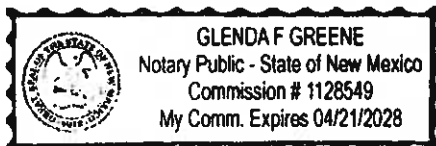
amount for this legal notice is: \$186.01



Brenda J. Hood - Publisher

State of New Mexico
County of Hidalgo

Subscribed and sworn to before me on September 1, 2026



Notary Public: Glenda F. Greene
My commission expires: April 21, 2028

Hidalgo County HERALD

A Division of Sunrise Design, LLC

212 E. Motel Dr. Suite B

Lordsburg, NM 88045

INVOICE

Bill To:

SWCA

Attn: Ellen Kraus

2929 N Central Ave Ste 1800

Phoenix, AZ 85012

Date: 8/19/2026

Invoice #: HCH26-12566

PO No.:

Terms: Net 30

Run Date: 08/21/2026

Quantity	Description	Price	Amount
187	Legal Notice / 1 Week - Affidavit Attached "Notice of Air Quality Permit Application" Affidavit	0.68 8.75	127.16T 8.75T
Thank you! It's been a pleasure working with you!		Sales Tax (7.75%)	\$10.53
		Invoice Total	\$146.44

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Hidalgo,
City of Lordsburg

I, Brenda J. Hood, Publisher of the Hidalgo County Herald, a newspaper of record in the
aforesaid city, county and state, hereby attest that the following legal notice for
SWCA:

"Notice of Air Quality Permit Application"

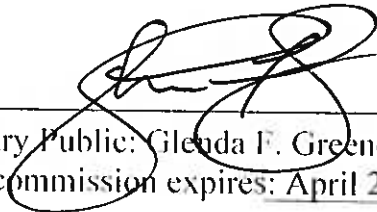
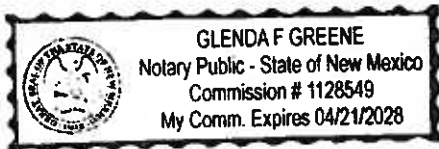
as published for 1 consecutive week(s), from: August 21, 2026 through August 21, 2026

amount for this legal notice is: \$146.44


Brenda J. Hood - Publisher

State of New Mexico
County of Hidalgo

Subscribed and sworn to before me on September 1, 2026


Notary Public: Glenda F. Greene
My commission expires: April 21, 2028

WNMU president discusses hopes for semester

Jose Coll, who officially assumed his role as Western New Mexico University president last month, has a list of goals to accomplish in the university’s fall semester.

Among those? “Building relationships with our faculty and staff, being accessible to our students, being accessible and continuing to engage our community,” Coll said, “so we as an institution can harness success not only internally but externally, and be good partners all the way around.”

Coll landed at WNMU after serving as the provost and vice president for academic affairs at Western Oregon University. Prior to his time in the Pacific Northwest, however, Coll had become acclimated to the Southwest.

Having lived in central Texas, Coll called his transition into the Silver City community one of the easiest he’s done.

“It’s actually been nice to kind of make this loop,” he said. “This is a very strong, supporting community, which has allowed my

wife and I and our kids to make a smooth transition.”

During his month-and-a-half as president, Coll said he has made it a priority to form solid relationships with faculty, staff and students. Earlier this week, he spoke with incoming students and their families, noting that these opportunities to engage are important.

It’s about “being able to have those conversations and creating an environment where parents and students who are becoming adult learners entrust in our ability to give them all the tools they need to be successful in and outside of the classroom,” Coll said.

Born in Cuba, with Spanish as his first language, and later serving in the Marine Corps, Coll said his experience as a nontraditional student gave him a valuable perspective as he navigates this new journey in his career.

—Silver City Daily Press

Columnist: The View of the Eagle

The treasury of our victory is in Abba-Yahuah

By SAM MARTINI/Lordsburg

When we lift our eyes above the noise of a turbulent world, a profound reality becomes clear: the treasury of our victory does not lie in human strength, earthly fortress-

es, or temporal security. It rests securely in Abba-Yahuah, our Father, Creator, and Sovereign. Walking in step with Him is an invitation to step out of survival mode and into a realm of Heavenly alignment, where every need is met, every attack is dismantled, and true joy becomes our daily breath.

To understand the scope of this Imperial treasury, we look across the vast tapestry of sacred tradition—from the foundation of the Tanakh and the revelations of the Brit Chadash (New Covenant), to the expanded wisdom recorded in the Cephher, the Book of Jasher, the Books of Baruch, and the hidden gems found within apocryphal and Gnostic texts like the Gospels of Mary, Thomas, and Joseph. Together, these writings testify to a single, unfailing truth: Abba-Yahuah is our refuge, our light, and the eternal source of our restoration.

-The Sacred Blueprint of Purpose and Signs

We were never created to wander blindly in the dark. Throughout scripture, Abba-Yahuah provides explicit blueprints for our purpose. In the Tanakh, Proverbial wisdom reminds us that when we trust Him with all our heart, He makes our paths straight. In the Book of Jasher, we witness historical accounts of patriarchal leaders receiving direct signs, celestial alignments, and heavenly instructions before stepping into battle or building nations.

The Gospel of Thomas speaks to an inner awakening, encouraging us to seek the Imperial source within until we recognize our appointed origin as children of the Almighty Father. Furthermore, the Books of Baruch detail how Wisdom as a resource is a pathway laid down by the Almighty, urging children who have been scattered to turn back to Him as their source of illumination to find true direction. When we are aligned with Him, signs cease to be mere coincidences—they become the unconventional coordinates of a Father guiding His children step by step.

-Healing: The Inheritance of the Empire

The entire treasury of Abba-Yahuah is rich with restoration and unfathomable abundance. Healing is not a distant, reluctant favor; it is the natural consequence of His dwelling presence. In the Brit Chadash, Messiah-Yahusha demonstrated that the Empire of Heaven manifests as wholeness—paralyzed limbs restored, sight returned to the blind, and wounded spirits made whole and even restored life to the covenant followers who held on to the promise of life instead of surrendering to the manipulation of death and the battle tactics of sickness. Never surrender, nor give in, instead call out to Abba-Yahuah-Rapha in His virtue as our Healer, the Almighty Manufacturer of our body. Take your body, Soul, mind and Spirit to the Manufacturer-allow Him to fix you, He said He would in his word.

Apocryphal manuscripts like the Gospel of Mary emphasize the release of spiritual entanglements, highlighting how His Sovereign love casts out chaos and distress acting as a burden on the soul. The Book of Joseph and other scrolls illustrate how Imperial favor wraps

around the suffering, turning trials into physical and spiritual triumph. In His presence, sickness and fragmentation lose their grip, swallowed up by His active His Spirit.

-Grace Abounding: Overpowering the Chaos of the Enemy

In a world often shaken by spiritual warfare and unseen friction, the believers' position is one of absolute protection. As written in the Psalms, "A thousand may fall at your side, and ten thousand at your right hand; but it shall not come near you."

The testimonial writings repeatedly show that no dark decree can stand against the abounding grace of Abba-Yahuah. When the adversary attempts to sow fear, confusion, or lack, His grace steps in as an impenetrable shield. The Book of Baruch reminds us they who take shelter under the shadow of the Almighty find an everlasting stronghold where all chaos is completely overpowered. Victory is not something we struggle to achieve; it is a position we operate from because Abba-Yahuah has already established it.

-Wondrous Provisions and the Empire of Righteousness

Abba’s treasury is never empty. From testimonies of manna in the wilderness, to the multiply-divided loaves in the Gospels, His provision is wondrous and tailored to His children’s needs. The scrolls teach us that as we seek His Empire of Righteousness first, all other provisions are added unto us.

Living in oneness with Him means recognizing that we are citizens of an Empire that does not fluctuate like worldly economies or systemic instability. It is a realm governed by love, justice, and absolute abundance.

-Walking in the Joy of Covenant Oneness

The ultimate expression of this victory is an unshakeable, radiant joy. This is not a fleeting emotion dependent on circumstances, but a deep-seated tranquility born out of intimacy with Abba-Yahuah. It is the joy of knowing you are seen, cherished, protected, and fully loved.

When you wake up each day conscious of your oneness with Abba-Yahuah, fear vanishes. Chaos dissolves. You begin to experience life without weights, with a clearer mind, and an overflowing heart, knowing that the Elohim of Jasher, of Baruch, of the Prophets and the Apostles, is the very same Father who guards your life today. Rest in His treasury, depend on His blueprint, and rejoice—for your victory is eternally secure in Him.

We rejoice in the opportunity to encourage your journey in the Righteousness of our Everlasting Father. We hope this column offers you a morsel of spiritual awareness; as it touches your life, please tell about it at ewordoflifefellowship@gmail.com.

We also invite you to submit your prayer requests. It is our honor to intercede and petition Abba’s favor for you. May you find phenomenal rejoicing in the days ahead!

Driven by the love of Abba-Yahuah, we invite you to walk in the Glory and Grace of Messiah-Yahusha. If you are looking for a spiritual place to grow, join us for fellowship:

Empowering Word of Life Fellowship

We are currently fellowshiping at Comfort Inn and Suites (Conference Room) 400 W. Wabash St. Lordsburg, NM 88045 Sunday Fellowship 12 Noon - 4 PM

Salsa Contest to spice up 2026 Hidalgo County Fair

Courtesy submission

Things are about to heat up at the Hidalgo County Fair as local salsa makers put their favorite recipes to the test during the fair’s Salsa Contest on Thursday, Aug. 27.

The contest will be held on the concrete slab next to the Junior Livestock Ring, with entry checking in beginning at 5 p.m. Entries must be checked in no later than 5:45 p.m., and judging will begin promptly at 6 p.m.

Contestants may compete in several categories, including Mild, Medium, Hot, Verde (Green Salsa) and Fruit Salsa, with a People’s Choice category also possible.

Each entry must consist of one pint of homemade salsa, prepared

before arriving at the fairgrounds. Contestants may enter more than one category, but a separate entry form is required for each salsa. Containers should be clearly labeled with the contestant’s name and the name of the salsa.

Judges will have the enviable—and perhaps spicy—job of evaluating entries based on flavor, aroma, appearance, texture and consistency, creativity and overall impression. The judges’ decisions will be final.

The Salsa Contest adds another opportunity for Hidalgo County residents to show off their talents while enjoying some friendly competition during this year’s fair.

Whether your specialty is a traditional red salsa, a fiery green creation or something a little more adventurous, dust off that favorite recipe and bring your best batch to the fair.

Check-in begins at 5 p.m. Thursday, Aug. 27, with judging at 6 p.m.

NOTICE OF AIR QUALITY PERMIT APPLICATION

Site Layer 1, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the construction of its **data center powered by natural-gas fired electrical power generation** facility. The expected date of application submittal to the Air Quality Bureau is **October 1, 2026**.

The exact location for the proposed facility known as **Site Layer 1** will be at latitude **31.980165 dec deg North** and longitude **-108.511324 dec deg West**. The approximate location of this facility is **4.5 miles northeast of Playas** and **11.8 miles west-northwest of Hachita** in **Grant county**.

The proposed **construction** consists of thirty-two (32) Wartsila 20V34SG internal combustion engines (ICE), each rated at approximately 9.4 MW, fired exclusively on clean-burning, pipeline-quality natural gas. Each ICE will be equipped with selective catalytic reduction (SCR) and oxidation catalyst controls to minimize air emissions. Ancillary emission sources associated with the Project include an ammonia storage tank for the SCR control system and minor fugitive emissions from ammonia and natural gas piping components. No other combustion or process emission sources are anticipated.

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
Particulate Matter (PM)	74 pph	225 tpy
PM 10	74 pph	225 tpy
PM 2.5	74 pph	225 tpy
Sulfur Dioxide (SO2)	37 pph	9 tpy
Nitrogen Oxides (NOx)	152 pph	184 tpy
Carbon Monoxide (CO)	219 pph	241 tpy
Volatile Organic Compounds (VOC)	69 pph	238 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	10 pph	42 tpy
Ammonia (NH3)	32 pph	140 tpy
Green House Gas Emissions as Total CO2e	n/a	1,292,118 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is:

Site Layer 1, LLC
126 E 56th Street, 7th Floor;
New York, NY 10022

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.

WE HAVE ALL THE TOOLS TO KEEP YOUR BUSINESS

ON TRACK & IN THE BLACK

NEW HOURS!

MON-THURSDAY
9 AM to 5 PM
OPEN FRIDAY
BY APPOINTMENT

We offer

PROFESSIONAL SERVICES
for all aspects of *your*
small business!

INCLUDING:

PAYROLL

MONTHLY, QUARTERLY & ANNUAL
TAX PREPARATION

FINANCIAL STATEMENTS

BANK RECONCILIATIONS

BOOKKEEPING *Plus*

575-542-3125

212 E. MOTEL DRIVE
SUITE A • LORDSBURG, NM

bkkplus@gilanet.com

ACCURATE.
RELIABLE.
Results.

Placing a classified ad in the Hidalgo County Herald is easy!

Simply stop in at 212 E. Motel Drive, Suite B, in Lordsburg, or drop us a line at the same address. Ads may also be called in to 575-542-8705 or e-mailed to hcherald@gilanet.com

A 25-word classified ad will only cost you \$6.00.

Any additional words will be 10¢ each.

WANTED TO BUY

WILL BUY GOLD! Gold jewelry, scrap, broken pieces, dental gold, any condition. 8K-18K. If your not sure, we'll test it for you. Call 575-639-2484 or stop by the Cottage House, 214 East Motel Drive.

tfn

SERVICES

ADVERTISE YOUR VACATION PROPERTY to more than 185,000 New Mexico newspaper readers. Your 25-word classified ad will appear in 23 newspapers around the state for only \$158. Call this newspaper for more details or visit www.nmpress.org for more details.

1tp

Safe Step. North America's #1 Walk-In Tub. Comprehensive lifetime warranty. Top-of-the-line installation and service. Now featuring our FREE shower package and \$1600 Off for a limited time! Call today! Financing available. Call Safe Step 1-855-806-1541

1tp

SAVE MONEY ON YOUR HEALTH INSURANCE! Affordable rate on Health Insurance. Let us show you want you can save. Call now! 855-660-1205

1tp

Attention: VIAGRA and CIALIS USERS! A cheaper alternative to high drugstore prices! 50 Pill Special - Only \$99! 100% guaranteed. CALL NOW: 1-877-909-2184

1tp

PEST CONTROL: PROTECT YOUR HOME from pests safely and affordably. Roaches, Bed Bugs, Rodent, Termite, Spiders and other pests. Locally owned and affordable. Call for service or an inspection today! 1-833-549-0572 Have zip code of property ready when calling!

1tp

YOU MAY QUALIFY for disability benefits if you are between 52-63 years old and under a doctor's care for a health condition that prevents you from working for a year or more. Call now! 1-833-641-6056

1tp

We Buy Houses for Cash AS-IS! No repairs. No fuss. Any condition. Easy process: Call, get cash offer and get paid. Call today for your fair cash offer: 1-505-789-8078

1tp

BATH & SHOWER UPDATES in as little as ONE DAY! Affordable prices - No payments for 18 months! Lifetime warranty & professional installs. Senior & Military Discounts available. Call: 1-877-889-6543

1tp

SERVICES

Consumer Cellular - the same reliable, nationwide coverage as the largest carriers. No long-term contract, no hidden fees and activation is free. All plans feature unlimited talk and text, starting at just \$20/month. For more information, call 1-833-651-2183

1tp

Safe Step Stairlifts. Enjoy greater independence and stay in the home you love. Feel safe on every level. \$750 off plus FREE installation. Made in the U.S.A. Call today for a free quote. 1-833-596-8733

1tp

Repairing or replacing appliances and home systems like heating and cooling can be costly. A home warranty plan can help. Start saving and get 30% off any plan today. Workmanship Guarantee included. Terms apply. Call Cinch Home Services 1-844-937-3131

1tp

We buy 8,000 cars a week. Sell your old, busted or junk car with no hoops, haggles or headaches. Sell your car to Peddle. Easy three step process. Instant offer. Free pickup. Fast payment. Call 1-866-518-1235

1tp

DIRECTV- All your entertainment. Nothing on your roof! Sign up for Direct and get your first free months of Max, Paramount+, Showtime, Starz, MGM+ and Cinemax included. Choice package \$84.99/mo. Some restrictions apply. Call DIRECTV 1-888-758-5998

1tp

Struggling with debt? If you have over \$15,000 in debt we help you be debt free in as little as 24-48 months. Pay nothing to enroll. Call Now: 1-877-563-8247

1tp

Donate your car today, running or not. Support Patriotic Hearts for our Veterans and their Families! Free fast pickup. Max tax deduction. Se habla Español. Call now 866-488-0602

1tp

Get a break on your taxes! Donate your car, truck, or SUV to assist the blind and visually impaired. Arrange a swift, no-cost vehicle pickup and secure a generous tax credit for 2026. Call Heritage for the Blind Today at 1-877-613-0103 today!

1tp

BANKRUPTCY RELIEF! Help stop Creditor Harassment, Collection Calls, Repossession and Legal Actions! Speak to a Professional Attorney and Get the Help You NEED! Call NOW 855-751-1505

1tp

SERVICES

FREE high speed internet for those that qualify. Government program for recipients of select programs incl. Medicaid, SNAP, Housing Assistance, WIC, Veterans Pension, Survivor Benefits, Lifeline, Tribal. 15 GB internet service. Bonus offer: Android tablet FREE with one-time \$20 copay. Free shipping & handling. Call Maxsip Telecom today! 1-888-960-1792

1tp

End your tax worries today. Let us make your tax problem our priority. Scared, stuck with high tax amounts? Our A+ tax professionals can help. Call for a FREE consultation. Call Priority Tax now 1- 866-215-6112

1tp

Audien Hearing. The world's first hearing aid with touchscreen controls. No tiny buttons, apps or prescriptions. 45-day risk free trial. Free shipping. Lifetime support. More than 1.5 million happy customers. Call Audien 1-844-224-3933

1tp

EMPLOYMENT

HELP WANTED: KOA Lordsburg is taking applications for

OFFICE MANAGER

Part time: 3-4 days per week Must be dependable and honest with merchandising and computer knowledge and good customer service skills Pick up applications at KOA, 1501 Lead Street, Lordsburg or call 575-542- 8003.

1tp

EMPLOYMENT POLICE OFFICER (Certified or Uncertified)

The City of Lordsburg is now accepting applications for the position of Police Officer Certified or uncertified. Applications and Job descriptions may be picked up at City Hall 409 W. Wabash St, Lordsburg, New Mexico during normal business hours Monday thru Friday 8 am to 5 pm. The City of Lordsburg is an equal opportunity employer and reserves the right to reject any or all applications.

tfn

LEGAL NOTICES

NOTICE OF REQUEST FOR BID

The Board of Hidalgo County Commissioners is calling for sealed bids for: Emergency Watershed/Project for Franklin/Virden Specifications and RFP may be obtained by emailing yasmin.olivas@hidatogocounty.org or jacquez@hidatogocounty.org or in person at the Hidalgo County Manager's Office, 305 Pyramid Street, Lordsburg, New Mexico 88045. Sealed bids will be accepted in the office of the County Manager until 9:00 AM on September 4, 2026. Bid envelope must be clearly marked Emergency Watershed Project-Franklin/Virden The Board of Hidalgo County Commissioners reserves the right to reject any and all bids, and waive all formalities.

ATTEST:
IslAlyssa Esquivel
Hidalgo County Clerk
Is/Kelly Peterson
Chairwoman,
Hidalgo County Commission
a21/s4c

LEGAL NOTICES

NOTICE OF AIR QUALITY PERMIT APPLICATION

Site Layer 1, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the construction of its **data center powered by natural-gas fired electrical power generation** facility. The expected date of application submittal to the Air Quality Bureau is **October 1, 2026**. The exact location for the proposed facility known as **Site Layer 1** will be at latitude **31.980165 dec deg North** and **longitude -108.511324 dec deg West**. The approximate location of this facility is **4.5 miles northeast of Playas** and **11.8 miles west-northwest of Hachita in Grant county**. The proposed **construction** consists of thirty-two (32) Wartsila 20V34SG internal combustion engines (ICE), each rated at approximately 9.4 MW, fired exclusively on clean-burning, pipeline-quality natural gas. Each ICE will be equipped with selective catalytic reduction (SCR) and oxidation catalyst controls to minimize air emissions. Ancillary emission sources associated with the Project include an ammonia storage tank for the SCR control system and minor fugitive emissions from ammonia and natural gas piping components. No other combustion or process emission sources are anticipated. 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
Particulate Matter (PM)	74 pph	225 tpy
PM 10	74 pph	225 tpy
PM 2.5	74 pph	225 tpy
Sulfur Dioxide (SO2)	37 pph	9 tpy
Nitrogen Oxides (NOx)	152 pph	184 tpy
Carbon Monoxide (CO)	219 pph	241 tpy
Volatile Organic Compounds (VOC)	69 pph	238 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	10 pph	42 tpy
Ammonia (NH3)	32 pph	140 tpy
Green House Gas Emissions as Total CO2e	n/a	1,292,118 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is:

Site Layer 1, LLC
126 E 56th Street, 7th Floor;
New York, NY 10022

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 de 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.

a21c

LEGAL NOTICES

PUBLIC NOTICE SPECIAL EDUCATION DESTRUCTION RECORDS

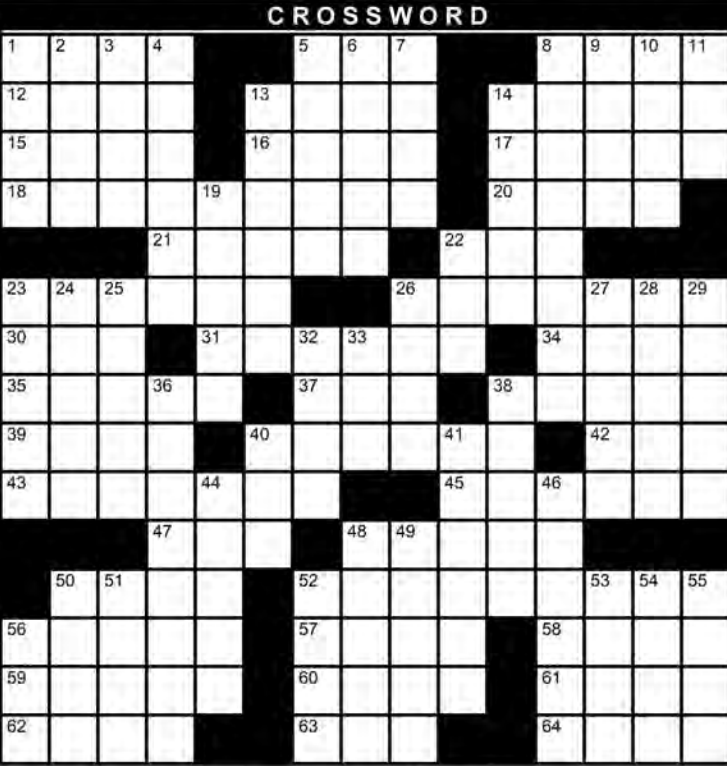
The Lordsburg Municipal Schools are not required to maintain Special Education (SPED) records beyond five years after the completion of students who received Special Education at any time during their school years. If you wish to obtain these records for yourself or for the Social Security Administration, please come by the School District Administration Office located at 401 West 4th Street to pick up your SPED record. You will be asked to sign the log out sheet that verifies the record was released to you. If we do not hear from you by September 08, 2026, the SPED file will be destroyed. If you wish to call and inquire about an old SPED record, please contact the Special Education Department at 575-542-9361.

Je19,26/jy3,17/a7,21/s4c

OMG FACTS

Reindeer eyes change color with the seasons.

brought to you by SPIRIT of Hidalgo and Hidalgo County Herald



SWITCH & GET \$25

Off First Month of New Service! USE PROMO CODE: GZB90

Consumer Cellular

CALL CONSUMER CELLULAR 888-804-0913

© 2023 Consumer Cellular Inc. For promo details please call 888-804-0913

THEME: Happy Birthday

- ACROSS
1. Thanksgiving tubers

5. ____ Patrol

8. Booheos

12. Burn soothing plant

13. "Frat Pack" member Wilson

14. ____ ligation

15. Sound an alarm

16. Marvin, Majors and Greenwood

17. O. Henry's specialty

18. *Marilyn Monroe: "Happy Birthday, Mr. ____"

20. Sporting sword

21. Blue pencil marks

22. Knight's title

23. *One for every year

26. Custodian

30. Be in debt

31. Stay clear of

34. Accompanies relief

35. #1 Down, pl.

37. Owned

38. Subway in Paris

39. Shore extension

40. Per ____

42. Even, poetic

43. City in Netherlands

45. Like voice during laryngitis

47. Barents or Laptev, e.g.

48. Noah's passengers

50. Type of code

52. *Astrological sign for those born on New Year's Eve

56. Black one and white one, for Tchaikovsky

57. Crematorium jars

58. "The Odyssey," e.g.

59. Make this, not waste

60. Let it stand, to proofreader

61. Governmental space agency, acr.

62. The windows to the soul

63. Money in Myanmar

64. Theodora or Dorothea
- DOWN

1. Bark or yelp

2. Relating to armpit

3. *"...and many ____"

4. Detected

5. *Like 16

6. Hiking sandals of a certain brand

7. Of the present month

8. *Greeting to the birthday honoree, sometimes

9. Bassoon cousin

10. Misery cause

11. Canny

13. Dated tunes

14. Make a logical connection (2 words)

19. Runs without moving

22. Lumberjack's tool

23. Another word for nutria

24. Look forward to

25. Not as old

26. George Lucas' warrior-monk

27. Concentration of a solution lab test

28. Shrek and Fiona, e.g.

29. Cotes du ____, wine region

32. Online room

33. As opposed to mishap

36. *"We want your presence, not your ____"

38. New Zealandian minority

40. Cuban dance syllable

41. *Quench it with punch

44. Precedes desist

46. Antonym of descent

48. *Traditional birthday celebration

49. Sleeper's woe

50. Up, up and there

51. Level a building

52. Crescent point

53. Colorful fish

54. Greet the judge, e.g.

55. March Madness org.

56. Pronoun

APARTMENTS FOR RENT

Spanish Arms

1-2-3 Bedroom Apartments

600 Ownby Street, Lordsburg

Newly Remodeled Units

Call Tess-575-557-2374 or 575-545-1819

Currently NO Vacancies, but still accepting applications!

FOR RENT

KING ARTHUR'S APARTMENTS

Now taking applications for

1, 2 & 3 BEDROOM , LOW INCOME APARTMENTS, UTILITIES INCLUDED.

Please pick up application at 428 W. Gale Street

Office Hours: Wednesdays 8 AM to 3 PM

Applications can also be mailed in to 1000 S. Zinc Street, Deming, NM 88030.

For more information call 575-542-9336 or 575-546-7498

Maintenance--Call 575-313-7541

Se habla espanol

Se habla espanol

Shop LOCAL

SUPPORT OUR COMMUNITY

LOCAL BUSINESSES. REAL PEOPLE. STRONGER TOGETHER.

KEEP IT LOCAL. ♥ KEEP IT STRONG.



THE SILVER CITY INDEPENDENT PUBLISHING COMPANY, LLC

300 West Market Street • P.O. Box 1371 • Silver City, New Mexico 88062-1371
(575) 388-1576 • fax (575) 388-1196 • www.scdailypress.com

INVOICE FOR PUBLICATION OF LEGAL NOTICE

SWCA

Attn: Ellen Kraus
2929 N. Central Ave
Ste. 1800
Phoenix, AZ 85012

Date:	Description:	PO#	Lines:	Price/Line:	Total:
8/27/26	Air Quality Permit		207	\$0.88	\$182.16
				\$0.72	\$0.00
				\$0.72	\$0.00
				\$0.72	\$0.00
				\$0.72	\$0.00
				\$0.72	\$0.00
				\$0.72	\$0.00
Please include copy of invoice with payment to ensure proper credit.					\$182.16
Tax:					\$14.78
Grand Total:					\$196.94

Affidavit of Publication

STATE OF NEW MEXICO ☐ S S

COUNTY OF GRANT

Nickolas C. Seibel, being first duly sworn, on his oath says: That he is the publisher of the Silver City Daily Press and Independent, a newspaper published in the Town of Silver City, in the County of Grant and the State of New Mexico, and that said newspaper is now, and was at all times herein mentioned, a newspaper of general circulation.

That the advertisement, copy of which is hereto attached, was published in said hereinbefore mentioned newspaper once each and every week for 1 consecutive week(s), the first publication thereof having been made on 8/27/2026 and the last publication thereof having been made on 8/27/2026. That said newspaper was regularly printed, published and issued with said notice herein upon the following dates, to wit:

8/27/26

Subscribed and sworn to before me on this 31st day of August, 2026

Nickolas C. Seibel
Nickolas C. Seibel
Melanie Kae Rogers
Melanie Kae Rogers
Notary



MELANIE KAE ROGERS
STATE OF NEW MEXICO
NOTARY PUBLIC
COMMISSION # 1073686
EXPIRES AUGUST 2, 2030

Legal

Legal
NOTICE
Site Layer 1, LLC announces for an air quality permit for the trical power generation facility is October 1, 2026.
The exact location for the proposed deg North and longitude -108 miles northeast of Playas and V34: The proposed construction engines (ICE), each rated at approximately natural gas. Each ICE will be equipped with controls to minimize air emissions ammonia storage tank for the natural gas piping components. The estimated maximum quantity of ammonia is 100 tons per year (100 tpy) and tons per year (100 tpy).

Section 10

Written Description of the Routine Operations of the Facility

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

The facility at Site Layer 1 will include the following emission sources:

- Thirty-two (32) identical Wärtsilä 20V34SG natural gas-fired ICE [ID: ENG01-ENG32].
- One ammonia storage and handling system associated with SCR operation. The system will include an aboveground ammonia storage tank, ammonia delivery and transfer equipment, and ammonia injection systems for each engine.

No other significant ancillary combustion sources (e.g., auxiliary boilers, emergency generators, or firewater pump engines) are proposed as part of the Project. Minor fugitive emissions from natural gas and ammonia piping components will be associated with normal facility operations. The Project will also include ancillary electrical and support infrastructure necessary for power generation and data center operations, including switchgear and related equipment to support interconnection and distribution of generated electricity within the facility.

The main components of each Wärtsilä 20V34SG internal combustion engine consist of a turbocharged reciprocating engine coupled to an electrical generator. Natural gas is mixed with combustion air and ignited within the engine cylinders, producing high-pressure gases that drive the pistons. The reciprocating motion of the pistons rotates the crankshaft, which in turn drives the generator to produce electricity. The engines are designed for continuous operation and are permitted to operate up to 8,760 hours per year.

Emissions from each engine will be controlled using post-combustion control technologies. The SCR system will be used to reduce NO_x emissions. Ammonia will be injected into the exhaust stream upstream of the catalyst bed, where it reacts with NO_x in the presence of the catalyst to form nitrogen and water vapor. SCR systems can achieve substantial reductions in uncontrolled NO_x emissions during steady-state operation.

An oxidation catalyst will be installed downstream of the engine exhaust to reduce CO and VOC emissions. The oxidation catalyst promotes chemical reactions that convert CO and VOCs into carbon dioxide (CO₂) and water. This control technology provides effective reduction of CO emissions and contributes to the reduction of VOC emissions during steady-state operation.

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): **Site Layer 1**

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

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

☒ **Yes** ☐ **No**

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

☒ **Yes** ☐ **No**

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

☐ **Yes** ☒ **No**

C. Make a determination:

- ☒ The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "**YES**" boxes should be checked. If in "A" above you evaluated other sources as well, you must check **AT LEAST ONE** of the boxes "**NO**" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes.
- ☐ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

Section 12

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

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

A. This facility is:

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

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

- a. NOx: **183.9** TPY
- b. CO: **240.8** TPY
- c. VOC: **238.5** TPY
- d. SOx: **8.7** TPY
- e. PM: **224.6** TPY
- f. PM10: **224.6** TPY
- g. PM2.5: **224.6** TPY
- h. Fluorides: **N/A** TPY
- i. Lead: **N/A** TPY
- j. Sulfur compounds (listed in Table 2): **8.7** TPY
- k. GHG: **1,292,118** TPY

C. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered. **This facility is not one of the listed 20.2.74.501 Table I PSD Source Categories. The new stationary source is not a major stationary source because the potential to emit of each regulated NSR pollutant is less than the threshold of 250 tons per year specified in 20.2.74.7.AG NMAC.**

Section 13

Determination of State & Federal Air Quality Regulations

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

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

Required Information for Specific Equipment:

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

Required Information for Regulations that Apply to the Entire Facility:

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

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

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

Regulatory Citations for Emission Standards:

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

Federally Enforceable Conditions:

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

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

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

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	Applies statewide. Site Layer 1 will comply with requirements included in 20.1.114 through 20.1.117 NMAC (variance hearings, confidential information, significant digits and electronic reporting) to the extent applicable.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	Applies statewide. Site Layer 1 understands the NMAAQS represent objectives to preserve the State's air resources and that the NMAAQS are not applicable requirements under Part 70. See 20.2.3.9 NMAC.
20.2.7 NMAC	Excess Emissions	Yes	Facility	Applies statewide. Site Layer 1 will implement a maintenance plan as required under 20.2.7.14 NMAC and will comply with the notification, affirmative defense, and root cause requirements of 20.2.7.108-114 NMAC.
20.2.23 NMAC	Fugitive Dust Control	No	N/A	Does not apply. Site will be issued a permit pursuant to the Air Quality Control Act. See 20.2.23.108.B(3).
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	Does not apply to internal combustion equipment such as engines.
20.2.34 NMAC	Oil Burning Equipment: NO ₂	No	N/A	Does not apply to internal combustion equipment such as engines.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	Does not apply. The facility is not a natural gas processing plant.
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	No	N/A	Does not apply. The facility is not a hydrocarbon storage facility.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	Does not apply. The facility is not a sulfur recovery plant.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	No	N/A	Does not apply. The facility is not part of the oil and gas sector.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	ENG01-ENG32	Applies to engines. Site Layer 1 will comply with the 20% opacity limit in 20.2.61.109 NMAC based on the determination methods specified in 20.2.61.114 NMAC for stationary combustion equipment at the site. There are no plans to operate any locomotives or air curtain incinerators at the site.
20.2.70 NMAC	Operating Permits	Yes	Facility	Site Layer 1 will submit a timely and complete operating permit application as required under 20.2.70.200, 201, 300 NMAC.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	Site Layer 1 will comply with the fee provisions of Part 71. The department will provide an invoice for fees owed by April 1 of each year per 20.2.71.113.A NMAC.
20.2.72 NMAC	Construction Permits	Yes	Facility	Submission of this permit application satisfies Part 72 requirements.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	Final action on the permit will satisfy the requirements of 20.2.73.200.A(4) NMAC. All facilities that are a Title V Major Source as defined at 20.2.70.7.R NMAC, are subject to Emissions Inventory Reporting. Site Layer 1 will comply with the emissions inventory requirements of 20.2.73.300 NMAC.
20.2.74 NMAC	Permits – Prevention of Significant	No	N/A	PSD permitting does not apply because the proposed new stationary source is not listed in Table 1 of 20.2.74.501 NMAC and the potential to emit is less than 250 tons per year for each regulated new source review pollutant.

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.)
	Deterioration (PSD)			
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	Applies sitewide. This regulation applies because Site Layer 1 is submitting an application pursuant to 20.2.72 NMAC.
20.2.77 NMAC	New Source Performance	Yes	ENG01-ENG32	This is a stationary source which is subject to the requirements of 40 CFR Part 60. Internal combustion engines will be subject to and comply with applicable requirements of NSPS Subpart JJJJ.
20.2.78 NMAC	Emission Standards for HAPS	Yes	ENG01-ENG32	The facility is not subject to any standard under 40 CFR Part 61. See 20.2.78.9 NMAC.
20.2.79 NMAC	Permits – Nonattainment Areas	No	N/A	The facility is not located in a nonattainment area. Additionally, the site will not cause or contribute to any existing NAAQS violation. See 20.2.79.109.A, section 2.6.5.2 Air Quality Modeling Guidelines.
20.2.80 NMAC	Stack Heights	Yes	Facility	No stack will exceed good engineering practice (GEP) stack height.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	ENG01-ENG32	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63. The facility is a major source of HAPs because it exceeds the single HAP threshold of 10 tpy and sum of all HAPs is greater than 25 tpy. The reciprocating internal combustion engines will be subject to and comply with applicable requirements of MACT ZZZZ.

Table for Applicable Federal Regulations:

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 50	NAAQS	No	N/A	The modeling and conditions developed from the modeling are the applicable requirements to demonstrate compliance with the NAAQS.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	ENG01-ENG32	Applies if any other Subpart in 40 CFR 60 applies.
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	No	N/A	Compression ignition engines are not proposed for the facility.
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	ENG01-ENG32	Applies to engines fueled by natural gas, propane, landfill gas, or gasoline. Site Layer 1 will comply with emission standards, requirements for initial performance testing, continuous compliance through proper operation and maintenance, and use of emission control technologies.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for	No	N/A	The facility will not generate commercial electric power or electric power for sale.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
	Electric Generating Units			
NESHAP 40 CFR 61 Subpart A	General Provisions	No	N/A	40 CFR Part 61 does not apply. The facility does not belong to any listed category or emit any listed pollutant that would trigger applicability.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	ENG01-ENG32	Applies if any other Subpart in 40 CFR 63 applies.
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Yes	ENG01-ENG32	NESHAP Subpart ZZZZ establishes HAP emission standards for stationary reciprocating ICEs at major and area sources of HAPs. A major source of HAPs is defined as a facility that has potential emissions of 10 tpy of any individual HAP or 25 tpy of total HAPs. Based on preliminary potential emission estimates, Site Layer 1 would be a major source of HAPs and thus subject to the requirements of NESHAP Subpart ZZZZ.
40 CFR 64	Compliance Assurance Monitoring	No	N/A	Pursuant to 40 CFR § 64.2(a), CAM applies to a pollutant-specific emissions unit at a major source required to obtain a Part 70 or Part 71 permit when the unit satisfies all applicable criteria, including: (1) being subject to an applicable emission limitation or standard that is not exempt under § 64.2(b); (2) using a control device to achieve compliance with the applicable limitation or standard; and (3) having potential pre-control device emissions of the applicable pollutant equal to or greater than the amount required for a source to be classified as a major source. For a conventional major source, the applicable threshold for NO_x, CO, and VOC is 100 tons per year (tpy). Potential pre-control NO_x, CO and VOC emissions from each individual engine are below the applicable major-source threshold. Therefore, the engines do not satisfy the applicability criterion in 40 CFR § 64.2(a)(3). Accordingly, CAM requirements do not apply to the NO_x, CO and VOC emission limitations for the engines.
Title IV – Acid Rain 40 CFR 72	Acid Rain	No	N/A	The Acid Rain Program applies to units, defined as fossil fuel-fired combustion devices, owned and operated by a utility that serves a generator greater than 25 MWe that produces electricity for sale. A utility is defined as any person that sells electricity. The Site Layer 1 ICEs have a generation capacity of 9.4 MW, do not sell electricity and are not interconnected to the grid. Therefore the Acid Rain Program would not be applicable.
Title IV – Acid Rain 40 CFR 73	Sulfur Dioxide Allowance Emissions	No	N/A	The facility does not contain affected units under 40 CFR 72.6 and is not choosing to purchase, hold, or transfer allowances.
Title IV-Acid Rain 40 CFR 75	Continuous Emissions Monitoring	No	N/A	The facility will not generate commercial electric power or electric power for sale.
Title IV – Acid Rain 40 CFR 76	Acid Rain Nitrogen Oxides Emission Reduction Program	No	N/A	The facility will not generate commercial electric power or electric power for sale.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
Title VI – 40 CFR 82	Protection of Stratospheric Ozone	No	N/A	While ozone depleting substances (ODS) will not be manufactured or imported or used as an integral part of the emission units, to the extent the facility incidentally handles or uses any regulated ODS as part of plant operations, it will comply with all applicable Title VI requirements.

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.
-

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.

No alternative operating scenarios are requested as part of this application.

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.

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.

No compliance tests have been conducted at this facility since it has not yet been constructed.

Section 20

Other Relevant Information

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

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

Section 22: Certification

Company Name: Site Layer 1, LLC

I, Ian Marcus, 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 5th day of October, 2026, upon my oath or affirmation, before a notary of the State of



*Signature

10/05/2026

Date

Ian Marcus
Printed Name

Authorized Signatory
Title

Scribed and sworn before me on this 5th day of October, 2026.

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

21st day of November, 2028.

Nevada

Notary's Signature

Clark

10/05/2026

Date

Jomila Tan
Notary's Printed Name



Jomila Tan
NOTARY PUBLIC
STATE OF NEVADA
Appt. No. 24-2299-01
Expires November 21, 2028

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

Notarized remotely using audio-video communication technology via Proof.

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:	Site Layer 1
2	Name of company:	Site Layer 1, LLC
3	Current Permit number:	N/A New Facility
4	Name of applicant's modeler:	SWCA Environmental Consultants
5	Phone number of modeler:	520-346-5111
6	E-mail of modeler:	Rebekah.Bowlds@swca.com

16-B: Brief

1	Was a modeling protocol submitted and approved?	Yes☒	No☐
2	Why is the modeling being done?	New Facility	
3	Describe the permit changes relevant to the modeling.		
	N/A – Facility is new construction.		
4	What geodetic datum was used in the modeling?	NAD83	
5	How long will the facility be at this location?	Permanent	
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		012
8	List the PSD baseline dates for this region (minor or major, as appropriate).		
	NO2	08/10/1995 – minor source baseline date	
	SO2	08/10/1995 – minor source baseline date	
	PM10	08/10/1995 – minor source baseline date	
	PM2.5	Baseline date has not been established	
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).		
	N/A – Nearest Class I area is greater than 50 km distance from the facility.		
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.		

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	N/A	N/A	Facility is new construction.
	NO ₂	N/A	N/A	Facility is new construction.
	SO ₂	N/A	N/A	Facility is new construction.
	H ₂ S	N/A	N/A	Facility is new construction.
	PM2.5	N/A	N/A	Facility is new construction.
	PM10	N/A	N/A	Facility is new construction.
	Lead	N/A	N/A	Facility is new construction.
	Ozone (PSD only)	N/A	N/A	Facility is new construction.
	NM Toxic Air Pollutants (20.2.72.402 NMAC)	N/A	N/A	Facility is new construction.

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 ₂ S	☐	☐	☐	☐	☒
	PM _{2.5}	☒	☒	☐	☐	☐
	PM ₁₀	☒	☒	☐	☐	☐
	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. None. Project emissions of H ₂ SO ₄ and NH ₃ were evaluated using the stack-height correction procedure in the NMED Air Dispersion Modeling Guidelines and were below the applicable emission-rate screening levels; therefore, dispersion modeling of NMTAPs was not required.					
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
	H ₂ SO ₄	0.8544	0.0067	60.96	152	0.00562
	NH ₃	32.0	1.2	60.96	152	0.21

16-F: Modeling options

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes ☒	No ☐

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	9/30/2026
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

16-H: Building and structure downwash

1	How many buildings are present at the facility?	Three	
2	How many above ground storage tanks are present at the facility?	None	
3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes ☒	No ☐
4	Building comments	Building downwash parameters were developed using BPIP-PRIME and incorporated into the AERMOD analysis for applicable point sources.	

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 Project area will be surrounded by continuous fencing that effectively precludes access by the general public.					
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
	Discrete	Square	50 m	0	500 m	
	Discrete	Square	100 m	500 m	2000 m	
	Discrete	Square	250 m	2000 m	5000 m	
	Discrete	Square	500 m	5000 m	10000 m	
	Discrete	Square	1000 m	10000	50000	Receptors applied only if needed to resolve SIA/ROI
5	Describe receptor spacing along the fence line.					
	Receptors were spaced at 25 m intervals along the facility boundary.					

6	Describe the PSD Class I area receptors. N/A – Class I area located over 50 km from Project.

16-J: Sensitive areas

1	Are there schools or hospitals or other sensitive areas near the facility? If so describe below. This information is optional (and purposely undefined) but may help determine issues related to public notice.	Yes ☐	No ☒
3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	Yes ☒	No ☐

16-K: 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).											
	Only the normal operating scenario will be modeled; no alternative scenarios will be evaluated.											
2	Which scenario produces the highest concentrations? Why?											
	Refer to full modeling report provided. Results and analysis relied on worst-case emissions across all pollutants and averaging periods.											
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. (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		13									
	2		14									
	3		15									
	4		16									
	5		17									
	6		18									
	7		19									
	8		20									
	9		21									

	10		22								
	11		23								
	12		24								
If hourly, variable emission rates were used that were not described above, describe them below.											
6	Were different emission rates used for short-term and annual modeling? If so describe below.									Yes ☒	No ☐
	Refer to full modeling report provided.										

16-L: NO₂ 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.		
	NO ₂ modeling used the Tier 2 ARM2 approach for the 1-hour and annual averaging periods. A minimum ambient NO ₂ /NO _x ratio of 0.20 and the default maximum ratio of 0.90 were applied.		
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: High eighth high Annual: One Year Annual Average		

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 – plume depletion was not modeled.		
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 PM _{2.5} .	Yes ☒	No ☐
4	Was secondary PM modeled for PM _{2.5} ?	Yes ☒	No ☐
5	If MERPs were used to account for secondary PM _{2.5} fill out the information below. If another method was used describe below.		
	NO _x (ton/yr)	SO ₂ (ton/yr)	[PM _{2.5}] _{annual}
	183.9	8.7	0.000315 µg/m ³
	[PM _{2.5}] _{24-hour}		
	Secondary PM _{2.5} formation was evaluated using the MERP screening approach. MERPs of 130,260 tpy NO _x and 53,898 tpy SO ₂ were used for annual PM _{2.5} , and 42,498 tpy NO _x and 9,753 tpy SO ₂ were used for 24-hour PM _{2.5} .		

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 - The Project is a stationary facility and does not request flexibility in site configuration.
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 - The Project is not a portable stationary source.

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	
	Yes. The 32 modeled engine sources correspond one-to-one with regulated emission units ENG01 through ENG32 in UA-2 Table 2-A. AERMOD source IDs ICE01 through ICE32 correspond to ENG01 through ENG32, respectively. SSM1 is an emissions-accounting unit used to report additional SUSD emissions and is represented in the modeling through the hybrid SUSD emission scenarios applied to the individual engine sources.		
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 ☐
	Yes. Normal-operation emission rates used in the modeling correspond to the requested allowable emission rates in UA-2 Table 2-E. Additional SUSD emissions reported in Table 2-F are incorporated into the applicable hybrid SUSD modeling scenarios as described in the modeling report.		
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?					
	Unit ID	NO ₂	SO ₂	PM10	PM2.5	
	ENG01 through ENG32	X	X	X	X	
5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).		ENG01 through ENG32 were treated as increment-consuming Project sources for the applicable PSD increment analyses. Applicable nearby post-baseline sources were also conservatively treated as increment consuming as described in the modeling report.			
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 ☒
	No. The Project is a new facility, and installation/construction dates for the proposed emission units are currently listed as TBD in the application.					

16-P: Flare Modeling

1	For each flare or flaring scenario, complete the following			
	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)
	N/A - No flares are associated with the Project.			

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?	Yes ☐	No ☐
	If not please explain how increment consumption status is determined for the missing installation dates below. N/A – Proposed Project emission units were modeled as point sources. No Project fugitive or volume emission sources were modeled.		
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
	N/A – Proposed Project emission units were modeled as point sources. No Project fugitive or volume emission sources were modeled.		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		
	N/A – Proposed Project emission units were modeled as point sources. No Project fugitive or volume emission sources were modeled.		
4	Describe any open pits.		
	N/A – Proposed Project emission units were modeled as point sources. No Project fugitive or volume emission sources were modeled.		
5	Describe emission units included in each open pit.		

	N/A – Proposed Project emission units were modeled as point sources. No Project fugitive or volume emission sources were modeled.
--	---

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: Del Norte High School (350010023)			
	NO ₂ : Deming (350290003)			
	PM _{2.5} : Anthony (350130016)			
	PM ₁₀ : Deming Airport (350250008)			
	SO ₂ : Hurley Smelter (350171003)			
	Other:			
	Comments:	The UA-4 dropdown identifies the Deming Airport PM ₁₀ monitor as AQS ID 350250008. The current NMED Air Dispersion Modeling Guidelines identify the applicable Deming Airport monitor as AQS ID 350290003; the current guidance value and AQS ID were used in the modeling analysis.		
2	Were background concentrations refined to monthly or hourly values? If so describe below.		Yes ☐	No ☒

16-S: Meteorological Data

1	Was NMED provided meteorological data used? If so select the station used.		Yes ☒	No ☐
	Deming			
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.			
	N/A – NMED meteorological data utilized.			

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?			
	Terrain data were obtained from the publicly available National Elevation Dataset (NED) digital elevation model (DEM) files accessed through WebGIS within AERMOD View.			

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)
	SL1_S_COH8	CO 1 hour and 8 hour	ROI/SIA
	SL1_S_NO2H	NO2 1 hour	ROI/SIA
	SL1_S_NO2A	NO2 Annual	ROI/SIA
	SL1_S_PM25D	PM2.5 and PM10 24 hour	ROI/SIA
	SL1_S_PM25A	PM2.5 and PM10 Annual	ROI/SIA
	SL1_S_SO2H3D	SO2 1, 3, 24 hour	ROI/SIA
	SL1_S_SO2A	SO2 Annual	ROI/SIA
	SL1_N_NO2H	NO2 1 hour	Cumulative
	SL1_N_PM25DSIA	PM2.5 24-hour	Cumulative
	SL1_N_PM10DSIA	PM10 24-hour	Cumulative
	SL1_N_SO2H	SO2 1 Hour	Cumulative - NAAQS
	SL1_N_SO2H3D	SO2 3, 24 Hour	Cumulative – Increment
	SL1_NPO_PM25D	PM2.5 24 hour	Cumulative – Increment

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. N/A - The Project is not a new PSD major source or a major modification to an existing PSD major source; therefore, PSD preconstruction monitoring requirements do not apply.		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC. N/A - The Project is not subject to the PSD additional impacts analysis requirements for a new PSD major source or major modification.		
5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes ☐	No ☐

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 ☒	
	Culpability analysis was not required because all modeled cumulative concentrations were below the applicable ambient air quality standards.									
2	Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.									
Pollutant, Time Period and Standard	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (m)
NO2 - 1-hour NAAQS	142.5	140.1	N/A	N/A	140.1	188	74.5%	735295.66	3543653.88	1501.54
PM2.5 - 24-hour NAAQS	10.1	4.9	0.006261	21.9	26.8	35.0	76.6%	739645.66	3541603.88	1505.10
PM2.5 - Annual NAAQS	0.8	0.8	0.000315	7.8	8.6	9.0	95.6%	739795.66	3541553.88	1501.65
PM10 - 24-hour NAAQS	10.1	8.8	N/A	114.7	123.5	150.0	82.3%	737645.66	3544103.88	1510.79
SO2 - 1-hour NAAQS	83.1	72.2	N/A	1.8	74.0	196.0	37.8%	735295.66	3543653.88	1501.54
Secondary PM _{2.5} concentrations shown separately are already incorporated into the modeled PM _{2.5} concentrations and are not added again when calculating the cumulative concentrations.										

16-X: Summary/conclusions

	A statement that modeling requirements have been satisfied and that the permit can be issued.
1	The air dispersion modeling analysis demonstrates that emissions from the proposed Project will not cause or contribute to an exceedance of the applicable NAAQS, NMAAQs, or PSD Class II increments. Accordingly, applicable air dispersion modeling requirements have been satisfied and the modeling analysis supports issuance of the requested air quality construction permit.

Modeling Report

Site Layer 1 Data Center Project Grant County, New Mexico

Air Dispersion Modeling Report

In Support of an Initial NSR Application

OCTOBER 2026

PREPARED FOR

Site Layer 1, LLC

PREPARED BY

SWCA Environmental Consultants

SITE LAYER 1 DATA CENTER PROJECT, GRANT COUNTY, NEW MEXICO

AIR DISPERSION MODELING REPORT

Prepared for

Site Layer 1, LLC
126 E 56th Street
7th Floor
New York, NY 10022

Prepared by

SWCA Environmental Consultants
2929 North Central Avenue, Suite 1800
Phoenix, Arizona 85012
www.swca.com

SWCA Project No. 97991

October 2026

CONTENTS

Tables	ii
1 Introduction	1
2 Project Background and Description	2
3 Site Description.....	2
4 Model Selection and Model Input.....	5
4.1 Model Selection and Justification.....	5
4.2 Model Control Options.....	5
4.3 Pollutants Subject to Review	6
4.3.1 Air Toxics Modeling.....	6
4.4 Modeling Approach.....	7
4.4.1 Radius of Impact Analysis.....	7
4.4.2 Cumulative NAAQS/NMAAQs Analysis.....	7
4.4.3 PSD Class II Increment Evaluation	8
4.5 Source Data.....	8
4.5.1 Source Characterization.....	9
4.5.2 Good Engineering Practice Stack Height Analysis.....	10
4.6 Monitored Background Data	10
4.6.1 CO Background Concentration.....	10
4.6.2 NO ₂ Background Concentration	11
4.6.3 PM _{2.5} Background Concentration	11
4.6.4 PM ₁₀ Background Concentration	11
4.6.5 SO ₂ Background Concentration.....	11
4.7 Receptors	13
4.8 Terrain Data and Resolution.....	13
4.9 Meteorological Data	13
4.10 Nearby Source Inventory.....	14
4.11 NO ₂ Analysis	14
4.12 Secondary PM _{2.5} Formation.....	14
5 MODELING RESULTS AND COMPLIANCE DEMONSTRATION.....	15
5.1 Results of the Significant Impact Analysis.....	15
5.2 NAAQS Analysis Results.....	16
5.3 PSD Increment Analysis Results.....	17
6 Literature Cited.....	19
APPENDIX A Emissions Inventory	20
APPENDIX B Stack Release Parameters	21

Appendices

APPENDIX A: Emission Inventory

APPENDIX B: Stack Release Parameters

Figures

Figure 1. General location map.....	3
Figure 2. Preliminary layout.	4

Tables

Table 1. Toxic Air Pollutant Modeling Applicability.....	6
Table 2. Air Quality Standard Summary	7
Table 3. Pollutant-Specific Modeling and Design Value Summary	8
Table 4. Background Levels of Criteria Pollutants.....	12
Table 5. Secondary PM _{2.5} Formation Evaluation.....	15
Table 6. Significant Impact Analysis Results	16
Table 7. NAAQS Analysis Results.....	17
Table 8. PSD Increment Analysis Results	17

ACRONYMS AND ABBREVIATIONS

$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
ACFM	actual cubic feet per minute
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AQB	Air Quality Bureau
AQS	Air Quality System
ARM2	Ambient Ratio Method Version 2
BPIP	Building Profile Input Program
CFR	Code of Federal Regulations
CO	carbon monoxide
EPA	U.S. Environmental Protection Agency
g/s	grams per second
GEP	Good Engineering Practice
H ₂ S	hydrogen sulfide
H ₂ SO ₄	sulfuric acid mist
ISR	in-stack ratio
K	kelvin
km	kilometers
lb/hr	pounds per hour
m/s	meters per second
MERPs	Modeled Emission Rates for Precursors
MW	megawatts
NAAQS	National Ambient Air Quality Standards
NAD83	North American Datum of 1983
NH ₃	ammonia
NMAAQs	New Mexico Ambient Air Quality Standards
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NSR	New Source Review
PM ₁₀	particulate matter less than 10 microns
PM _{2.5}	particulate matter less than 2.5 microns
PRIME	Plume Rise Model Enhancements
PSD	Prevention of Significant Deterioration
PTE	potential to emit
ROI	radius of impact
SCR	selective catalytic reduction
SIL	significant impact level
SUSD	startup/shutdown

SWCA	SWCA Environmental Consultants
TAP	toxic air pollutant
tpy	tons per year
UTM	Universal Transverse Mercator
VOC	volatile organic compound

1 INTRODUCTION

Site Layer 1, LLC (Site Layer 1) proposes to construct and operate a data center and associated natural gas-fired electrical generation development (Project) on private land in Hidalgo and Grant Counties, New Mexico. All emission sources evaluated in this air dispersion modeling analysis are located within Grant County. A description of the proposed emission sources and Project configuration is provided in Section 2.

The Project requires a Minor Source Construction Permit pursuant to 20.2.72 NMAC. The purpose of this air dispersion modeling analysis is to demonstrate that emissions from the proposed Project will not cause or contribute to violations of applicable National Ambient Air Quality Standards (NAAQS), New Mexico Ambient Air Quality Standards (NMAAQs), or applicable Prevention of Significant Deterioration (PSD) Class II increments.

Although the Project will not trigger PSD major source permitting requirements (i.e., the Project is not a PSD categorical source and potential emissions of regulated NSR pollutants are expected to remain below the 250 tons per year PSD major source threshold), the NSR permit application must include an air quality compliance demonstration that addresses ambient air quality standards and applicable PSD increments. Specifically, 20.2.72.203.A.4 NMAC requires a permit when the potential emission rate exceeds 10 pounds per hour or 25 tons per year of any regulated air contaminant for which there is a National or New Mexico Ambient Air Quality Standard, and if that threshold is exceeded for any one such contaminant, all regulated air contaminants with applicable ambient air quality standards emitted are subject to permit review under 20.2.72 NMAC. Therefore, this modeling analysis evaluated these applicability thresholds and, if exceeded for any pollutant, included modeling of all regulated air contaminants with applicable ambient standards and evaluation of PSD Class II increment consumption, as applicable.

The nearest mandatory Federal Class I area is the Chiricahua Wilderness (Arizona), located approximately 56.62 kilometers (km) (35.18 miles) west of the Project site; because the Project is located beyond 50 km from the boundary of the nearest Class I area, a Class I increment analysis is not required under NMED Air Quality Bureau (AQB) modeling guidance (NMED 2026).

Dispersion modeling was not required for the toxic air pollutants (TAPs) evaluated under 20.2.72.403.A(2) NMAC. The Project will emit sulfuric acid mist (H_2SO_4) and ammonia (NH_3); however, Project-wide emission rates, after application of the applicable stack-height correction factor, do not exceed the corresponding emission rate screening levels. The TAP applicability evaluation is presented in Section 4.3.1.

This report adheres to the modeling procedures specified in the U.S. Environmental Protection Agency's (EPA's) Guideline on Air Quality Models (Appendix W of 40 CFR 51), alongside relevant EPA modeling policies and guidance. Specifically, it incorporates the latest regulatory guidance, compliance methodologies, and agency correspondence, including, but not limited to, the following:

- *New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines* (NMED 2026)
- Revised guidelines on air quality models (40 CFR 51, Appendix W)
- *Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for Stack Height Regulations) (Revised)* (EPA 1985)
- *Guidance for Ozone and Fine Particulate Matter Permit Modeling* (EPA 2022)
- *Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and $\text{PM}_{2.5}$ under the PSD Permitting Program* (EPA 2019)

- *Clarification on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and PM_{2.5} under the PSD Permitting Program (EPA 2024a).*

This report outlines the methodology that was used for the dispersion modeling analysis and serves as a technical basis for agency review.

2 PROJECT BACKGROUND AND DESCRIPTION

The Site Layer 1 Project is located in Grant County, New Mexico, and consists of a natural gas-fired electrical generation and data center development designed to support reliable, resilient operations through redundant on-site power generation. The planned gas-driven generation capacity is approximately 300 MW.

As part of the Project, Site Layer 1, LLC proposes to install and operate approximately 300 MW of natural gas-fired electrical generating capacity. The proposed generation system includes thirty-two (32) Wartsila 20V34SG internal combustion engines, each rated at approximately 9.4 MW. The engines will be fired exclusively with pipeline-quality natural gas and are expected to operate for up to 8,760 hours per year. Each engine will be equipped with post-combustion emissions controls, including SCR for nitrogen oxides (NO_x) control and oxidation catalysts for carbon monoxide (CO) and volatile organic compounds (VOC), to minimize emissions of criteria pollutants.

No significant ancillary emission sources are anticipated beyond the internal combustion engines, with the exception of an ammonia storage system associated with SCR operations and minor fugitive emissions from NH₃ and natural gas piping components.

3 SITE DESCRIPTION

While the overall Project spans land in Hidalgo and Grant Counties, the emission sources from the gas generation portion of the project reside within the boundaries of Grant County. The proposed Site Layer 1 Project is located near Playas, in Grant County, New Mexico, approximately 58 km (36 miles) south of Silver City, New Mexico. The surrounding region is a rural desert setting characterized by open terrain with sparse shrubs and grasses and minimal nearby development, limited primarily to roadway corridors, with broad valleys and adjacent mountain ranges typical of the region.

Grant County includes a designated maintenance area for the 1971 sulfur dioxide (SO₂) NAAQS. The Grant County SO₂ maintenance area is associated with historical smelter operations in the Hurley/Bayard area and remains subject to maintenance plan requirements in a 3.5 mile radius region around the smelter, which is located over 50 miles from the proposed Project site. The proposed Project is located outside of the maintenance area, and the receptor grid associated with the modeling analysis was also entirely outside of the area.

Figures 1 and 2 provide an overview of the Project location and preliminary facility layout, including the arrangement of the proposed internal combustion engine generating units relative to other site features, such as the data center structures, ammonia storage system, and associated infrastructure.

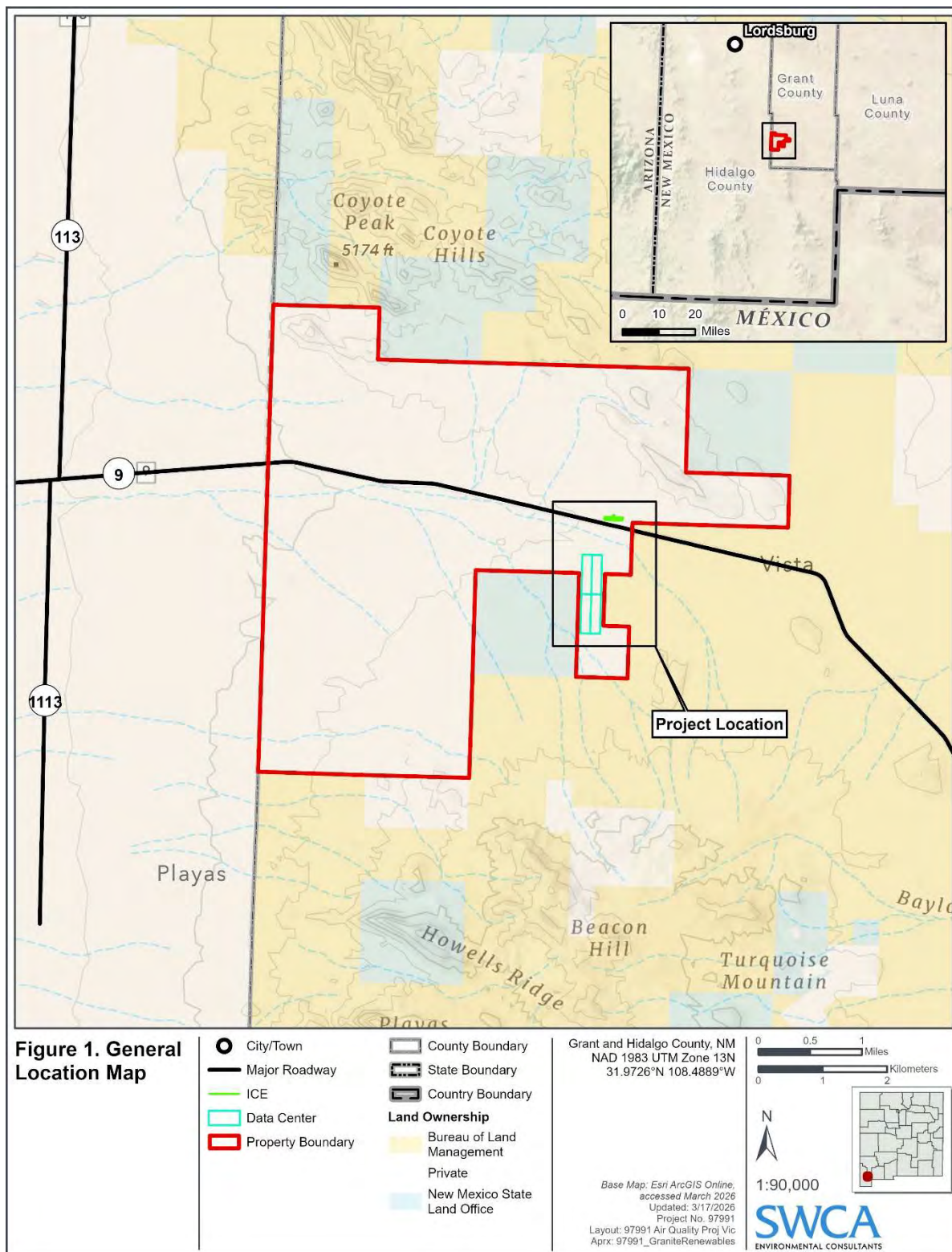


Figure 1. General location map.

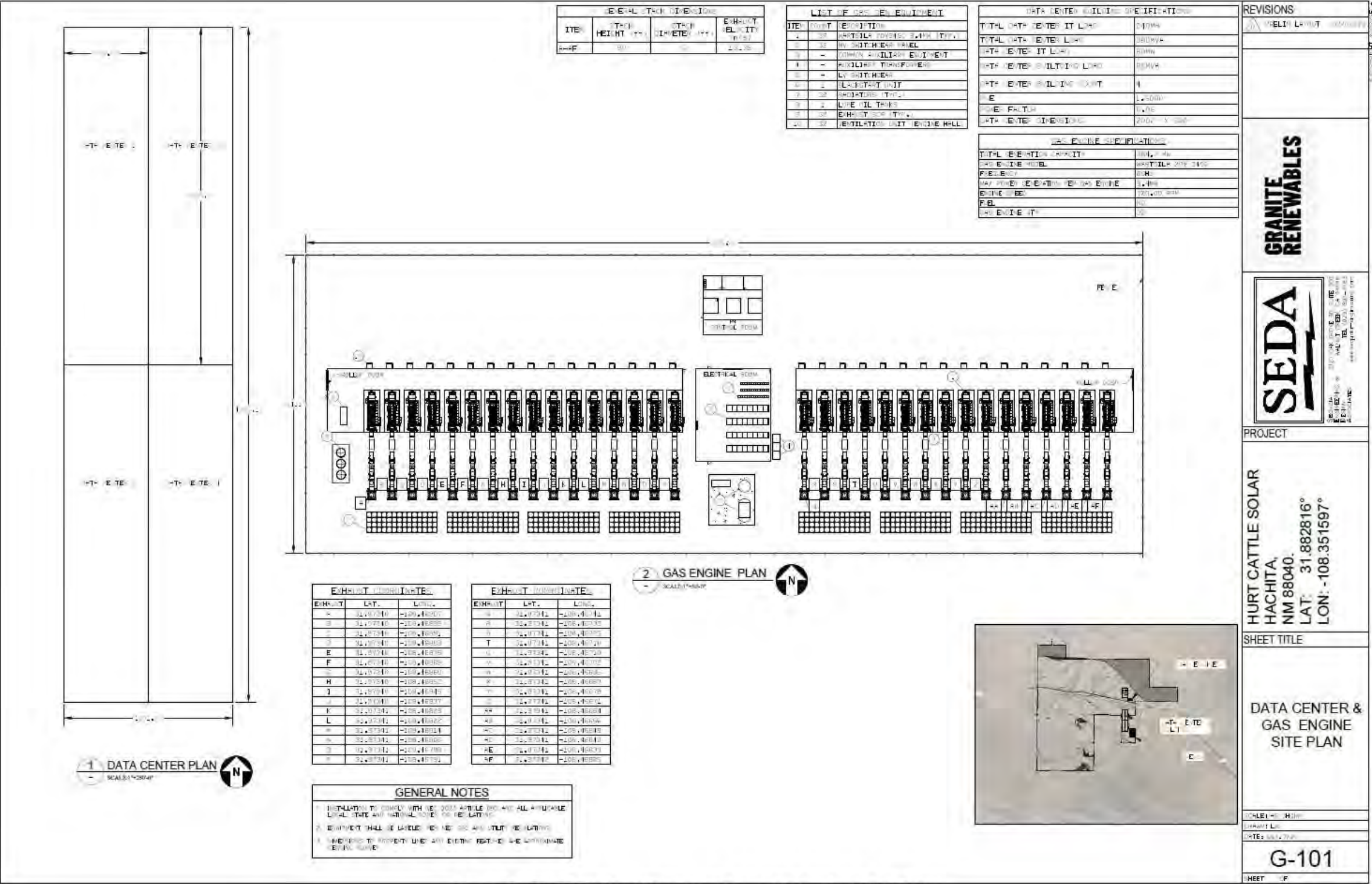


Figure 2. Preliminary layout.

4 MODEL SELECTION AND MODEL INPUT

Air dispersion modeling was conducted using AERMOD to evaluate Project impacts for applicable criteria pollutants and PSD Class II increments. The following sections describe the model configuration, source characterization, receptor network, terrain and meteorological inputs, background concentrations, nearby-source treatment, and pollutant-specific modeling procedures.

4.1 Model Selection and Justification

The most recent version of the EPA-recommended American Meteorological Society/EPA Regulatory Model Improvement Committee modeling system, AERMOD (Version 26135), was used for this air quality analysis. AERMOD is an advanced atmospheric dispersion modeling system designed to simulate plume dispersion using planetary boundary layer turbulence structure and scaling concepts. This model can effectively simulate the dispersion of emissions from various sources, including point, area, volume, and open pit sources.

The AERMOD modeling system includes several supporting preprocessors. The AERMAP terrain processor is used to incorporate digital elevation data and compute receptor and source elevations, which is important for modeling dispersion in areas with variable terrain. The AERSURFACE processor is used to evaluate land surface characteristics, including albedo, Bowen ratio, and surface roughness. The BPIP-PRIME is used to generate building direction-specific dimensions to evaluate downwash effects.

For this modeling study, the graphical user interface AERMOD View (Version 13.1.0), developed by Lakes Environmental, was used for preparation of model inputs, execution of model runs, and review of model output files. AERMOD View was used only as an interface tool. The regulatory modeling analysis used unmodified EPA AERMOD executables. Therefore, a model equivalency demonstration under 40 CFR Part 51, Appendix W is not required.

AERMOD View uses the following versions of the AERMOD system programs for this project:

- AERMOD: Version 26135
- AERMAP: Version 24142
- BPIP-PRIME: Version 04274

4.2 Model Control Options

AERMOD was used with the standard regulatory default options. The default options include:

- Stack-tip downwash – This option accounts for the potential effects of plume rise reduction due to aerodynamic wake effects from stack emissions.
- Elevated terrain algorithms – AERMOD incorporated terrain height data to assess the influence of elevation changes on dispersion, ensuring that plume transport over complex terrain is accurately represented.
- Calms processing – The model handled calm wind conditions in accordance with the regulatory defaults, ensuring appropriate treatment of low wind speed scenarios.

- Rural dispersion selected – Aerial imagery around the Project location indicates that the land use in a three km radius around the facility is greater than 50 percent rural.
- Missing data processing – Standard AERMOD routines were applied to handle any gaps in meteorological input data while maintaining compliance with regulatory guidelines.

4.3 Pollutants Subject to Review

The proposed Project will be permitted under the NMED NSR construction permitting program. The Project does not trigger PSD major source permitting requirements because it is not a PSD categorical source and Project PTE remains below the applicable PSD major source threshold. Accordingly, the Project is subject to NMED's NSR construction permitting program under 20.2.72 NMAC. State-level review requires an ambient air impact analysis (air dispersion modeling) to ensure that emissions from Site Layer 1 do not cause or contribute to an exceedance of a NAAQS or NMAAQs.

Based on the Project PTE inventory, air dispersion modeling is required for regulated pollutants, including pollutants with an associated NAAQS or NMAAQs, as well as toxic air pollutants identified by NMED. Based on the Project emissions inventory, the criteria pollutants subject to review in the air dispersion modeling analysis include NO_x (184 tons per year [tpy]), CO (241 tpy), PM₁₀ (225 tpy), PM_{2.5} (225 tpy), and SO₂ (9 tpy). Lead, hydrogen sulfide (H₂S), and total reduced sulfur compounds are not expected to be emitted by the project in appreciable quantities, as the majority of the fuel burning equipment will be fueled by pipeline quality natural gas. Therefore, these pollutants were not included in the modeling analysis even though they are associated with an ambient air quality standard.

VOC emissions are estimated to be 239 tpy and are included in the emissions inventory and permitting evaluation. However, VOC is not itself subject to a NAAQS or NMAAQs and therefore is not directly evaluated using dispersion modeling. VOC and NO_x are precursors to ozone formation. Consistent with Section 2.6.5.2 of the NMED Air Dispersion Modeling Guidelines (NMED 2026), ozone compliance demonstrations for PSD minor sources are evaluated based on the applicable precursor-emission screening criteria. Project PTE is 183.9 tpy NO_x and 239 tpy VOC, with each precursor below the applicable 250-tpy screening level. The NO_x and VOC emission rates are evaluated separately as ozone precursors and are not summed for comparison to the 250-tpy threshold. Accordingly, an additional quantitative ozone impact analysis is not required for the Project.

4.3.1 Air Toxics Modeling

The Project will emit H₂SO₄ and NH₃, which are regulated as TAPs. Short term pound per hour H₂SO₄ and NH₃ emissions for each engine are shown in Table 1. Each engine exhausts through a 200-ft (60.96-m) stack. Based on the stack-height release correction factors provided in Table 24 of the NMED Air Dispersion Modeling Guidelines (NMED 2026), a correction factor of 152 applies to release heights from 60 to 69.9 m. The emission rate from each release point was divided by the applicable correction factor, and the resulting adjusted emission rates were summed to determine the total adjusted Project emission rate for comparison with the applicable TAP emission-rate screening level.

Table 1. Toxic Air Pollutant Modeling Applicability

Pollutant	Emission Rate Screening Level (lb/hr)	Per Engine Emission Rate (lb/hr)	Project-Wide Emission Rate After Correction Factor (lb/hr)	Exceeds Screening Level?
H ₂ SO ₄	0.0067	0.0267	0.0056	No

NH ₃	1.2	1.0	0.21	No
-----------------	-----	-----	------	----

Source: 20.2.72.502 NMAC.

As summarized in Table 1, the adjusted Project-wide emission rates for H₂SO₄ and NH₃ are below their respective emission-rate screening levels. Therefore, dispersion modeling of these TAPs is not required.

4.4 Modeling Approach

Modeling was conducted using a tiered approach. Project-only impacts were first compared with the applicable significant impact level (SIL) or NMED significance criterion for each pollutant and averaging period. Where Project-only impacts were below the applicable significance criterion, no further cumulative NAAQS/NMAAQs analysis was required. Where impacts exceeded the applicable criterion, a refined cumulative analysis was conducted using the procedures described in Section 4.4.2. Applicable PSD Class II increments were evaluated separately as described in Section 4.4.3. The pollutant-specific significance levels, ambient standards, and Class II increments used in the analysis are summarized in Table 2.

Table 2. Air Quality Standard Summary

Pollutant	Averaging Period	Significance Level (µg/m ³)	NAAQS (µg/m ³)	NMAAQs (µg/m ³)	PSD Class II Increment (µg/m ³)
CO	8-hour	500	10,303.6	9,960.1	--
	1-hour	2,000	40,069.6	14,997.5	--
NO ₂	Annual	1.0	99.6	94.02	25
	24-hour	5.0	--	188.03	--
	1-hour	7.52	188.03	--	--
PM _{2.5}	Annual	0.13	9.0	--	4
	24-hour	1.2	35	--	9
PM ₁₀	Annual	1.0	--	--	17
	24-hour	5.0	150	--	30
SO ₂	Annual	1.0	--	52.4	20
	24-hour	5.0	--	261.9	91
	3-hour	25.0	1,309.3	--	512
	1-hour	7.8	196.4	--	--

Source: NMED (2026). The former 3-hour SO₂ secondary NAAQS is presented for completeness because it remains listed in the current NMED Air Dispersion Modeling Guidelines; EPA revised the secondary SO₂ NAAQS in 2024 to an annual standard (89 FR 105692).

4.4.1 Radius of Impact Analysis

Project-only modeling was used to identify the radius of impact (ROI) for each applicable pollutant and averaging period. The ROI was defined as the maximum distance from the Project at which modeled impacts met or exceeded the corresponding SIL or NMED significance criterion. The significance-analysis results and pollutants requiring refined cumulative analysis are presented in Section 5.

4.4.2 Cumulative NAAQS/NMAAQs Analysis

For pollutant and averaging-period combinations exceeding the applicable significance criterion, refined cumulative modeling was conducted to evaluate compliance with the applicable NAAQS or NMAAQs. Total concentrations incorporate Project impacts, representative monitored background concentrations, and explicitly modeled nearby sources where required. Background concentrations were applied in a manner

consistent with the form of the applicable standard. The pollutant-specific cumulative-analysis procedures are summarized in Table 3.

4.4.3 PSD Class II Increment Evaluation

Applicable PSD Class II increments were evaluated using Project emissions and applicable increment-consuming nearby sources. For AQCR 12, the minor source baseline date for NO₂, SO₂, and PM₁₀ is August 10, 1995. A minor source baseline date has not been established for PM_{2.5} in AQCR 12; nevertheless, PM_{2.5} increment impacts were evaluated conservatively using the Project and applicable nearby sources included in the increment analysis as increment-consuming sources.

Applicable nearby sources were explicitly modeled using source locations, emissions, and release parameters obtained from the NMED MergeMaster database and were conservatively treated as increment-consuming sources. Modeled PSD increment concentrations were calculated using the applicable AERMOD averaging-period outputs and regulatory post-processing options. The pollutant-specific nearby-source treatment and modeled concentration statistics are summarized in Table 3.

Table 3. Pollutant-Specific Modeling and Design Value Summary

Averaging Period	Model Nearby Sources or Add Background ¹ ?	Modeled Concentration
CO 8-hour NMAAQS	N/A – Project-Only Result Below SIL	High 8 hour
CO 1-hour NMAAQS	N/A – Project-Only Result Below SIL	High 1 hour
NO ₂ annual NMAAQS	N/A – Project-Only Result Below SIL	Annual average
NO ₂ annual PSD increment	N/A – Project-Only Result Below SIL	Annual average
NO ₂ 1-hour NAAQS	Nearby Sources	98th-percentile 1 hour
PM _{2.5} annual NAAQS	Nearby Sources and Background	Annual average
PM _{2.5} annual PSD increment	Nearby Sources	Annual average
PM _{2.5} 24-hour NAAQS	Nearby Sources and Background	98th-percentile 24 hour
PM _{2.5} 24-hour PSD increment	Nearby Sources	High second high 24 hour
PM ₁₀ annual PSD increment	N/A – Project-Only Result Below SIL	Annual average
PM ₁₀ 24-hour NAAQS	Nearby Sources and Background	High second high 24 hour
PM ₁₀ 24-hour PSD increment	Nearby Sources	High second high 24 hour
SO ₂ annual PSD increment	N/A – Project-Only Result Below SIL	Annual average
SO ₂ 24-hour PSD increment	Nearby Sources	High second high 24 hour
SO ₂ 3-hour PSD increment	Nearby Sources	High second high 3 hour
SO ₂ 1-hour NAAQS	Background	99th-percentile 1 hour

¹ Background concentrations added have the same form as the air quality standard. For example, if the standard is the 98th percentile then the 98th percentile modeled (high-eighth-high) concentration would be added to the 98th percentile monitored concentration.

4.5 Source Data

The Universal Transverse Mercator (UTM) coordinate system referenced to the North American Datum of 1983 (NAD83), Zone 12, was used to define all spatial inputs for the modeling analysis, including emission source locations, building dimensions and locations, and receptor coordinates. The following subsections describe the characterization of modeled emission sources, including point sources along with the source parameters required for AERMOD.

4.5.1 Source Characterization

The emission sources at the project site that vent to stacks with a well-defined opening were modeled as point sources. The following stack parameters are needed to model point sources:

- Emission rate in grams per second (g/s)
- Stack inside diameter in meters
- Stack height above ground level in meters
- Stack gas exit velocity in meters per second (m/s)
- Stack gas exit temperature in Kelvin (K)

All 32 internal combustion engines to be installed with the Project were modeled as point sources:

Each point source was characterized using unit specific release parameters, including emission rates and physical stack characteristics. Release parameters were developed using vendor supplied design information where available, supplemented by representative values from comparable permitted facilities where final design information is not yet available. A detailed summary of modeled emission units and associated release parameters is provided in Appendix A and Appendix B.

A summary of each emissions unit and its stack characteristics is provided below.

4.5.1.1 INTERNAL COMBUSTION ENGINES (ID: ICE01 – ICE32)

ICE01 through ICE32 were modeled as individual point sources using the locations and stack parameters summarized in Appendix B. Each engine exhausts through a 60.96-m (200-ft) vertical stack with a 1.52-m (5-ft) inside diameter.

SUSD conditions may result in elevated short term emission rates and therefore have the potential to drive worst case modeled concentrations for certain pollutants and averaging periods. Accordingly, SUSD emissions were incorporated into the modeling approach to ensure that short term impacts were conservatively represented. A hybrid operating hour was used to conservatively represent conditions during which SUSD transitions occur within an hour. For the hybrid case, the modeled hour assumed 30 minutes of SUSD operation and 30 minutes of normal steady state operation, and hourly emission rates were represented using time weighted emission rates consistent with this assumption.

The complete emissions inventory, including pollutant specific hourly emission rates for each modeled operating condition, is provided in Appendix A. Stack release parameters used in the dispersion modeling analysis, including stack height, stack diameter, exhaust temperature, exhaust flow rate, and exit velocity, are provided in Appendix B.

4.5.1.2 STARTUP/SHUTDOWN OPERATIONS AND AVERAGING PERIOD APPROACH

In addition to the normal operating scenarios described above, the modeling evaluated startup and shutdown (SUSD) operations using hybrid emission rates that represent a combination of SUSD and normal operation. The 32 Wärtsilä engines are projected to have up to 60 SUSD events per engine per year.

For the modeled SUSD scenario, all 32 engines were assumed to undergo SUSD concurrently; therefore, the analysis does not rely on staggered startup or shutdown to reduce modeled impacts.

For the 1-hour averaging period, the hybrid emission rate was modeled for the full hour. For the 8-hour averaging period, the hybrid emission rate was conservatively applied for the full 8 hours. This is a conservative modeling assumption and does not represent an anticipated continuous 8-hour SUSD event. For the 24-hour averaging period, one hour was modeled at the hybrid emission rate and the remaining 23 hours at the normal operating emission rate.

For annual averaging periods, annual potential-to-emit (PTE) emission rates were used rather than extrapolating the short-term hybrid rates over the year. Annual PTE incorporates the applicable annual operating assumptions, including the permitted number of SUSD events.

4.5.2 Good Engineering Practice Stack Height Analysis

Plume dispersion from point sources can be substantially affected by airflow patterns created by nearby structures. For stacks with heights below the applicable Good Engineering Practice (GEP) stack height, air dispersion modeling must account for building wake effects (i.e., building downwash) on plume behavior.

A GEP stack height evaluation was conducted to identify the appropriate building dimensions for inclusion in the dispersion model. The evaluation also calculated the GEP formula stack height to support stack height credit for any stacks designed to exceed 65 m (213 ft), however no stacks were modeled above the default GEP stack height. The procedures used for this analysis adhered to the methods described in the EPA *Guidelines for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations) (Revised)* (EPA 1985).

According to the definition in 40 CFR 51, the GEP formula stack height is calculated using the following equation:

$$\text{GEP} = \text{Hb} + 1.5\text{L},$$

where Hb is the building height; and L is the lesser of the building height or maximum projected width.

4.6 Monitored Background Data

Representative ambient background concentrations were incorporated into the cumulative compliance analyses to account for pollutant contributions not explicitly represented by modeled sources. Background concentrations were developed using representative monitoring data and applied consistent with the statistical form of the applicable ambient standard. Table 4 identifies the monitoring station, period of record, and resulting concentration used for each pollutant and averaging period.

The specific background monitors selected for each pollutant (CO, NO₂, PM_{2.5}, PM₁₀, and SO₂) are identified in Table 4.

4.6.1 CO Background Concentration

For CO, background concentrations were derived from the Del Norte High School monitoring station (AQS ID 350010023) located in Albuquerque. Background concentrations represent the applicable monitored concentrations for the years 2021 through 2023, as compiled in the NMED Air Dispersion Modeling Guidelines.

4.6.2 *NO₂ Background Concentration*

For NO₂, background concentrations are listed from the Deming monitoring station (AQS ID 350290003), which is the monitor identified in the NMED modeling guidance as representative of the project area in Southwestern New Mexico. Listed background concentrations were compiled from the value included in the NMED Modeling Guidelines and are for monitoring data collected from 2013 through 2015. The annual background concentration is the maximum of the three annual mean concentrations. The 1-hour background concentration represents the 98th percentile of the annual daily maximum 1-hour values for the three-year period.

As detailed in NMED modeling guidance, compliance with the 24-hour NO₂ NMAAQs may be demonstrated by complying with the 1-hour NO₂ NAAQS. Therefore, no 24-hour NO₂ background concentration is listed.

4.6.3 *PM_{2.5} Background Concentration*

For PM_{2.5}, background concentrations were derived from the Anthony monitoring station (AQS ID 350130016). The selected station provides a conservative measure of background PM_{2.5} concentrations (i.e., higher monitored design value) across the South Central region, while being located farther from an urban area, and therefore is more representative of the Project area. Listed background concentrations were compiled from the values included in the NMED Modeling Guidelines and are based on monitoring data collected from 2021 through 2023.

4.6.4 *PM₁₀ Background Concentration*

For PM₁₀, background concentrations were derived from the Deming Airport monitoring station (AQS ID 350290003). Listed background concentrations were compiled from the values included in the NMED Modeling Guidelines and are based on monitoring data collected from 2021 through 2023.

4.6.5 *SO₂ Background Concentration*

For SO₂, background concentrations were derived from the Hurley monitoring station (AQS ID 350171003). Listed background concentrations were compiled from the value included in the NMED Modeling Guidelines for Southwest New Mexico and are from monitoring data collected from 2013 through 2015.

Table 4. Background Levels of Criteria Pollutants

Pollutant	Averaging Period	Region	ID	Location	Background Concentration ($\mu\text{g}/\text{m}^3$)	Years	Latitude	Longitude	Address
CO	1-hour	The rest of New Mexico	350010023	Del Norte High School	1,560	2021-2023	35.1343	-106.585	4700a San Mateo NE, Albuquerque, NM
	8-hour	The rest of New Mexico	350010023	Del Norte High School	1,035	2021-2023	35.1343	-106.585	4700a San Mateo NE, Albuquerque, NM
NO ₂	1-hour	Southwestern NM	7E, 350290003	Deming	53.277	2013-2015	32.2558	-107.723	310 Airport Road, Deming, NM88030
	Annual	Southwestern NM	7E, 350290003	Deming	6.966	2013-2015	32.2558	-107.723	310 Airport Road, Deming, NM88030
PM _{2.5}	24-hour	South Central	6CM, 350130016	Anthony	21.9	2021-2023	31.78778	-106.683	SE Corner of Anthony Elem. School Yard
	Annual	South Central	6CM, 350130016	Anthony	7.8	2021-2023	31.78778	-106.683	SE Corner of Anthony Elem. School Yard
PM ₁₀	24-hour	Southwestern	7E, 350290003	Deming Airport	114.7	2021-2023	32.2558	-107.7227	310 Airport Road, Deming
	Annual	Southwestern	7E, 350290003	Deming Airport	22.0	2021-2023	32.2558	-107.7227	310 Airport Road, Deming
SO ₂	1-hour	Southwest New Mexico	7T, 350171003	Hurley Smelter	1.8	2013-2015	32.69194	-108.124	Chino Blvd Near Hurley Park, Hurley, NM
	Annual	Southwest New Mexico	7T, 350171003	Hurley Smelter	0.02	2013-2015	32.69194	-108.124	Chino Blvd Near Hurley Park, Hurley, NM

Source: (NMED 2026), Section 4.4 (Background Concentrations).

4.7 Receptors

Air dispersion models calculate concentrations at specific locations, called receptors. A tiered nested receptor grid was used to estimate concentrations in the vicinity of the evaluated release points. Modeled receptors were placed in all areas considered as “ambient air,” pursuant to 40 CFR 50.1(i). Ambient air is defined as that portion of the atmosphere, external to buildings, to which the general public has access.

The following comprehensive fine and coarse receptor network was used for this analysis:

- Receptors spaced at 25-m intervals along the facility boundary
- Receptors spaced at 50-m intervals extending out to 500 m from the facility boundary in all directions
- Receptors spaced at 100-m intervals between 500 m and 2.0 km from the facility boundary
- Receptors spaced at 250-m intervals between 2.0 km and 5.0 km from the facility boundary
- Receptors spaced at 500-m intervals between 5.0 km and 10.0 km from the facility boundary
- Where receptors were required beyond 10.0 km, they were spaced at 1,000 m intervals to a maximum of 50.0 km

This receptor grid was used for the Significant Impact Level (SIL) modeling. The receptor network was sufficiently extensive to characterize the significant impact area for each modeled pollutant and averaging period and to evaluate concentrations up to 50 km from the Project. Receptor terrain elevations were retrieved from United States Geological Survey national elevation datasets on a one third arc second resolution. The Project site is located within 50 km of the international border with Mexico, and if expansion of the receptor grid was necessary, receptors were limited to areas within the U.S.

4.8 Terrain Data and Resolution

Terrain elevations for the modeling analysis were developed consistent with Appendix W to 40 CFR 51 and NMED AQB air dispersion modeling guidance. Terrain data were obtained from publicly available National Elevation Dataset (NED) digital elevation model (DEM) files accessed through WebGIS within AERMOD View. Elevation data were based on the North American Datum of 1983 (NAD83) and used DEM files with a nominal horizontal resolution of 10 meters (one third arc-second).

Terrain data were processed using the U.S. EPA AERMAP terrain preprocessor in conjunction with the AERMOD modeling system. AERMAP assigned base elevations to all emission sources, structures, and receptors, and calculated receptor-specific hill height scales used by AERMOD to characterize terrain influences on plume transport and dispersion.

4.9 Meteorological Data

Meteorological data for the air dispersion modeling analysis were selected to represent dispersion conditions at the Project location consistent with the NMED AQB air dispersion modeling guidance. Site-specific on-site meteorological data are not available for the proposed facility. Therefore, an NMED-approved processed meteorological dataset was selected based on regional representativeness, including

similarity of terrain and land use, and the expected influence of basin-and-range topography on wind patterns.

The selected dataset is the Deming meteorological station (latitude 32.256°N, longitude 107.722°W; elevation 1,312 m), approximately 68.9 km from the Project area, using the NMED processed five-year dataset for 2020 through 2024. The Deming station is located within the same general basin-and-range setting and is characterized by rural land use and arid to semi-arid climate conditions similar to the Project area. These similarities support use of the Deming dataset as representative of atmospheric mixing, dispersion, and transport conditions for the Project.

4.10 Nearby Source Inventory

Surrounding-source emissions inventory data were obtained from the NMED AQB MergeMaster source-retrieval database for use in the cumulative AERMOD analyses, consistent with NMED air dispersion modeling guidance. Nearby sources were included, as applicable, in the cumulative 1-hour NO₂, PM_{2.5}, PM₁₀, and PSD increment analyses summarized in Table 3.

AQB-provided sources located within 25 km of the Project, along with larger emitters identified by the MergeMaster retrieval at distances up to 50 km, were retained for cumulative modeling. The pollutant- and averaging-period-specific treatment of nearby sources is summarized in Table 3.

4.11 NO₂ Analysis

The EPA's *Guideline on Air Quality Models* (40 CFR 51, Appendix W) recommends a tiered approach for modeling annual average NO₂ concentrations. Additionally, the March 2011 EPA memo, *Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO₂ National Ambient Air Quality Standard* (EPA 2011), outlines a similar tiered approach for modeling 1-hour average NO₂ concentrations. According to the guideline and memo:

- Tier 1: Assumes a total conversion of NO to NO₂.
- Tier 2: Uses the Ambient Ratio Method Version 2 (ARM2) by multiplying the Tier 1 estimates by an empirically derived ambient NO₂/NO_x ratio.

For the NO₂ impact analysis, a Tier 2 approach was used to estimate NO₂ concentrations for both 1-hour and annual NO₂ averaging periods. Tier 2 assumes that the conversion of NO_x to NO₂ reaches an equilibrium in the atmosphere. The ARM2 analysis used a minimum ambient NO₂/NO_x ratio of 0.20 and the default maximum ratio of 0.90. Consistent with Section 2.6.4.3 of the NMED Air Dispersion Modeling Guidelines (NMED 2026), a minimum ratio as low as 0.20 may be used where the in-stack NO₂/NO_x ratio of the modeled emission units is equal to or less than the selected minimum ambient ratio. EPA's In-Stack Ratio (ISR) Database indicates that a minimum ratio of 0.20 is conservative for internal combustion engines comparable to those proposed for the Project. Accordingly, a minimum ARM2 ratio of 0.20 was used, while the default maximum ratio of 0.90 was retained.

4.12 Secondary PM_{2.5} Formation

Secondary PM_{2.5} impacts associated with Project emissions of the precursor pollutants NO_x and SO₂ were evaluated using the Modeled Emission Rates for Precursors (MERP) screening approach and the applicable values provided in the 2026 NMED modeling guidance.

The Project has potential emissions of 183.9 tons per year (tpy) of NO_x and 8.7 tpy of SO₂. For the annual PM_{2.5} averaging period, MERP values of 130,260 tpy for NO_x and 53,898 tpy for SO₂ were used (NMED 2026). For the 24-hour PM_{2.5} averaging period, MERP values of 42,498 tpy for NO_x and 9,753 tpy for SO₂ were used (NMED 2026). The resulting secondary PM_{2.5} contributions are summarized in Table 5.

Table 5. Secondary PM_{2.5} Formation Evaluation

Parameter	Annual PM _{2.5}	24-hour PM _{2.5}
Project NO _x emissions (tpy)	183.9	183.9
Project SO ₂ emissions (tpy)	8.7	8.7
NO _x MERP (tpy)	130,260	42,498
SO ₂ MERP (tpy)	53,898	9,753
Calculated secondary PM_{2.5} contribution (µg/m³)	0.000315	0.006261

Source: MERP values based on NMED 2026 modeling guidance.

The MERP screening analysis resulted in estimated secondary PM_{2.5} concentrations of 0.000315 µg/m³ for the annual averaging period and 0.006261 µg/m³ for the 24-hour averaging period. For the PM_{2.5} significant impact analysis, these secondary formation contributions were added to the corresponding direct Project-only PM_{2.5} concentrations prior to comparison with the applicable SILs. Therefore, the PM_{2.5} concentrations reported for the significant impact analysis in Section 5.1 represent the combined direct and secondary Project impacts. Because the combined Project impacts exceeded the applicable PM_{2.5} SILs, cumulative PM_{2.5} NAAQS analyses were conducted as described in Section 5.2.

5 MODELING RESULTS AND COMPLIANCE DEMONSTRATION

This section of the report includes summary tables of the modeled design values for the SIL and NAAQS modeling for the Project. For 1-hour NO₂, the operating scenario evaluation included startup scenario emissions for the engines, with the highest-impact scenario retained for the refined analysis. For particulate matter, the short-term evaluation included normal operating and SUSD conditions consistent with the averaging-period assumptions described in Section 4.5.1. Annual analyses were based on annual PTE emission rates. Electronic copies of the complete modeling files and supporting datasets have been provided as a separate electronic attachment. The electronic attachment includes AERMOD input and output files, meteorological data files, all supporting calculation files, as applicable.

5.1 Results of the Significant Impact Analysis

Table 6 details the results of the significant impact analysis following the methods described in Section 4.4.1. The listed impacts reflect the highest predicted concentration from the operating scenarios evaluated for each pollutant and averaging period, including startup operation with the stack parameters and emissions listed in Appendix B.

Table 6. Significant Impact Analysis Results

Pollutant	Averaging Period	Class II SIL ($\mu\text{g}/\text{m}^3$)	Project-Only Maximum Concentration ($\mu\text{g}/\text{m}^3$)	Exceeds SIL? (Yes/No)	Radius of Impact (km)
CO	1-hour	2,000	495	No	--
CO	8-hour	500	126	No	--
NO ₂	1-hour	7.5	142.5	Yes	10
NO ₂	Annual	1	0.59	No	--
PM _{2.5}	24-hour	1.2	10.1	Yes	27
PM _{2.5}	Annual	0.13	0.80	Yes	11
PM ₁₀	24-hour	5	10.1	Yes	9
PM ₁₀	Annual	1	0.80	No	--
SO ₂	1-hour	7.8	83.1	Yes	10
SO ₂	3-hour	25	48.5	Yes	9
SO ₂	24-hour	5	7.1	Yes	9
SO ₂	Annual	1	0.6	No	--

Note: PM_{2.5} concentrations include the calculated secondary PM_{2.5} contributions of 0.006261 $\mu\text{g}/\text{m}^3$ for the 24-hour averaging period and 0.000315 $\mu\text{g}/\text{m}^3$ for the annual averaging period. These secondary contributions were added to the respective direct Project-only modeled concentrations prior to comparison with the applicable PM_{2.5} SILs.

Project-only concentrations were compared with the applicable significance criteria to determine whether cumulative analyses were required. For PM_{2.5}, the Project-only concentrations included both the direct modeled impacts and the secondary PM_{2.5} contributions calculated using the MERP approach described in Section 4.12. As shown in Table 6, the combined direct and secondary Project impacts exceeded the applicable 24-hour and annual PM_{2.5} SILs. Accordingly, cumulative NAAQS analyses were conducted for both PM_{2.5} averaging periods, as presented in Section 5.2.

Based on the Project-only significant impact analysis, modeled concentrations were below the applicable significance criteria for 1-hour and 8-hour CO, annual NO₂, annual PM₁₀, and annual SO₂. No further cumulative analysis was required for these pollutant and averaging-period combinations. Modeled concentrations exceeded the applicable significance criteria for 1-hour NO₂, 24-hour and annual PM_{2.5}, 24-hour PM₁₀, and 1-hour, 3-hour, and 24-hour SO₂. These pollutant and averaging-period combinations were evaluated further, as applicable, for compliance with the NAAQS/NMAAQs and PSD Class II increments, as presented in Sections 5.2 and 5.3.

5.2 NAAQS Analysis Results

Cumulative NAAQS/NMAAQs analyses were conducted for the pollutant and averaging-period combinations for which Project-only impacts exceeded the applicable significance criterion, as described in Section 4.4.2. The cumulative analyses incorporated representative background concentrations and explicitly modeled nearby sources, as applicable to each pollutant and averaging period and as summarized in Table 3. For 1-hour NO₂, the cumulative modeled concentration included contributions from the Project and applicable nearby sources; consistent with NMED modeling guidance, a separate monitored background concentration was not added to the modeled result. Consistent with the significant

impact analysis, the cumulative PM_{2.5} evaluation included the secondary PM_{2.5} contributions calculated using the MERP approach described in Section 4.12. Table 7 summarizes the resulting cumulative concentrations and comparison with the applicable ambient air quality standards.

Table 7. NAAQS Analysis Results

Pollutant	Averaging Period	Modeled Statistic	NAAQS (µg/m ³)	Modeled Concentration (µg/m ³)	Background Concentration (µg/m ³)	Total Concentration (µg/m ³)	Exceeds NAAQS? (Yes/No)
NO ₂	1-hour	H8H	188	140.1	N/A	140.1	No
PM _{2.5}	24-hour	H8H	35	4.9	21.9	26.8	No
PM _{2.5}	Annual	Annual Average	9	0.8	7.8	8.6	No
PM ₁₀	24-hour	H2H	150	8.8	114.7	123.5	No
SO ₂	1-hour	H4H	196	72.2	1.8	74.0	No

PM_{2.5} total concentrations include the calculated secondary PM_{2.5} contributions of 0.006261 µg/m³ for the 24-hour averaging period and 0.000315 µg/m³ for the annual averaging period. Values shown in the table are rounded to the displayed precision.

Modeled concentrations in Table 7 reflect the design-value statistics used in the cumulative NAAQS analyses. The modeled statistics are the high-eighth-high (H8H) for 1-hour NO₂ and 24-hour PM_{2.5}, high-second-high (H2H) for 24-hour PM₁₀, high-fourth-high (H4H) for 1-hour SO₂, and annual average for annual PM_{2.5}. Because the 1-hour NO₂ concentration in Table 7 represents the H8H design-value statistic, it is not directly comparable to the maximum 1-hour Project-only concentration reported in Table 6 for significance screening. The controlling Project operating scenario was retained in the cumulative analysis.

As shown in Table 7, the modeled cumulative concentrations are below the applicable NAAQS for 1-hour NO₂, 24-hour and annual PM_{2.5}, 24-hour PM₁₀, and 1-hour SO₂. Therefore, the modeling analysis demonstrates compliance with the applicable NAAQS for the pollutant and averaging-period combinations requiring cumulative analysis.

5.3 PSD Increment Analysis Results

PSD Class II increment analyses were conducted for the applicable pollutant and averaging-period combinations using the procedures described in Section 4.4.3. Applicable nearby sources were conservatively treated as increment-consuming sources and included in the cumulative increment analysis as summarized in Table 3. Modeled concentrations were compared with the applicable PSD Class II increments summarized in Table 2. As shown in Table 8, modeled concentrations are below the applicable PSD Class II increments for all evaluated pollutant and averaging-period combinations.

Table 8. PSD Increment Analysis Results

Pollutant	Averaging Period	Class II PSD Increment (µg/m ³)	Modeled Concentration	Exceeds Increment? (Yes/No)
PM _{2.5}	24-hour	9	8.5	No
	Annual	4	0.8	No

Site Layer 1 Data Center Project, Grant County, New Mexico
Air Dispersion Modeling Report

PM ₁₀	24-hour	30	10.1	No
SO ₂	3-hour	512	215	No
SO ₂	24-hour	91	75	No

6 LITERATURE CITED

New Mexico Environment Department (NMED). 2026. *Air Dispersion Modeling Guidelines*. July 2026
Available at: <https://service.web.env.nm.gov/urls/ejmESjlz>

U.S. Environmental Protection Agency (EPA). 1985. *Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for Stack Height Regulations) (Revised)*. EPA-450/4-80-023R. June. Research Triangle Park, North Carolina: Office of Air Quality Planning and Standards. Available at: <https://www.epa.gov/sites/default/files/2020-09/documents/gep.pdf>.

———. 2011. *Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO₂ National Ambient Air Quality Standard*. March 2011. Available at: https://www.epa.gov/sites/default/files/2020-10/documents/additional_clarifications_appendixw_hourly-no2-naaqs_final_03-01-2011.pdf.

APPENDIX A

Emissions Inventory

Site Layer 1, LLC
Facility Emission Calculations
Criteria Pollutant Emissions

Key Inputs

Engine Type	Wartsila 20V34SG
Number of Engines	32 units
Energy Output Per Engine	9.4 MW/unit
Total Energy Output	299.84 MW
Hours of Operation	8,729 hr/yr
Number of Starts/Stops, per engine	60 events/yr
Duration of Start Time	30 min
Duration of Shutdown	1 min
Hours of SSM, per engine	31 hr/yr
Gross Heat Rate, per engine	8,432 Btu/kWh
Heat Input, per engine	79.01 MMBtu/hr

Notes:

Based on available natural gas volume
Based on the Wartsila Technology Presentation - Gas Engine Specifications, max power output
Multiplies MW/unit by # units
Assumption, based on feedback from manufacturer
Assumption, based on feedback from manufacturer
Based on spec sheet, regular start time plus additional time for controls to be fully operational

Sums durations of start+stop, multiplies by event/yr
Net HHV from the Wartsila Technology Presentation - Gas Engine Specifications
Estimated Heat Input (MMBtu/hr) = Gross Heat Rate (Btu/kWh) * Gross Electric Output (MWe) * (1,000 kWe / 1 MWe) * (1 MMBtu/1,000,000 Btu)

Engine Emissions Summary and Permit Applicability

ID	NOx		VOC		CO		PM ₁₀		PM _{2.5}		SO ₂ ³		NH ₃		H ₂ SO ₄ ⁴		Single Highest HAP ⁵		Total HAPs	
	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	lb/hr	tpy
Engine - Normal Operation ¹	1.30	5.67	1.70	7.42	1.70	7.42	1.60	6.98	1.60	6.98	0.23	0.25	1	4.36	0.03	0.12	0.13	0.57	0.30	1.32
SSM ²	4.75	0.07	2.15	0.03	6.85	0.11	2.30	0.04	2.30	0.04	1.15	1.78E-02	1	1.55E-02	0.13	2.05E-03	0.87	1.34E-02	2.02	3.13E-02
TOTALS (ALL ENGINES)		183.92		238.50		240.83		224.60		224.60		8.68		140.16		3.79		19.59		43.34

Notes:

¹ Hourly engine emissions for NOx, CO, VOC (as CH₄), PM₁₀, PM_{2.5} and NH₃ are post-control values provided by Wartsila. Values assume using pipeline natural gas, ambient conditions according to ISO 3046, and the use of selective catalytic reduction system and an oxidation catalyst.
² Hourly MSS emissions for NOx, VOC, CO and PM₁₀ were provided by Wartsila in the document "Expected Startup and Unloading Emissions 20V34SG". MSS emissions represent emissions from 12 hours standby time (assumed warm start). Overall hourly emissions are calculated using 30 min startup emissions and 30 min of normal operating emissions. Other pollutant emissions were estimated from the Technical Review Document for Antelope Station (TCEQ Permit No. 91644) which uses the same Wartsila 20V34SG engines proposed in this project.
³ SO₂ emission factors was calculated by using AP-42 Chapter 3 Section 2 - Natural Gas-fired Reciprocating Engines Table 3.2-2 Uncontrolled Emission Factors for 4-Stroke Lean-Burn Engines. The factor was ratioed compared to the concentration used in Table 3.2-2. A basis of 1 gr/100 scf was used for hourly emissions and 0.25 gr/100 scf for the annual total.
⁴ H₂SO₄ emissions were calculated using the following formula: H₂SO₄ emissions = SO₂ emissions x 7.5% x (H₂SO₄ Molecular Weight / SO₂ Molecular Weight).
⁵ Speciated HAP emissions are detailed in table below. Single highest HAP is Formaldehyde.

Site Layer 1, LLC
Facility Emission Calculations
HAP and TAP Emissions

Single Unit Hazardous Air Pollutant and Toxic Air Pollutant Emissions

Hazardous Air Pollutant	Toxic Air Pollutant? (Y/N)	Emission Factor ¹ (lb/MMBtu)	Controlled Emissions ²			Facility PTE ⁴	
			lb/hr	lb/yr	tpy	tpy	lb/hr
1,1,2,2-Tetrachloroethane	NO	4.00E-05	4.74E-04	4.14E+00	2.07E-03	6.62E-02	
1,1,2-Trichloroethane	NO	3.18E-05	3.77E-04	3.29E+00	1.64E-03	5.26E-02	
1,3-Butadiene	NO	2.67E-04	3.16E-03	2.76E+01	1.38E-02	4.42E-01	
1,3-Dichloropropene	NO	2.64E-05	3.13E-04	2.73E+00	1.37E-03	4.37E-02	
2-Methylnaphthalene	NO	3.32E-05	3.93E-04	3.43E+00	1.72E-03	5.50E-02	
2,2,4-Trimethylpentane	NO	2.50E-04	2.96E-03	2.59E+01	1.29E-02	4.14E-01	
Acenaphthene	NO	1.25E-06	1.48E-05	1.29E-01	6.47E-05	2.07E-03	
Acenaphthylene	NO	5.53E-06	6.55E-05	5.72E-01	2.86E-04	9.15E-03	
Acetaldehyde	NO	8.36E-03	0.10	8.65E+02	0.43	13.84	3.17
Acrolein	NO	5.14E-03	0.06	5.32E+02	0.27	8.51	1.95
Benzene	NO	4.40E-04	5.21E-03	4.55E+01	2.28E-02	7.28E-01	
Benzo(b)fluoranthene	NO	1.66E-07	1.97E-06	1.72E-02	8.59E-06	2.75E-04	
Benzo(e)pyrene	NO	4.15E-07	4.92E-06	4.29E-02	2.15E-05	6.87E-04	
Benzo(g,h,i)perylene	NO	4.14E-07	4.91E-06	4.28E-02	2.14E-05	6.85E-04	
Biphenyl	NO	2.12E-04	2.51E-03	2.19E+01	1.10E-02	3.51E-01	
Carbon Tetrachloride	NO	3.67E-05	4.35E-04	3.80E+00	1.90E-03	6.07E-02	
Chlorobenzene	NO	3.04E-05	3.60E-04	3.14E+00	1.57E-03	5.03E-02	
Chloroform	NO	2.85E-05	3.38E-04	2.95E+00	1.47E-03	4.72E-02	
Chrysene	NO	6.93E-07	8.21E-06	7.17E-02	3.58E-05	1.15E-03	
Ethylbenzene	NO	3.97E-05	4.70E-04	4.11E+00	2.05E-03	6.57E-02	
Ethylene Dibromide	NO	4.43E-05	5.25E-04	4.58E+00	2.29E-03	7.33E-02	
Fluoranthene	NO	1.11E-06	1.32E-05	1.15E-01	5.74E-05	1.84E-03	
Fluorene	NO	5.67E-06	6.72E-05	5.87E-01	2.93E-04	9.38E-03	
Formaldehyde ³	NO		0.13	1.13E+03	0.57	18.16	4.16
Methanol	YES	2.50E-03	0.03	2.59E+02	0.13	4.14	0.95
Methylene Chloride	NO	2.00E-05	2.37E-04	2.07E+00	1.03E-03	3.31E-02	
n-Hexane	NO	1.11E-03	0.01	1.15E+02	0.06	1.84	0.42
Naphthalene	NO	7.44E-05	8.82E-04	7.70E+00	3.85E-03	1.23E-01	
PAH	NO	2.69E-05	3.19E-04	2.78E+00	1.39E-03	4.45E-02	
Phenanthrene	NO	1.04E-05	1.23E-04	1.08E+00	5.38E-04	1.72E-02	
Phenol	NO	2.40E-05	2.84E-04	2.48E+00	1.24E-03	3.97E-02	
Pyrene	NO	1.36E-06	1.61E-05	1.41E-01	7.03E-05	2.25E-03	
Styrene	NO	2.36E-05	2.80E-04	2.44E+00	1.22E-03	3.91E-02	
Perchloroethylene	NO	2.48E-06	2.94E-05	2.57E-01	1.28E-04	4.10E-03	
Toluene	NO	4.08E-04	4.84E-03	4.22E+01	2.11E-02	6.75E-01	
Vinyl Chloride	NO	1.49E-05	1.77E-04	1.54E+00	7.71E-04	2.47E-02	
Xylene	NO	1.84E-04	2.18E-03	1.90E+01	9.52E-03	3.05E-01	
		TOTAL	0.36	3141	1.57	42.3	9.70
		Single Highest HAP	0.13	1134.77	0.57	18.16	4.16

¹ Emission factors for trace organic compounds are from AP-42 Chapter 3 Section 2 – *Natural Gas-fired Reciprocating Engines* Table 3.2-2 Uncontrolled Emission Factors for 4-Stroke Lean-Burn Engines.

² Oxidation catalysts installed on lean-burn natural gas-fired RICE are capable of achieving significant reductions in formaldehyde and other organic HAP emissions. Consistent with EPA RICE MACT technical support documentation and permitting practice, a conservative overall organic HAP control efficiency of approximately 85 percent is appropriate absent source-specific stack test data.

³ Emissions for formaldehyde are post-control values provided by Wartsila with units of lb/hr. Values assume using pipeline natural gas, ambient conditions according to ISO 3046, and the use of selective catalytic reduction system and an oxidation catalyst.

⁴ PTE for each HAP from each regulated emission unit is only reported if the entire facility emits the HAP at a rate greater than or equal to 1 tpy. Facility total HAPs is limited to the sum of HAPs greater than or equal to 1 tpy.

Site Layer 1, LLC
Facility Emission Calculations
GHG Emissions

Single Unit Wartsila 20V34SG Greenhouse Gas Emissions

Greenhouse Gas	Emission Factor ^{1,2} (lb/MMBtu)	GHG Emissions			Global Warming Potential ³	CO ₂ e Emissions	
		lb/hr	lb/yr	tpy		(lb/hr)	(tpy)
CO ₂	116.98	9,242	80,674,482	40,337	1	9,242	40,337
CH ₄	2.20E-03	1.74E-01	1520	0.760	28	4.88	21.29
N ₂ O	2.20E-04	1.74E-02	152	0.076	265	4.62	20.15
TOTAL						9,252	40,379

Facility CO ₂ e PTE	
(lb/hr)	(tpy)
296,052	1,292,118

¹ Emission factor from Table C-1 of 40 CFR Part 98, Subpart C for weighted U.S. average of natural gas. Emission factor converted from metric units (kg) to Imperial units (lb) by multiplying by 2.205 lb per kg.

² Emission factor from Table C-2 (CH₄ and N₂O) of 40 CFR Part 98, Subpart C. Emission factor converted from metric units (kg) to Imperial units (lb) by multiplying by 2.205 lb per kg.

³ Global warming potentials obtained from Table A-1 to Subpart 98 - Global Warming Potentials

Site Layer 1, LLC
Facility Emission Calculations
SUSD (SSM) Emissions

	Startup Emissions (lb/event)				
Standby Time	NOx	CO	VOC	PM 10	Duration (min)
>2 Days (Cold Start)	6	7.5	1.5	1.5	30
6 hours (Warm Start)	2.8	4	1.2	1.5	30
12 hours (Warm Start)	4.1	6	1.3	1.5	30

Shutdown Emissions (lb/min)			
NOx	CO	VOC	Duration (min)
0.025	0.05	0.05	1

	Hourly SSM Emissions (lb/hr)		
	NOx	CO	VOC
>2 Days (Cold Start)	6.65	8.35	2.35
6 hours (Warm Start)	3.45	4.85	2.05
12 hours (Warm Start)	4.75	6.85	2.15

Assumes 30 min start and 30 min normal operation. Per manufacturer, the maximum shutdown period is one minute, so emissions from shutdown are expected to be negligible.

Site Layer 1, LLC
Facility Emission Calculations
PSD Applicability Summary

Pollutant	Facility Emissions	Facility Emissions	PSD Major Source Threshold	Is the Pollutant above PSD Limits?	Significant Emission Rate	Is the Pollutant above SER?
	(lb/hr)	(tpy)	(tpy)	(Yes/No)	(tpy)	(Yes/No)
CO	219	241	250	No	100	Yes
NO _x	152	184	250	No	40	Yes
PM	74	225	250	No	25	Yes
PM ₁₀	74	225	250	No	15	Yes
PM _{2.5}	74	225	250	No	10	Yes
SO ₂	37	9	250	No	40	No
VOC	69	238	250	No	40	Yes
H ₂ SO ₄ Mist	4	4	-	-	7	No
HAPs	10	42	-	-	-	-
CO ₂ e	296,052	1,292,118	-	-	75,000	Yes

APPENDIX B

Stack Release Parameters

Table B-1. Stack Release Parameters

Equipment ID	Source ID	Stack Height (ft)	Stack Diameter (ft)	Exhaust temperature (°F)	Exhaust flow rate (acfm)	Base Elevation (m)	Easting (m) UTM Zone 12	Northing (m) UTM Zone 12
Engine 1	ICE01	200	5.0	741	67,200	1383.8	735018.63	3540939.18
Engine 2	ICE02	200	5.0	741	67,200	1383.8	735026.20	3540939.36
Engine 3	ICE03	200	5.0	741	67,200	1383.8	735033.76	3540939.53
Engine 4	ICE04	200	5.0	741	67,200	1383.8	735041.32	3540939.71
Engine 5	ICE05	200	5.0	741	67,200	1383.8	735047.94	3540939.87
Engine 6	ICE06	200	5.0	741	67,200	1383.8	735055.50	3540940.04
Engine 7	ICE07	200	5.0	741	67,200	1383.8	735063.06	3540940.22
Engine 8	ICE08	200	5.0	741	67,200	1383.8	735070.62	3540940.40
Engine 9	ICE09	200	5.0	741	67,200	1383.8	735077.24	3540940.55
Engine 10	ICE10	200	5.0	741	67,200	1383.8	735084.80	3540940.73
Engine 11	ICE11	200	5.0	741	67,200	1383.8	735092.34	3540942.02
Engine 12	ICE12	200	5.0	741	67,200	1383.8	735098.95	3540942.17
Engine 13	ICE13	200	5.0	741	67,200	1383.8	735106.51	3540942.35
Engine 14	ICE14	200	5.0	741	67,200	1383.8	735114.08	3540942.52
Engine 15	ICE15	200	5.0	741	67,200	1383.8	735121.64	3540942.70
Engine 16	ICE16	200	5.0	741	67,200	1383.8	735128.25	3540942.86
Engine 17	ICE17	200	5.0	741	67,200	1383.8	735175.52	3540943.96
Engine 18	ICE18	200	5.0	741	67,200	1383.8	735183.08	3540944.14
Engine 19	ICE19	200	5.0	741	67,200	1383.8	735190.64	3540944.32
Engine 20	ICE20	200	5.0	741	67,200	1383.8	735197.26	3540944.47
Engine 21	ICE21	200	5.0	741	67,200	1383.8	735204.82	3540944.65
Engine 22	ICE22	200	5.0	741	67,200	1383.8	735212.38	3540944.83
Engine 23	ICE23	200	5.0	741	67,200	1383.8	735219.00	3540944.98
Engine 24	ICE24	200	5.0	741	67,200	1383.8	735226.56	3540945.16
Engine 25	ICE25	200	5.0	741	67,200	1383.8	735234.12	3540945.34
Engine 26	ICE26	200	5.0	741	67,200	1383.8	735241.68	3540945.51
Engine 27	ICE27	200	5.0	741	67,200	1383.8	735248.30	3540945.67
Engine 28	ICE28	200	5.0	741	67,200	1383.8	735255.86	3540945.85
Engine 29	ICE29	200	5.0	741	67,200	1383.8	735263.42	3540946.02
Engine 30	ICE30	200	5.0	741	67,200	1383.8	735270.99	3540946.20
Engine 31	ICE31	200	5.0	741	67,200	1383.8	735277.60	3540946.35
Engine 32	ICE32	200	5.0	741	67,200	1383.8	735285.14	3540947.64

SUSD-specific stack exhaust temperature and flow data were not available; therefore, the stack parameters presented in Table B-1 were used for both normal and hybrid SUSD operating scenarios.

Table B-2. Short-Term Hourly Emission Rates

Source	NO _x (lb/hr)	CO (lb/hr)	PM ₁₀ (lb/hr)	PM _{2.5} (lb/hr)	SO ₂ (lb/hr)
Engine (ICE01 – ICE32) ¹	1.30	1.70	1.60	1.60	0.23
Engine Hybrid Emission Rates ²	4.75	6.85	2.3	2.3	--
Maximum Short Term Emission Rate ³					1.15

¹ Engine emissions are reported on a per-engine basis and do not represent cumulative emissions for multiple units.

² Hybrid emission rates are based on vendor-provided emissions for a startup/shutdown (SUSD) event with a vendor-specified duration of 30 minutes. The hybrid hourly emission rates represent 30 minutes at the vendor-provided SUSD emission rate and 30 minutes at the normal operating emission rate. Accordingly, pollutant-specific hybrid rates may be higher than the corresponding normal operating rates where the vendor-provided SUSD emission rate is elevated.

³ The SO₂ emission rate represents the maximum short-term emission rate based on the applicable maximum sulfur emissions assumption and is not a startup-specific emission rate.