Los Alamos NATIONAL LABORATORY

Memorandum

Environmental Protection & Compliance Division
Compliance Programs Group

To: Power Plant Significant Permit Revision File
Through: Heather Seus, EPC-CP, J978 krm for hcs
From: Stephen Pierett, EPC-CP, J978 slp
Phone: 505-500-9607
Symbol: EPC-DO: 25-169
LA-UR: 25-25914
Date: June 24, 2025

Subject: Los Alamos National Laboratory (AI 856) NSR Permit 2195B-M3R4, Significant Permit Revision

Enclosed for your review is a request for a technical revision to modify the existing New Source Review (NSR) permit 2195B-M3R4 for the Los Alamos National Laboratory's (LANL) power plant facility. The completed NMED permit application forms, together with the required $500 filing fee check, are attached to this memorandum. The certified letter for notification of municipalities, counties and Indian tribes, and newspaper public notices were completed per 20.2.72.203.B. NMAC for the significant permit revision and documentation is included within the permit application.

For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase 1 of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5, each rated at a capacity of 72.3 MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG), TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two auxiliary boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electrical and steam generation.

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.

If you have any questions, please do not hesitate to contact Steve Pierett at 505-500-9607 or Heather Seus at 505-412-8832.

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Attachment 1

NSR Significant Permit Revision for the LANL Power Plant

EPC-DO: 25-169

LA-UR: 25-25914

July 2025

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

Universal Air Quality Permit Application

Use this application for NOI, NSR, or Title V sources.

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well.

This application is submitted as (check all that apply)**:** ☐ Request for a No Permit Required Determination (no fee)
☐ **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).
Construction Status: ☐ Not Constructed ☐ Existing Permitted (or NOI) Facility ☐ Existing Non-permitted (or NOI) Facility
Minor Source: ☐ NOI 20.2.73 NMAC ☒ 20.2.72 NMAC application or revision ☐ 20.2.72.300 NMAC Streamline application
Title V Source: ☐ Title V (new) ☐ Title V renewal ☐ TV minor mod. ☐ TV significant mod. ☐ TV Acid Rain: ☐ New ☐ Renewal
PSD Major Source: ☐ PSD major source (new) ☐ Minor Modification to a PSD source ☐ a PSD major modification

Acknowledgements:

☒ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.

☒ $500 NSR application Filing Fee enclosed OR ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).

☒ Check No.: 500968 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: **20.2.72.219.B.(1)(b) NMAC**
(e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

Section 1 – Facility Information

Section 1-A: Company Information

		AI # if known: **856**	Updating Permit/NOI #: **2195B-M3R4**
1	Facility Name: **U.S. Department of Energy(DOE)/Los Alamos National Laboratory**	Plant primary SIC Code (4 digits): **9711**	
		Plant NAIC code (6 digits): **928110**	

a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): **Laboratory is bounded by towns of Los Alamos and White Rock, NM**	
2	Plant Operator Company Name: **Triad National Security, LLC**	Phone/Fax: (**505) 606-0154**
a	Plant Operator Address: **P.O. Box 1663, MS K491, Los Alamos, NM 87545**	
b	Plant Operator's New Mexico Corporate ID or Tax ID: **5684544**	
3	Plant Owner(s) name(s): **U.S. Department of Energy, National Nuclear Security Administration**	Phone/Fax: **(505) 667-6691**
a	Plant Owner(s) Mailing Address(s): **3747 West Jemez Road, Los Alamos, NM 87544**	
4	Bill To (Company): **Triad National Security, LLC**	Phone/Fax: **(505) 665-2169**
a	Mailing Address: **P.O. Box 1663, MS K490, Los Alamos, NM 87545**	E-mail: **story@lanl.gov**
5	☒ Preparer: ☐ Consultant: **Stephen Pierett**	Phone/Fax: (**505) 500-9607**
a	Mailing Address: **P.O. Box 1663, MS J978, Los Alamos, NM, 87545**	E-mail: **spierett@lanl.gov**
6	Plant Operator Contact: **Sarah Holcomb**	Phone/Fax: (**505) 396-0866**
a	Address: **P.O. Box 1663, MS K490, Los Alamos, NM, 87545**	E-mail: **sholcomb@lanl.gov**
7	Air Permit Contact: **Heather Seus**	Title: **Meteorology and Air Quality Team Leader**
a	E-mail: **heatherseus@lanl.gov**	Phone/Fax: **(505) 412-8832**
b	Mailing Address: **P.O. Box 1663, MS J978, Los Alamos, NM, 87545**	
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: **P100-R2M6**
7	Has this facility been issued a No Permit Required (NPR)? ☒ Yes ☐ No	If yes, the NPR No. is: **2195A**, **2195Q, 2195S, 2195T, 2195U, 2195V, 2195L, 2195LR1, 2195X, 2195-R75, 2195-R77, 2195-R81, 2195-R90, 2195-R94, 2195-R96, 2195-R97, 2195-R99, 2195-R100, 2195-R102, 2195-R103, 2195-R104**
8	Has this facility been issued a Notice of Intent (NOI)? ☒ Yes ☐ No	If yes, the NOI No. is: **2597-R1, 2195-R91, 2195-R95, 2195-R101 (10290)**
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☒ Yes ☐ No	If yes, the permit No. is: **632-M1, 634-M2, 1081-M1-R7, 2195, 2195B-M3R4, 2195F-R4, 2195H, 2195N-R2, 2195P-R4**
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☒ Yes ☐ No	If yes, the register No. is: **GCP-3-2195G-R1**

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: **178.5 MMBtu/hr/#2 or #3 boiler (including standby usage), 72.3 MMBtu/hr/#4 or #5 boiler, 295.3 MMBtu/hr-combustion turbine**	Daily: **4284 MMBtu/24hr/#2 or #3 boiler, 1735.2 MMBtu/24hr/#4 or #5 boiler, 7087.2 MMBtu/24hr-combustion turbine**	Annually: **3.127 x 10^6 MMBtu/yr/Boilers #2 & #3, 1.267 x 10^6 MMBtu/yr/Boilers #4 & #5, 2.586 x 10^6 MMBtu/yr/combustion turbine**
b	Proposed	Hourly: **178.5 MMBtu/hr/#2 or #3 boiler including standby usage), 72.3 MMBtu/hr/#4 or #5 boiler, 295.3 MMBtu/hr-combustion turbine**	Daily: **4284 MMBtu/24hr/#2 or #3 boiler, 1735.2 MMBtu/24hr/#4 or #5 boiler, 7087.2 MMBtu/24hr-combustion turbine**	Annually: **3.127 x 10^6 MMBtu/yr/Boilers #2 & #3, 1.267 x 10^6 MMBtu/yr/Boilers #4 & #5, 2.586 x 10^6 MMBtu/yr/ combustion turbine**
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: 117,032 lbs mass steam/hr boilers #4 & #5, 240,000 lbs mass steam/hr boilers #2 & #3, 27 MWh combustion turbine**	Daily: **N/A**	Annually: **N/A**
b	Proposed	**Hourly: 117,032 lbs mass steam/hr boilers #4 & #5, 240,000 lbs mass steam/hr boilers #2 & #3, 27 MWh combustion turbine**	Daily: **N/A**	Annually: **N/A**

Section 1-D: Facility Location Information

1	Latitude (decimal degrees): **35.874194009**	Longitude (decimal degrees): - **106.320548738**	County: **Los Alamos**	Elevation (ft): **7350**
2	UTM Zone: ☐ 12 or ☒ 13	Datum: ☒ NAD 83 ☐ WGS 84		
a	UTM E (in meters, to nearest 10 meters): **380790**	UTM N (in meters, to nearest 10 meters): **3970800**		
3	Name and zip code of nearest New Mexico town: **Los Alamos 87545**			
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): **From the vicinity of the Los Alamos Medical Center, take NM-501 west/Diamond Drive for 0.5 miles and use the right 2 lanes at the first traffic light to turn sharply right to stay on NM-501 W towards the Los Alamos National Laboratory entrance. Proceed towards the LANL security entrance and check in at one of the security booths. Then proceed to the first light after security and make a left turn on Diamond Drive using the left two lanes. Proceed through the first light on Diamond Drive. The power plant parking lot will be on the left after the light. See road map in Section 8 of UA3.**		
5	The facility is **1** (distance) miles **South** (direction) of **Los Alamos** (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: **Los Alamos County, Sandoval County, Santa Fe County, Rio Arriba County, City of Espanola, San Ildefonso Pueblo, Santa Clara Pueblo, Jemez Pueblo, Pojoaque Pueblo, Cochiti Pueblo**			
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: **Bandelier Wilderness Area (approximately 6 km from TA-3 Power Plant)**			
9	Name nearest Class I area: **Bandelier Wilderness Area (the wilderness portion of Bandelier National Monument)**			
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): **6 km (TA-3 Power Plant)**			
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: **N/A**			
12	Method(s) used to delineate the Restricted Area: **N/A** "**Restricted Area**" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.			
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? ☐ Yes ☒ No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.			

14	Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes If yes, what is the name and permit number (if known) of the other facility?	

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

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

Section 1-F: Other Facility Information

1	Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? ☐ Yes ☒ No If yes, specify:		
a	If yes, NOV date or description of issue: **N/A**		NOV Tracking No:
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? **X** Yes ☐ No		
a	If yes, include the name of company providing commercial electric power to the facility: **Los Alamos Power Pool** Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

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

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

Section 1-H: Current Title V Information - Required for all applications from TV Sources

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

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC): **Theodore A. Wyka**		Phone: **(505) 667-5105**
a	R.O. Title: **Manager**	R.O. e-mail: **theodore.wyka@nnsa.doe.gov**	
b	R. O. Address: **3747 West Jemez Road, Los Alamos, NM 87544**		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): **Patrick S. Moss**		Phone: **Office (505) 665-9233 / Cell (505) 709-7073**

a	A. R.O. Title: **Los Alamos Field Office Deputy Manager**	A. R.O. e-mail: **patrick.moss@nnsa.doe.gov**
b	A. R. O. Address: **3747 West Jemez Road, Los Alamos, NM 87544**	
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.): **U.S. Department of Energy, National Nuclear Security Administration**	
a	Address of Parent Company: **3747 West Jemez Road, Los Alamos, NM 87544**	
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.): **Triad National Security, LLC - Steve Story (505) 665-2169**	
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations:	
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: **Taos Pueblo (69), Picuris Pueblo (56), Jicarilla Apache (67), Ohkay Owingeh Pueblo (19), Santa Clara Pueblo (10), San Ildefonso Pueblo (5), Pojoaque Pueblo (13), Nambe Pueblo (24), Tesuque Pueblo (19), Cochiti Pueblo (13), Santa Domingo Pueblo (27), Zia Pueblo (30), San Felipe Pueblo (38), Santa Ana Pueblo (40), Jemez Pueblo (19), Sandia Pueblo (61), Laguna Pueblo (77), Bernalillo County (56).**	

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):

XX CD/DVD attached to paper application

☐ Secure electronic transfer. Air Permit Contact Name_____, Email_____ Phone number _____.

a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need

a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**

4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.

5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling ***summary report only*** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.

6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
   a. one additional CD copy for US EPA,
   b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
   c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

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

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

1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.

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

3) It is preferred that this application form be submitted as 4 electronic files (3 MSWord docs: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and 1 Excel file of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.

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

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Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
TA-3-22-2	Boiler	Edgemoor Iron Works	N/A	4009	210 MMBtu/hr	178.5 MMBtu/hr	1950 1950	F-2 TA3_S1		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
TA-3-22-3	Boiler	Union Iron Works	N/A	11804	210 MMBtu/hr	178.5 MMBtu/hr	1952 1952	F-3 TA3_S2		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
TA-3-22-4	Boiler	Victory Energy Operations	F2-WB-1800-S150E	14974-1	72.3 MMBtu/hr	72.3 MMBtu/hr	8/27/2019 8/19/2021	N/A TA3_S3		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
TA-3-22-5	Boiler	Victory Energy Operations	F2-WB-1800-S150E	14974-2	72.3 MMBtu/hr	72.3 MMBtu/hr	8/27/2019 8/24/2021	N/A TA3_S4		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
TA-3-22-CT-1	Combustion Turbine	Rolls-Royce	RB211-6761 DLE	2011	32 MW	27 MW	2003 2005	DLE TA3_CT		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
										☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
										☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
										☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
										☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
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										☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
										☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		

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

[2] Specify dates required to determine regulatory applicability.

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

[4] "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

Table 2-B: Insignificant Activities[1] (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
TA-3-1404-GEN	Emergency Diesel Generator	Cummins	DFLC-5554001 E020369571	1250 kW (generator)	20.2.72.202.B.3 N/A	2002 2003	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TA-3-22-AHTR1	Makeup Air Heater	Cambridge	M125 200902C0127	1.927 MMBtu/hr	20.2.72.202.B.5 N/A	- 2022	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TA-3-22-AHTR2	Makeup Air Heater	Cambridge	M125 200902C0126	1.927 MMBtu/hr	20.2.72.202.B.5 N/A	- 2022	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TA-3-22-CHTR1	Comfort Heater	Reznor	UDBP-45 BEI79X7N34974X	0.045 MMBtu/hr	20.2.72.202.B.1(a) N/A	9/2005 -	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TA-3-22-CHTR2	Comfort Heater	Reznor	UDAP-30 BEJ79X7N43199X	0.030 MMBtu/hr	20.2.72.202.B.1(a) N/A	10/2005 -	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
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							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Table 2-C: Emissions Control Equipment

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

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s)[1]	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
F-2	Flue Gas Recirculation Fan	2001	Nitrogen Oxides	TA-3-22-2	64%	Source Test
F-3	Flue Gas Recirculation Fan	2001	Nitrogen Oxides	TA-3-22-3	64%	Source Test

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

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

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

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

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
TA-3-22-2																		
gas	28.741	125.887	7.136	31.2548	0.981	4.29754	0.38228	1.67436	1.356	5.93841	1.356	5.93841	1.356	5.93841	-	-	-	-
oil	31.2701	136.963	6.515	28.534	0.261	1.141	9.642	42.230	2.997	13.126	2.997	13.126	2.020	8.84552	-	-	-	-
TA-3-22-3																		
gas	28.741	125.887	7.136	31.2548	0.981	4.29754	0.38228	1.67436	1.356	5.93841	1.356	5.93841	1.356	5.93841	-	-	-	-
oil	31.2701	136.963	6.515	28.534	0.261	1.141	9.642	42.230	2.997	13.126	2.997	13.126	2.020	8.84552	-	-	-	-
TA-3-22-4																		
gas	0.82352	3.60702	2.77938	12.1737	0.30882	1.35263	0.15198	0.66566	0.5147	2.25439	0.5147	2.25439	0.5147	2.25439	-	-	-	-
oil	6.200	27.156	2.700	11.826	0.100	0.438	3.300	14.454	1.600	7.008	1.600	7.008	1.600	7.008	-	-	-	-
TA-3-22-5																		
gas	0.82352	3.60702	2.77938	12.1737	0.30882	1.35263	0.15198	0.66566	0.5147	2.25439	0.5147	2.25439	0.5147	2.25439	-	-	-	-
oil	6.200	27.156	2.700	11.826	0.100	0.438	3.300	14.454	1.600	7.008	1.600	7.008	1.600	7.008	-	-	-	-
CT-1																		
gas	81.8359	358.441	29.8879	130.909	0.62612	2.7424	0.62029	2.71686	1.9678	8.61896	1.9678	8.61896	1.9678	8.61896	-	-	-	-
Totals	156.776	686.679	49.718	217.766	3.206	14.043	26.503	116.085	11.161	48.886	11.161	48.886	9.207	40.326	-	-	-	-
Totals																		

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

Table 2-E: Requested Allowable Emissions

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

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
TA-3-22-2																		
gas	10.347	11.656	7.136	8.039	0.981	1.105	0.382	0.431	1.356	1.527	1.356	1.527	1.356	1.527	-	-	-	-
oil	11.257	0.270	6.515	0.156	0.261	0.006	9.642	0.231	2.997	0.072	2.997	0.072	2.020	0.048	-	-	-	-
TA-3-22-3																		
gas	10.347	11.656	7.136	8.039	0.981	1.105	0.382	0.431	1.356	1.527	1.356	1.527	1.356	1.527	-	-	-	-
oil	11.257	0.270	6.515	0.156	0.261	0.006	9.642	0.231	2.997	0.072	2.997	0.072	2.020	0.048	-	-	-	-
TA-3-22-4																		
gas	0.824	0.967	2.779	3.264	0.309	0.363	0.152	0.178	0.515	0.605	0.515	0.605	0.515	0.605	-	-	-	-
oil	6.200	0.149	2.700	0.065	0.100	0.002	3.300	0.079	1.600	0.038	1.600	0.038	1.600	0.038	-	-	-	-
TA-3-22-5																		
gas	0.824	0.967	2.779	3.264	0.309	0.363	0.152	0.178	0.515	0.605	0.515	0.605	0.515	0.605	-	-	-	-
oil	6.200	0.149	2.700	0.065	0.100	0.002	3.300	0.079	1.600	0.038	1.600	0.038	1.600	0.038	-	-	-	-
CT-1																		
gas	24.551	61.115	29.888	74.401	0.626	1.559	0.620	1.544	1.968	4.899	1.968	4.899	1.968	4.899	-	-	-	-
Totals for Scenario #2	59.465	87.199	49.718	97.449	3.206	4.512	26.503	3.384	11.161	9.383	11.161	9.383	9.207	9.336	-	-	-	-
Totals for Scenario #1	59.465	70.529	49.718	95.771	3.206	3.956	26.503	3.307	11.161	9.005	11.161	9.005	9.207	8.958				
Totals																		

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

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

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

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

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

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

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

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

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

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

Table 2-H: Stack Exit Conditions

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

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H=Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
TA3_S1	TA-3-22-2	V	No	68	415	1,333			28.6	7.7
TA3_S2	TA-3-22-3	V	No	68	415	1,333			28.6	7.7
TA3_S3	TA-3-22-4	V	No	60	344	500			52.0	3.5
TA3_S4	TA-3-22-5	V	No	60	344	500			52.0	3.5
TA3_CT	TA-3-22-CT-1	V	No	59	921	7,362			73.6	11.3

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

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

Stack No.	Unit No.(s)	Total HAPs		HEXANE ☑ HAP or ☐ TAP		FORMALDEHYDE ☑ HAP or ☐ TAP		TOLUENE ☑ HAP or ☐ TAP		XYLENE ☑ HAP or ☐ TAP		H2SO4 ☐ HAP or ☑ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
TA3_1	TA-3-22-2	0.403	0.370	0.312	0.351	0.0755	0.0161	0.00059	0.00133	-	-	0.1156							
TA3_2	TA-3-22-3	0.403	0.370	0.312	0.351	0.0755	0.0161	0.00059	0.00133	-	-	0.1156							
TA3_3	TA-3-22-4	0.159	0.442	0.124	0.421	0.0295	0.0181	0.000234	0.00159	-	-	0.0398							
TA3_4	TA-3-22-5	0.159	0.442	0.124	0.421	0.0295	0.0181	0.000234	0.00159	-	-	0.0398							
TA3_CT	TA-3-22-CT-1	0.303	0.755	-	-	0.2096	0.522	0.0384	0.09555	0.0189	0.04704	0.0072							
	Total	1.428	2.381	0.872	1.545	0.4196	0.590	0.040	0.101	0.0189	0.04704	0.3179							
HAP emissions are reported in the Calculations worksheets, S1-AUXyearRound+CT100% and S2-Blrs-2&3Winter+CT100%, in this section.																			
The highest annual emission rate for Scenarios #1 and #2 are reported in this table.																			
Totals:																			

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
TA-3-22-2, and -3	Distillate Fuel Oil	Purchased Commercial	137,000 Btu/gal	1.303 mGal/hr (each)	125 mGal/yr (each)	0.05%	-
TA-3-22-4 and 5	Distillate Fuel Oil	Purchased Commercial	137,000 Btu/gal	0.5 mGal/hr (each)	48.6 mGal/yr (each)	0.05%	-
TA-3-22-2 and -3	Natural Gas	Pipeline Quality Natural Gas	1050 Btu/scf	173.3 mSCF/hr (each)	780,900 mSCF/yr (combined)	0.75 gr/100 scf	-
TA-3-22-4 and -5	Natural Gas	Pipeline Quality Natural Gas	1050 Btu/scf	68.9 mSCF/hr (each)	935,485 mSCF/yr (combined)	0.75 gr/100 scf	-
TA-3-22-CT-1	Natural Gas	Pipeline Quality Natural Gas	1050 Btu/scf	281.2 mSCF/hr total	1,400 mmSCF/yr	0.75 gr/100 scf	-

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

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

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
TA-3-779	N/A	No. 2 Fuel Oil	Fuel Oil	7.4	130	59	<0.02	71	<0.02

Table 2-L: Tank Data

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

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M^3)			Roof	Shell			
TA-3-779	1999	Diesel No. 2 Fuel Oil	N/A	FX	5,455	867	10.7	N/A	LG	LG	Good	250,000	1.10

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

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

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

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

Material Processed				Material Produced			
Description	**Chemical Composition**	**Phase (Gas, Liquid, or Solid)**	**Quantity (specify units)**	**Description**	**Chemical Composition**	**Phase**	**Quantity (specify units)**
N/A - No material is processed or produced							

Table 2-N: CEM Equipment

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

Stack No.	Pollutant(s)	Manufacturer	Model No.	Serial No.	Sample Frequency	Averaging Time	Range	Sensitivity	Accuracy
N/A - None present									

Table 2-O: Parametric Emissions Measurement Equipment

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

Unit No.	Parameter/Pollutant Measured	Location of Measurement	Unit of Measure	Acceptable Range	Frequency of Maintenance	Nature of Maintenance	Method of Recording	Averaging Time
	N/A - None present							

Table 2-P: Greenhouse Gas Emissions

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

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

		CO_2 ton/yr	N_2O ton/yr	CH_4 ton/yr	SF_6 ton/yr	PFC/HFC ton/yr[2]									Total GHG Mass Basis ton/yr[4]	Total CO_2e ton/yr[5]
Unit No.	**GWPs [1]**	**1**	**265**	**28**	**22,800**	**footnote 3**										
Aux. Boiler (each) gas	**mass GHG**	37,065	0.0699	0.70	-	-									74131.1	
Aux. Boiler (each) gas	**CO_2e**	37,065	18.51	19.56												74205.7
Aux. Boiler (each) oil (48-hr)	**mass GHG**	271	0.0022	0.0110											542.8	
Aux. Boiler (each) oil (48-hr)	**CO_2e**	271	0.58	0.31												544.6
Existing Boiler gas (#2 or #3)	**mass GHG**	91,455	0.172	1.72											91457.3	
Existing Boiler gas (#2 or #3)	**CO_2e**	91,455	45.7	48.26												91549.3
Existing Boiler oil (#2 or #3)(48 hr)	**mass GHG**	699	0.0057	0.028											698.5	
Existing Boiler oil (#2 or #3)(48 hr)	**CO_2e**	699	1.5	0.79												700.8
CT (gas only)	**mass GHG**	151,278	0.29	2.85											151281.1	
CT (gas only)	**CO_2e**	151,278	75.55	79.83												151433.4
Makeup Air Heaters	**mass GHG**	1,975	0.0012	0.012											1974.6	
Makeup Air Heaters	**CO_2e**	1,975	0.32	0.337												1975.3
Comfort Heaters	**mass GHG**	38.4	0.000051	0.00051											38.4	
Comfort Heaters	**CO_2e**	38.4	0.0134	0.0142												38.5
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO2e															
Total	**mass GHG**	**320,117**	**0.61**	**6.03**											**320,124**	
	CO_2e	**320,117**	**161.3**	**169.0**												**320,449**

[1] **GWP** (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

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

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

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

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

Pollutant Emission Estimates - Greenhouse Gas (GHG) Emissions

Operational Data

Fuel			
Natural Gas			
	Heat Content (HHV)	1050	BTU/SCF
#2 Fuel Oil			
	Heat Content	137,000	BTU/GAL
Aux. Boilers (each)			
Maximum Heat Input - gas (derated for altitude)		72.3	mmBTU/hr
Maximum Fuel Consumption - gas		70.2	mSCF/hr
Maximum Heat Input - oil (derated for altitude)		69.4	mmBTU/hr
Maximum Fuel Consumption - oil		0.5	mGAL/hr
#2 or #3 Boiler			
Maximum Heat Input - gas (derated for altitude)		178.5	mmBTU/hr
Maximum Fuel Consumption - gas		173.3	mSCF/hr
Maximum Heat Input - oil (derated for altitude)		178.5	mmBTU/hr
Maximum Fuel Consumption - oil		1.3	mGAL/hr
Makeup Air Heater			
Maximum Heat Input		3.85	mmBTU/hr
Maximum Fuel Consumption - gas		3.67	mSCF/hr
Comfort Heater			
Maximum Heat Input		0.0750	mmBTU/hr
Maximum Fuel Consumption - gas		0.0714	mSCF/hr
Combustion Turbine			
Maximum Fuel Consumption		281.2	mSCF/hr

Emission Factors

	CO_2	CH_4	N_2O
Natural Gas (lb/mmBTU)	116.9761	0.0022	0.0002
#2 Fuel Oil (lb/mmBTU)	163.0522	0.0066	0.0013

Global Warming Potentials

	CO_2	CH_4	N_2O	SF_6	PFC/HFC
Carbon dioxide equivalent (CO_2e)	1	28	265	23500	see 40 CFR 98

Notes

Emission Factors - GHG - Natural Gas & #2 Fuel Oil

1 Emission factor values (in kg CO_2/mmBTU) taken from Table C-1, 40 CFR Part 98 and converted to lb CO_2/mmBTU.

2 Emission factor values (in kg/mmBTU) taken from Table C-2, 40 CFR Part 98 and converted to lb/mmBTU.

Emission Factors - GHG - Global Warming Potentials (GWPs)

1 GWPs taken from Table A-1, 40 CFR Part 98.

GHG (mass GHG and CO_2e) Emissions from Combustion Sources

Process (tpy)		CO_2 tpy	N_2O tpy	CH_4 tpy	mass GHG (stpy)	CO_2e (stpy)
Aux. Boiler (each) gas (mass GHG)		37,064.80	0.0699	0.70	37,065.57	
Aux. Boiler (each) gas (CO2e)		37,064.80	18.51	19.56	-	37,102.87
Aux. Boiler (each) oil (48-hr)(mass GHG)		271.39	0.0022	0.0110	271.40	-
Aux. Boiler (each) oil (48-hr)(CO2e)		271.39	0.58	0.31		272.28
Existing Boiler gas (#2 or #3)(mass GHG)		91,455.41	0.172	1.72	91,457.30	-
Existing Boiler gas (#2 or #3)(CO2e)		91,455.41	45.7	48.26	-	91,549.34
Existing Boiler oil (#2 or #3)(48 hr)(mass GHG		698.52	0.0057	0.028	698.55	-
Existing Boiler oil (#2 or #3)(48 hr)(CO2e)		698.52	1.5	0.79	-	700.81
CT (gas only)(mass GHG)		151,278.0	0.29	2.85	151,281.14	-
CT (gas only)(CO2e)		151,278.0	75.55	79.83		151,433.38
Makeup Air Heaters(mass GHG)		1974.62	0.0037	0.037	1,974.66	-
Makeup Air Heaters(CO2e)		1974.62	0.99	1.042		1,976.65
Comfort Heaters (mass GHG)		38.43	0.000072	0.00072	38.43	-
Comfort Heaters(CO2e)		38.43	0.0192	0.0203	-	38.47
Totals	**mass GHG (stpy)**	**320117**	**0.61**	**6.06**	**320,124**	**-**
	CO_2e (stpy)	**320117**	**161.9**	**169.7**	**-**	**320,449**

Assumptions: **Scenario #1**

1. For winter heating season, two AUX boilers (Boiler #4 and #5) will operate full time (approximately 4380 hours each). An older boiler (Boiler #2 or #3) will be a standby unit for the heating season.
2. For summer non-heating season (mid-April to mid-October), one AUX boiler (Boiler #4 or #5) will operate full time and the other AUX boiler unit will operate in standby mode.
3. Combustion turbine (TA-3-22-CT -1) operating at 100% load.
4. The five year average HHV for natural gas is 1050 Btu/SCF (2019-2023).

Criteria Pollutant Emission Estimates

Boilers #2 and #3 plus Combustion Turbine

Operational Data

Fuel						
Natural gas						
	Heat Content (HHV)	1050	Btu/SCF			
	Sulfur Content	0.75	grains/ 100 SCF			
Diesel #2 Fuel Oil						
	Heat Content	137,000	Btu/gallon			
	Sulfur Content	0.05	%			
Boilers #2 and #3		**Each Boiler**			**Annual Fuel Usage (combined boilers)**	
Maximum Heat Input (derated)		178.5	MMBtu/hr			
Maximum Fuel Consumption - gas		173.3	mSCF/hr		gas	100,000 mSCF/yr
Standby Fuel Consumptions - gas		5.0	mSCF/hr			
Maximum Fuel Consumption - oil		1.303	mGAL/hr		oil	125 mGAL/yr
Combustion Turbine						
Maximum Fuel Consumption		281.2	mSCF/hr	Annual Fuel Limit		1,400,000 mSCF/yr

Derivation of Combustion Turbine NOx and CO Factors

Compliance test results at multiple loads

	6/17/2010 77 F Ambient Temp		1/19/2011 34 F Ambient Temp	
	100% Load	80% Load	100% Load	80% Load
NOx ppmv	15.1	17	17.7	19.9
NOx lb/hr	15.75	15.13	21.09	19.44
CO ppmv	10.1	14.3	4.1	21.9
CO lb/hr	6.42	7.75	2.95	13.03
DSCFH	6.76E+06	6.77E+06	7,860,000	7.10E+06

Calculate maximum lb/hr emission rates for each load

	100% load	80% load
NOx, lb/hr	23.8	21.5
CO, lb/hr	29.0	26.2

Example (4): lb/hr = DSCFH x 25/1000000 / 379 ft3 per lb-mole @ 60 F (520 R) x MW

CT calculated emission factors

NOx, lb/mSCF	0.0848
CO, lb/mSCF	0.1033

Emssion Factors - Blrs. #2 and #3 & CT

	NOx	CO	SOx	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler - gas (lb/mSCF)	0.0597	0.0412	0.002206	0.0057	0.0078	0.0078	0.0078
Boiler - oil (lb/mGAL)	8.6400	5.0000	7.4	0.20	2.3000	2.3000	1.5500
Combustion Turbine (lb/mSCF)	0.0873	0.1063	0.002206	0.0022	0.0070	0.0070	0.0070

Notes:

Emission Factors - Boilers -natural gas

1 NOx - The FGR emission control factor is the average value from the September 2002 compliance test results.

2 CO - From AP-42,1995, Section 1.4 -Natural Gas Combustion. Older AP-42 value closer to compliance test values.

3 SOx - 0.75 gr S/100 scf, or 7,500 gr S/MMscf x lb/7000 gr x 2 lbs SO2/1 lb S.

4 VOC, PM, PM_{10} and $PM_{2.5}$ - From AP-42, 7/98, Section 1.4 - Natural Gas Combustion.

5 Emission factors adjusted by ratio of average LANL HHV 1050 to AP-42 value of 1020 (1050/1020 = 1.0294).

Emission Factors - Boilers - fuel oil

1 NOx -Factor assumes similar reduction for oil as test results natural gas.

2 CO, VOC, PM, PM_{10} and $PM_{2.5}$- From AP-42, 9/98, Section 1.3 - Fuel Oil Combustion.

3 SOx - From AP-42,9/98,Section 1.3 -Fuel Oil Combustion,Table 1.3-1 corrected by EPA on 4/28/00,using 0.05% S.

Emission Factors - Combustion Turbine

1 NOx and CO factors calculated using highest exhaust flow from recent tests and 25 ppm NOx and 50 ppm CO.

2 SOx - 0.75 gr S/100 scf, or 7,500 gr S/MMscf x lb/7000 gr x 2 lbs SO2/1 lb S.

3 VOC,PM, PM_{10} and $PM_{2.5}$- From AP-42, 4/00, Section 3.1 - Stationary Gas Turbines.

4 Emission factors adjusted by ratio of average LANL HHV 1050 to AP-42 value of 1020 (1050/1020 = 1.0294).

Maximum Emissions - Blrs. #2 and #3 & CT

		NOx	CO	SOx	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler (each) gas	lb/hr	28.741	7.136	0.382	0.981	1.356	1.356	1.356
	tpy	125.887	31.255	1.674	4.298	5.938	5.938	5.938
Boiler (each) oil	lb/hr	31.270	6.515	9.642	0.261	2.997	2.997	2.020
	tpy	136.963	28.534	42.230	1.141	13.126	13.126	8.846
Combustion Turbine	lb/hr	81.836	29.888	0.620	0.626	1.968	1.968	1.968
	tpy	358.441	130.909	2.717	2.742	8.619	8.619	8.619
Totals	lb/hr	144.376	44.160	19.903	2.588	7.961	7.961	6.007
	tpy	632.367	193.419	87.177	11.337	34.870	34.870	26.310

Notes:

1 Calculations do not use any current enforceable fuel restrictions or NOx controls on the boilers or turbine.

2 Uncontrolled NOx factors calculated assuming 64% control for FGR on boilers and 70% control for turbine.

3 The total values for boilers use the worst-case fuel for each pollutant.

Calculated Allowable Emissions - Blrs. #2, #3, & CT

		NOx	CO	SOx	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler (each) gas	lb/hr	10.347	7.136	0.382	0.981	1.356	1.356	1.356
Boiler (each) oil	lb/hr	11.257	6.515	9.642	0.261	2.997	2.997	2.020
Boilers (combined)	tpy	3.526	2.372	0.573	0.296	0.535	0.535	0.488
Based on Blr. Fuel Limit								
Combustion Turbine	lb/hr	24.551	29.888	0.620	0.626	1.968	1.968	1.968
Based on CT Fuel Limit	tpy	61.115	74.401	1.544	1.559	4.899	4.899	4.899

Notes:

1 Calculated allowable emissions reflect NOx controls and natural gas/fuel oil calculated fuel use for boilers and turbines.

2 The current individual fuel limits on boilers for CAM rule avoidance not needed since if all allowed gas and oil was consumed annually in one boiler uncontrolled emissions of NOx < 100 tpy (87.2 tpy from Scenario #2).

Auxiliary Boilers (#4 and #5) - Criteria Pollutant Emission Estimates

Operational Data

Fuel				
Natural Gas				
	Heat Content (HHV)	1050	BTU/SCF	
	Sulfur Content	0.75	grains/ 100 SCF	
Diesel #2 Fuel Oil				
	Heat Content	137,000	BTU/GAL	
	Sulfur Content	0.05	wt%	
Auxiliary Boilers (each)				Annual Fuel Use (all aux. boilers)
Maximum Heat Input - gas		72.3	mmBTU/hr (derated for altitude)	
Maximum Fuel Consumption - gas		68.9	mSCF/hr	935,485 mSCF/yr Total
Maximum Heat Input - oil		69.4	mmBTU/hr (derated for altitude)	
Maximum Fuel Consumption - oil		0.5	mGAL/hr	48.6 mGAL/yr - Total

Notes:

1 The maximum heat input for each boiler of 72.3 MMBtu/hr while firing natural gas is the derated value provided by the vendor at 7,500 feet.

2 The maximum heat input for each boiler of 69.4 MMBtu/hr while firing diesel #2 fuel oil is the derated value provided by the vendor at 7,500 feet.

3 Maximum non-emergency hours of operation for oil use is 48 hours

Auxiliary Boilers (#4 and #5) Emission Factors

	NO_X	CO	SO_X	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler - gas (lb/mSCF)	0.01195	0.04034	0.00221	0.00448	0.00747	0.00747	0.00747
Boiler - oil (lb/mGal)	12.248	5.334	6.519	0.198	3.161	3.161	3.161

Notes:

Emission Factors - AUX. Boilers - Natural Gas

1 NO_X - Emission factor was provided by the vendor.

2 CO - Emission factor was provided by the vendor.

3 SO_X - Calculated based upon sulfur content of natural gas of 0.75 gr S/100 scf.

4 VOC - Emission factor was provided by the vendor.

5 PM, PM_{10} and $PM_{2.5}$ - Emission factor provided by the vendor.
Assuming emission factor is the same for all particulate sizes.

Emission Factors - AUX. Boilers - Diesel #2 Fuel Oil

1 NO_X - Emission factor was provided by the vendor.

2 CO - Emission factor was provided by the vendor.

3 SOx - Emission factor was provided by the vendor and is based on 0.05% by wt. sulfur

4 VOC - Emission factor was provided by the vendor.

5 PM, PM_{10} and $PM_{2.5}$ - Emission factor provided by the vendor.
Assuming emission factor is the same for all particulate sizes.

Auxiliary Boilers (#4 and #5) Maximum Emissions (based on 8760 hours)

		NO_X	CO	SO_X	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler (each) gas	lb/hr	0.8235	2.7794	0.152	0.3088	0.5147	0.5147	0.5147
	tpy	3.6070	12.1737	0.6657	1.3526	2.2544	2.2544	2.2544
Boiler (each) oil	lb/hr	6.2000	2.7000	3.3000	0.1000	1.6000	1.6000	1.6000
	tpy	27.1560	11.8260	14.4540	0.4380	7.0080	7.0080	7.0080
Totals	lb/hr	12.4000	5.5588	6.6000	0.6176	3.2000	3.2000	3.2000
	tpy	54.312	24.347	28.908	2.705	14.016	14.016	14.016

Notes:

1 Maximum emissions calculated above assuming 8,760 hours per year and no control efficiencies are applied.

2 For total hourly and annual emission criteria pollutant rates, the maximum hourly and annual pollutant rate from either firing natural gas or fuel oil was added into the total, not both cases.

Auxiliary Boilers (#4 and #5) - Calculated Allowable Emissions based on Scenario #1

		NO_X	CO	SO_X	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler (each) gas	lb/hr	0.8235	2.7794	0.1520	0.3088	0.5147	0.5147	0.5147
	tpy	2.7954	9.4346	0.5159	1.0483	1.7471	1.7471	1.7471
Boiler (each) oil	lb/hr	6.2000	2.7000	3.3000	0.1000	1.6000	1.6000	1.6000
Based on 48 hours each	tpy	0.1488	0.0648	0.0792	0.0024	0.0384	0.0384	0.0384
Totals	lb/hr	12.400	5.559	6.600	0.618	3.200	3.200	3.200
	tpy	5.888	18.999	1.190	2.101	3.571	3.571	3.571

Summary Table - Calculated Allowable Emissions for Scenario #1 - Boilers #2, #3, #4, #5 & CT

			NO_X	CO	SO_X	VOC	PM	PM_{10}	$PM_{2.5}$
Boilers 2+3 Combined		tpy	3.53	2.37	0.573	0.296	0.535	0.535	0.488
Max. Fuel NG	100,000	mSCF							
Boilers 4+5 Combined		tpy	5.89	19.00	1.19	2.10	3.57	3.57	3.57
Max. Fuel NG	935,485	mSCF							
Combustion Turbine		tpy	61.12	74.40	1.54	1.56	4.90	4.90	4.90
Max. Fuel NG	1,400,000	mSCF							
		lb/hr	**59.47**	**49.72**	**26.50**	**3.21**	**11.16**	**11.16**	**9.21**
		tpy	**70.53**	**95.77**	**3.31**	**3.96**	**9.00**	**9.00**	**8.96**

Notes:

1 Calculated allowable emissions are based on the annual fuel use calculated for natural gas and fuel oil for each type of boiler and the turbine.

2 For total hourly and annual emission criteria pollutant rates, the maximum hourly pollutant rate from either firing natural gas or fuel oil was applied for the total, but not both cases.

Hazardous Air Pollutant Emission Calculations

HAP Emission Estimates - Boilers #2 and #3 Boilers - natural gas

HAP		Emission Factor	Emission Estimate	
Organics		**lb/MMscf**	**lb/hr**	**tpy**
	POM	8.82E-05	1.53E-05	0.00000441
	Benzene	2.10E-03	3.64E-04	0.00010500
	Dichlorobenzene	1.20E-03	2.08E-04	0.00006000
	Formaldehyde	7.50E-02	0.013	0.00375000
	Hexane	1.80E+00	0.312	0.09000000
	Naphthalene	6.10E-04	1.06E-04	0.00003050
	Toluene	3.40E-03	0.00059	0.00017000
Metals				
	Arsenic	2.00E-04	3.47E-05	0.00001000
	Beryllium	1.20E-05	2.08E-06	0.00000060
	Cadmium	1.10E-03	1.91E-04	0.00005500
	Chromium	1.40E-03	2.43E-04	0.00007000
	Cobalt	8.40E-05	1.46E-05	0.00000420
	Lead	5.00E-04	8.67E-05	0.00002500
	Manganese	3.80E-04	6.59E-05	0.00001900
	Mercury	2.60E-04	4.51E-05	0.00001300
	Nickel	2.10E-03	3.64E-04	0.00010500
	Selenium	2.40E-05	4.16E-06	0.00000120
			Total **3.27E-01**	**0.094**
POM				
	2-Methylnaphthalene	2.40E-05		
	3-Methylchloranthrene	1.80E-06		
	7,12-Dimethylbenz(a)anthracene	1.60E-05		
	Acenaphthene	1.80E-06		
	Acenaphthylene	1.80E-06		
	Anthracene	2.40E-06		
	Benz(a)anthracene	1.80E-06		
	Benzo(a)pyrene	1.20E-06		
	Benzo(b)fluoranthene	1.80E-06		
	Benzo(g,h,i)perylene	1.20E-06		
	Benzo(k)fluoranthene	1.80E-06		
	Chrysene	1.80E-06		
	Dibenzo(a,h)anthracene	1.20E-06		

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	Fluoranthene		3.00E-06
	Fluorene		2.80E-06
	Indeno(1,2,3-cd)pyrene		1.80E-06
	Phenanathrene		1.70E-05
	Pyrene		5.00E-06
		Total	**8.82E-05**

Notes:

1 All emission factors from AP-42, 7/98, Section 1.4 - Natural Gas Combustion, Tables 1.4-2, 1.4-3, and 1.4-4.

2 Hourly values based on maximum hourly fuel capacity of each boiler.

3 Annual tpy values based on annual quantity of fuel allowed for boilers as a group.

HAP Emission Estimates - Boilers #2 and #3 - distillate fuel oil

HAP		**Emission Factor**	**Emission Estimate**	
Organics		**lb/1000 gal**	**lb/hr**	**tpy**
	Formaldehyde	4.80E-02	0.0625	0.0030
	POM	3.30E-03	4.30E-03	2.06E-04
Metals				
	Arsenic	5.48E-04	7.14E-04	3.43E-05
	Beryllium	4.11E-04	5.36E-04	2.57E-05
	Cadmium	4.11E-04	5.36E-04	2.57E-05
	Chromium	4.11E-04	5.36E-04	2.57E-05
	Lead	1.23E-03	1.61E-03	7.71E-05
	Manganese	8.22E-04	1.07E-03	5.14E-05
	Mercury	4.11E-04	5.36E-04	2.57E-05
	Nickel	4.11E-04	5.36E-04	2.57E-05
	Selenium	2.06E-03	2.68E-03	1.29E-04
			Total **7.56E-02**	**3.63E-03**

Notes:

1 All emission factors from AP-42, 9/98, Section 1.3, Fuel Oil Combustion, Tables 1.3-8 and 1.3-10, for distillate oil.

2 Hourly values based on maximum hourly fuel capacity of each boiler.

3 Annual tpy values based on annual quantity of fuel allowed for boilers as a group.

HAP Emission Estimates - Combustion Turbine - natural gas

HAP	Emission Factor		Emission Estimate	
Organics	lb/MMBtu	lbMMscf	lb/hr	tpy
1,3-Butadiene	4.30E-07	4.52E-04	1.27E-04	0.00032
Acetaldehyde	4.00E-05	4.20E-02	0.012	0.029
Acrolein	6.40E-06	6.72E-03	1.89E-03	0.00470
Benzene	1.20E-05	1.26E-02	3.54E-03	0.00882
Ethylbenzene	3.20E-05	3.36E-02	9.45E-03	0.02352
Formaldehyde	7.10E-04	7.46E-01	0.210	0.522
Naphthalene	1.30E-06	1.37E-03	3.84E-04	0.00096
PAH	2.20E-06	2.31E-03	6.50E-04	0.00162
Propylene oxide	2.90E-05	3.05E-02	8.56E-03	0.02132
Toluene	1.30E-04	1.37E-01	0.038	0.09555
Xylenes	6.40E-05	6.72E-02	0.019	0.04704
		Total	**3.03E-01**	**0.75509**

Notes:

1 All emission factors from AP-42, 4/2000, Section 3-1, Natural Gas Turbines, Table 3.1-3.

2 Hourly values based on maximum hourly fuel consumption at 9 degree F, 100% load.

3 Annual values based on annual fuel estimates.

HAP Emission Estimates - Auxiliary Boilers #4 and #5 - natural gas

HAP		Emission Factor	Emission Estimate	
Organics		**lb/MMscf**	**lb/hr**	**tpy**
	POM	8.82E-05	6.077E-06	0.00004
	Benzene	2.10E-03	1.447E-04	0.00098
	Dichlorobenzene	1.20E-03	8.268E-05	0.00056
	Formaldehyde	7.50E-02	0.0052	0.03508
	Hexane	1.80E+00	0.1240	0.84194
	Naphthalene	6.10E-04	4.203E-05	0.00029
	Toluene	3.40E-03	0.00023	0.00159
Metals				
	Arsenic	2.00E-04	1.378E-05	0.00009
	Beryllium	1.20E-05	8.268E-07	0.00001
	Cadmium	1.10E-03	7.579E-05	0.00051
	Chromium	1.40E-03	9.646E-05	0.00065
	Cobalt	8.40E-05	5.787E-06	0.00004
	Lead	5.00E-04	3.445E-05	0.00023
	Manganese	3.80E-04	2.618E-05	0.00018
	Mercury	2.60E-04	1.791E-05	0.00012
	Nickel	2.10E-03	1.447E-04	0.00098
	Selenium	2.40E-05	1.654E-06	0.00001
			Total **0.130**	**0.883**
POM				
	2-Methylnaphthalene	2.40E-05		
	3-Methylchloranthrene	1.80E-06		
	7,12-Dimethylbenz(a)anthracene	1.60E-05		
	Acenaphthene	1.80E-06		
	Acenaphthylene	1.80E-06		
	Anthracene	2.40E-06		
	Benz(a)anthracene	1.80E-06		
	Benzo(a)pyrene	1.20E-06		
	Benzo(b)fluoranthene	1.80E-06		
	Benzo(g,h,i)perylene	1.20E-06		
	Benzo(k)fluoranthene	1.80E-06		
	Chrysene	1.80E-06		
	Dibenzo(a,h)anthracene	1.20E-06		
	Fluoranthene	3.00E-06		

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	Fluorene		2.80E-06
	Indeno(1,2,3-cd)pyrene		1.80E-06
	Phenanathrene		1.70E-05
	Pyrene		5.00E-06
		Total	**8.82E-05**

Notes:

1 All emission factors from AP-42, 7/98, Section 1.4 - Natural Gas Combustion, Tables 1.4-3, and 1.4-4.

2 Hourly values based on maximum hourly fuel capacity of each boiler.

3 Annual tpy values based on annual quantity of fuel allowed for boilers as a group.

HAP Emission Estimates - Auxiliary Boilers #4 and #5 - fuel oil

HAP		Emission Factor	Emission Estimate	
Organics		**lb/1000 gal**	**lb/hr**	**tpy**
	Formaldehyde	4.80E-02	0.0243	0.0012
	POM	3.30E-03	1.67E-03	8.02E-05
Metals				
	Arsenic	5.48E-04	2.77E-04	1.33E-05
	Beryllium	4.11E-04	2.08E-04	9.99E-06
	Cadmium	4.11E-04	2.08E-04	9.99E-06
	Chromium	4.11E-04	2.08E-04	9.99E-06
	Lead	1.23E-03	6.24E-04	3.00E-05
	Manganese	8.22E-04	4.16E-04	2.00E-05
	Mercury	4.11E-04	2.08E-04	9.99E-06
	Nickel	4.11E-04	2.08E-04	9.99E-06
	Selenium	2.06E-03	1.04E-03	4.99E-05
			Total **0.0294**	**0.00141**

Notes:

1 All emission factors from AP-42, 9/98, Section 1.3, Fuel Oil Combustion, Tables 1.3-8 and 1.3-10, for distillate oil.

2 Hourly values based on maximum hourly fuel capacity of each boiler.

3 Annual tpy values based on annual quantity of fuel allowed for boilers as a group.

Scenario #1 - Dispersion Model Input Emission Rates

Emission Estimates - Boilers #2, #3, #4, and #5 - lb/hr

	NOx	CO	SOx	PM	PM_{10}	$PM_{2.5}$
Boilers #2 and #3 (each) - gas	10.347	7.136	0.3823	1.356	1.356	1.356
Boilers #2 and #3 (each) - oil	11.257	6.515	9.6416	2.997	2.997	2.020
Combustion Turbine	24.551	29.888	0.6203	1.968	1.968	1.968
Aux. Boilers #4 and #5 (ea.) gas	0.824	2.779	0.1520	0.515	0.515	0.515
Aux. Boilers #4 and #5 (ea.) oil	6.200	2.700	3.3000	1.600	1.600	1.600
Total	53.178	49.0	14.1	8.44	8.44	7.46

Emission Estimates - Boilers #2, #3, #4, and #5 - g/s

Stack ID.	NOx	CO	SOx	PM	PM_{10}	$PM_{2.5}$
Boiler #2 - S1	1.418	0.899	1.215	0.378	0.378	0.254
Boiler #3 - S2	1.418	0.899	1.215	0.378	0.378	0.254
Boiler #4 - S3	0.781	0.350	0.416	0.202	0.202	0.202
Boiler #5 - S4	0.781	0.350	0.416	0.202	0.202	0.202

Emission Estimates - Combustion Turbine - g/s

Stack ID.	NOx	CO	SOx	PM	PM_{10}	$PM_{2.5}$
TA3_CT	3.093	3.766	0.078	0.248	0.248	0.248

Notes:

1 For boiler emission rates (g/s), the higher value (shaded) of natural gas or oil was selected for the modeling input.

2 Boiler 1 was shutdown and decommissioned. Boiler 2 shares a common stack. The emissions and flowrate for Stack 1 will be limited to Boiler 2.

3 To convert lb/hr to g/s, multiply by 0.126.

Assumptions: **Scenario #2:**

1. For winter heating season, either Boiler #2 or #3 will operate throughout the season with the other one in standby mode. The two AUX boilers (Boilers #4 and #5) will not operate during this season.
2. For summer non-heating season (mid-April to mid-October), one AUX boiler (Boiler #4 or #5) will operate full time and the other AUX unit is operating in standby mode.
3. Combustion turbine (TA-3-22-CT -1) operating at 100% load.
4. The five year average HHV for natural gas is 1050 Btu/SCF (2019-2023).

Criteria Pollutant Emission Estimates

Boilers #2 and #3 plus Combustion Turbine

Operational Data: Either Boiler #2 or #3 will operate throughout the heating season with the other one in the standby mode.

Fuel						
Natural gas						
	Heat Content (HHV)	1050	Btu/SCF			
	Sulfur Content	0.75	grains/ 100 SCF			
Diesel #2 Fuel Oil						
	Heat Content	137,000	Btu/gallon			
	Sulfur Content	0.05	%			
Boilers #2 and #3	**Each Boiler**			**Annual Fuel Usage (combined)**		
Maximum Heat Input (derated)	178.5	MMBtu/hr				
Maximum Fuel Consumption - gas	173.3	mSCF/hr		Natural gas use	759,000	mSCF/yr
Standby Fuel Consumptions - gas	5.0	mSCF/hr		Standby gas use	21,900	mSCF/yr
				Total natural gas	780,900	mSCF/yr
Maximum Fuel Consumption - oil	1.303	mGAL/hr		Total fuel oil	125	mGAL/yr
Combustion Turbine						
Maximum Fuel Consumption	281.2	mSCF/hr	Annual Fuel Limit		1,400,000	mSCF/yr
Requested Maximum Fuel Limit - Natural gas - All sources					**2,504,582**	**mSCF/yr**

Derivation of Combustion Turbine NOx and CO Factors

Compliance test results at multiple loads

	6/17/2010 77 F Ambient Temp		1/19/2011 34 F Ambient Temp	
	100% Load	80% Load	100% Load	80% Load
NOx ppmv	15.1	17	17.7	19.9
NOx lb/hr	15.75	15.13	21.09	19.44
CO ppmv	10.1	14.3	4.1	21.9
CO lb/hr	6.42	7.75	2.95	13.03
DSCFH	6.76E+06	6.77E+06	7.86E+06	7.10E+06

Calculate maximum lb/hr emission rates for each load

	100% load	80% load
NOx, lb/hr	23.8	21.5
CO, lb/hr	29.0	26.2

Example (4): lb/hr = DSCFH x 25/1000000 / 379 ft3 per lb-mole @ 60 F (520 R) x MW

CT calculated emission factors

NOx, lb/mSCF	0.0848
CO, lb/mSCF	0.1033

Emssion Factors - Blrs. #2 and #3 & CT

	NOx	CO	SOx	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler - gas (lb/mSCF)	0.0597	0.0412	0.002206	0.0057	0.0078	0.0078	0.0078
Boiler - oil (lb/mGAL)	8.6400	5.0000	7.4	0.20	2.3000	2.3000	1.5500
Combustion Turbine (lb/mSCF)	0.0873	0.1063	0.002206	0.0022	0.0070	0.0070	0.0070

Notes:

Emission Factors - Boilers -natural gas

1 NOx - The FGR emission control factor is the average value from the September 2002 compliance test results.

2 CO - From AP-42,1995, Section 1.4 -Natural Gas Combustion. Older AP-42 value closer to compliance test values.

3 SOx - 0.75 gr S/100 scf, or 7,500 gr S/MMscf x lb/7000 gr x 2 lbs SO2/1 lb S.

4 VOC, PM, PM_{10} and $PM_{2.5}$ - From AP-42, 7/98, Section 1.4 - Natural Gas Combustion.

5 Emission factors adjusted by ratio of average LANL HHV 1050 to AP-42 value of 1020 (1050/1020 = 1.0294).

Emission Factors - Boilers - fuel oil

1 NOx -Factor assumes similar reduction for oil as test results natural gas.

2 CO, VOC, PM, PM_{10} and $PM_{2.5}$- From AP-42, 9/98, Section 1.3 - Fuel Oil Combustion.

3 SOx - From AP-42,9/98,Section 1.3 -Fuel Oil Combustion,Table 1.3-1 corrected by EPA on 4/28/00,using 0.05% S.

Emission Factors - Combustion Turbine

1 NOx and CO factors calculated using highest exhaust flow from recent tests and 25 ppm NOx and 50 ppm CO.

2 SOx - 0.75 gr S/100 scf, or 7,500 gr S/MMscf x lb/7000 gr x 2 lbs SO2/1 lb S.

3 VOC,PM, PM_{10} and $PM_{2.5}$- From AP-42, 4/00, Section 3.1 - Stationary Gas Turbines.

4 Rolls-Royce SO-5130 – Carlyle Capital Markets Inc. - Emissions Datasheets, NOV 2003

5 Emission factors adjusted by ratio of average LANL HHV 1050 to AP-42 value of 1020 (1050/1020 = 1.0294).

Maximum Emissions - Blrs. #2 and #3 & CT

		NOx	CO	SOx	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler (each) gas	lb/hr	28.741	7.136	0.382	0.981	1.356	1.356	1.356
	tpy	125.887	31.255	1.674	4.298	5.938	5.938	5.938
Boiler (each) oil	lb/hr	31.270	6.515	9.642	0.261	2.997	2.997	2.020
	tpy	136.963	28.534	42.230	1.141	13.126	13.126	8.846
Combustion Turbine	lb/hr	81.836	29.888	0.620	0.626	1.968	1.968	1.968
	tpy	358.441	130.909	2.717	2.742	8.619	8.619	8.619
Totals	**lb/hr**	144.38	44.160	19.903	2.588	7.961	7.961	6.007
	tpy	632.37	193.42	87.177	11.337	34.870	34.870	26.310

Notes:

1 Calculations do not use any current enforceable fuel restrictions or NOx controls on the boilers or turbine.

2 Uncontrolled NOx factors calculated assuming 64% control for FGR on boilers and 70% control for turbine.

3 The total values for boilers use the worst-case fuel for each pollutant.

Requested Allowable Emissions - Blrs. #2 and #3 & CT

			NOx	CO	SOx	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler (each) gas		lb/hr	10.347	7.136	0.382	0.981	1.356	1.356	1.356
	Combined	tpy	23.312	16.077	0.861	2.211	3.055	3.055	3.055
Boiler (each) oil		lb/hr	11.257	6.515	9.642	0.261	2.997	2.997	2.020
	Combined	tpy	0.540	0.313	0.463	0.013	0.144	0.144	0.097
Boilers (combined)		tpy	23.852	16.390	1.324	2.223	3.199	3.199	3.152
Based on Boiler Fuel Limits for natural gas and oil									
Combustion Turbine		lb/hr	24.551	29.888	0.620	0.626	1.968	1.968	1.968
Based on CT Fuel Limit		tpy	61.115	74.401	1.544	1.559	4.899	4.899	4.899

Notes:

1 Requested allowable emissions reflect NOx controls and natural gas/fuel oil calculated fuel use for boilers and turbines.

2 The current individual fuel limits on boilers for CAM rule avoidance not needed since if all allowed gas and oil was consumed annually in one boiler uncontrolled emissions of NOx < 100 tpy (87.2 tpy from Scenario #2).

Auxiliary Boilers (#4 and #5) - Criteria Pollutant Emission Estimates

Operational Data: One AUX boiler is operates full time for the non-heating season and the other AUX unit is operating in standby mode.

Fuel					
Natural Gas					
	Heat Content (HHV)	1050	BTU/SCF		
	Sulfur Content	0.75	grains/ 100 SCF		
Diesel #2 Fuel Oil					
	Heat Content	137,000	BTU/GAL		
	Sulfur Content	0.05	wt%		
Auxiliary Boilers (each)				Annual Fuel Usage (all aux. boilers)	
Maximum Heat Input - gas		72.3	mmBTU/hr (derated for altitude)		
Maximum Fuel Consumption - gas	Main unit	68.9	mSCF/hr	301,782	mSCF/yr
	Standby unit	5.0	mSCF/hr	21,900	mSCF/yr
				323,682	mSCF/yr - Total
Maximum Heat Input - oil		69.4	mmBTU/hr (derated for altitude)		
Maximum Fuel Consumption - oil		0.5	mGAL/hr	48.6	mGAL/yr - Total

Notes:

1 The maximum heat input for each boiler of 72.3 MMBtu/hr while firing natural gas is the derated value provided by the vendor at 7,500 feet.

2 The maximum heat input for each boiler of 69.4 MMBtu/hr while firing diesel #2 fuel oil is the derated value provided by the vendor at 7,500 feet.

3 Maximum non-emergency hours of operation for oil use is 48 hours.

Auxiliary Boilers (#4 and #5) Emission Factors

	NO_X	CO	SO_X	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler - gas (lb/mSCF)	0.0120	0.0403	0.002206	0.0045	0.0075	0.0075	0.0075
Boiler - oil (lb/mGal)	12.2478	5.3337	6.519	0.1975	3.1607	3.1607	3.1607

Notes:

Emission Factors - AUX. Boilers - Natural Gas

1 NO_X - Emission factor was provided by the vendor.

2 CO - Emission factor was provided by the vendor.

3 SO_X - Calculated based upon sulfur content of natural gas of 0.75 gr S/100 scf.

4 VOC - Emission factor was provided by the vendor.

5 PM, PM_{10} and $PM_{2.5}$ - Emission factor provided by the vendor.
Assuming emission factor is the same for all particulate sizes.

Emission Factors - AUX. Boilers - Diesel #2 Fuel Oil

1 NO_X - Emission factor was provided by the vendor.

2 CO - Emission factor was provided by the vendor.

3 SOx - Emission factor was provided by the vendor and is based on 0.05% by wt. sulfur

4 VOC - Emission factor was provided by the vendor.

5 PM, PM_{10} and $PM_{2.5}$ - Emission factor provided by the vendor.
Assuming emission factor is the same for all particulate sizes.

Auxiliary Boilers (#4 and #5) Maximum Emissions (based on 8760 hours)

		NO_X	CO	SO_X	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler (each) gas	lb/hr	0.8235	2.7794	0.1520	0.3088	0.5147	0.5147	0.5147
Boiler (each) gas	tpy	3.6070	12.1737	0.6657	1.3526	2.2544	2.2544	2.2544
Boiler (each) oil	lb/hr	6.2000	2.7000	3.3000	0.1000	1.6000	1.6000	1.6000
Boiler (each) oil	tpy	27.1560	11.8260	14.4540	0.4380	7.0080	7.0080	7.0080
Totals	**lb/hr**	12.4000	5.5588	6.6000	0.6176	3.2000	3.2000	3.2000
	tpy	54.312	24.347	28.908	2.705	14.016	14.016	14.016

Notes:

1 Maximum emissions calculated above assuming 8,760 hours per year and no control efficiencies are applied.

2 For total hourly and annual emission criteria pollutant rates, the maximum hourly and annual pollutant rate from either firing natural gas or fuel oil was added into the total, not both cases.

Auxiliary Boilers (#4 and #5) - Requested Allowable Emissions

		NO_X	CO	SO_X	VOC	PM	PM_{10}	$PM_{2.5}$
Boiler (each) gas	lb/hr	0.8235	2.7794	0.1520	0.3088	0.5147	0.5147	0.5147
Boiler (each) gas	tpy	0.9672	3.2644	0.1785	0.3627	0.6045	0.6045	0.6045
Boiler (each) oil	lb/hr	6.2000	2.7000	3.3000	0.1000	1.6000	1.6000	1.6000
Based on 48 hours (each)	tpy	0.1488	0.0648	0.0792	0.0024	0.0384	0.0384	0.0384
Totals	lb/hr	12.400	5.559	6.600	0.618	3.200	3.200	3.200
	tpy	2.232	6.658	0.515	0.730	1.286	1.286	1.286

Scenario #2

Summary Table - Requested Allowable Emissions - Boilers #2, #3, #4, #5 & CT

			NO_X	CO	SO_X	VOC	PM	PM_{10}	$PM_{2.5}$
Boilers 2+3 Combined		tpy	23.852	16.390	1.324	2.223	3.199	3.199	3.152
Max. Fuel NG	780,900	mSCF							
Boilers 4+5 Combined		tpy	2.232	6.658	0.515	0.730	1.286	1.286	1.286
Max. Fuel NG	323,682	mSCF							
Combustion Turbine		tpy	61.115	74.401	1.544	1.559	4.899	4.899	4.899
Max. Fuel NG	1,400,000	mSCF							
		tpy	**87.2**	**97.45**	**3.38**	**4.51**	**9.38**	**9.38**	**9.34**

Notes:

1 Requested allowable emissions is based on the annual fuel use calculated for natural gas and fuel oil for each type of boiler and the turbine.

2 For total hourly and annual emission criteria pollutant rates, the maximum hourly pollutant rate from either firing natural gas or fuel oil was added into the total, not both cases.

Hazardous Air Pollutant Emission Calculations

HAP Emission Estimates - Boilers #2 and #3 Boilers - natural gas

HAP		Emission Factor	Emission Estimate	
Organics		**lb/MMscf**	**lb/hr**	**tpy**
	POM	8.82E-05	1.53E-05	0.00003444
	Benzene	2.10E-03	3.64E-04	0.00081995
	Dichlorobenzene	1.20E-03	2.08E-04	0.00046854
	Formaldehyde	7.50E-02	1.30E-02	0.02928375
	Hexane	1.80E+00	3.12E-01	0.70281000
	Naphthalene	6.10E-04	1.06E-04	0.00023817
	Toluene	3.40E-03	5.89E-04	0.00132753
Metals				0.00000000
	Arsenic	2.00E-04	3.47E-05	0.00007809
	Beryllium	1.20E-05	2.08E-06	0.00000469
	Cadmium	1.10E-03	1.91E-04	0.00042950
	Chromium	1.40E-03	2.43E-04	0.00054663
	Cobalt	8.40E-05	1.46E-05	0.00003280
	Lead	5.00E-04	8.67E-05	0.00019523
	Manganese	3.80E-04	6.59E-05	0.00014837
	Mercury	2.60E-04	4.51E-05	0.00010152
	Nickel	2.10E-03	3.64E-04	0.00081995
	Selenium	2.40E-05	4.16E-06	0.00000937
			Total **3.273E-01**	**0.737**
POM				
	2-Methylnaphthalene	2.40E-05		
	3-Methylchloranthrene	1.80E-06		
	7,12-Dimethylbenz(a)anthracene	1.60E-05		
	Acenaphthene	1.80E-06		
	Acenaphthylene	1.80E-06		
	Anthracene	2.40E-06		
	Benz(a)anthracene	1.80E-06	POM estimates above	
	Benzo(a)pyrene	1.20E-06	under Organics.	
	Benzo(b)fluoranthene	1.80E-06		
	Benzo(g,h,i)perylene	1.20E-06		
	Benzo(k)fluoranthene	1.80E-06		
	Chrysene	1.80E-06		
	Dibenzo(a,h)anthracene	1.20E-06		

Fluoranthene		3.00E-06
Fluorene		2.80E-06
Indeno(1,2,3-cd)pyrene		1.80E-06
Phenanathrene		1.70E-05
Pyrene		5.00E-06
	Total	**8.82E-05**

Notes:

1 All emission factors from AP-42, 7/98, Section 1.4 - Natural Gas Combustion, Tables 1.4-2, 1.4-3, and 1.4-4.

2 Hourly values based on maximum hourly fuel capacity of each boiler.

3 Annual tpy values based on annual quantity of fuel allowed for boilers as a group.

HAP Emission Estimates - Boilers #2 and #3 - distillate fuel oil

HAP		Emission Factor	Emission Estimate	
Organics		**lb/1000 gal**	**lb/hr**	**tpy**
	Formaldehyde	4.80E-02	6.254E-02	3.00E-03
	POM	3.30E-03	4.30E-03	2.06E-04
Metals				
	Arsenic	5.48E-04	7.14E-04	3.43E-05
	Beryllium	4.11E-04	5.36E-04	2.57E-05
	Cadmium	4.11E-04	5.36E-04	2.57E-05
	Chromium	4.11E-04	5.36E-04	2.57E-05
	Lead	1.23E-03	1.61E-03	7.71E-05
	Manganese	8.22E-04	1.07E-03	5.14E-05
	Mercury	4.11E-04	5.36E-04	2.57E-05
	Nickel	4.11E-04	5.36E-04	2.57E-05
	Selenium	2.06E-03	2.68E-03	1.29E-04
		Total	**7.56E-02**	**0.00363**

Notes:

1 All emission factors from AP-42, 9/98, Section 1.3, Fuel Oil Combustion, Tables 1.3-8 and 1.3-10, for distillate oil.

2 Hourly values based on maximum hourly fuel capacity of each boiler.

3 Annual tpy values based on annual quantity of fuel allowed for boilers as a group.

HAP Emission Estimates - Combustion Turbine - natural gas

HAP	Emission Factor		Emission Estimate	
Organics	lb/MMBtu	lbMMscf	lb/hr	tpy
1,3-Butadiene	4.30E-07	4.52E-04	1.27E-04	0.0003
Acetaldehyde	4.00E-05	4.20E-02	1.18E-02	0.0294
Acrolein	6.40E-06	6.72E-03	1.89E-03	0.0047
Benzene	1.20E-05	1.26E-02	3.54E-03	0.0088
Ethylbenzene	3.20E-05	3.36E-02	9.45E-03	0.0235
Formaldehyde	7.10E-04	7.46E-01	2.10E-01	0.5219
Naphthalene	1.30E-06	1.37E-03	3.84E-04	0.0010
PAH	2.20E-06	2.31E-03	6.50E-04	0.0016
Propylene oxide	2.90E-05	3.05E-02	8.56E-03	0.0213
Toluene	1.30E-04	1.37E-01	3.84E-02	0.0956
Xylenes	6.40E-05	6.72E-02	1.89E-02	0.0470
		Total	**3.03E-01**	**0.755**

Notes:

1 All emission factors from AP-42, 4/2000, Section 3-1, Natural Gas Turbines, Table 3.1-3.

2 Hourly values based on maximum hourly fuel consumption at 9 degree F, 100% load.

3 Annual values based on annual fuel estimates.

HAP Emission Estimates - Auxiliary Boilers #4 and #5 - natural gas

HAP		Emission Factor	Emission Estimate	
Organics		**lb/MMscf**	**lb/hr**	**tpy**
	POM	8.82E-05	6.077E-06	0.00001
	Benzene	2.10E-03	1.447E-04	0.00034
	Dichlorobenzene	1.20E-03	8.268E-05	0.00019
	Formaldehyde	7.50E-02	5.167E-03	0.01214
	Hexane	1.80E+00	1.240E-01	0.29131
	Naphthalene	6.10E-04	4.203E-05	0.00010
	Toluene	3.40E-03	2.343E-04	0.00055
Metals				
	Arsenic	2.00E-04	1.378E-05	0.00003
	Beryllium	1.20E-05	8.268E-07	0.00000
	Cadmium	1.10E-03	7.579E-05	0.00018
	Chromium	1.40E-03	9.646E-05	0.00023
	Cobalt	8.40E-05	5.787E-06	0.00001
	Lead	5.00E-04	3.445E-05	0.00008
	Manganese	3.80E-04	2.618E-05	0.00006
	Mercury	2.60E-04	1.791E-05	0.00004
	Nickel	2.10E-03	1.447E-04	0.00034
	Selenium	2.40E-05	1.654E-06	0.00000
			Total **1.30E-01**	**0.306**
POM				
	2-Methylnaphthalene	2.40E-05		
	3-Methylchloranthrene	1.80E-06		
	7,12-Dimethylbenz(a)anthracene	1.60E-05		
	Acenaphthene	1.80E-06		
	Acenaphthylene	1.80E-06		
	Anthracene	2.40E-06		
	Benz(a)anthracene	1.80E-06		
	Benzo(a)pyrene	1.20E-06		
	Benzo(b)fluoranthene	1.80E-06		
	Benzo(g,h,i)perylene	1.20E-06		
	Benzo(k)fluoranthene	1.80E-06		
	Chrysene	1.80E-06		
	Dibenzo(a,h)anthracene	1.20E-06		
	Fluoranthene	3.00E-06		
	Fluorene	2.80E-06		

Indeno(1,2,3-cd)pyrene		1.80E-06
Phenanathrene		1.70E-05
Pyrene		5.00E-06
	Total	**8.82E-05**

Notes:

1 All emission factors from AP-42, 7/98, Section 1.4 - Natural Gas Combustion, Tables 1.4-2, 1.4-3, and 1.4-4.

2 Hourly values based on maximum hourly fuel capacity of each boiler.

3 Annual tpy values based on annual quantity of fuel allowed for boilers as a group.

HAP Emission Estimates - Auxiliary Boilers #4 and #5 - distillate fuel oil

HAP	Emission Factor	Emission Estimate	
Organics	**lb/1000 gal**	**lb/hr**	**tpy**
Formaldehyde	4.80E-02	2.43E-02	1.17E-03
POM	3.30E-03	1.67E-03	8.02E-05
Metals			
Arsenic	5.48E-04	2.77E-04	1.33E-05
Beryllium	4.11E-04	2.08E-04	9.99E-06
Cadmium	4.11E-04	2.08E-04	9.99E-06
Chromium	4.11E-04	2.08E-04	9.99E-06
Lead	1.23E-03	6.24E-04	3.00E-05
Manganese	8.22E-04	4.16E-04	2.00E-05
Mercury	4.11E-04	2.08E-04	9.99E-06
Nickel	4.11E-04	2.08E-04	9.99E-06
Selenium	2.06E-03	1.04E-03	4.99E-05
	Total	**2.94E-02**	**1.41E-03**

Notes:

1 All emission factors from AP-42, 9/98, Section 1.3, Fuel Oil Combustion, Tables 1.3-8 and 1.3-10, for distillate oil.

2 Hourly values based on maximum hourly fuel capacity of each boiler.

3 Annual tpy values based on annual quantity of fuel allowed for boilers as a group.

Dispersion Model Input Emission Rates **Scenario #2**

Emission Estimates - Boilers #2, #3, #4, and #5 - lb/hr

	NOx	CO	SOx	PM	PM_{10}	$PM_{2.5}$
Boilers #2 and #3 (each) - gas	10.347	7.136	0.382	1.356	1.356	1.356
Boilers #2 and #3 (each) - oil	11.257	6.515	9.642	2.997	2.997	2.020
Combustion Turbine	24.551	29.888	0.620	1.968	1.968	1.968
Aux. Boilers #4 and #5 (ea.) gas	0.824	2.779	0.152	0.515	0.515	0.515
Aux. Boilers #4 and #5 (ea.) oil	6.200	2.700	3.300	1.600	1.600	1.600
Max. lb/hr	59.47	49.72	26.50	11.16	11.16	9.21

Emission Estimates - Boilers #2, #3, #4, and #5 - g/s

Stack ID.	NOx	CO	SOx	PM	PM_{10}	$PM_{2.5}$
Boiler #2 - S1	1.418	0.899	1.215	0.378	0.378	0.254
Boiler #3 - S2	1.418	0.899	1.215	0.378	0.378	0.254
Boiler #4 - S3	0.781	0.350	0.416	0.202	0.202	0.202
Boiler #5 - S4	0.781	0.350	0.416	0.202	0.202	0.202

Emission Estimates - Combustion Turbine - g/s

Stack ID.	NOx	CO	SOx	PM	PM_{10}	$PM_{2.5}$
TA3_CT	3.093	3.766	0.078	0.248	0.248	0.248

Notes:

1 For boilers, selected higher value (shaded) of natural gas or oil.

2 Boiler 1 was shutdown and decommissioned. Boiler 2 shares the common stack. The emissions and flowrate for Stack 1 will be limited to Boiler 2.

3 To convert lb/hr to g/s, multiply by 0.126.

Criteria Pollutant Emission Estimates - Heaters (Exempt Sources)

Operational Data

Fuel		
Natural Gas		
Heat Content (HHV)	1050	BTU/SCF
Sulfur Content	0.75	grains/ 100 SCF
Makeup Air Heater (each)		
Maximum Heat Input (derated)	1.93	mmBTU/hr
Maximum Fuel Consumption - gas	1.84	mSCF/hr
Comfort Heater (2-combined)		
Maximum Heat Input (derated)	0.075	mmBTU/hr
Maximum Fuel Consumption - gas	0.071	mSCF/hr

Emission Factors

	NO_X	CO	SO_X	VOC	TSP	PM_{10}	$PM_{2.5}$
Makeup Air Heater - gas (lb/mmBTU)	0.0005	0.0031	0.0006	0.0054	0.0075	0.0075	0.0075
Comfort Heater - gas (lb/mmBTU)	0.0980	0.0824	0.0006	0.0054	0.0075	0.0075	0.0075

Notes

Emission Factors - Makeup Air Heaters - Natural Gas

1 NO_X - Emission factor calculated using information obtained from manufacturer cut sheet. Concentration listed on sheet converted to 3% O_2.

2 CO - Emission factor calculated using information obtained from manufacturer cut sheet. Concentration listed on sheet converted to 3% O_2.

3 SO_X - From AP-42, 1995, Section 1.4 -Natural Gas Combustion.

4 VOC - From AP-42, 1995, Section 1.4 -Natural Gas Combustion.

5 TSP, PM_{10} and $PM_{2.5}$ - From AP-42, 1995, Section 1.4 -Natural Gas Combustion. Assuming emission factor is the same for all particulate sizes.

Emission Factors - Comfort Heaters - Natural Gas

1 NO_X - From AP-42, 1995, Section 1.4 -Natural Gas Combustion.

2 CO - From AP-42, 1995, Section 1.4 -Natural Gas Combustion.

3 SO_X - From AP-42, 1995, Section 1.4 -Natural Gas Combustion.

4 VOC - From AP-42, 1995, Section 1.4 -Natural Gas Combustion.

5 TSP, PM_{10} and $PM_{2.5}$ - From AP-42, 1995, Section 1.4 -Natural Gas Combustion. Assuming emission factor is the same for all particulate sizes.

Maximum Allowable Emissions - Makeup Air Heaters

		NO_X	CO	SO_X	VOC	TSP	PM_{10}	$PM_{2.5}$
Makeup Air Heater (each)	lb/hr	9.92E-04	6.04E-03	1.13E-03	1.04E-02	1.44E-02	1.44E-02	1.44E-02
	tpy	4.35E-03	2.65E-02	4.96E-03	4.55E-02	6.29E-02	6.29E-02	6.29E-02
Totals	lb/hr	2.0E-03	1.2E-02	2.3E-03	2.1E-02	2.9E-02	2.9E-02	2.9E-02
	tpy	8.7E-03	5.3E-02	9.9E-03	9.1E-02	1.3E-01	1.3E-01	1.3E-01

Maximum Allowable Emissions - Comfort Heaters - Combined

		NO_X	CO	SO_X	VOC	TSP	PM_{10}	$PM_{2.5}$
Comfort Heaters (2)	lb/hr	7.35E-03	6.18E-03	4.50E-05	4.05E-04	5.59E-04	5.59E-04	5.59E-04
	tpy	3.22E-02	2.71E-02	1.97E-04	1.77E-03	2.45E-03	2.45E-03	2.45E-03

Hazardous Air Pollutant Emission Calculations

HAP Emission Estimates - Makeup Air Heaters (Exempt Sources) - Natural Gas

HAP	Emission Factor	Emission Estimate lb/hr	Emission Estimate tpy
Organics	lb/MMscf	(each heater	(all heaters)
POM	8.82E-05	1.6E-07	1.4E-06
Benzene	2.10E-03	3.9E-06	3.4E-05
Dichlorobenzene	1.20E-03	2.2E-06	1.9E-05
Formaldehyde	7.50E-02	1.4E-04	1.2E-03
Hexane	1.80E+00	3.3E-03	2.9E-02
Naphthalene	6.10E-04	1.1E-06	9.8E-06
Toluene	3.40E-03	6.2E-06	5.5E-05
Metals			
Arsenic	2.00E-04	3.7E-07	3.2E-06
Beryllium	1.20E-05	2.2E-08	1.9E-07
Cadmium	1.10E-03	2.0E-06	1.8E-05
Chromium	1.40E-03	2.6E-06	2.3E-05
Cobalt	8.40E-05	1.5E-07	1.4E-06
Lead	5.00E-04	9.2E-07	8.0E-06
Manganese	3.80E-04	7.0E-07	6.1E-06
Mercury	2.60E-04	4.8E-07	4.2E-06
Nickel	2.10E-03	3.9E-06	3.4E-05
Selenium	2.40E-05	4.4E-08	3.9E-07
	total	3.5E-03	3.0E-02
POM			
2-Methylnaphthalene	2.40E-05		
3-Methylchloranthrene	1.80E-06		
7,12-Dimethylbenz(a)anthracene	1.60E-05		
Acenaphthene	1.80E-06		
Acenaphthylene	1.80E-06		
Anthracene	2.40E-06		
Benz(a)anthracene	1.80E-06	POM estimates above	
Benzo(a)pyrene	1.20E-06	under Organics.	
Benzo(b)fluoranthene	1.80E-06		
Benzo(g,h,i)perylene	1.20E-06		
Benzo(k)fluoranthene	1.80E-06		
Chrysene	1.80E-06		
Dibenzo(a,h)anthracene	1.20E-06		
Fluoranthene	3.00E-06		
Fluorene	2.80E-06		
Indeno(1,2,3-cd)pyrene	1.80E-06		
Phenanathrene	1.70E-05		
Pyrene	5.00E-06		
total	8.82E-05		

Notes

1 All emission factors from AP-42, 7/98, Section 1.4 - Natural Gas Combustion, Tables 1.4-3 and 1.4-4.

2 Hourly values based on maximum hourly fuel capacity of the heater.

3 Annual tpy values based on annual hours of operation.

Hazardous Air Pollutant Emission Calculations

HAP Emission Estimates - Two Comfort Heaters (Combined) (Exempt Sources) - Natural Gas

HAP		Emission Factor lb/MMscf		Emission Estimate lb/hr Combined	Emission Estimate tpy Combined
Organics					
	POM	8.82E-05		6.6E-09	2.9E-08
	Benzene	2.10E-03		1.6E-07	6.9E-07
	Dichlorobenzene	1.20E-03		9.0E-08	3.9E-07
	Formaldehyde	7.50E-02		5.6E-06	2.5E-05
	Hexane	1.80E+00		1.4E-04	5.9E-04
	Naphthalene	6.10E-04		4.6E-08	2.0E-07
	Toluene	3.40E-03		2.6E-07	1.1E-06
Metals					
	Arsenic	2.00E-04		1.5E-08	6.6E-08
	Beryllium	1.20E-05		9.0E-10	3.9E-09
	Cadmium	1.10E-03		8.3E-08	3.6E-07
	Chromium	1.40E-03		1.1E-07	4.6E-07
	Cobalt	8.40E-05		6.3E-09	2.8E-08
	Lead	5.00E-04		3.8E-08	1.6E-07
	Manganese	3.80E-04		2.9E-08	1.2E-07
	Mercury	2.60E-04		2.0E-08	8.5E-08
	Nickel	2.10E-03		1.6E-07	6.9E-07
	Selenium	2.40E-05		1.8E-09	7.9E-09
			total	1.4E-04	6.2E-04
POM					
	2-Methylnaphthalene	2.40E-05			
	3-Methylchloranthrene	1.80E-06			
	7,12-Dimethylbenz(a)anthracene	1.60E-05			
	Acenaphthene	1.80E-06			
	Acenaphthylene	1.80E-06			
	Anthracene	2.40E-06			
	Benz(a)anthracene	1.80E-06		POM estimates above	
	Benzo(a)pyrene	1.20E-06		under Organics.	
	Benzo(b)fluoranthene	1.80E-06			
	Benzo(g,h,i)perylene	1.20E-06			
	Benzo(k)fluoranthene	1.80E-06			
	Chrysene	1.80E-06			
	Dibenzo(a,h)anthracene	1.20E-06			
	Fluoranthene	3.00E-06			
	Fluorene	2.80E-06			
	Indeno(1,2,3-cd)pyrene	1.80E-06			
	Phenanathrene	1.70E-05			
	Pyrene	5.00E-06			
	Total	8.82E-05			

Notes

1 All emission factors from AP-42, 7/98, Section 1.4 - Natural Gas Combustion, Tables 1.4-3 and 1.4-4.

2 Hourly values based on maximum hourly fuel capacity of the heater.

3 Annual tpy values based on annual hours of operation.

Pollutant Emission Estimates - Toxic Air Pollutant (TAP) Sulfuric Acid Formation from Combustion Sources

Operational Data

Fuel		
Natural Gas		
Heat Content (HHV)	1050	BTU/SCF
#2 Fuel Oil		
Heat Content	137,000	BTU/GAL
#3 Boiler		
Maximum Heat Input - gas (derated for altitude)	178.5	mmBTU/hr
Maximum Fuel Consumption - gas	173.3	mSCF/hr
Maximum Fuel Consumption - oil	1.3	mGAL/hr
Aux. Boilers (each)		
Maximum Heat Input - gas (derated for altitude)	72.3	mmBTU/hr
Maximum Fuel Consumption - gas	70.2	mSCF/hr
Maximum Heat Input - oil (derated for altitude)	69.4	mmBTU/hr
Maximum Fuel Consumption - oil	0.5	mGAL/hr
Combustion Turbine		
Maximum Fuel Consumption	281.2	mSCF/hr

Notes:

Calculation Method - H_2SO_4 Formation from Combustion - Combustion Turbine, Boilers

1 Calculation method taken from, "An Updated Method for Estimating Total Sulfuric Acid Emissions from Stationary Power Plants", Southern Company Generation and Energy Marketing, March 2003.

Formula used for the boiler calculations is as follows:

$E1 = K*F1*F2*E2$

where:

E1= total H_2SO_4 released from combustion, lbs/hr
K= Molecular weight ratio between H_2SO_4 and SO_2 = 1.153
F1= Fuel Impact Factor (Natural Gas = #2 Fuel Oil = 0.01)
F2= Technology Impact Factor = 1
E2= Sulfur Dioxide emissions, lbs/hr

Assuming sulfuric acid formation from comfort heaters and air preheaters to be negligible.

H_2SO_4 Emissions

		SO_X	H_2SO_4
Aux. Boiler (each) gas	lb/hr	0.152	0.0018
Aux. Boiler (each) oil	lb/hr	3.300	0.0380
		Subtotal	0.0398
#2/#3 Boiler (each) gas	lb/hr	0.382	0.0044
#2/#3 Boiler (each) oil	lb/hr	9.642	0.1112
		Subtotal	0.1156
Combustion Turbine		0.620	0.0072
		Total Sulfuric Acid:	**0.318 lbs/hr**

Stack No.	Unit Nos	Sulfuric acid	Stack Height	Stack Correction Factor	Adjusted Emission Rate	Emission Rate Screening Level	Is modeling required?
		lb/hr	meter		lb/hr	lb/hr	Yes or No
TA3_S1	TA-3-22-2	0.1156	18.29	5	0.02312	0.0667	NO
TA3_S2	TA-3-22-3	0.1156	18.29	5	0.02312	0.0667	NO
TA3_S3	TA-3-22-4	0.0398	21.34	19	0.00209	0.0667	NO
TA3_S4	TA-3-22-5	0.0398	21.34	19	0.00209	0.0667	NO
TA3_CT	TA-3-22-CT-1	0.0072	17.98	5	0.00143	0.0667	NO
		0.318			**0.05185**	**0.0667**	**NO**

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.

Application Summary:

For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase one of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary (AUX) boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5) each rated at a capacity of 72.3 MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG), TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two AUX boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electricity and steam generation.

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a backup fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. The requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V. The low level citation under which this application is being submitted for a significant permit revision is: **20.2.72.219.D NMAC**. The proposed revision is for permit number 2195B-M3R4.

Process Summary

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing standby boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) and the two Auxiliary boiler TA-3-22-4 and TA-3-22-5 (Boiler #4 and #5). Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas to provide steam for the LANL facility. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. We have presented two alternate operating scenarios for the winter heating season that allow operational flexibility. The operating scenario examples for the summer non-heating season are identical. The two requested operating scenarios are below:

Assumptions for Scenario #1:

1. For winter heating season, two AUX boilers (Boiler #4 and #5) are operating full time (approximately 4380 hours each). An older boiler (Boiler #2 or #3) is a standby unit for the heating season.
2. For summer non-heating season (mid-April to mid-October), one AUX boiler (Boiler #4 or #5) operates full time and the other AUX boiler unit operates in standby mode.
3. Combustion turbine (TA-3-22-CT -1) operating at 100% load.

Assumptions for Scenario #2:

1. For winter heating season, either Boiler #2 or #3 operates throughout the season with the other one in standby mode. The two AUX boilers (Boilers #4 and #5) are inoperative during this season.
2. For summer non-heating season (mid-April to mid-October), one AUX boiler (Boiler #4 or #5) is operating full time, and the other AUX unit is operating in standby mode.
3. Combustion turbine (TA-3-22-CT -1) operating at 100% load.

LANL is requesting flexibility to operate the power plant with sufficient monitoring and recordkeeping to verify that emission limits are being met within an overall limit on energy use throughput for the power plant. Two scenarios of power plant operations are presented in Section 15 – Alternative Operating Scenarios and in the Calculations section of UA-2. The TA-3 Power Plant boilers and combustion turbine together will be limited operationally by annual fuel restrictions to ensure no one pollutant exceeds an emission rate greater than 100 tons per year, maintaining the plant's designation as a minor source for PSD permitting purposes.

The facility is seeking flexibility to operate the Combustion Gas Turbine Generator (CGTG) from 80-100% load, Boilers #2 and #3, plus two AUX boilers (Boilers #4 and #5) with one usage limit for natural gas for the combined power plant operations (2,504,582 mSCF/yr based on Scenario #2).

Startup, Shutdown, and Maintenance (SSM)

SSM events do not result in emissions exceeding a current permitted or requested emission limit for the power plant boilers or combustion turbine. Startup and shutdown events are of a short duration and hourly emission limits are not impacted. The combustion turbine startups and shutdowns take approximately 10 minutes each and the unit is at 75%, load within 5 to 6 minutes of startup. The dry low NOx control technology is integral to the unit and functioning during these time periods. There are no shut down emissions associated with the boilers or combustion turbine. Start-up emissions for all the boilers

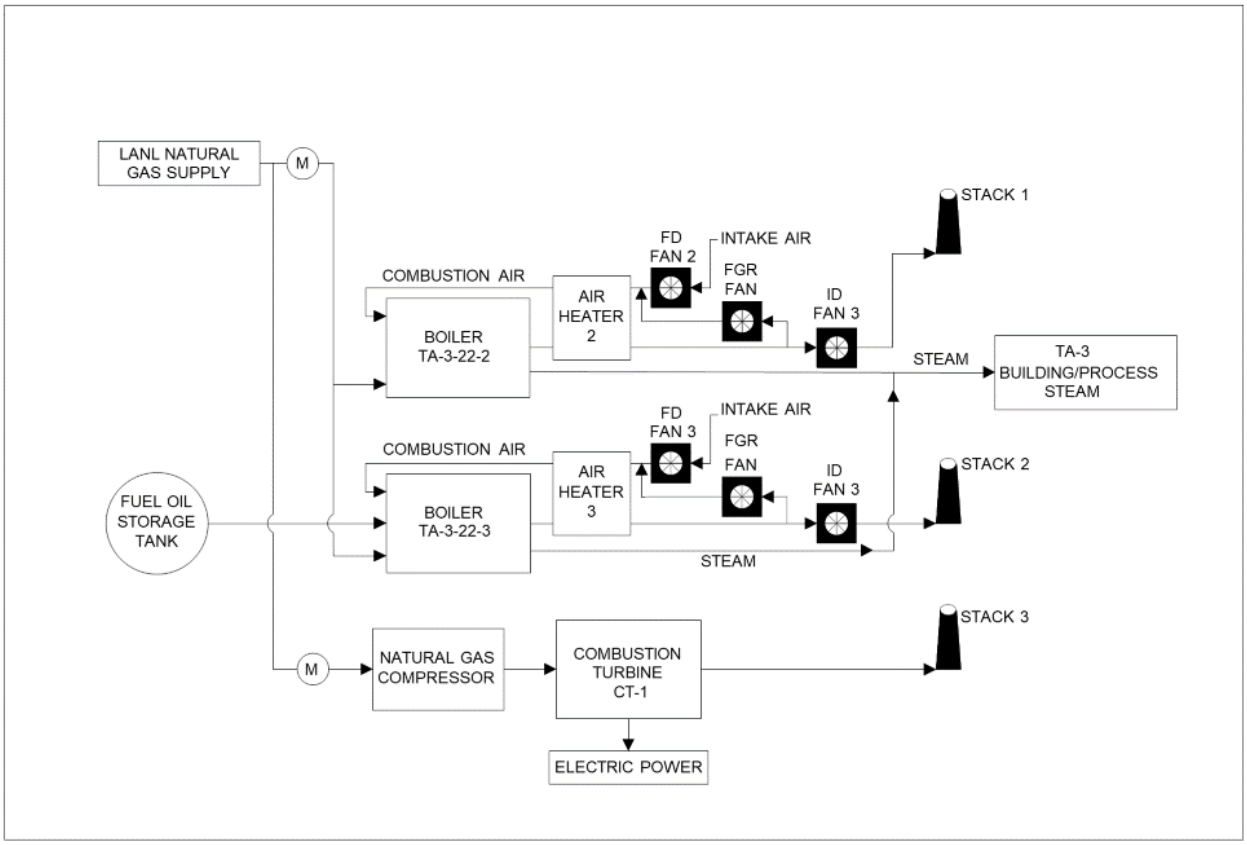
are accounted for in the normal operation emission rates already shown. Maintenance emissions for all the boilers are also accounted for in the normal operation emission rates already shown.

Section 4

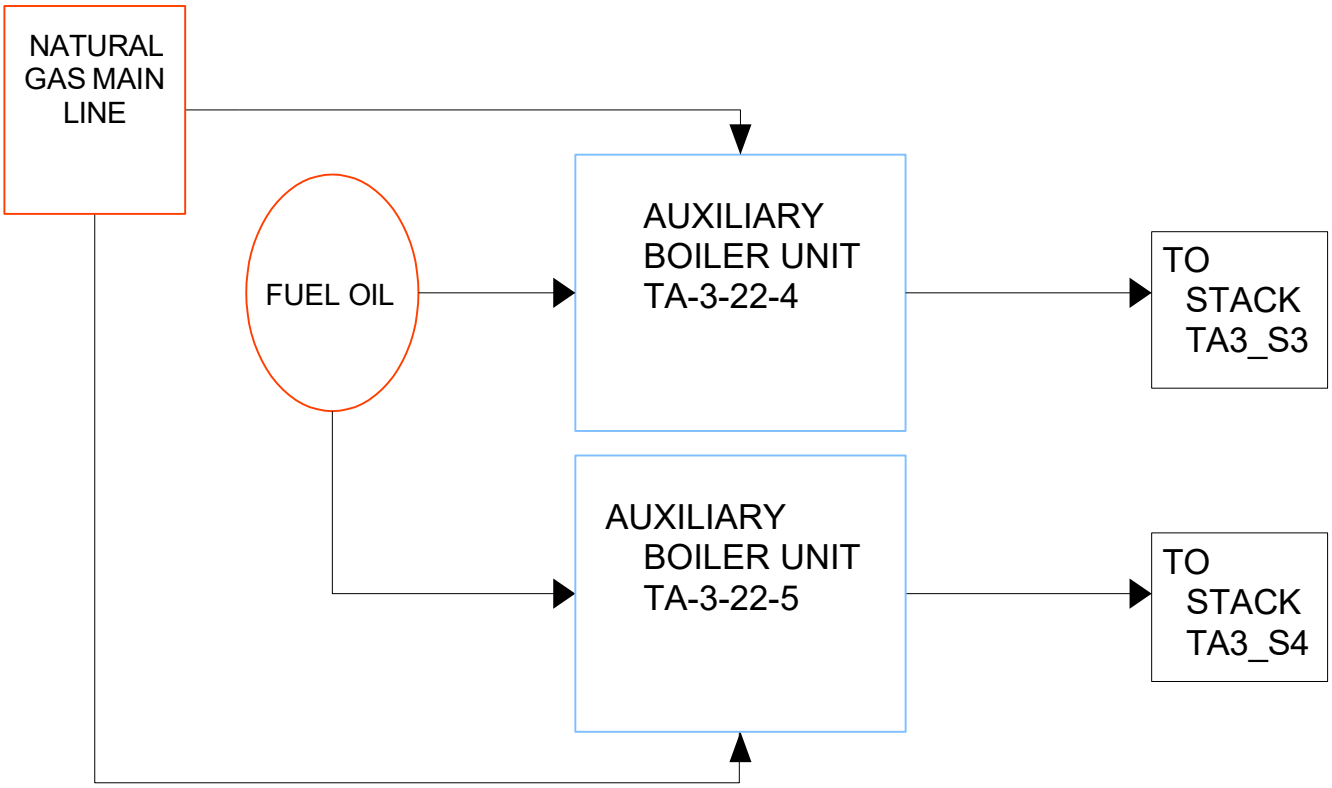
Process Flow Sheet

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.

Process Flowchart for Boilers TA-3-22-2, TA-3-22-3, and the Combustion Turbine – CT-1



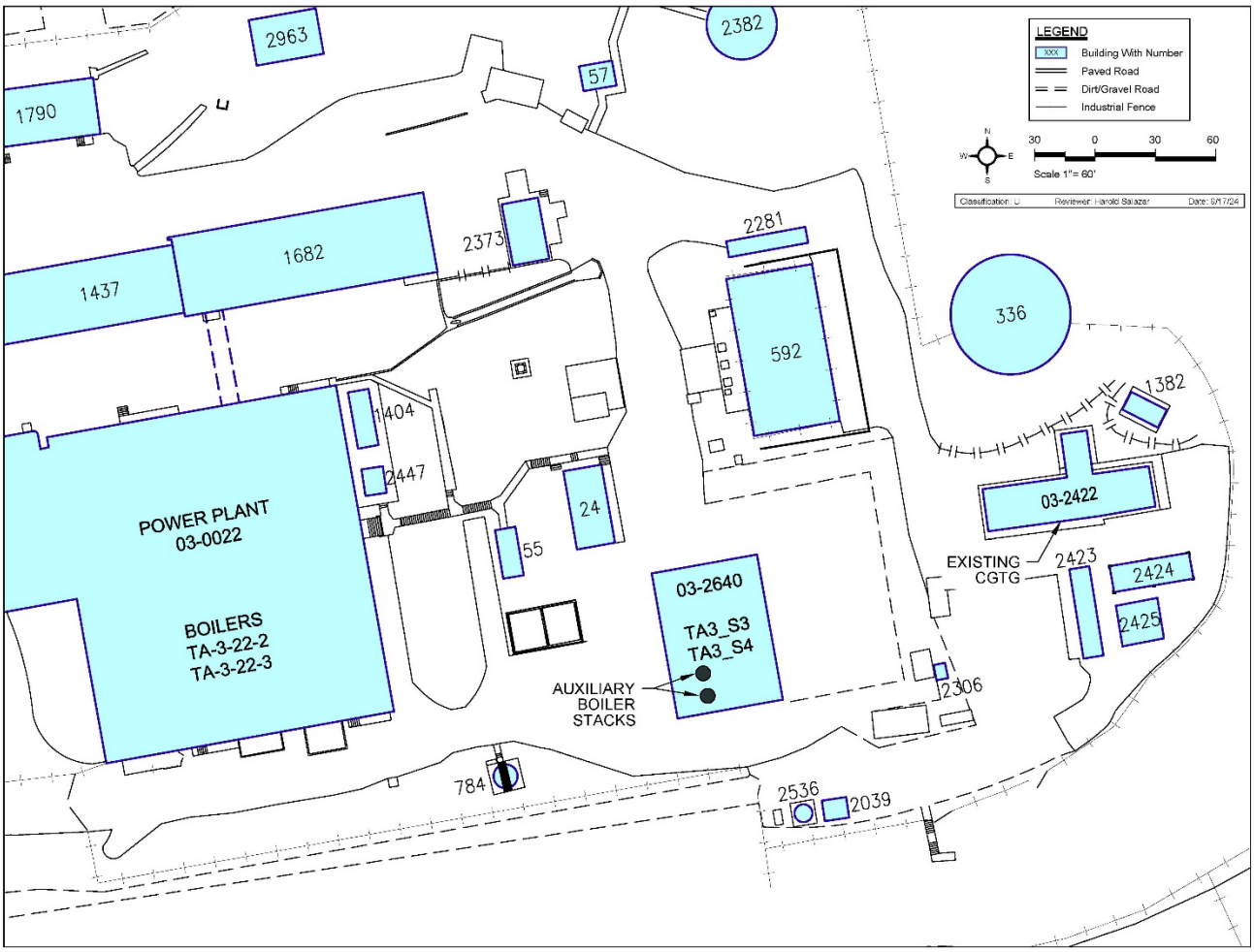
Process Flowchart for Auxiliary Boilers TA-3-22-4 and TA-3-22-5



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.

See Form UA-2 for emission calculations.

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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

Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO_2e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO_2e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO_2e emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
5. All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO2e emissions for each unit in Table 2-P.
6. For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

Sources for Calculating GHG Emissions:

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

Global Warming Potentials (GWP):
Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO_2 over a specified time period.

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

Metric to Short Ton Conversion:
Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.
1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

See Form UA-2 and calculations for more information.

Section 7

Information Used to Determine Emissions

Information Used to Determine Emissions shall include the following:

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

The following information is enclosed:

- The criteria pollutant emission rates provided by Victory Energy for the auxiliary boilers dated April 30, 2020.
- A copy of “An Updated Method for Estimating Total Sulfuric Acid Emissions from Stationary Power Plants”, March 2003, Southern Company Generation and Energy Marketing.
- Selected pages from AP-42 Sections 1.3 Fuel Oil Combustion, 1.4 Natural Gas Combustion, and Section 3.1 Stationary Gas Turbines
- Table A-1 to Subpart A of Part 98—Global Warming Potentials, 100-Year Time Horizon – July 2024

Document Cover Sheet

Victory Energy Operations, LLC
10701 E 126th St. N., Collinsville, OK 74021

Project Name	Los Alamos National Lab
Component	Aux Boiler Package
Specification	US1485-QH-MEC010-2231-01
Purchase Order Number	4500800469
Document Title	Aux Boiler System Performance Data (Warranty)
Document Number (UNID)	515792797
Revision Number	1
Document Date	04-30-2020
Supplier Document Number for PDM	67-14974-14

UNID: 515792797
PDM DWG: 67-14974-14
PDM REV: 1

AUX BOILER PACKAGE SYSTEM GUARANTEES

US1485 - Los Alamos National Laboratory
Victory Energy Operations, LLC
Project 14974

Section 1: Boiler Performance
Auxiliary Boiler Steam Output Guarantees

Natural Gas:

	100%	75%	50%	25%
Steam Total Output (lb/hr/boiler):	61,211	45,908	30,606	15,303
- Steam Net Output (lb/hr/boiler):	50,750	38,063	25,375	12,688
- Steam to Deaerator (lb/hr/boiler):	10,461	7,846	5,231	2,615
Steam Operating Pressure (psig):	128.6	128.6	128.6	128.6
Boiler Efficiency (%):	84.78	84.9	84.91	84

Cold Start Time (amb.):	180 minutes
Standby Start Time (50 psig):	33 minutes
Hot Start Time (>83 psig):	16 minutes
Boiler Turndown:	6:1

Note: 1) For complete boiler predicted performance reference UNID: 515792742
(Victory Dwg: 00-14974-CST-00)
2) For electrical loading reference UNID: 515792834
(Victory Dwg: 67-14974-06)

Section 2: Maximum Emission rates for Natural Gas Burner
Auxiliary Boiler Stack Emissions Limits

CO: 2.70 lb_m/hr
NO_X: 0.80 lb_m/hr
SO_X: 0.20 lb_m/hr
VOC: 0.30 lb_m/hr
PM: 0.50 lb_m/hr

Note: Emission limits above shall be met from 20% firing rate to 100% firing rate (72.3 mmBTU/hr) of the burner.

Section 3: Maximum Emission rates for No. 2 Fuel Oil Burner

Auxiliary Boiler Stack Emissions Limits

CO: 2.70 lb_m/hr
NO_X: 6.20 lb_m/hr (entrained fuel oil nitrogen is less than or equal to 0.0150%)
SO_X: 3.30 lb_m/hr
VOC: 0.10 lb_m/hr
PM: 1.60 lb_m/hr

Note: Emission limits above shall be met from 20% firing rate to 100% firing rate (69.4 mmBTU/hr) of the burner.

Section 4: Boiler Physical Parameters

Auxiliary Boiler Physical Design Limits/Parameters

Sound Level (Equipment): 85 dB(A) max.
Sound Level (Safety Reliefs): 115 dB(A) max.

Section 5: Deaerator Physical Parameters

Auxiliary Deaerator Physical Design Limits/Parameters

Sound Level (Equipment): 85 dB(A) max.
Sound Level (Safety Reliefs): 115 dB(A) max.
Makeup Water: 40°F (Sized for 100% Makeup)
Resultant Oxygen Content: 0.005 cc/L max. (Operating range: 3% to 100% of full load)
Storage Time: 10 minutes

Section 6: Assumed Fuel Data

Auxiliary Boiler Fuel Data (Supplied by End-User)

Natural Gas Data:

	Max.	Min.	Basis
Methane (CH_4)	97.522	90.771	94.27%
Ethane (C_2H_6)	6.443	0.784	3.63%
Propane (C_3H_8)	0.8	0.076	0.33%
i-Butane (C_4H_{10}i)	0.058	0.002	0.018% i
n-Butane (C_4H_{10}n)	0.056	0.002	0.021% n
i-Pentane (C_5H_{12}i)	0.019	0	0.008% i
n-Pentane (C_5H_{12}n)	0.015	0	0.006% n
Hexane (C_6H_{14})	0.019	0	0.01%
Nitrogen (N_2)	1.89	0.057	0.24%
Carbon Monoxide (CO)	1.78	0.035	1.48%
Supply pressure: 86 psig	86 psig	22 psig	CL150 design

No. 2 Fuel Oil Data:

Carbon Residue max wt% (on 10% Resid):	0.30
Ash Content max wt%:	0.01
Water and Sediment max lv%:	0.05
Maximum Relative Density:	0.876
Sulfur wt% max:	0.047
Fuel-bound Nitrogen content max wt%:	0.015
Viscosity @104°F :	1.9-3.4

TABLE 1.4-2. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM NATURAL GAS COMBUSTION[a]

Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
CO_2[b]	120,000	A
Lead	0.0005	D
N_2O (Uncontrolled)	2.2	E
N_2O (Controlled-low-NO_x burner)	0.64	E
PM (Total)[c]	7.6	D
PM (Condensable)[c]	5.7	D
PM (Filterable)[c]	1.9	B
SO_2[d]	0.6	A
TOC	11	B
Methane	2.3	B
VOC	5.5	C

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from $lb/10^6$ scf to $kg/10^6$ m^3, multiply by 16. To convert from $lb/10^6$ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.

[b] Based on approximately 100% conversion of fuel carbon to CO_2. $CO_2[lb/10^6 scf] = (3.67)(CON)(C)(D)$, where CON = fractional conversion of fuel carbon to CO_2, C = carbon content of fuel by weight (0.76), and D = density of fuel, 4.2×10^4 $lb/10^6$ scf.

[c] All PM (total, condensible, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM_{10}, $PM_{2.5}$ or PM_1 emissions. Total PM is the sum of the filterable PM and condensible PM. Condensible PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.

[d] Based on 100% conversion of fuel sulfur to SO_2. Assumes sulfur content is natural gas of 2,000 grains/10^6 scf. The SO_2 emission factor in this table can be converted to other natural gas sulfur contents by multiplying the SO_2 emission factor by the ratio of the site-specific sulfur content (grains/10^6 scf) to 2,000 grains/10^6 scf.

Table 1.3-1. CRITERIA POLLUTANT EMISSION FACTORS FOR FUEL OIL COMBUSTION[a]

Firing Configuration (SCC)[a]	SO_2[b]		SO_3[c]		NO_x[d]		CO[e]		Filterable PM[f]	
	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING
Boilers > 100 Million Btu/hr										
No. 6 oil fired, normal firing (1-01-004-01), (1-02-004-01), (1-03-004-01)	157S	A	5.7S	C	47	A	5	A	9.19(S)+3.22	A
No. 6 oil fired, normal firing, low NO_x burner (1-01-004-01), (1-02-004-01)	157S	A	5.7S	C	40	B	5	A	9.19(S)+3.22	A
No. 6 oil fired, tangential firing, (1-01-004-04)	157S	A	5.7S	C	32	A	5	A	9.19(S)+3.22	A
No. 6 oil fired, tangential firing, low NO_x burner (1-01-004-04)	157S	A	5.7S	C	26	E	5	A	9.19(S)+3.22	A
No. 5 oil fired, normal firing (1-01-004-05), (1-02-004-04)	157S	A	5.7S	C	47	B	5	A	10	B
No. 5 oil fired, tangential firing (1-01-004-06)	157S	A	5.7S	C	32	B	5	A	10	B
No. 4 oil fired, normal firing (1-01-005-04), (1-02-005-04)	150S	A	5.7S	C	47	B	5	A	7	B
No. 4 oil fired, tangential firing (1-01-005-05)	150S	A	5.7S	C	32	B	5	A	7	B
No. 2 oil fired (1-01-005-01), (1-02-005-01), (1-03-005-01)	142S[h]	A	5.7S	C	24	D	5	A	2	A
No.2 oil fired, LNB/FGR, (1-01-005-01), (1-02-005-01), (1-03-005-01)	142S[h]	A	5.7S	A	10	D	5	A	2	A

TABLE 1.4-3. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM NATURAL GAS COMBUSTION[a]

CAS No.	Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
91-57-6	2-Methylnaphthalene[b, c]	2.4E-05	D
56-49-5	3-Methylchloranthrene[b, c]	<1.8E-06	E
	7,12-Dimethylbenz(a)anthracene[b,c]	<1.6E-05	E
83-32-9	Acenaphthene[b,c]	<1.8E-06	E
203-96-8	Acenaphthylene[b,c]	<1.8E-06	E
120-12-7	Anthracene[b,c]	<2.4E-06	E
56-55-3	Benz(a)anthracene[b,c]	<1.8E-06	E
71-43-2	Benzene[b]	2.1E-03	B
50-32-8	Benzo(a)pyrene[b,c]	<1.2E-06	E
205-99-2	Benzo(b)fluoranthene[b,c]	<1.8E-06	E
191-24-2	Benzo(g,h,i)perylene[b,c]	<1.2E-06	E
205-82-3	Benzo(k)fluoranthene[b,c]	<1.8E-06	E
106-97-8	Butane	2.1E+00	E
218-01-9	Chrysene[b,c]	<1.8E-06	E
53-70-3	Dibenzo(a,h)anthracene[b,c]	<1.2E-06	E
25321-22-6	Dichlorobenzene[b]	1.2E-03	E
74-84-0	Ethane	3.1E+00	E
206-44-0	Fluoranthene[b,c]	3.0E-06	E
86-73-7	Fluorene[b,c]	2.8E-06	E
50-00-0	Formaldehyde[b]	7.5E-02	B
110-54-3	Hexane[b]	1.8E+00	E
193-39-5	Indeno(1,2,3-cd)pyrene[b,c]	<1.8E-06	E
91-20-3	Naphthalene[b]	6.1E-04	E
109-66-0	Pentane	2.6E+00	E
85-01-8	Phenanathrene[b,c]	1.7E-05	D

TABLE 1.4-3. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM NATURAL GAS COMBUSTION (Continued)

CAS No.	Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
74-98-6	Propane	1.6E+00	E
129-00-0	Pyrene[b, c]	5.0E-06	E
108-88-3	Toluene[b]	3.4E-03	C

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from $lb/10^6$ scf to $kg/10^6$ m^3, multiply by 16. To convert from $1b/10^6$ scf to lb/MMBtu, divide by 1,020. Emission Factors preceeded with a less-than symbol are based on method detection limits.

[b] Hazardous Air Pollutant (HAP) as defined by Section 112(b) of the Clean Air Act.

[c] HAP because it is Polycyclic Organic Matter (POM). POM is a HAP as defined by Section 112(b) of the Clean Air Act.

[d] The sum of individual organic compounds may exceed the VOC and TOC emission factors due to differences in test methods and the availability of test data for each pollutant.

TABLE 1.4-4. EMISSION FACTORS FOR METALS FROM NATURAL GAS COMBUSTION[a]

CAS No.	Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
7440-38-2	Arsenic[b]	2.0E-04	E
7440-39-3	Barium	4.4E-03	D
7440-41-7	Beryllium[b]	<1.2E-05	E
7440-43-9	Cadmium[b]	1.1E-03	D
7440-47-3	Chromium[b]	1.4E-03	D
7440-48-4	Cobalt[b]	8.4E-05	D
7440-50-8	Copper	8.5E-04	C
7439-96-5	Manganese[b]	3.8E-04	D
7439-97-6	Mercury[b]	2.6E-04	D
7439-98-7	Molybdenum	1.1E-03	D
7440-02-0	Nickel[b]	2.1E-03	C
7782-49-2	Selenium[b]	<2.4E-05	E
7440-62-2	Vanadium	2.3E-03	D
7440-66-6	Zinc	2.9E-02	E

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. Emission factors preceeded by a less-than symbol are based on method detection limits. To convert from $lb/10^6$ scf to $kg/10^6$ m^3, multiply by 16. To convert from $lb/10^6$ scf to lb/MMBtu, divide by 1,020.

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

Table 1.3-8. EMISSION FACTORS FOR NITROUS OXIDE (N_2O), POLYCYCLIC ORGANIC MATTER (POM), AND FORMALDEHYDE (HCOH) FROM FUEL OIL COMBUSTION[a]

EMISSION FACTOR RATING: E

Firing Configuration (SCC)	Emission Factor ($lb/10^3$ gal)		
	N_2O[b]	POM[c]	HCOH[c]
Utility/industrial/commercial boilers			
No. 6 oil fired (1-01-004-01, 1-02-004-01, 1-03-004-01)	0.53	0.0011 - 0.0013[d]	0.024 - 0.061
Distillate oil fired (1-01-005-01, 1-02-005-01, 1-03-005-01)	0.26	0.0033[e]	0.035 - 0.061
Residential furnaces (A2104004/A2104011)	0.05	ND	ND

[a] To convert from $lb/10^3$ gal to $kg/10^3$ L, multiply by 0.12. SCC = Source Classification Code. ND = no data.
[b] References 45-46. EMISSION FACTOR RATING = B.
[c] References 29-32.
[d] Particulate and gaseous POM.
[e] Particulate POM only.

Table 1.3-10. EMISSION FACTORS FOR TRACE ELEMENTS FROM DISTILLATE FUEL OIL COMBUSTION SOURCES[a]

EMISSION FACTOR RATING: E

Firing Configuration (SCC)	Emission Factor ($lb/10^{12}$ Btu)										
	As	Be	Cd	Cr	Cu	Pb	Hg	Mn	Ni	Se	Zn
Distillate oil fired (1-01-005-01, 1-02-005-01, 1-03-005-01)	4	3	3	3	6	9	3	6	3	15	4

[a] Data are for distillate oil fired boilers, SCC codes 1-01-005-01, 1-02-005-01, and 1-03-005-01. References 29-32, 40-44 and 83. To convert from $lb/10^{12}$ Btu to pg/J, multiply by 0.43.

Table 3.1-2a. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM STATIONARY GAS TURBINES

Emission Factors[a] - Uncontrolled				
Pollutant	Natural Gas-Fired Turbines[b]		Distillate Oil-Fired Turbines[d]	
	(lb/MMBtu)[c] (Fuel Input)	Emission Factor Rating	(lb/MMBtu)[e] (Fuel Input)	Emission Factor Rating
CO_2[f]	110	A	157	A
N_2O	0.003[g]	E	ND	NA
Lead	ND	NA	1.4 E-05	C
SO_2	0.94S[h]	B	1.01S[h]	B
Methane	8.6 E-03	C	ND	NA
VOC	2.1 E-03	D	4.1 E-04[j]	E
TOC[k]	1.1 E-02	B	4.0 E-03[l]	C
PM (condensible)	4.7 E-03[l]	C	7.2 E-03[l]	C
PM (filterable)	1.9 E-03[l]	C	4.3 E-03[l]	C
PM (total)	6.6 E-03[l]	C	1.2 E-02[l]	C

[a] Factors are derived from units operating at high loads (≥ 80 percent load) only. For information on units operating at other loads, consult the background report for this chapter (Reference 16), available at "www.epa.gov/ttn/chief". ND = No Data, NA = Not Applicable.

[b] SCCs for natural gas-fired turbines include 2-01-002-01, 2-02-002-01 & 03, and 2-03-002-02 & 03.

[c] Emission factors based on an average natural gas heating value (HHV) of 1020 Btu/scf at 60°F. To convert from (lb/MMBtu) to ($lb/10^6$ scf), multiply by 1020. Similarly, these emission factors can be converted to other natural gas heating values.

[d] SCCs for distillate oil-fired turbines are 2-01-001-01, 2-02-001-01, 2-02-001-03, and 2-03-001-02.

[e] Emission factors based on an average distillate oil heating value of 139 $MMBtu/10^3$ gallons. To convert from (lb/MMBtu) to ($lb/10^3$ gallons), multiply by 139.

[f] Based on 99.5% conversion of fuel carbon to CO_2 for natural gas and 99% conversion of fuel carbon to CO_2 for distillate oil. CO_2 (Natural Gas) [lb/MMBtu] = (0.0036 scf/Btu)(%CON)(C)(D), where %CON = weight percent conversion of fuel carbon to CO_2, C = carbon content of fuel by weight, and D = density of fuel. For natural gas, C is assumed at 75%, and D is assumed at 4.1 E+04 $lb/10^6$scf. For distillate oil, CO_2 (Distillate Oil) [lb/MMBtu] = (26.4 gal/MMBtu) (%CON)(C)(D), where C is assumed at 87%, and the D is assumed at 6.9 lb/gallon.

[g] Emission factor is carried over from the previous revision to AP-42 (Supplement B, October 1996) and is based on limited source tests on a single turbine with water-steam injection (Reference 5).

[h] All sulfur in the fuel is assumed to be converted to SO_2. S = percent sulfur in fuel. Example, if sulfur content in the fuel is 3.4 percent, then S = 3.4. If S is not available, use 3.4 E-03 lb/MMBtu for natural gas turbines, and 3.3 E-02 lb/MMBtu for distillate oil turbines (the equations are more accurate).

[j] VOC emissions are assumed equal to the sum of organic emissions.

[k] Pollutant referenced as THC in the gathered emission tests. It is assumed as TOC, because it is based on EPA Test Method 25A.

[l] Emission factors are based on combustion turbines using water-steam injection.

Table 3.1-3. EMISSION FACTORS FOR HAZARDOUS AIR POLLUTANTS FROM NATURAL GAS-FIRED STATIONARY GAS TURBINES[a]

Emission Factors[b] - Uncontrolled		
Pollutant	Emission Factor (lb/MMBtu)[c]	Emission Factor Rating
1,3-Butadiene[d]	< 4.3 E-07	D
Acetaldehyde	4.0 E-05	C
Acrolein	6.4 E-06	C
Benzene[e]	1.2 E-05	A
Ethylbenzene	3.2 E-05	C
Formaldehyde[f]	7.1 E-04	A
Naphthalene	1.3 E-06	C
PAH	2.2 E-06	C
Propylene Oxide[d]	< 2.9 E-05	D
Toluene	1.3 E-04	C
Xylenes	6.4 E-05	C

[a] SCC for natural gas-fired turbines include 2-01-002-01, 2-02-002-01, 2-02-002-03, 2-03-002-02, and 2-03-002-03. Hazardous Air Pollutants as defined in Section 112 (b) of the *Clean Air Act*.

[b] Factors are derived from units operating at high loads (> 80 percent load) only. For information on units operating at other loads, consult the background report for this chapter (Reference 16), available at "www.epa.gov/ttn/chief".

[c] Emission factors based on an average natural gas heating value (HHV) of 1020 Btu/scf at 60°F. To convert from (lb/MMBtu) to ($lb/10^6$ scf), multiply by 1020. These emission factors can be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this heating value.

[d] Compound was not detected. The presented emission value is based on one-half of the detection limit.

[e] Benzene with SCONOX catalyst is 9.1 E-07, rating of D.

[f] Formaldehyde with SCONOX catalyst is 2.0 E-05, rating of D.

TABLE A–1 TO SUBPART A OF PART 98—GLOBAL WARMING POTENTIALS

[100-Year Time Horizon]

Name	CAS No.	Chemical formula	Global warming potential (100 yr.)
Chemical-Specific GWPs			
Carbon dioxide	124–38–9	CO_2	1
Methane	74–82–8	CH_4	[a] 25
Nitrous oxide	10024–97–2	N_2O	[a] 298

An Updated Method for Estimating Total Sulfuric Acid Emissions from Stationary Power Plants

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Executive Summary

This paper presents the latest update to the Southern Company method of estimating both the *manufacturing* threshold value and *release* of sulfuric acid (H_2SO_4) from stationary utility sources. The U. S. Environmental Protection Agency's Toxic Release Inventory (TRI) reporting system requires that, beginning in 1998, electric utilities estimate their emissions of over 600 chemical compounds. Sulfuric acid is one of the compounds included in the TRI requirement. EPA defines sulfuric acid aerosols as "includ[ing] mists, vapors, gas, fog, and other airborne forms of any particle size." Since the original method was limited in scope to pulverized fuel boilers, but the reporting requirement covers all of the fossil-fired generating sites, the original method has been expanded to include other firing methods of coal, cyclone boilers in particular, oil- and gas-fired boilers and turbines, and pollution control equipment effects on sulfuric acid manufacture and release. The most notable of the pollution control equipment effects are the manufacture of sulfuric acid by selective catalytic reduction processes installed for NOx emissions control and the manufacture from flue gas conditioning systems used to assist electrostatic precipitators. A necessary part of this analysis involves the interaction between ammonia and the sulfuric acid vapor present.

The mathematical scheme to produce the results in the present method is to calculate the combustion manufacture and release estimates, then to repeat the calculation for any SCR or flue gas conditioning systems in use. This 3-step approach is then repeated for each fuel utilized at the site for the year. After the series of calculations are performed, the manufacture and release estimates are summed to yield the final values.

This update to the method (Harrison, March 2003) considers scenarios where units equipped with scrubbers operate in some degree of bypass mode. Optional equations to calculate the release of sulfuric acid have been provided for use where applicable. Other previous updates include the addition of a factor representing the SCR catalyst SO_2 oxidation rate to the equation calculating the sulfuric acid manufactured in the SCR. This results in a more accurate representation, since earlier versions tied the sulfuric acid manufactured in the SCR to that manufactured in combustion. While the previous assumption proved sufficient for units burning Eastern Bituminous compliance coals, the revised method proves more robust when applied to a wider variety of coals and SCR catalysts designs. This revision also includes a correction to account for additional sulfuric acid capture in downstream equipment where FGC is used. This correction will result in a reduction in the estimate of sulfuric acid released for applications only where scrubbers and/or baghouses are installed downstream of FGC systems.

As with all generalized estimating procedures, this approach and the various suggested factors may not be appropriate for every installation. When data are present, they should obviously be used along with any known factors used in place of the generalized numbers presented here. Any data that either confirm or contradict the predictions of this method are desired by the author, in order to increase the accuracy of the predictions. Southern Company offers this method as a guideline and expressly offers no warranty for the method and consequently does not assume any responsibility or liability resulting from the use of this procedure.

Introduction

Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA), also known as the Toxic Release Inventory (TRI), requires facilities that "manufacture," "process," or "otherwise use" a listed chemical above certain threshold amounts to report their annual releases of the chemical to EPA and state agencies. For sulfuric acid in general, the TRI reporting requirements are triggered if a facility "manufactures" or "processes" more than 25,000 pounds of this chemical or "otherwise uses" more than 10,000 pounds of it in a given calendar year.

Sulfuric acid is a listed TRI chemical. In June 1995, the U. S. Environmental Protection Agency (EPA) modified the list of chemicals subject to the EPCRA § 313 reporting requirements so that only aerosol forms of sulfuric acid would be subject to the TRI reporting requirements [1]. EPA defines sulfuric acid aerosols as "includ[ing] mists, vapors, gas, fog, and other airborne forms of any particle size." Although initially it appeared that only liquid droplets of sulfuric acid needed to be reported, the present method estimates the sulfuric acid emissions regardless of the physical state of the molecules.

Beginning on July 1, 1999, certain coal- and oil-fired electric power plants are required to report annual releases of TRI chemicals that they manufacture, process or otherwise use above threshold amounts. Under EPA's EPCRA § 313 regulations, coal- and oil-fired electric utilities are deemed to "manufacture" sulfuric acid. Thus, electric utilities will have to submit TRI reports on sulfuric acid releases if they "manufacture" more than 25,000 pounds of the chemical in a given reporting year [2]. Previously, Southern Company had published two papers, detailing a predictive method for estimating sulfuric acid manufacture and emissions from coal-fired power plants [3,4].

In coal-fired power plants, sulfuric acid (H_2SO_4) is created in the ductwork downstream of the boiler by the combination of water vapor and sulfur trioxide (SO_3), both of which are produced during the coal combustion process. Furthermore, the use of NOx reduction processes, namely selective catalytic reduction (SCR) and selective non-catalytic reduction (SNCR), affect the manufacture and release of sulfuric acid. SCR systems utilize a vanadium-based catalyst to affect the destruction of NOx, in which an unfortunate side reaction increases the amount of SO_2 that is converted to SO_3. Obviously, this increase will lead to a reportable increase in the amount of H_2SO_4 manufactured and a likely increase in the amount released. SCR and SNCR systems both utilize ammonia to achieve NOx reductions. Ammonia, being a chemical base, is quite reactive with the acidic SO_3 and H_2SO_4 molecules, producing a solid at typical stack conditions. Therefore, any ammonia escaping these NOx reduction processes, usually referred to as ammonia slip, has the potential to react with sulfuric acid or its precursor, thus reducing the release.

Coal-fired power plants also occasionally use a system to modify the fly ash to increase the ability of an electrostatic precipitator (ESP) to collect the ash. These systems are generally one of three types: sulfur trioxide (SO_3) addition to decrease resistivity of fly ash, SO_3 and ammonia (NH_3) addition to both decrease resistivity and increase ash cohesivity, and ammonia addition to either decrease resistivity by reacting with native SO_3 or to decrease overall SO_3 emissions. Any SO_3 injected is typically manufactured on site and will add to the TRI manufactured thresholds. Additionally, any excess SO_3 will travel through the process, with some fraction emitted from the stack, increasing the release. The use of ammonia for flue gas conditioning will have the same consequences as discussed above for NOx reduction processes, lowering the actual emissions of

sulfuric acid. The method presented in this paper is intended to accurately estimate these process additions to the manufacture and release of sulfuric acid. While ammonia is a chemical that is required to be reported under TRI, this method does not attempt to estimate those releases.

The updated method presented here also increases the scope of the predictions to include cyclone-fired boilers and the use of fuel oil, petroleum coke, and natural gas in boilers, combustion turbines, and combined cycle plants. Therefore, the present method attempts to address the needs to estimate sulfuric acid manufacture and emissions from any stationary utility source.

In the paper, the prediction method is presented along with discussions of key assumptions that have been made. First the combustion process is discussed, followed by the effects of ammonia-based NOx controls, and then the effects of flue gas conditioning on manufacture and release of sulfuric acid. The proposed method for dealing with multiple fuel situations is described next. Finally, a series of example calculations is presented.

MANUFACTURE AND RELEASE FROM COMBUSTION

The method is only slightly changed from the last update [4], and details of the supporting information for the calculations can be found there. The method is exactly the same -- the amount of sulfuric acid manufactured is computed from either the coal data (amount burned and sulfur content) or the amount of SO_2 released according to the CEM data. Units having controls for SO_2 emissions **must** use the coal data approach, or at least CEM data ahead of the scrubber. The previous paper [4] included a method to correct the CEM data for non-ideal stack flow conditions; that calculation would apply but is not repeated here.

Sulfuric Acid Manufactured from Combustion

The following relationship is proposed to estimate the H_2SO_4 *manufactured* from combustion in utility sources:

$$E1 = K \bullet F1 \bullet E2$$

where, E1 = total H_2SO_4 *manufactured* from combustion, lbs/yr
K = Molecular weight and units conversion constant = 98.07 / 64.04 • 2000 = 3,063
98.07 = Molecular weight of H_2SO_4; 64.04 = Molecular weight of SO_2
Conversion from tons per year to pounds per year – multiply by 2000.
F1 = Fuel Impact Factor
E2 = Sulfur dioxide (SO_2) emissions either: (1) recorded by a continuous emissions monitor, tons/yr, or (2) calculated from coal burn data, tons/yr.

In the derivation of this relationship, the following assumptions are made:

- SO_3 concentrations are proportional to SO_2 concentrations.
- The grade of coal being burned impacts the rate of conversion from SO_2 to SO_3.
- All SO_3 that forms is converted to H_2SO_4.
- The rate of SO_3 formation is independent of the boiler firing rate (unit load).

Fuel Impact Factor (F1)

The proposed values for the Fuel Impact Factor (F1) are provided in Table 1. In proposing these factors, corroborating and/or conflicting information regarding the Fuel Impact Factor for these and other fuels and/or firing conditions are sought. The values have been expanded from dry bottom wall-fired and tangentially-fired boilers to include cyclone boilers, which are known to produce higher levels of H_2SO_4, probably because of higher temperatures and more fine fly ash to catalyze the reaction. Thus, cyclones have higher Fuel Impact Factors. The table also clarifies some earlier confusion over bituminous and subbituminous Western coals. As can be seen, the F1 factors now also include natural gas, fuel oil, and petroleum coke in selected firing systems.

Table 1
F1 --- Fuel Factor Listing

Fuel	Equipment	F1
E. Bituminous	PC Boiler	0.008
W. Bituminous	PC Boiler	0.00111
Subbituminous	PC Boiler	0.000556
Lignite	PC Boiler	0.001
E. Bituminous	Cyclone	0.016
W. Bituminous	Cyclone	0.00222
Subbituminous	Cyclone	0.00112
Lignite	Cyclone	0.00112
Petroleum Coke	Boiler	0.04
Natural Gas	Boiler	0.01
#2 Fuel Oil	Boiler	0.01
#6 Fuel Oil	Boiler	0.025
Used Oil	Boiler	0.0175
Natural Gas	CT	See Table 2
#2 Fuel Oil	CT	See Table 2
Natural Gas	CC	0.0555
Other Alternative Fuels	Any	0.04
Other Alternative Fuels, cofired with coal, >75% coal by heat input	NA	Use same F1 as the coal F1

SO_2 Total from Combustion

The mass rate of SO_2 produced by combustion can also be calculated from the coal burn data [5]. The following relationship is used to estimate the rate of SO_2 emissions:

$$E2 = K1 \bullet K2 \bullet C1 \bullet S1$$

where, E2 = SO_2 mass rate, tons/yr
C1 = Coal burn, tons/yr
S1 = Coal sulfur weighted average, %
K1 = Molecular weight and units conversion constant = (64.04)/(100 • 32.06) = 0.02
64.04 = molecular weight of SO_2; 32.06 = molecular weight of S;
100 = conversion of % S to fraction
K2 = Sulfur conversion to SO_2, implicit from EPA AP-42 [5]
= 0.95 for bituminous coals
= 0.875 for subbituminous coals
= 0.55 to 0.85 for lignite, based on the Na content
= 1.0 for oil

When any source uses a system to control SO_2 emissions, the fuel basis **must** be used for the manufacturing and release calculations. **CEM data after a flue gas desulfurization system cannot be used.**

Simple cycle combustion turbines (CT) exhaust at elevated temperatures, usually around 1000°F. The chemistry of SO_3 and water to make sulfuric acid vapor is temperature dependent, that is, the amount of sulfuric acid molecules that are formed is related to the temperature of the exhaust. The TRI reporting rules require the reporting of sulfuric acid and not of its precursor, SO_3. Therefore, the amount of manufactured and released sulfuric acid for a CT is dependent upon its stack temperature. Table 2 combines the temperature-based SO_3 to H_2SO_4 conversion with the SO_2 to SO_3 conversion to give the Fuel Impact Factor, F1.

Table 2 F1 --- Fuel Factors for Simple CT	
Stack T, °F	F1
300	0.055
400	0.055
500	0.047
600	0.022
700	0.0055
750	0.0027
800	0.0013
850	0.00071
900	0.00039
950	0.00022
1000	0.00013
1050	0.00008
1100	0.00005
1150	0.00003
1200	0.00002

Sulfuric Acid Released from Combustion

When the estimate of total H_2SO_4 *manufactured* by a facility exceeds 25,000 pounds per year, the facility is required to estimate how much of this H_2SO_4 is *released* in airborne form to the atmosphere. This amount, then, is the reportable quantity.

The following relationship is proposed to predict the quantity of H_2SO_4 *released* from the combustion-related sulfuric acid:

$$E1'_{comb} = K \bullet F1 \bullet F2 \bullet E2$$

where, $E1'_{comb}$ = total H_2SO_4 *released* from combustion, lbs/yr

K = Molecular weight and units conversion constant = 98.07 / 64.04 • 2000 = 3,063
98.07 = Molecular weight of H_2SO_4; 64.04 = Molecular weight of SO_2
Conversion from tons per year to pounds per year – multiply by 2000.

F1 = Fuel Impact Factor

E2= Sulfur dioxide (SO_2) emissions either: (1) recorded by a continuous emissions monitor, tons/yr, or (2) calculated from coal burn data, tons/yr.

F2 = Technology Impact Factor

Table 3 F2 --- Technology Impact Factors	
Pollution Control Device	F2
Air preheater – Eastern bituminous coals	0.50
Air preheater – West. bit., subbit., & lignite	0.90
Air Preheater – other fuels	0.50
Hot-side electrostatic precipitator	1.00
Cold-side electrostatic precipitator	0.50
Baghouse	0.10
Wet scrubber	0.50
Spray dryer & baghouse	0.01
Mag-ox mixed with fuel oil	0.50
Mag-ox sprayed into furnace	0.25

F2 factors for the use of magnesium-based additives in oil-fired boilers have been proposed. These additives are used to control furnace slagging caused by the vanadium in the oil or to control sulfuric acid emissions or both. The fuel oil vanadium can also catalyze SO_2 to SO_3 oxidation, but the additive, when added to the oil, tends to effectively bind up the vanadium, partially reducing its catalytic effect. Addition of magnesium-based additives in the fuel oil tend to be less effective in controlling the emissions of sulfuric acid than the same additive sprayed into the furnace downstream of the flame zone.

Optional Scrubber Bypass Calculation. Those units equipped scrubbers where some of the flue gas bypasses the scrubber should take this into account in their combustion release calculations. No credit for sulfuric acid removal should be taken for the fraction of the flue gas that bypasses the scrubber. Therefore, this amount of the flue gas should not be multiplied by the F2 factor for the scrubber. However, it should still be multiplied by the F2 factors for the other control devices.

A modified equation considering partial scrubber bypass is given below and should be used where appropriate.

$$E1'_{comb} = [SB_f + (1 - SB_f) \bullet F2_s] \bullet K \bullet F1 \bullet E2 \bullet F2_x$$

where, SB_f = fraction of scrubber bypass, as a decimal
$F2_s$ = F2 for scrubber
$F2_x$ = All other applicable F2's except for scrubber.

MANUFACTURE AND RELEASE FROM SCR AND SNCR PROCESSES

As regulations require lower emissions of NOx from power plant sources, additional equipment to control these emissions will be added to some power plants. The most effective NOx control technology at present is the selective catalytic reduction (SCR) process. An SCR consists of a series of catalyst layers in the flue gas flow which uses ammonia to chemically convert NOx

species to harmless molecular nitrogen, N_2. There are two main effects of this technology on sulfuric acid manufacture and release. The typical catalyst used for NOx reduction is based on the transition metal vanadium, V. An unfortunate side effect of the use of this element is the further oxidation of SO_2 to SO_3 through the catalyst layers. Conversions between 0.75 and 1% of the SO_2 to SO_3 are typical for low-to-medium sulfur coal-fired SCR applications. However, higher values of conversion have been specified in some cases. Therefore, the first implication of the use of an SCR system on a coal-fired plant is an increased manufacture of SO_3 and subsequently sulfuric acid.

The second effect of the use of SCR systems on sulfuric acid emissions is the possibility of reactions between the ammonia used for NOx reduction and the SO_3 and/or sulfuric acid in the flue gas. Small concentrations of ammonia and SO_3, at parts per million levels, can react at temperatures from 650°F to ambient. The reaction of interest is between the small amount of ammonia that escapes the catalytic chamber (ammonia slip) and the sulfuric acid or SO_3 in the bulk of the flue gas. Ammonia slip from SCR systems is expected to range between 0 and 2 ppm, with 10 ppm possible under some circumstances. The reactions between ammonia and SO_3/H_2SO_4 will occur in the temperature regime of the air preheater and will result in a solid product that will deposit in the preheater or accumulate on the surface of the fly ash. Any SO_3/H_2SO_4 that participates in these reactions is effectively neutralized and is no longer chemically sulfuric acid, and is not required to be reported as a release of sulfuric acid. (Under some circumstances, this solid product may require reporting under TRI as an ammonia release, but that subject is not explored in this paper.)

A second, but less utilized NOx reduction process with implications on this method is the selective non-catalytic reduction (SNCR) process where the reagent, ammonia or urea, is injected into the convective sections of a boiler. Other similar technologies also employ ammonia or urea injection in regions of the boiler for NOx reduction. However, the reaction chemistry is the same; therefore, no distinction is made in the following discussion. The higher temperature of the injection location (1800 to 2000°F, as compared to 700°F for SCR) allows the reagent to react directly with the NOx, and a catalyst is not necessary. Since a catalyst is not employed, there is no additional manufacture of sulfuric acid. However, reduction of the amount of sulfuric acid released may also be accomplished through reactions with the remaining ammonia. Typically, SNCR systems operate with higher levels of ammonia slip, say 5 to 10 ppm versus the 2 ppm for an SCR system. Therefore, it is expected that SNCR systems will reduce the overall release of sulfuric acid, while SCR systems will typically increase both the manufacture and release of sulfuric acid.

The reactions between SO_3/H_2SO_4 and ammonia produce two products, ammonium sulfate $(NH_4)_2SO_4$ and/or ammonium bisulfate NH_4HSO_4. While both are solids, the bisulfate pairs one ammonia molecule with one of sulfuric acid and the sulfate requires two ammonia molecules for each sulfuric acid. Usually, the reaction product is determined by the stoichiometry, the relative amount of each substance that is present. When ammonia is present in an amount over twice the concentration of the sulfuric acid, the reaction product will always be the ammonium sulfate. Conversely, when sulfuric acid is present in concentrations greater than ammonia, the product will be ammonium bisulfate. Between these two extremes, a mixture of ammonium sulfate and bisulfate is produced.

For bituminous coals with low-to-medium levels of sulfur, an SCR system will always produce an excess of sulfuric acid as compared to any possible ammonia slip, and thus it is expected to produce ammonium bisulfate. For lower rank U.S. coals, the sulfuric acid is typically adsorbed by the ash, and it is likely that the ammonia will be in higher concentrations than the sulfuric acid. Then, ammonium sulfate is the likely product. For SNCR systems, ammonia slip levels are higher, so the probability is higher of producing more ammonium sulfate. Certainly with coals from the Western U.S., the alkaline nature of the ash will sharply reduce the amount of SO_3 present and usually the sulfate form will predominate. For Eastern bituminous coals, it is likely that the bisulfate chemical form will be the product of the reactions.

For the purposes of predicting sulfuric acid emissions, these distinctions are not important. The reaction path for the ammonia-sulfuric acid reactions are assumed to be stepwise in order. That is, the sulfuric acid will capture a single ammonia molecule producing the bisulfate form. If additional ammonia is available, the bisulfate can react with another ammonia molecule to form the sulfate. It is assumed here that all of the sulfuric acid forms the bisulfate before any further reaction to the sulfate form occurs. That assumption leads to the calculation strategy where the ammonia captures all of the sulfuric acid it can as the bisulfate form. Since the bisulfate is no longer reportable, the sulfuric acid disappears from the calculation. If any additional ammonia reacts with the bisulfate, it is of no consequence to the sulfuric acid calculation -- although this issue will be important when estimating ammonia releases.

Sulfuric Acid Manufactured from SCR and SNCR

The following relationship is proposed to estimate the total H_2SO_4 *manufactured* from a SCR or SNCR-equipped coal-fired utility boiler:

$$E1_{SCR} = K \bullet S2 \bullet f_s \bullet E2$$

where, $E1_{SCR}$ = Total H_2SO_4 manufactured from SCR, lbs per year
K = Conversion factor = 3063
$S2$ = SCR catalyst SO_2 oxidation rate (specified as a decimal, typically from 0-0.03)
f_s = Operating factor of SCR system, fraction of coal burn when SCR operates
generally, = 0.8 for year-round peaking operation
= 0.98 for year-round base-loaded operation
= 0.5 for seasonal operation
$E2$ = SO_2 produced, tons per year

With,

$$E1_{SNCR} = 0$$

by definition.

Sulfuric Acid Released from SCR and SNCR

$$E1'_{SCR} = [E1_{SCR} - (K_s \bullet B \bullet f_s \bullet S_{NH3})] \bullet F2 \bullet F2$$

where, $E1'_{SCR}$ = Total H_2SO_4 released from SCR, lbs per year

$E1_{SCR}$ = Total H_2SO_4 manufactured from SCR, lbs per year
K_s = Conversion factor = 3799
B = Coal burn in TBtu/yr
f_s = Operating factor of SCR system, fraction of coal burn when SCR operates
generally, = 0.8 for year-round peaking operation
= 0.98 for year-round base-loaded operation
= 0.5 for seasonal operation
S_{NH3} = NH_3 slip from SCR/SNCR, ppmv at 6% O_2, wet;
SCR averages 0.75 ppmv
SNCR averages 3.5 ppmv
F2 = Technology Impact Factors, all that apply

The conversion factor of 3799 corrects all of the various units to yield the result in pounds per year of sulfuric acid. The elements of the calculation of this constant are described below.

The U.S. Code of Federal Regulations 40, Part 60, Table 19-1 "F Factors for Various Fuels" lists that 1 million Btu of heat input for bituminous or subbituminous coal will produce 10,640 wet standard cubic feet of flue gas, defined at 0% oxygen and on a wet basis at 20C and 760 mm Hg. Correcting this volume to 6% O_2 (typical at ESP conditions) yields a volume of 14,925 scf. The standard volume of one pound mole of any gas is 359 scf, defined at 0C and 760 mm Hg. Converting this to the English units standard of 20C (68°F), one pound mole occupies 385 standard cubic feet. Using these in the equation above,

$(K_s \bullet B \bullet f_s \bullet S_{NH3})$ = lbs H_2SO_4 per yr =

B TBtu	S_{NH3} scf NH_3	1 lb mol NH_3	1 lb mol H_2SO_4	98 lbs H_2SO_4
year	10^6 scf flue gas	385 scf NH_3	1 lb mol NH_3	1 lb mol H_2SO_4

14925 scf fg	10^6 MBtu
1 MBtu	TBtu

Grouping terms,

$= B \bullet f_s \bullet S_{NH3} \bullet 3799$

Therefore, the value of K_s is equal to 3799 lbs H_2SO_4/(TBtu • ppmv NH_3 @ 6% O_2 and wet).

If you prefer to specify the quantity of NH_3 at different conditions, the following formula can be used to convert to different bases of the definition:

K_s (O_2, H_2O) = 3799 (6% O_2, 8.1% H_2O) • [(100-8.1)/(100-new H_2O)]
[(20.9 – 6.0)/(20.9 – new O_2)]

Therefore, if the ammonia is quantified at a ppm level that is defined at 0% oxygen and a dry basis, the value of K_s that should be used is:

$$K_s\ (O_2, H_2O) = 3799\ (6\%\ O_2, 8.1\%\ H_2O) \bullet [(100\text{-}8.1)/(100\text{-}0)] \\ [(20.9 - 6.0)/(20.9 - 0)]$$

$$= 2489\ \text{lbs}\ H_2SO_4/(\text{TBtu} \bullet \text{ppmv}\ NH_3\ @\ 0\%\ O_2\ \text{and dry}).$$

Therefore, the K_s at any other condition used to define the ppm level at which ammonia is quantified can be calculated by following this formula.

Be aware that the calculation for SNCR will always be negative, while the SCR result will usually still be positive. Since the SNCR does not create any sulfuric acid, it removes some of the sulfuric acid produced in combustion.

Optional Scrubber Bypass Calculation. Those units equipped scrubbers where some of the flue gas bypasses the scrubber should take this into account in their SCR/SNCR release calculations also, as in the combustion release calculations. No credit for sulfuric acid removal should be taken for the fraction of the flue gas that bypasses the scrubber. Therefore, this amount of the flue gas should not be multiplied by the F2 factor for the scrubber. However, it should still be multiplied by the F2 factors for the other control devices.

A modified equation considering partial scrubber bypass is given below and should be used where appropriate.

$$E1'_{SCR} = [SB_f + (1 - SB_f) \bullet F2_s] \bullet [E1_{SCR} - (K_s \bullet B \bullet f_s \bullet S_{NH3})] \bullet F2_x$$

where, SB_f = fraction of scrubber bypass, as a decimal
$F2_s$ = F2 for scrubber
$F2_x$ = All other applicable F2's except for scrubber.

MANUFACTURE AND RELEASE FROM FLUE GAS CONDITIONING

Another process used in power plants that can affect the manufacture and release of sulfuric acid is the injection of SO_3, SO_3 plus NH_3, or NH_3 alone to assist in particulate control in an ESP or baghouse. For SO_3 injection, the chemical is typically made on site from sulfur fuel in a sulfur burner. This combustion process produces SO_2, which is then catalytically oxidized to SO_3, with a conversion typically > 95%. When injected into the flue gas, the SO_3 immediately reacts with water vapor to create sulfuric acid vapors, thus resulting in the manufacture of sulfuric acid that may require reporting for TRI purposes.

The following section documents a method to estimate both the manufacture and any subsequent release due to these flue gas conditioning systems.

Sulfuric Acid Manufactured from FGC

Any SO_3 system for ash resistivity control is usually controlled at a fixed concentration rate for the flue gas. In other words, the controls strive to maintain a fixed concentration of added SO_3 in the flue gas, typically between 5 and 7 parts per million by volume. The manufactured calculation uses the setpoint of the injection system as the basis for the calculation. The system is assumed to operate during most of the plant's operation, perhaps not being used in startup and low load operation.

$$E1_{FGC} = K_e \bullet B \bullet f_e \bullet I_s$$

where, $E1_{FGC}$ = Total H_2SO_4 manufactured from FGC, lbs per year
K_e = Conversion factor = 3799
B = Coal burn in TBtu/yr
F_e = Operating factor of FGC system, fraction of coal burn when FGC operates
generally = 0.8
I_s = SO_3 injection rate in ppmv at 6% O_2, wet;
generally, = 7 ppmv if before the APH
= 5 ppmv if after the APH

Systems that inject ammonia alone obviously do not manufacture sulfuric acid, and systems that use both SO_3 and NH_3 together still manufacture sulfuric acid at the same rate, regardless of whether ammonia is used or not. However, in systems that inject ammonia alone, any remaining ammonia may reduce the release of sulfuric acid by reacting with any available SO_3.

Sulfuric Acid Released from FGC

The subsequent release of that portion of sulfuric acid associated with flue gas conditioning can be estimated from:

$$E1'_{FGC} = [E1_{FGC} - (K_e \bullet B \bullet f_e \bullet I_{NH3})] \bullet F3 \bullet F2$$

where, $E1'_{FGC}$ = Total H_2SO_4 released from FGC, lbs per year
$E1_{FGC}$ = Total H_2SO_4 manufactured from FGC, lbs per year
K_e = Conversion factor = 3799
B = Coal burn in TBtu/yr
f_e = Operating factor of FGC system, fraction of fuel burn when FGC operates
generally = 0.8
I_{NH3} = NH_3 injection for dual flue gas conditioning, ppmv at 6% O_2, wet;
generally 3 ppmv NH_3 if operating, = 0 if no ammonia is used
F3 = Technology Impact Factors for FGC, see Table 4
F2 = Technology Impact Factors, <u>for equipment after ESP only</u>
If no control after ESP, F2 = 1.

Table 4 F3 – Technology Impact Factors for FGC With Cold-Side ESPs		
Location	Coals	F3
Upstream of APH	bituminous	0.25
Upstream of APH	W. bit., subbit., & lig.	0.05
Downstream of APH	bituminous	0.10
Downstream of APH	W. bit., subbit., & lig.	0.02
For other fuels, use F3 = 0.5 for startup fuel and F3 = coal factor for fuels co-fired as a minor fraction (<25%) with coal.		

This approach leads to a possible contradiction in the behavior of SO_3/H_2SO_4 depending on the place in which the SO_3/H_2SO_4 enters the system. For SO_3 created in combustion, SCR, or introduced as FGC ahead of the air preheater, the method predicts removals of 75% for Eastern bituminous coals in an air preheater and cold-side ESP. However, for SO_3 injected for FGC downstream of the air preheater, 90% will be removed in a cold-side ESP for the Eastern bituminous coal. For bituminous coals, the F3 numbers for upstream injection of SO_3 mirror the behavior of SO_3 formed from combustion or SCR, that is, the method predicts the same result for a molecule of SO_3 found ahead of the air preheater, regardless of its origin. However, for Western bituminous or subbituminous and lignite coals, SO_3 originating from combustion or an SCR is collected with 75% efficiency in the air heater and cold-side ESP. For SO_3 injected as FGC for these Western or low-ranked fuels, SO_3 injected ahead of the air heater is removed with a 95% efficiency through the air heater and ESP, and 98% when injected downstream of the air heater. Since these Western bituminous, subbituminous, and lignite coals have alkaline ash, any SO_3 injected for FGC will be captured by both physical deposition, and by chemical reaction. For this reason, the removals assumed for these coals are much higher than for Eastern bituminous coals.

Since data are somewhat scarce for this subject, these assumptions have been made based on an estimate that injection of SO_3 downstream of an air preheater, where the temperature is lower, would result in more surface condensation than injection at the higher air preheater inlet temperatures. An analog to this system would be the difference in winter precipitation observed for different surface temperatures. When the air temperatures close to the ground are just around the freezing point, freezing rain (ice mixed with liquid water) is observed. However, when the air temperatures at the ground are well below the freezing point, either sleet or snow (solid ice) is seen. For SO_3 injection, the injection behind the air preheater is typically below the acid dewpoint, so it is expected that the injected SO_3 is condensed on fly ash more readily than the slower cooling in the flue gas through the air preheater.

As with any of these calculations, if the user has any plant data, detailed estimates, or relevant information for a particular case, it should be used for the estimates of manufacturing and releases of sulfuric acid.

Optional Scrubber Bypass Calculation. Those units equipped scrubbers where some of the flue gas bypasses the scrubber should take this into account in their FGC release calculations also. No credit for sulfuric acid removal should be taken for the fraction of the flue gas that bypasses the scrubber. Therefore, this amount of the flue gas should not be multiplied by the F2 factor for the scrubber. However, it should still be multiplied by the F2 factors for the other control devices.

A modified equation considering partial scrubber bypass is given below and should be used where appropriate.

$$E1'_{FGC} = [SB_f + (1 - SB_f) \bullet F2_s] \bullet [E1_{FGC} - (K_e \bullet B \bullet f_e \bullet I_{NH3})] \bullet F3 \bullet F2_x$$

where, SB_f = fraction of scrubber bypass, as a decimal
$F2_s$ = F2 for scrubber
$F2_x$ = All other applicable F2's except for scrubber.

TOTAL MANUFACTURE AND RELEASE FOR SOURCE

Total manufacture and release of sulfuric acid for the source is the sum of the three manufacture or release results. Therefore, if a site burns coal and uses both SCR and FGC, the amount of sulfuric acid manufactured in combustion, the SCR, and the FGC system would be added together to result in the total amount manufactured for this source. The amount released calculated for combustion, SCR, and FGC are also summed to arrive at a total. It is possible for a calculated release from SCR and/or FGC to be negative, which implies that the net result of the ammonia in the system is to remove some or all of the sulfuric acid generated from combustion. Under this approach, it is also possible to calculate a negative amount for the release of sulfuric acid, particularly in circumstances where ammonia alone is used for FGC, or where relatively low-sulfur coals are burned, for instance PRB. Since the release of sulfuric acid from combustion, SCR, and FGC are all additive, any negative values calculated as a result of these circumstances will be accounted for in the total release equation.

Examples 1 through 4 detail these calculations.

MULTIPLE FUELED BOILERS

Likewise, the approach of the proposed method for sources with multiple fuels is a stepwise calculation. For this case, the sequence of calculations for combustion manufacture and release is performed for the first fuel, followed by the calculations for SCR and FGC, if applicable, for the first fuel. The sequence is repeated for each of the subsequent fuels. At the end, the total manufacture of sulfuric acid is calculated by adding all of the manufacture totals for all fuels from all processes. Likewise, the release is summed over all processes and fuels. For example, if a unit with a SCR and FGC burns mostly coal, but uses natural gas in a NOx reburn process

and also disposes of used oil by combustion in the furnace, then the following sequence of calculations would be required:

1. Coal fuel
   a. Combustion manufacture
   b. Combustion release
   c. SCR manufacture
   d. SCR release
   e. FGC manufacture
   f. FGC release
2. Natural gas
   a. Combustion manufacture
   b. Combustion release
   c. SCR manufacture
   d. SCR release
   e. FGC manufacture
   f. FGC release
3. Used oil
   a. Combustion manufacture
   b. Combustion release
   c. SCR manufacture
   d. SCR release
   e. FGC manufacture
   f. FGC release
4. Sum manufacture and releases
   a. Manufacture
      $= 1a + 1c + 1e + 2a + 2c + 2e + 3a + 3c + 3e$
   b. Release
      $= 1b + 1d + 1f + 2b + 2d + 2f + 3b + 3d + 3f$

All of the manufactured results would be summed together and the releases summed also to give the final result. Example 5 details this calculation procedure.

NATURAL GAS TURBINE AND COMBINED CYCLE CALCULATIONS

Natural gas-fired sources typically have so little sulfur input that the sulfuric acid formed is negligible. However, natural gas-fired sources that are co-located with coal units will need to be included in the total release estimates for the site. Additionally, these calculations are convenient to estimate sulfuric acid emissions for PSD review of new gas generation sites.

The structure of the calculations for gas-fired units is very much the same as for coal and oil-fired sources. For simple cycle combustion turbines, the only source of sulfuric acid is the sulfur in the natural gas. A generic value of 2000 grains of sulfur per million cubic feet of natural gas is used as a default value of sulfur content. This value is from EPA's AP-42 emissions factor document. This is equivalent to around 3.5 ppm of sulfur in the raw natural gas.

The ***manufactured*** equations for formation of sulfuric acid from natural gas combustion are:

$$E1_{comb} = K \bullet F1 \bullet E2_{NG}$$

where, $E1_{comb}$ = total H_2SO_4 *manufactured* from combustion, lbs/yr
K = Molecular weight and units conversion constant = 98.07 / 64.04 • 2000 = 3,063
98.07 = Molecular weight of H_2SO_4; 64.04 = Molecular weight of SO_2
Conversion from tons per year to pounds per year – multiply by 2000.
F1 = Fuel Impact Factor for NG
$E2_{NG}$ = Sulfur dioxide (SO_2) emissions either: (1) recorded by a continuous emissions monitor, tons/yr, or (2) calculated from fuel burn data, tons/yr.

SO_2 emissions can be obtained through a calculation using the heat input of natural gas.

$$E2_{NG} = K_b \bullet B_{NG} \bullet S$$

where, $E2_{NG}$ = total SO_2 production from NG combustion, tons/yr
K_b = Molecular weight and units conversion constant = 0.0001359
B_{NG} = Burn of NG in TBtu/yr
S = NG sulfur content in grains per million standard cubic feet (Mscf), use EPA's value of 2000 gr/10^6 scf as default

K_b is determined from the following analysis of the equation.
($K_b \bullet B_{NG} \bullet S$) = tons SO_2 per yr =

B_{NG} TBtu	S gr S	1 scf nat gas	10^{12} Btu	lb S
Year	10^6 scf nat gas	1050 Btu	TBtu	7000 gr S

1 ton S	1 ton mol S	1 ton mole SO_2	64 tons SO_2
2000 lbs S	32 tons S	1 ton mol S	1 ton mole SO_2

Grouping terms,

= ($B_{NG} \bullet S$) • 64 / (1050 • 32 • 14) = ($B_{NG} \bullet S$) • 0.0001359

Therefore, the value of K_b is equal to 0.0001359 tons SO_2/(TBtu • grains S/million scf NG).

The SO_2 emissions can also be calculated from the volume of natural gas burned:

$$E2_{NG} = K_{NG} \bullet N1 \bullet S$$

where, $E2_{NG}$ = total SO_2 production from NG combustion, tons/yr
K_{NG} = Molecular weight and units conversion constant = $1.427 \bullet 10^{-7}$
N1 = NG burn in million standard cubic feet (Mscf) per year
S = NG sulfur content in grains per million standard cubic feet, use EPA's value of 2000 gr/10^6 scf as default

$(K_{NG} \bullet N1 \bullet S)$ = tons SO_2 per yr =

N1 10^6 scf	*S* gr S	lb S
Year	10^6 scf nat gas	7000 gr S

1 ton S	1 ton mol S	1 ton mole SO_2	64 tons SO_2
2000 lbs S	32 tons S	1 ton mol S	1 ton mole SO_2

Grouping terms,

$(N1 \bullet S) \bullet 64 / (7000 \bullet 2000 \bullet 32) = (N1 \bullet S) \bullet 1.427 \bullet 10^{-7}$

Therefore, the value of K_{NG} is equal to $1.427 \bullet 10^{-7}$ tons SO_2/(grains S).

The ***release*** of sulfuric acid is estimated in a similar method to other fuels:

$$E1' = K \bullet F1 \bullet F2 \bullet E2_{NG}$$

where, E1' = total H_2SO_4 *released* from combustion, lbs/yr
K = Molecular weight and units conversion constant = 98.07 / 64.04 • 2000 = 3,063
98.07 = Molecular weight of H_2SO_4; 64.04 = Molecular weight of SO_2
Conversion from tons per year to pounds per year – multiply by 2000.
F1 = Fuel Impact Factor
$E2_{NG}$ = Sulfur dioxide (SO_2) emissions either: (1) recorded by a continuous emissions monitor, tons/yr, or (2) calculated from fuel burn data, tons/yr.
F2 = Technology Impact Factor(s)

It should be noted that for gas-fired combined cycle plants that exhaust at low temperatures, say less than 200°F, an F2 factor equal to 0.5 should be used to account for any removal in the heat transfer sections.

Example 6 illustrates a gas-fired combined cycle plant calculation.

EXAMPLE CALCULATIONS

Example 1: Comparison of Previous and Current Method

A 500-MW pulverized coal-fired (PC) boiler equipped with a cold-side electrostatic precipitator burns an Eastern bituminous coal. The coal used in the reporting year is 1,126,938 tons with a weighted average sulfur concentration of 2.0% and a heating value of 12,000 Btu/lb.

Solution

Manufactured

$E2 = K1 \bullet K2 \bullet C1 \bullet S1$

$E2 = 0.02 \bullet 0.95 \bullet 1{,}126{,}938 \bullet 2.0 = 42{,}824$ tons SO_2/yr

$E1 = K \bullet F1 \bullet E2$

$E1 = 3063 \bullet 0.008 \bullet 42{,}824 = 1{,}049{,}359$ lbs H_2SO_4/yr

The 25,000 lbs/yr threshold has been exceeded, therefore a release estimate must be made and the result reported on Form R.

Released

$E1'_{comb} = K \bullet F1 \bullet F2 \bullet E2$

$E1'_{comb} = 3063 \bullet 0.008 \bullet (0.5 \bullet 0.5) \bullet 42{,}824 = 262{,}340$ lbs H_2SO_4/yr

Where F2 = Air Heater • Cold-Side ESP

$F2 = 0.5 \bullet 0.5 = 0.25$

Example 1A: Comparison of Previous and Current Method – (Old Method)
In the previous method, the cold-side ESP would have used F2 = 0.75 instead of 0.5. For that case, the emissions would be:

$E1'_{comb} = K \bullet F1 \bullet F2 \bullet E2$
$E1'_{comb} = 3063 \bullet 0.008 \bullet (0.5 \bullet 0.75) \bullet 42{,}824 = 393{,}506$ lbs H_2SO_4/yr (old method)

Where F2 = Air Heater • Cold-Side ESP
F2 = 0.5 • 0.75 = 0.375 (old method)

Example 2: SCR Added to Example 1
A 500-MW PC boiler equipped with a cold-side electrostatic precipitator burns an Eastern bituminous coal. The plant is equipped with a SCR process that operates during the ozone season only, so that 0.5 of the coal burn occurred with the SCR operating. The SCR catalyst SO_2 oxidation rate specified in the design is 0.75%, and the ammonia slip is estimated to be 0.75 ppmv. The coal used in the reporting year is 1,126,938 tons with a weighted average sulfur concentration of 2.0% and a heating value of 12,000 Btu/lb.

Solution

Manufactured

$E2 = K1 \bullet K2 \bullet C1 \bullet S1$
$E2 = 0.02 \bullet 0.95 \bullet 1{,}126{,}938 \bullet 2.0 = 42{,}824$ tons SO_2/yr

Combustion

$E1_{comb} = K \bullet F1 \bullet E2$
$E1_{comb} = 3063 \bullet 0.008 \bullet 42{,}824 = 1{,}049{,}359$ lbs H_2SO_4/yr

SCR

$E1_{SCR} = K \bullet S2 \bullet f_s \bullet E2$
$E1_{SCR} = 3063 \bullet 0.0075 \bullet 0.5 \bullet 42{,}824 = 491{,}887$ lbs H_2SO_4/yr

Total

$E1_{total} = E1_{comb} + E1_{SCR}$
$E1_{total} = 1{,}049{,}359 + 491{,}887$ lbs H_2SO_4/yr
$E2_{total} = 1{,}541{,}246$ lbs H_2SO_4/yr

The 25,000 lbs/yr threshold has been exceeded, therefore a release estimate must be made and the result reported on Form R.

Released

Combustion

$E1'_{comb} = K \bullet F1 \bullet F2 \bullet E2$
$E1'_{comb} = 3063 \bullet 0.008 \bullet (0.5 \bullet 0.5) \bullet 42{,}824 = 262{,}340$ lbs H_2SO_4/yr

Where F2 = Air Heater • Cold-Side ESP
$F2 = 0.5 \bullet 0.5 = 0.25$

SCR
$B = 1{,}126{,}938$ tons/yr • 2000 lbs/ton • 12,000 Btu/lb • 1 TBtu/10^{12} Btu
$B = 27.05$ TBtu/yr

$E1'_{SCR} = [E1_{SCR} - (K_s \bullet B \bullet f_s \bullet S_{NH3})] \bullet F2 \bullet F2$
$E1'_{SCR} = [491{,}887 - (3799 \bullet 27.05 \bullet 0.5 \bullet 0.75)] \bullet 0.5 \bullet 0.5$
$E1'_{SCR} = 113{,}337$ lbs H_2SO_4/yr

Total
$E1'_{total} = E1'_{comb} + E1'_{SCR}$
$E1'_{total} = 262{,}340 + 113{,}337$ lbs H_2SO_4/yr
$E1'_{total} = 375{,}677$ lbs H_2SO_4/yr

Example 3: FGC Added to Example 1

A 500-MW PC boiler equipped with a cold-side electrostatic precipitator burns an Eastern bituminous coal. The plant is equipped with a FGC process that injects both SO_3 and NH_3, with the SO_3 injected upstream of the air preheater. The SO_3 is injected at 7 ppmv at 6% O_2 wet, and the ammonia at 3 ppmv also at 6% O_2 wet. The FGC system operates whenever the plant is on, except during startup and shutdown, with an operating factor estimated at 0.9. The coal used in the reporting year is 1,126,938 tons with a weighted average sulfur concentration of 2.0% and a heating value of 12,000 Btu/lb.

Solution

Manufactured

$E2 = K1 \bullet K2 \bullet C1 \bullet S1$

$E2 = 0.02 \bullet 0.95 \bullet 1{,}126{,}938 \bullet 2.0 = 42{,}824$ tons SO_2/yr

Combustion

$E1_{comb} = K \bullet F1 \bullet E2$

$E1_{comb} = 3063 \bullet 0.008 \bullet 42{,}824 = 1{,}049{,}359$ lbs H_2SO_4/yr

FGC

$B = 1{,}126{,}938$ tons/yr $\bullet$ 2000 lbs/ton $\bullet$ 12000 Btu/lb $\bullet$ 1 TBtu/10^{12} Btu

$B = 27.05$ TBtu/yr

$E1_{FGC} = K_e \bullet B \bullet f_e \bullet I_s$

$E1_{FGC} = 3799 \bullet 27.05 \bullet 0.9 \bullet 7 = 647{,}407$ lbs H_2SO_4/yr

Total

$E1_{total} = E1_{comb} + E1_{FGC}$

$E1_{total} = 1{,}049{,}359 + 647{,}407$ lbs H_2SO_4/yr

$E2_{total} = 1{,}696{,}766$ lbs H_2SO_4/yr

The 25,000 lbs/yr threshold has been exceeded, therefore a release estimate must be made and the result reported on Form R.

Released

Combustion

$E1'_{comb} = K \bullet F1 \bullet F2 \bullet E2$

$E1'_{comb} = 3063 \bullet 0.008 \bullet (0.5 \bullet 0.5) \bullet 42{,}824 = 262{,}340$ lbs H_2SO_4/yr

Where F2 = Air Heater $\bullet$ Cold-Side ESP

$F2 = 0.5 \bullet 0.5 = 0.25$

FGC

$B = 1{,}126{,}938$ tons/yr $\bullet$ 2000 lbs/ton $\bullet$ 12000 Btu/lb $\bullet$ 1 TBtu/10^{12} Btu

B = 27.05 TBtu/yr

$E1'_{FGC} = [E1_{FGC} - (K_E \bullet B \bullet f_E \bullet I_{NH3})] \bullet F3 \bullet F2$
$E1'_{FGC} = [647,407 - (3799 \bullet 27.05 \bullet 0.9 \bullet 3.0)] \bullet 0.25 \bullet 1.0$
$E1'_{FGC} = 92,487$ lbs H_2SO_4/yr

Since there are no other control devices after the ESP, then F2 = 1.0.

Total
$E1'_{total} = E1'_{comb} + E1'_{FGC}$
$E1'_{total} = 262,340 + 92,487$ lbs H_2SO_4/yr
$E1'_{total} = 354,827$ lbs H_2SO_4/yr

Example 4: SCR and FGC Added to Example 1

A 500-MW PC boiler equipped with a cold-side electrostatic precipitator burns an Eastern bituminous coal. The plant is equipped with a SCR process that operates during the ozone season only, so that 0.5 of the coal burn occurred with the SCR operating. The SCR catalyst SO_2 oxidation rate specified in the design is 0.75%, and the ammonia slip is estimated to be 0.75 ppmv. The plant is also equipped with a FGC process that injects both SO_3 and NH_3, with the SO_3 injected upstream of the air preheater. The SO_3 is injected at 7 ppmv at 6% O_2 wet, and the ammonia at 3 ppmv also at 6% O_2 wet. The FGC system operates whenever the plant is on, except during startup and shutdown, with an operating factor estimated at 0.9. The coal used in the reporting year is 1,126,938 tons with a weighted average sulfur concentration of 2.0% and a heating value of 12,000 Btu/lb.

Solution

From previous examples,

Manufactured

Total

$E1_{total} = E1_{comb} + E1_{SCR} + E1_{FGC}$

$E1_{total} = 1{,}049{,}359 + 491{,}887 + 647{,}407$ lbs H_2SO_4/yr

$E1_{total} = 2{,}188{,}653$ lbs H_2SO_4/yr

The 25,000 lbs/yr threshold has been exceeded, therefore a release estimate must be made and the result reported on Form R.

Released

Combustion

$E1'_{comb} = K \bullet F1 \bullet F2 \bullet E2$

$E1'_{comb} = 3063 \bullet 0.008 \bullet (0.5 \bullet 0.5) \bullet 42{,}824 = 262{,}340$ lbs H_2SO_4/yr

SCR

$E1'_{SCR} = [E1_{SCR} - (K_s \bullet B \bullet f_s \bullet S_{NH3})] \bullet F2 \bullet F2$

$E1'_{SCR} = [491{,}887 - (3799 \bullet 27.05 \bullet 0.5 \bullet 0.75)] \bullet 0.5 \bullet 0.5$

$E1'_{SCR} = 113{,}337$ lbs H_2SO_4/yr

FGC

$E1'_{FGC} = [E1_{FGC} - (K_E \bullet B \bullet f_E \bullet I_{NH3})] \bullet F3 \bullet F2$

$E1'_{FGC} = [647{,}407 - (3799 \bullet 27.05 \bullet 0.9 \bullet 3.0)] \bullet 0.25 \bullet 1.0$

$E1'_{FGC} = 92{,}487$ lbs H_2SO_4/yr

Total

$E1'_{total} = E1'_{comb} + E1'_{SCR} + E1'_{FGC}$
$E1_{total} = 262,340 + 113,337 + 92,487$ lbs H_2SO_4/yr
$E1_{total} = 468,164$ lbs H_2SO_4/yr

Example 5: Coal-Fired Boiler with FGC, NG Startup Fuel, and Used Oil Co-Firing

A 500-MW PC boiler equipped with a cold-side electrostatic precipitator burns an Eastern bituminous coal as the main fuel. The plant is equipped with a SCR process that operates during the ozone season only, so that 0.5 of the coal burn occurred with the SCR operating. The ammonia slip is estimated to be 0.75 ppmv. The plant is also equipped with a FGC process that injects both SO_3 and NH_3, with the SO_3 injected upstream of the air preheater. The SO_3 is injected at 7 ppmv at 6% O_2 wet, and the ammonia at 3 ppmv also at 6% O_2 wet. The FGC system operates whenever the plant is on, except during startup and shutdown, with an operating factor estimated at 0.9. The coal used in the reporting year is 1,126,938 tons with a weighted average sulfur concentration of 2.0% and a heating value of 12,000 Btu/lb. Natural gas is used as a startup fuel, with 0.5 TBtu per year. During startup, neither the SCR nor the FGC system is used. Used oil is also burned, with 483.2 tons burned (0.0185 TBtu/yr) in the year. Since the used oil is burned when the unit is at full load, it is burned while the SCR and FGC are both operating. The used oil has a sulfur content of 0.1% from analysis.

Solution

Coal fuel calculations

Manufactured from coal, from previous examples

Total

$E1_{total} = E1_{comb} + E1_{SCR} + E1_{FGC}$

$E1_{total} = 1{,}049{,}359 + 491{,}887 + 647{,}407$ lbs H_2SO_4/yr

$E1_{total} = 2{,}188{,}653$ lbs H_2SO_4/yr

Released from coal, from previous examples

Total

$E1'_{total} = E1'_{comb} + E1'_{SCR} + E1'_{FGC}$

$E1'_{total} = 262{,}340 + 113{,}337 + 92{,}487$ lbs H_2SO_4/yr

$E1'_{total} = 468{,}164$ lbs H_2SO_4/yr

Natural gas fuel calculations

Manufactured from natural gas

Combustion

$E2_{NG} = K_b \bullet B_{NG} \bullet S$

$E2_{NG} = 0.0001359 \bullet 0.5$ TBtu/yr $\bullet$ 2000 gr/10^6 scf

$E2_{NG} = 0.136$ tons SO_2/year

$E1_{comb} = K \bullet F1 \bullet E2_{NG}$

$E1_{comb} = 3063 \bullet 0.01 \bullet 0.136$

$E1_{comb}$ = 4.16 lbs H_2SO_4 manufactured

None manufactured in either the SCR or FGC

Released from natural gas

Combustion

$E1' = K \bullet F1 \bullet F2 \bullet E2_{NG}$
$E1' = 3063 \bullet 0.01 \bullet 0.5 \bullet 0.5 \bullet 0.136$
$E1' = 1.04$ lbs H_2SO_4 released

F2 is taken to be equal to 0.5 for the air heater and 0.5 for the ESP.

Used oil fuel calculations

Manufactured from used oil

Combustion

$E2 = K1 \bullet K2 \bullet C1 \bullet S1$
$E2 = 0.02 \bullet 1.0 \bullet 483.2 \bullet 0.1$
$E2 = 0.966$ tons SO_2/year

$E1_{comb} = K \bullet F1 \bullet E2$
$E1_{comb} = 3063 \bullet 0.0175 \bullet 0.966$
$E1_{comb} = 51.8$ lbs H_2SO_4 manufactured

SCR

$E1_{SCR} = K \bullet S2 \bullet f_s \bullet E2$
$E1_{SCR} = 3063 \bullet 0.0075 \bullet 1.0 \bullet 0.966$
$E1_{SCR} = 22.2$ lbs H_2SO_4 manufactured

FGC

$E1_{FGC} = K_e \bullet B \bullet f_e \bullet I_s$
$E1_{FCG} = 3799 \bullet 0.0185 \bullet 1.0 \bullet 7.0$
$E1_{FCG} = 492$ lbs H_2SO_4 manufactured

Total

$E1_{total} = E1_{comb} + E1_{SCR} + E1_{FGC}$
$E1_{total} = 51.8 + 22.2 + 492$ lbs H_2SO_4/yr
$E1_{total} = 566$ lbs H_2SO_4/yr

Released from used oil

Combustion

$E1'_{comb} = K \bullet F1 \bullet F2 \bullet E2$

$E1'_{comb} = 3063 \bullet 0.0175 \bullet 0.5 \bullet 0.5 \bullet 0.966$

$E1'_{comb} = 12.95$ lbs H_2SO_4 released

SCR

$E1'_{SCR} = [E1_{SCR} - (K_s \bullet B \bullet f_s \bullet S_{NH3})] \bullet F2 \bullet F2$

$E1'_{SCR} = [22.2 - (3799 \bullet 0.0185 \bullet 1.0 \bullet 0.75)] \bullet 0.5 \bullet 0.5$

$E1'_{SCR} = -7.63$ lbs H_2SO_4/yr

F2 is taken to be equal to 0.5 for the air heater and 0.5 for the ESP.

FGC

$E1'_{FGC} = [E1_{FGC} - (K_e \bullet B \bullet f_e \bullet I_{NH3})] \bullet F3 \bullet F2$

$E1'_{FGC} = [492 - (3799 \bullet 0.0185 \bullet 1.0 \bullet 3.0)] \bullet 0.25 \bullet 1.0$

$E1'_{FGC} = 70.3$ lbs H_2SO_4/yr

Total

$E1'_{total} = E1'_{comb} + E1'_{SCR} + E1'_{FGC}$

$E1'_{total} = 12.95 - 7.63 + 70.3$ lbs H_2SO_4/yr

$E2'_{total} = 75.6$ lbs H_2SO_4/yr

Grand totals for all fuels

Manufactured

$E1_{total} = E1_{coal} + E1_{NG} + E1_{oil}$

$E1_{total} = 2{,}188{,}653 + 4.16 + 566$ lbs H_2SO_4/yr

$E1_{total} = 2{,}189{,}223$ lbs H_2SO_4/yr

Released

$E1'_{total} = E1'_{coal} + E1'_{NG} + E1'_{oil}$

$E1'_{total} = 468{,}164 + 1.04 + 75.6$ lbs H_2SO_4/yr

$E2'_{total} = 468{,}241$ lbs H_2SO_4/yr

Example 6: Natural Gas Combined Cycle Plant

This is a natural gas fired combined cycle unit that used 12.3 TBtu of natural gas, with the standard sulfur content.

Solution

Manufactured

$E2_{NG} = K_b \bullet B_{NG} \bullet S$

$= 0.0001359 \bullet 12.3 \bullet 2000$

$= 3.343$ tons SO_2/yr

$E1_{comb} = K \bullet F1 \bullet E2_{NG}$

$= 3063 \bullet 0.0555 \bullet 3.343$

$= 568$ lbs H_2SO_4 manufactured

Released

$E1' = K \bullet F1 \bullet F2 \bullet E2_{NG}$

$= 3063 \bullet 0.0555 \bullet 0.5 \bullet 3.343$

$= 284.5$ lbs H_2SO_4 released

(F2= 0.5 because of the low temperature of the back-end tubes of the HRSG, like an air heater.)

REFERENCES

1 EPA. 1995. Sulfuric Acid: Toxic Chemical Release Reporting: Community Right-To-Know. Final Rule. 60 FR 34182. June 30, 1995.

2 EPA. Emergency Planning and Community Right-to-Know Act - Section 313. Guidance for Reporting Sulfuric Acid (acid aerosols including mists vapors, gas, fog, and other airborne forms of any particle size). EPA-745-R-97-007. November 1997.

3 Hardman, R., Stacy R., Dismukes, E. *Estimating Total Sulfuric Acid Emissions from Coal-Fired Power Plants.* Internal report of Research & Environmental Affairs Department, Southern Company Services, March 1998.

4 Hardman, R., Stacy, R., Dismukes, E., Harrison, K., Monroe, L. *Estimating Total Sulfuric Acid Emissions from Coal-Fired Power Plants.* Revised Internal report of Research & Environmental Affairs Department, Southern Company Services, February 1999.

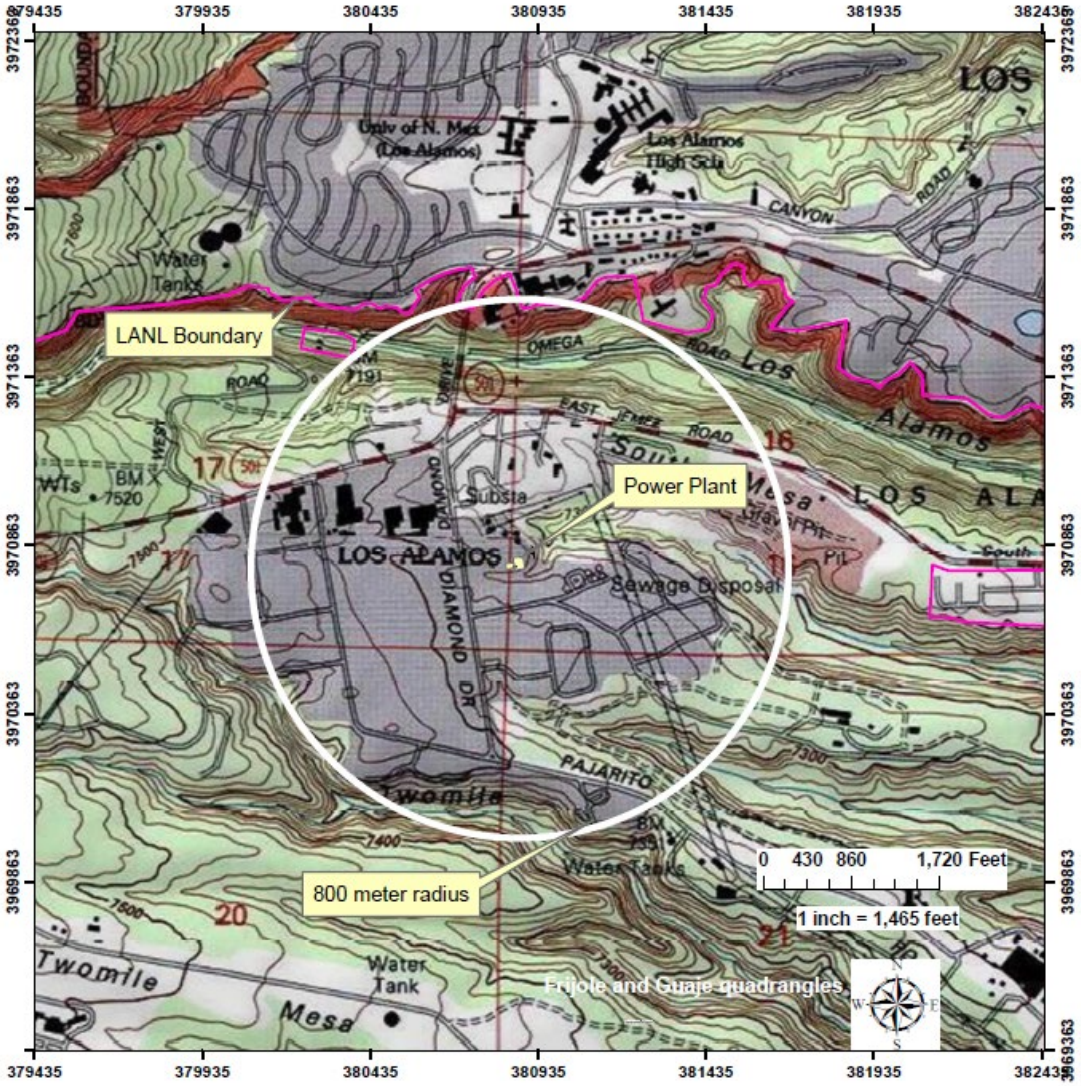
5 EPA. 1995. Compilation of Air Pollutant Emission Factors AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources. http://www.epa.gov/ttnchie1/ap42pdf/c01s01.pdf.

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")

√ **I have read the AQB "Guidelines for Public Notification for Air Quality Permit Applications"**
This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

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

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

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

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

1. √ A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
2. √ A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g: post office, library, grocery, etc.)
3. √ A copy of the property tax record (20.2.72.203.B NMAC).
4. n/a A sample of the letters sent to the owners of record.
5. √ A sample of the letters sent to counties, municipalities, and Indian tribes.
6. √ A sample of the public notice posted and a verification of the local postings.
7. √ A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
8. √ A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
9. √ A copy of the classified or legal ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
10. √ A copy of the display ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
11. n/a 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 landowners of record.

Per the NMED 02/24/2017 Guideline for Public Notification for Air Quality Permit Applications and confirmation of 4/19/2011 from NMED, facilities with large geographical areas such as LANL apply the distances to provide public notice to nearby property owners to the boundary of the restricted area surrounding the new or modified activity and not the facility property boundary. There are no property owners within 100 feet of the restricted area of the TA-3 Power Plant.
Copies of the certified letter receipts are included in Attachment 2 and copies of the classified, legal, and display ads and related affidavits are included in Attachment 3.

Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A

Date: May XX, 2025

Recipient
Position Title
Street Address / PO Box
City, State, Zip Code

SAMPLE CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Recipient:

Los Alamos National Laboratory will be applying to the New Mexico Environment Department in June 2025 for a significant permit revision to the existing power plant air quality permit (2195B-M3R4). The exact location for the facility known as Technical Area 3 Power Plant is at TA-3, SM-22 on Diamond Drive in the Los Alamos National Laboratory. The approximate location of this facility is 1 mile south of the intersection of Diamond Drive and Trinity Drive in Los Alamos County. The TA-3 Power Plant is currently permitted to operate boilers to produce steam for use as a heating source in approximately 40 buildings in TA-3 and a Combustion Gas Turbine Generator (CGTG) that produces electricity. The Laboratory is owned by the Department of Energy and operated by Triad National Security, LLC.

For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase 1 of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5, each rated at a capacity of 72.3 MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG), TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two auxiliary boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electrical and steam generation.

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are

different from the original phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.

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)	11.161 pph*	9.383 tpy*
PM_{10}	11.161 pph*	9.383 tpy*
$PM_{2.5}$	9.207 pph*	9.336 tpy*
Sulfur Dioxide (SO_2)	26.503 pph*	3.384 tpy*
Nitrogen Oxides (NO_x)	59.465 pph*	87.199 tpy*
Carbon Monoxide (CO)	49.718 pph*	97.449 tpy*
Volatile Organic Compounds (VOC)	3.206 pph*	4.512 tpy*
Total sum of all Hazardous Air Pollutants (HAPs)	1.428 pph	2.381 tpy
Toxic Air Pollutant (TAP)	0.318 pph	-
Green House Gas Emissions as Total CO_2e	-	320,448 tpy

* Estimated hourly and annual start up, shut down and maintenance emissions have been added per public notice requirements.

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

The operator of the Facility is: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, New Mexico, 87545, and the owner is the Los Alamos National Laboratory for the U.S. Department of Energy, 3747 West Jemez Road, Los Alamos, NM 87544. Please direct questions for the Laboratory to the Environmental Communication & Public Involvement Office point of contact, Steve Horak, at 505-551-4514, envoutreach@lanl.gov, or Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Alamos, New Mexico 87545.

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 not have 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 505-629-3395.

Sincerely,

Sarah S. Holcomb
Group Leader, EPC-CP
P.O. Box 1663, MS K490
Los Alamos, NM 87545

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.

Copy: Theodore A. Wyka, NA-LA, theodore.wyka@nnsa.doe.gov
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Maxine M. McReynolds, Triad, GC-ESH, mcreynolds@lanl.gov
Christopher C. Stoneback, Triad, GC-ESH, cstoneback@lanl.gov
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Triad, EPC-CP Title V Permit File
Triad, EPC-CP Correspondence File
lasomailbox@nnsa.doe.gov

epccorrespondence@lanl.gov
eshq-dcrm@lanl.gov
gc-esh@lanl.gov
interface@lanl.gov

List of local governments, municipalities, and pueblos provided certified notification.

Naomi D. Maestas
Los Alamos County Clerk
1000 Central Avenue, Suite 240 Los Alamos,
New Mexico 87544

Pueblo de Cochiti
Governor Everett P. Herrera
P.O. Box 70
Cochiti Pueblo, NM 87072

Anne Brady-Romero Sandoval County
Clerk
P.O. Box 40
Bernalillo, New Mexico 87004

Katharine Clark
Santa Fe County Clerk
102 Grant Ave
Santa Fe, New Mexico 87501

Pueblo de San Ildefonso
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Environmental Director
Office of the Governor
PO Box 4339
San Felipe Pueblo, NM 87001

Newspaper Public Service Announcement (published in English and Spanish)

The following announcement is a requirement of New Mexico air quality regulations.

Los Alamos National Laboratory will be applying to the New Mexico Environment Department in June 2025 for a significant permit revision to the existing power plant air quality permit (2195B-M3R4). The exact location for the facility known as Technical Area 3 Power Plant is at TA-3, SM-22 on Diamond Drive in the Los Alamos National Laboratory. The approximate location of this facility is 1 mile south of the intersection of Diamond Drive and Trinity Drive in Los Alamos County. The TA-3 Power Plant is currently permitted to operate boilers to produce steam for use as a heating source in approximately 40 buildings in TA-3 and a Combustion Gas Turbine Generator (CGTG) that produces electricity. The Laboratory is owned by the Department of Energy and operated by Triad National Security, LLC.

For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase 1 of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5, each rated at a capacity of 72.3 MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG), TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two AUX boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electrical and steam generation.

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.

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)	11.161 pph*	9.383 tpy*
PM_{10}	11.161 pph*	9.383 tpy*
$PM_{2.5}$	9.207 pph*	9.336 tpy*
Sulfur Dioxide (SO_2)	26.503 pph*	3.384 tpy*
Nitrogen Oxides (NO_x)	59.465 pph*	87.199 tpy*
Carbon Monoxide (CO)	49.718 pph*	97.449 tpy*
Volatile Organic Compounds (VOC)	3.206 pph*	4.512 tpy*
Total sum of all Hazardous Air Pollutants (HAPs)	1.428 pph	2.381 tpy
Toxic Air Pollutant (TAP)	0.318 pph	-
Green House Gas Emissions as Total CO_2e	-	320,448 tpy

* Estimated hourly and annual start up, shut down and maintenance emissions have been addressed per public notice requirements.

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

The operator and owner of the Facility is: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, New Mexico, 87545, operator of Los Alamos National Laboratory for the U.S. Department of Energy, 3747 West Jemez Road, Los Alamos, NM 87544. Please direct questions for the Laboratory to the Environmental Communication & Public Involvement Office point of contact, Steve Horak, at 505-551-4514, envoutreach@lanl.gov, or Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Alamos, New Mexico 87545.

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.

PUBLIC NOTICE

20.2.72 NMAC – General Permits, Section 220.A(2)(b)ii

NOTICE

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The operator of the Facility is: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, New Mexico, 87545, and the owner is the Los Alamos National Laboratory for the U.S. Department of Energy, 3747 West Jemez Road, Los Alamos, NM 87544. Please direct questions for the Laboratory to the Environmental Communication & Public Involvement Office point of contact, Steve Horak, at 505-551-4514, envoutreach@lanl.gov, or Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Alamos, New Mexico 87545.

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Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-3395.

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.

Section 10

Written Description of the Routine Operations of the Facility

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

The TA-3 Power Plant combusts natural gas (fuel oil only used as a backup fuel) to provide steam and electric power. The proposed significant permit revision consists of allowing two existing boilers that were installed in the 1950's to serve as standby boilers to two newer auxiliary boilers. The two standby boilers will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil is only used as a backup fuel if there is a shortage of natural gas fuel as well as for training and readiness testing.) to provide steam and electric power. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only.

In general, LANL purchases most electric power from outside sources and utilizes the power plant to produce steam for heating for nearby technical areas, and electricity only during periods of high demand or emergencies. The comfort heaters and makeup air heaters are housed in the same building as the auxiliary boilers. The comfort heaters and makeup air heaters are insignificant sources of air pollutants.

The primary air pollutants of concern from natural gas combustion are nitrogen oxides or NO_X, and carbon monoxide or CO. The existing Rolls-Royce CGTG has a NO_X control system referenced as Dry Low Emissions (DLE) technology that achieves reductions of NOX through a lean-burn staged combustion system.

Section 11

Source Determination

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

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

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

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

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

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

√ **Yes** □ **No**

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

√ **Yes** □ **No**

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

√ **Yes** □ **No**

C. Make a determination:

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

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

All emission sources are described in the LANL Title V operating permit P100-R2M5.

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 one of the listed 20.2.74.501 Table I – PSD Source Categories. The "project" emissions for this modification are not significant. Potential emissions are below 100 tpy for each pollutant, so the plant is minor for PSD. The "project" emissions listed below do only result from changes described in this permit application, thus no emissions from other revisions or modifications apply to this facility. The project emissions (before netting) for this project are as follows:**

a. **NOx: 87.199 TPY**
b. **CO: 97.449 TPY**
c. **VOC: 4.512 TPY**
d. **SOx: 3.384 TPY**
e. **PM: 9.383 TPY**
f. **PM10: 9.383 TPY**
g. **PM2.5: 9.336 TPY**
h. **GHG: 320,448 TPY**

C. **Netting – N/A**

D. **BACT – N/A**

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

Section 13

Determination of State & Federal Air Quality Regulations

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

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

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

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

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

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

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

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

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

The table below has been completed for the TA-3 Power Plant and associated emission sources.

STATE REGU-LATIONS 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.)
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	Facility-wide emissions are assessed for NMAAQS for all NSR permit applications.
20.2.7 NMAC	Excess Emissions	Yes	TA-3-22-2, -3, -4, -5 TA-3-22-CT-1	The regulation is applicable to all LANL emission sources that have emission limitations.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	Yes	TA-3-22-2, -3	Each existing boiler has gas burning equipment with a heat input greater than 1,000,000 million Btu per year. The new auxiliary boilers do not have a heat input greater than 1,000,000 million Btu per year.
20.2.34 NMAC	Oil Burning Equipment: NO_2	Yes	Facility	The regulation is applicable to all oil burning equipment with a heat input greater than 1,000,000 million Btu per year. The existing boiler can burn oil and has a heat input of greater than 1,000,000 million Btu per year per unit. The auxiliary boilers can burn oil but do not have a heat input greater than 1,000,000 million Btu per year per unit.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	TA-3-22-2, -3, -4, -5 TA-3-22-CT-1	Both the existing boilers, the new auxiliary boilers, the existing combustion turbine and the CHP are stationary combustion equipment subject to the regulation.
20.2.70 NMAC	Operating Permits	Yes	Facility	LANL has a Title V operating permit No. P100-R2M5 that includes the TA-3 Power Plant.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	LANL is required to pay an annual operating permit fee.
20.2.72 NMAC	Construction Permits	Yes	TA-3-22-2, -3, -4, -5 TA-3-22-CT-1	The TA-3 Power Plant has NSR Permit No. 2195B-M3R4.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	LANL is subject to the annual emission inventory requirement that includes the TA-3 Power Plant.
20.2.75 NMAC	Construction Permit Fees	Yes	TA-3-22-2, -3, -4, -5 TA-3-22-CT-1	This NSR permit application is subject to the fee provisions of the regulation.
20.2.80 NMAC	Stack Heights	Yes	TA-3-22-2, -3, -4, -5 TA-3-22-CT-1	This NSR permit application is subject to the provisions of the regulation.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	Facility	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63.

FEDERAL REGULATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	Facility-wide emissions are assessed for NAAQS for all NSR permit applications.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	TA-3-22-2, -3, -4,-5 TA-3-22-CT-1	The emission units reviewed in this permit application are subject to this subpart of the NSPS.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Yes	TA-3-22-4,-5	The auxiliary boilers are subject to this NSPS.
NSPS 40 CFR 60.330 Subpart GG	Stationary Gas Turbines	Yes	TA-3-22-CT-1	The existing CGTG would still be subject to 40 CFR Part 60, Subpart GG since the heat input to the CGTG will not increase as part of this project.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	Facility	LANL is subject to the general provisions subpart of 40 CFR Part 63 due to being subject to 40 CFR Part 63, Subpart JJJJJJ.
MACT 40 CFR 63 Subpart JJJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	No	TA-3-22-4,-5	The auxiliary boilers will only use #2 Fuel Oil as a standby fuel and is exempt if oil is used no more than 48 hours per calendar year for non-emergency maintenance and readiness testing.
40 CFR 60, Subpart KKKKa,	NSPS for Stationary Combustion Turbines	Yes	TA-3-22-CT-1	The combustion turbine is subject to the proposed rules for this NSPS.

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.

Alternative Operating Scenarios:

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing standby boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) and the two Auxiliary boiler TA-3-22-4 and TA-3-22-5 (Boiler #4 and #5). Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas to provide steam for the LANL facility. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. We have presented two alternate operating scenarios for the winter heating season to allow operational flexibility. The operating scenario examples for the summer non-heating season are identical. The two requested operating scenarios are below:

Assumptions for Scenario #1:

1. For winter heating season, two AUX boilers (Boiler #4 and #5) are operating full time (approximately 4380 hours each). An older boiler (Boiler #2 or #3) is a standby unit for the heating season.
2. For summer non-heating season (mid-April to mid-October), one AUX boiler (Boiler #4 or #5) operates full time and the other AUX boiler unit operates in standby mode.
3. Combustion turbine (TA-3-22-CT -1) operating at 100% load.

Assumptions for Scenario #2:

1. For winter heating season, either Boiler #2 or #3 operates throughout the season with the other one in standby mode. The two AUX boilers (Boilers #4 and #5) are inoperative during this season.
2. For summer non-heating season (mid-April to mid-October), one AUX boiler (Boiler #4 or #5) operates full time and the other AUX unit operates in standby mode.
3. Combustion turbine (TA-3-22-CT -1) operating at 100% load.

LANL is requesting flexibility to operate the power plant with sufficient monitoring and recordkeeping to verify that emission limits are being met within an overall limit on energy use throughput for the power plant. Two scenarios of power plant operations are presented in the Calculations section of UA-2. The TA-3 Power Plant boilers and combustion turbine together will be limited operationally by annual fuel restrictions to ensure no one pollutant exceeds an emission rate greater than 100 tons per year, maintaining the plant's designation as a minor source for PSD permitting purposes.

The facility is seeking flexibility to operate the Combustion Gas Turbine Generator (CGTG) from 80-100% load, Boilers #2 and #3, plus two AUX boilers (Boilers #4 and #5) with one usage limit for natural gas for the combined power plant operations (2,504,582 mSCF/yr based on Scenario #2).

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. Modeling report is on file with the 2018 power plant permit application.

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Compliance Test History Table

Unit No.	Test Description	Test Date
TA-3-22-1,-2,-3	Startup compliance test for NOx and CO as required by NSR Permit No. 2195B.	9/25/2002 – 9/27/2002
TA-3-22-CT-1	Startup compliance test for NOx and CO as required by NSR Permit No. 2195B.	10/5/2007
TA-3-22-CT-1	Annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B.	10/23/2009
TA-3-22-CT-1	Annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B.	6/17/2010
TA-3-22-CT-1	Annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B.	1/19/2011
TA-3-22-CT-1	Annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B.	12/11/2012
TA-3-22-CT-1	CGTG annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B-M1-R2 and additional testing at 92% load.	1/10/2014
TA-3-22-CT-1	CGTG annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B-M1-R2 and additional testing at 90% load.	12/16/2014
TA-3-22-CT-1	CGTG annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B-M3.	1/10/2019
TA-3-22-CT-1	CGTG annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B-M3.	12/8/2021
TA-3-22-CT-1	CGTG annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B-M3R1.	11/29/2022
TA-3-22-CT-1	CGTG annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B-M3R3.	12/5/2023
TA-3-22-CT-1	CGTG annual compliance test for NOx and CO with portable analyzer as required by NSR Permit No. 2195B-M3R4.	12/17/24

Section 22: Certification

Company Name: Triad National Security, LLC / Los Alamos National Laboratory

I, Sarah S. Holcomb, 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 2 day of July, 2025, upon my oath or affirmation, before a notary of the State of New Mexico.

Sarah S. Holcomb
*Signature

7-2-2025
Date

Sarah S. Holcomb
Printed Name

Group Leader, EPC-CP
Title

Scribed and sworn before me on this 2nd day of July, 2025

My authorization as a notary of the State of New Mexico expires on the 3rd day of Sept. 2025.

Notary's Signature

July 2, 2025
Date

Jennifer Larribas
Notary's Printed Name

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

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:	Los Alamos National Laboratory TA-3 Power Plant
2	Name of company:	Triad National Security, LLC
3	Current Permit number:	New Source Review Permit #2195B-M3
4	Name of applicant's modeler:	Stephen Pierett
5	Phone number of modeler:	505 500 9607
6	E-mail of modeler:	spierett@lanl.gov

16-B: Brief

1	Was a modeling protocol submitted and approved?	Yes☒	No☐
2	Why is the modeling being done?	The permit is being modified for operational changes with no new equipment.	
3	Describe the permit changes relevant to the modeling.		
	The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. The two standby boilers will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit modification does not include installation of any new equipment.		

4	What geodetic datum was used in the modeling?	NAD83	
5	How long will the facility be at this location?	Permanently	
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	157	
8	List the PSD baseline dates for this region (minor or major, as appropriate). PSD Class II increment has not been triggered in this region. **There are no PSD major sources in AQCR 157.**		
	NO2		
	SO2		
	PM10		
	PM2.5		
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).		
	Bandelier National Park is located within 3 km.		
10	Is the facility located in a non-attainment area? If so describe below	Yes☐	No☒
11	Describe any special modeling requirements, such as streamline permit requirements.		
	No special requirements apply.		

16-C: Modeling History of Facility

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).

1	Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
	CO	2195B-M3	JUL 26, 2018	
	NO_2	2195B-M3	JUL 26, 2018	
	SO_2	2195B-M3	JUL 26, 2018	
	H_2S	Not applicable	JUL 26, 2018	
	PM2.5	2195B-M3	JUL 26, 2018	
	PM10	2195B-M3	JUL 26, 2018	
	Lead	2195B-M3	JUL 26, 2018	
	Ozone (PSD only)	Not applicable	JUL 26, 2018	
	NM Toxic Air Pollutants (20.2.72.402 NMAC)	None analyzed previously		

16-D: Modeling performed for this application

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.
1	CO	☒	☐	☐	☐	☐
	NO_2	☐	☒	☐	☐	☐
	SO_2	☐	☒	☐	☐	☐
	H_2S	☐	☐	☐	☐	☒
	PM2.5	☐	☒	☐	☐	☐
	PM10	☐	☒	☐	☐	☐
	Lead	☐	☐	☐	☐	☒
	Ozone	☐	☐	☐	☐	☒
	State air toxic(s) (20.2.72.402 NMAC)	☐	☐	☐	☐	☒

16-E: New Mexico toxic air pollutants modeling

1 List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application. No TAPs were modeled for this application

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
Sulfuric Acid	0.311	0.0667	20.73 (stk 1 & 2) & 18.29 (stk 3 & 4)	19 and 5	0.0504

16-F: Modeling options

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes☒	No☐
	AERMOD Version 24142, the U.S. Environmental Protection Agency's preferred model.		

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	June 6, 2024

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
		Please see Attachment A for a full description of the source parameters and locations applied for the modeling of nearby sources.

16-H: Building and structure downwash

1	How many buildings are present at the facility?	Two existing buildings are located at the TA-3 Power Plant. There are some smaller buildings that are in the area.	
2	How many above ground storage tanks are present at the facility?	1	
3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes☒	No☐
4	Building comments	LANL's engineering standard policy requires that all stack heights are at least 10 feet above the highest roof height. All stacks would be tall enough but within GEP heights to minimize building downwash.	

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 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 LANL site and outermost property boundary are extensive in size. In addition, some public roadways and houses are located within the outermost boundary. Receptor grid specifications consider these factors. The following receptor grids were used in the analysis						
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 Cartesian	Fence line	100 meters	401.43 m	14,614.97 m	A fence line grid with 100-meter spacing along the outermost property boundary	

	Discrete Cartesian	Square Perimeter	100 meters	On the west side of the LANL boundary, the distance is 1175.4 meters from the restricted area to the end of the 100-meter spacing.		A fine grid with 100-meter spacing extending 1 kilometer or more from the restricted property boundary on the West side.
	Discrete Cartesian	Square Perimeter	100 meters	On the north side of the LANL boundary, the distance is 1684.7 meters from the restricted area to the end of the 100-meter spacing.		A fine grid with 100-meter spacing extending 1 kilometer or more from the restricted property boundary on the North side.
	Discrete Cartesian	Square Perimeter	100 meters	On the East side of the LANL boundary, the distance is 1678.7 meters from the restricted area to the end of the 100-meter spacing.		A fine grid with 100-meter spacing extending 1 kilometer or more from the restricted property boundary on the East side.
	Discrete Cartesian	Square Perimeter	100 meters	On the South side of the LANL boundary, the distance is 1017.7 meters from the restricted area to the end of the 100-meter spacing.		A fine grid with 100-meter spacing extending 1 kilometer or more from the property boundary to the South side.
	Discrete Cartesian	Square Perimeter	500 meters	On all sides of the square represented by the 100 meter spacing, the next receptor distance interval is 500 meters for a total of 5000 meters.		A medium grid with 500-meter spacing extending 5 kilometers
	Discrete Cartesian	Square Perimeter	1000 meters	On all sides of the square represented by the 500 meter spacing, the next receptor distance interval is 1000 meters for a total of 7000 meters.		A coarse grid with 1,000-meter spacing extending 7 kilometers
						Additional fine grids at the Elk Ridge trailer park on East Jemez Road (the

						truck route) and along public roadways crossing LANL (State Road 4 from White Rock to TA-33, NM 502 road up to and through Los Alamos and West Jemez Road at TA-3 up to the intersection with State Road 4).
						The dispersion analysis includes 23,365 receptors contained within the established grids. Grid dimensions are conservative because of the extensive property boundary, and receptor grids extend beyond the required modeling distances. The receptor grids established for this analysis ensure that the maximum impacts were captured and receptors extend beyond the radius of impact (ROI).

5	Describe receptor spacing along the fence line.
	The LANL fence line distance is given as discrete receptors with 100 meter spacing. LANL property is extensive in size. The Power Plant highest ambient concentrations were added to the NMED AQB ambient monitor concentrations from locations with significantly higher traffic and industrial emissions. LANL believes that the current receptor grid spacing is more than adequate for this analysis.
6	Describe the PSD Class I area receptors.
	Describe the PSD Class I area receptors. None. AQCR 157 has not triggered PSD increment and all are baseline sources. **PSD increment sources do not exist in this area.**

16-J: Modeling Scenarios

	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).
1	**Scenario #1** The primary purpose of the auxiliary (AUX) boilers (Boilers #4 and #5) is to operate together to provide the steam required for TA-3 facilities. The AUX boilers are newer, more efficient units resulting in lower air emissions. However, if one AUX boiler is down for maintenance or repairs during the winter heating season (approximately mid-October to mid-April), the other AUX boiler is not sufficient to provide the steam required. If AUX boiler maintenance or system failure occurs for one unit during the remainder of the year, one AUX boiler would be sufficient to support the operations and processes requiring steam, and either Boiler #2 or #3 would operate in standby mode. Overall, during the typical summer season, where both AUX boilers are in operation, one of two AUX boilers would support facility operations, and one would be in the standby mode (at less than 5% load). The combustion turbine will operate at 100% load during the year. Scenario #1 is summarized as follows and the associated tab in UA-2 is labeled as "S1-AUXyearRound+CT100%". 1. One AUX boiler is operating full time for the non-heating season (mid-April to mid-October) and the other AUX unit is operating in standby mode using approximately 5 mSCF/hr natural gas. 2. Two AUX boilers will operate full time during the winter heating season (approximately 4380 hours each). An older boiler will be a standby unit operating at approximately 5 mSCF/hr for the heating season. 3. Combustion turbine operating at 100% load during the year.

Scenario #2

If an AUX boiler is shut down in the winter heating season, the second AUX boiler would need to be shut down, and either Boiler #2 or #3 would be placed in full service to meet the needs of the technical areas serviced by the power plant. With either Boiler #2 or #3 in full operation, the other unit would be in standby mode and the two units, Boiler #2 or #3, would not operate at full load at the same time. The combustion turbine will operate at 100% load during the year. Scenario #2 is summarized as follows and the associated tab in UA-2 is labeled as "S2-Blrs-2&3Winter+CT100%",

1. Either Boiler #2 or #3 will operate throughout the heating season with the other one in the standby mode. The standby boiler will be operating at approximately 5 mSCF/hour for the heating season.
2. One AUX boiler is operating full time for the non-heating season (mid-April to mid-October) and the other AUX unit is operating in standby mode.
3. Combustion turbine operating at 100% load.

Overall

If either Scenario #1 or #2 are not operating for the full year or 12 month period, the power plant may operate as a combination or hybrid of the two scenarios. Scenarios #1 and #2 are intended to represent the best case (#1) and the worst case (#2) emissions scenarios for the calculation of annual emission totals.

2 Which scenario produces the highest concentrations? Why?

Neither scenario produces higher concentrations than the other except for the SOx emission rate for Boilers #2 and #3 based on fuel oil use. For all pollutants, the emission rates for modeling are based on the higher of the two emission rates for natural gas use or fuel oil use for each type of boiler. Overall, the higher of the two emission rates based on fuel types is applied and all boilers are assumed to operate continuously for 52 weeks each year to determine the maximum ambient concentrations. As such, the modeling results are very conservative.

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☒

16-K: NO_2 Modeling

1	Which types of NO_2 modeling were used? Check all that apply.	
	☒	ARM2
	☐	100% NO_X to NO_2 conversion
	☐	PVMRM
	☐	OLM
	☐	Other:
2	Describe the NO_2 modeling.	
	Used ARM2 option in BEEST AERMOD software. The background monitor concentration was added to the high eighth high to obtain 1-hour cumulative impact.	
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☐
	ARM2 default was used	
4	Describe the design value used for each averaging period modeled. The highest annual concentration is based on five years of meteorological data	
	1-hour: High eighth high Annual Other (Describe): The highest annual NO2 concentration is based on five years of on-site meteorological data.	

16-L: Ozone Analysis – Not Applicable

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

3	Does the facility emit at least 250 tons per year of NO_X or at least 250 tons per year of VOCs? Sources that emit at least 250 tons per year of NO_X or at least 250 tons per year of VOCs are covered by the analysis above and require an individual analysis.	Yes☐	No☒

5	For new PSD Major Sources or PSD major modifications, if MERPs were used to account for ozone fill out the information below. If another method was used describe below.				
	NO_X (ton/yr)	$MERP_{NOX}$	VOCs (ton/yr)	$MERP_{VOC}$	$[O_3]_{8\text{-hour}}$

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.	
	Plume depletion and particle size distribution were not used because the emissions are low and result in compliance without any adjustments to emission rates or deposition parameters.	

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

5	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.				
	Pollutant	NO_X	SO_2		$[PM2.5]_{24\text{-hour}}$
	$MERP_{annual}$	130260	53898		0.0028645
	$MERP_{24\text{-hour}}$	42498	9753		$[PM2.5]_{annual}$
	Emission rate (ton/yr)	86.769	3.368		0.000146

16-N: Setback Distances – Not Applicable

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.
	This section not applicable. This modification is for a stationary source.
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.

16-O: PSD Increment and Source IDs – Not Applicable

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

2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.	Yes☐	No☐
3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?	Yes☐	No☐
4	Which units consume increment for which pollutants?		

Unit ID	NO_2	SO_2	PM10	PM2.5

5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).	

6	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☐	No☐

16-P: Flare Modeling – Not Applicable

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)

16-Q: Volume and Related Sources – Not Applicable

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines? If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☐	No☐
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		

4	Describe any open pits.
5	Describe emission units included in each open pit.

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: Del Norte High School (350010023)		
	PM2.5: Santa Fe (350490020)		
	PM10: Santa Fe (350490020)		
	SO_2: Bloomfield(350450009)		
	Other:		
	Comments:		
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. Choose an item.	Yes☐	No☒
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		
	The 2017, 2018, 2020, 2021, and 2023 LANL TA-6 meteorological tower data and cloud cover data from the Los Alamos airport were used in the dispersion modeling. Data processing for meteorological modeling files was performed by Trinity Consultants/BREEZE Consulting. The met data for 2019 and 2022 were not used because of data issues. For 2019, the Los Alamos airport cloud cover instrument went down for a big part of the year (~3500 hours). For January 2022, there was a wind data outage for all three vertical levels of the onsite station, totaling around 550 hours (~25% of the quarter). The U.S. EPA recommendation (or requirement in some regulatory circumstances) is that each quarter has no more than 10% missing data. The TA-6 tower is LANL's official weather station and is representative of the meteorological conditions at the facility. The TA-6 station consists of a 92-meter tower instrumented for wind and temperature at four levels and near-surface instrumentation for measuring temperature, moisture, pressure, precipitation, and surface energy balance terms. Surface data from all four levels of the tower for each calendar year was processed using		

	AERMET for input to the AERMOD model. The five years of processed data containing the profile and surface files were submitted to NMED on June 6, 2024, and approved on June 11, 2024.

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?		
	http://www.nationalmap.gov/ A national elevation dataset (NED) GeoTiff file for the modeling domain was downloaded. The dataset has a resolution of 1/3 arc-second (approximately 10 meters) and uses the North American Datum of 1983 (NAD83) UTM coordinate system.		

16-U: Modeling Files

Describe the modeling files:

	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
1	2024_CO_PowerPlantOnly	CO	1-hr and 8-hr - ROI/SIL
	2024_NO2_1-hr-PowerPlantOnly	NO2	1-hr ROI/SIL and Cumulative
	2024_NO2_Annual Conc. PowerPlantOnly	NO2	Annual ROI/SIL and Cumulative
	2024_SO2_1-Hr. Conc. PowerPlantOnly	SO2	1-hr ROI/SIL and Cumulative
	PP2024_PM2.5_NearbySources_24hr+Annual-CMRR_1stk	PM2.5	24-hr and Annual – ROI/SIL and Cumulative with Nearby Sources and MERP values
	2024_PM10_PowerPlant+NearbySources	PM10	24-hr and Annual - ROI/SIL and Cumulative with Nearby Sources
	LANL_1718202123.PFL	N/A	5-year modeling files including 2017, 2018, 2020, 2021, 2023
	LANL_1718202123.sfc	N/A	5-year modeling files including 2017, 2018, 2020, 2021, 2023

16-V: PSD New or Major Modification Applications - NOT APPLICABLE

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.		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		

	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☒
2	Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary. **Also, please see Attachment B for the full analysis of the results presented below.**		

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 (ft)
CO, 1-hr, SIL	39.109	Not Applicable	Not Applicable	Not applicable	Not applicable	2000	1.96%	381013.7	3971262.4	7410.2
CO 8-hr SIL	21.198	Not Applicable	Not Applicable	Not Applicable	Not applicable	500	4.24%	381258.8	3971207.2	7328.4
NO2 1-hr NAAQS	43.009	Not Applicable	Not Applicable	81.2	124.209	188.03	66.06%	381013.7	3971262.4	7344.58
NO2 annual NMAAQS	2.321	Not Applicable	Not Applicable	17.2	19.521	94.02	20.76%	381135.2	3971240.3	7335.2
SO2 1-hr NAAQS	37.275	Not Applicable	Not Applicable	10.1	55.185	196.40	28.10%	380887.9	3971262.4	7351.34
PM2.5 24-hr NAAQS	2.200	2.228	0.002864	9.2	11.425	35.00	32.64%	381013.7	3971262.4	7344.58
PM2.5 annual NAAQS	0.537	0.634	0.0001457	3.7	4.334	12.00	36.11%	381135.2	3971240.3	7335.2
PM10 24-hr NAAQS	5.443	10.351	Not Applicable	19	29.351	150	19.57%	381930.1	3970966.5	7327.5
PM10 annual NAAQS	0.640	2.662	Not Applicable	9.4	12.062	Not Listed	-	381930.1	3970966.5	7327.52

16-X: Summary/conclusions

	A statement that modeling requirements have been satisfied and that the permit can be issued.
1	The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. The two standby boilers will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel for up to 48 hours per year) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. The operation of the CGTC unit requires flexibility to operate at 80-100% load. The emissions for two scenarios were analyzed for a worst-case emissions scenario and AERMOD dispersion modeling demonstrated that the facility meets applicable federal and state ambient air quality standards. The toxic air pollutant, H_2SO_4, emissions are less than the threshold quantity for toxic air pollutant modeling and demonstrates that the New Mexico TAP regulations would be met. This significant permit revision does not include installation of any new equipment. The dispersion modeling requirements have been satisfied, and the power plant significant permit revision application has demonstrated that the NSR permit can be issued.

Attachment A

Comparison of NMED MergeMaster Source Data and the LANL Source Data

EPC-DO: 25-169

LA-UR: 25-25914

July 2025

Comparison of NMED MergeMaster download on June 6, 2024 and LANL source data

Grey highlighting denotes NMED data

NMED Source ID	Description	Source Data	Fuel Used	X-Coordinate	Y-Coordinate	Base Elev.	Stack Hgt.	Stack Temp.	Exit Diameter	Exit Velocity	Exit Flow	Notes
	Point Sources / Fuel Use for combustion units			**XS - meters**	**YS - meters**	**ZS - meters**	**HS - meters**	**TS - Kelvin**	**DS - meters**	**VS - m/s**	**FS - acm/s**	
	TA-03-0022 BOILER 2-STACK 1 / Natural Gas (NG)	S1		380786	3970798	2247.67	2.347	485.93	2.346	8.717	37.68	
Not Listed	Not Listed by NMED for TA-3-22-2 (gas) but listed for oil	TA-3-22-2										
	TA-03-0022 Boiler3 Stk2 / NG	S2		380809	3970800.49	2241	20.73	485.93	2.35	8.72	37.71	
856EQPT26	NMED Listing - TA-03-0022 Boiler 3 Stk2	TA-3-22-3		380511	3971187.16	0	20.73	486.15	2.35	8.72		
	AUX Boiler4 Stk3 / NG	S3		380869.1	3970793.67	2245	18.288	445.37	1.0668	15.2926	13.669	
See ID below	*NMED Power Plant Boiler (pph, Natural Gas)	TA-3-22-4		380510.609	3971187.158	0	20.73	486.15	2.35	8.72		
	AUX Boiler5 Stk4 / NG	S4		380868.1	3970799.69	2245	18.288	445.37	1.0668	15.2926	13.669	
	*NMED Power Plant Boiler (pph, Natural Gas)	TA-3-22-5		380510.6	3971187.16	0	20.73	486.15	2.35	8.72		
856EQPT170	*4&5 were combined but were separated for modeling	NMED data matches Boiler#3, but does not represent AUX.#4 and/or AUX#5										
	Combustion Turbine - CT-1 / NG	CT-1		380930.37	3970823.68	2241.59	17.98	767	3.44	22.43	209.01	
856EQPT112	NMED - TA-3-22-CT-1 Combustion Turbine	TA-3-22-CT-1		382875.92	3969463.44	0	17.98	767	3.44	22.43		
	Silo #1 Cement Unloading (as Point source)	LATMSIL1		381466	3971079	2191.35	10.67	293	1	1	0.7854	
	As Volume Source:						**RELHGT**	**SYINIT**	**SZINIT**			
3469ACT 3	NMED - Silo #1 Cement Unloading	3		381924.8	3970924.9	0	1	0.47	0.93			
	Silo #2 Cement Unloading (as Point source)	LATMSIL2		381466	3971079	2191.35	10.67	293	1	1	0.7854	
	As Volume Source:						**RELHGT**	**SYINIT**	**SZINIT**			
3469ACT 4	NMED - Silo #2 Cement Supplement Unloading	4		381913	3970915.9	0	1	0.47	0.93			
	TA-35-213-1 Be Target Fabrication Facility Stack S9 Lathes	TA35B213S9		382773	3969610	2240.3	21.79	294.3	0.3048	7.4066	0.54	
	As Volume Source:						**RELHGT**	**SYINIT**	**SZINIT**			
856ACT 2	NMED - Beryllium Activity-Target Fabrication Facility - Machining	TA-35-213-1		382882.7	3969475.9	0	10	90	90.3			
	TA35 B-213 Sputter Coating Stack 8	TA35B213S8		382770	3969613	2240.3	21.79	294.3	0.61	14.417	4.2078	
Not Listed	NMED - No Listing in download											
	Permit No. 634-M-1 Issued 1997 for Be operations	TA3B141		381190	3970300	2246.4	15.24	294.3	1.524	14.3256	26.132	
	As Volume Source:						**RELHGT**	**SYINIT**	**SZINIT**			
856ACT 3	NMED - Beryllium Activity-Technology Facility - Machining TA-3-	TA-3-141		382890.2	3969483	0	10	90	9.3			
	Sellers Boiler TA-55-6-BHW-1 / NG	TA55BHW1		386010.4	3970187.3	2141.4	9.08	297.6	0.3048	0.000305	2.23E-05	with Raincap
856EQPT29	NMED - Sellers Boiler TA-55-6-BHW-1	TA-55-6-BHW-1		386010.4	3970187.3	0	9.08	297.6	0.3	28		
	Sellers Boiler TA-55-6-BHW-2 / NG	TA55BHW2		386010.4	3970192.3	2141.4	9.08	297.6	0.3048	0.000305	2.23E-05	with Raincap
856EQPT30	NMED - Sellers Boiler TA-55-6-BHW-2	TA-55-6-BHW-2		386010.4	3970192.3	0	9.08	297.6	0.3	28		
	Boiler TA-53-365-BHW-1 (Sellers 15 Seniors-2-200-w) / NG	TA53BHW1		386010.4	3970187.3	2141.4	6.71	297.6	0.3048	0.000305	2.23E-05	with Raincap
856EQPT11	NMED - Boiler TA-53-365-BHW-1	TA-53-365-BHW-1		386010.4	3970187.3	0	6.71	297.6	0.3	28		
	Boiler TA-53-365-BHW-2 / NG	TA53BHW2		386010.4	3970192.3	2141.4	6.71	297.6	0.3048	0.000305	2.23E-05	with Raincap
856EQPT12	NMED - Boiler TA-53-365-BHW-2	TA-53-365-BHW-2		386010.4	3970187.3	0	6.71	297.6	0.3	28		
	TA16_1484BS1 / NG	TA16-1484BS1		378934	3967306	2302.5	6.4	297.6	0.3048	0.000305	2.23E-05	with Raincap
856EQPT134	NMED - Low NOx Boiler TA-16-1484-BS-1	TA-16-1484-BS-1		380510.6	3971187.2	0	6.4	297.6	0.3	27		
	Low NOx Boiler TA-16-1484-BS-2 / NG	TA16-1484BS2		378934	3967306	2302.5	6.4	297.6	0.3048	0.000305	2.23E-05	with Raincap
856EQPT53	NMED - Low NOx Boiler TA-16-1484-BS-2	TA-16-1484-BS-2		380210.6	3971187.2	0	6.4	297.6	0.3	27		
	The following CMRR-BHW boilers exhaust through one stack and the exhaust parameters are listed as follows:											
	Consolidated BHW 1-2-3-4 for one stack / NG	CMR_BHW_ALL		382454	3969372	2205.8	18.3	483.15	1.13	8.69	8.68	

The following location coordinates for BHW1-BHW4 are incorrect for both LANL and NMED.

	Boiler-CMRR-BHW-1 / NG	CMR_BHW1	382995.4	3969200.8	2205.8	18.3	483.15	1.13	8.69	
856EQPT90	NMED - Boiler-CMRR-BHW-1	RLUOB-BHW-1 (gas)	382877.5	3969488.2	0	18.3	483.15	1.13	8.69	
	Boiler-CMRR-BHW-2 / NG	CMR_BHW2	383005.4	3969190.8	2205.8	18.3	483.15	1.13	8.69	
856EQPT104	NMED - Boiler-CMRR-BHW-2	RLUOB-BHW-2 (gas)	382872.6	3969480.4	0	18.3	483.15	1.13	8.69	
	BOILER CMRR-BHW-3 / NG	CMR_BHW3	383000.4	3969190.8	2205.8	18.3	483.15	1.13	8.69	
856EQPT105	NMED - Boiler-CMRR-BHW-3	RLUOB-BHW-3 (gas)	382864.5	3969480.4	0	18.3	483.15	1.13	8.69	
	Boiler-CMRR-BHW-4 / NG	CMR_BHW4	382995.4	3969190.8	2205.8	18.3	483.15	1.13	8.69	
856EQPT106	NMED - Boiler-CMRR-BHW-4	RLUOB-BHW-4 (gas)	382870.3	3969481.5	0	18.3	483.15	1.13	8.69	
Not Applicable	BOILER CMRR	CMRR_BLR	382995.4	3969195.8	2205.8	10.06	410.93	0.76	6.31	
856EQPT107	NMED - Boiler-CMRR (B-5 source was removed from permit)	B-5	382869.5	3969471.5	0	10.06	410.93	0.76	8.69	
	TA-33-G-1P Cummins Portable Diesel Generator	TA33G1P	382877.5	3969488.2	2205.8	4.33	797.04	0.2	56.39	1.851
856EQPT146	NMED - Cummins Portable Diesel Generator	TA-33-G-1P	382880.9	3969491.5	0	4.33	797.04	0.2	56.39	
	TA-33-G-2 Kohler Diesel Generator TA-33, TA-36, TA-39	TA33G2	387418.0	3959742.0	1970.5	0.61	811.15	0.03	0.001	7.31E-07
856EQPT119	NMED - Kohler Diesel Generator TA-33, TA-36, TA-39	TA-33-G-2	382866.1	3969466.7	0	0.61	297.59	0.3	28	
	TA-33-G-3 Kohler Diesel Generator TA-33, TA-36, TA-39 2195-P	TA33G3	387418	3959742	1970.5	0.61	811.15	0.03	0.001	7.30E-05
856EQPT119	NMED - Kohler Diesel Generator TA-33, TA-36, TA-39	TA-33-G-3	382886.3	3969461.9	0	0.61	297.59	0.3	28	
	Welding Booth Fume Extraction System - 10 booths	WELDING	382876.6	3969495.8	2205	7	297.59	0.3	28	1.98
856RPNT42	NMED - Welding booths (10)	Welding Booths	382886.1	3969454.2	0	7	730	0.3	28	
	Asphalt Plant Dryer / NG	ASPDRYER	383430	3969940	2186	10.0	343.15	0.7385	23.9	10.33
	As Volume Source:					**RELHGT**	**SYINIT**	**SZINIT**		
856AREA5	NMED - ADM Asphalt Plant	GCP3-2195G	382883.4	3969486.5	0	10	340	9.3		
Removed in 2011	Aquilex HydroChem - Wastewater Evaporator- Boiler	AQUILEX	382840.53	3969587.32	2205	4.57	477.59	0.43	28	
Not permitted by LANL	NMED - Boiler System	002	382840.53	3969587.32	0	4.57	477.59	0.43	28	
	Caterpillar Diesel Generator and Shredder	TA-36-GEN1	384519.2	3965843.8	2099.16	1.89	744	0.1524	14.59	0.266 Vert. w/Raincap
856EQPT178	NMED - Caterpillar Diesel Generator and Shredder	TA-36	382861.8	3939471.1	0	7	730	0.3	28	
	Volume Sources					**RELHGT**	**SYINIT**	**SZINIT**		
	LATM Haul Road	LATMV1	381924.1	3970914.3	2235.5	1	32.31	3.05		
3469AREA3	NMED - Haul Roads	8	381921.6	3970902.8	0	1	0.47	0.93		
	LATM Central Mixer	LATMV2	381924.1	3970919.3	2235.5	1	106	3.05		
3469ACT 5	NMED - Central Mixer Loading	6	381921.6	3970907.7	0	1	0.47	0.93		
	LATM Weigh Hopper	LATMV3	381929.1	3970919.1	2235.5	9.14	1.52	1.52		
3469EQPT7	NMED - Weigh Hopper Loading	5	381917.2	3970922.8	0	1	0.47	0.93		
	LATM Loading Aggregate bin	LATMV4	381929.1	3970914.3	2235.5	3.05	4.57	3.05		
3469ACT 1	NMED - Loading Aggregate Bin	1	381924.1	3970914.3	0	1	0.47	0.93		
	LATM sand transfer point	LATMV5	381929.1	3970909.3	2235.5	3.05	1.52	1.52		
3469ACT 2	NMED - Sand Transfer (Loading)	2	381924.1	3970914.3	0	1	0.47	0.93		
	TA-52-11 Data Disintegrator 2003	TA52DATA	382870.5	3969486.3	2211.63	10	20	9.3		
856EQPT89	NMED - Data Disintegrator/industrial Shredder	TA-52-11	382887.2	3969488.1	0	10	20	9.3		

Attachment B

LANL Power Plant AERMOD Modeling Results

EPC-DO: 25-169

LA-UR: 25-25914

July 2025

			Limit	Concentration based on Guideline Standards	Footnote	Receptor Coordinates		Elevation		ROI	Backgrd. Conc.	Cumulative Concentration	PM2.5 MERP Addition	PM2.5 Cumulative Concentration adding MERP	Reported Concentration Percent of Standard
POLLUTANT	**Avg. period**	**Standard**	**µg/m³**	**µg/m³**		**East-m**	**North-m**	**meters**	**feet**	**m**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**%**
CO	1-hr	SIL	2000.00	39.109	1	381013.70	3971262.40	2258.52	7410.204						1.96%
Cum.Analysis?	NO	NMAAQS	14997.50								N/A	N/A	N/A	N/A	
CO	8-hr	SIL	500.00	21.198	1	381258.80	3971207.20	2233.58	7328.376						4.24%
CO	8-hr	NMAAQS	9960.10								N/A	N/A	N/A	N/A	
NO2	1-hr	SIL	7.52	53.619	1	380887.9	3971262.4	2240.58	7351.343	13836.7					
Cum.Analysis?	YES	NAAQS	188.03	43.009	2	381013.7	3971262.4	2238.52	7344.584		81.2	124.2087	N/A	N/A	66.06%
NO2	Annual	SIL	1.00	2.321	1	381135.2	3971240.3	2235.66	7335.2	1094.7					
		NMAAQS	94.02								17.2	19.521	N/A	N/A	20.76%
SO2	1-hr	SIL	7.80	45.085	1	380887.9	3971262.4	2240.58	7351.34	10782.3					
Cum.Analysis?	YES	NAAQS	196.40	37.275	3	380887.9	3971262.4	2240.58	7351.34		10.1	55.185	N/A	N/A	28.10%
PM2.5	24-hr	SIL	1.20	3.582	1	380779.7	3971216	2243.84	7362.04	1075.4					
Cum.Analysis?		NAAQS	35.00	2.228	2	381013.7	3971262.4	2238.52	7344.58		9.2	11.428	0.002864	11.430544	32.66%
PM2.5	Annual	SIL	0.20	0.634	1	381135.2	3971240.3	2235.66	7335.2	5496.4					
Cum.Analysis?		NAAQS	12.00								3.7	4.334	0.0001457	4.3342	36.12%
PM10	24-hr	SIL	5.00	12.189	1	381930.1	3970966.5	2233.32	7327.52	1230.2					
Cum.Analysis?		NAAQS	150.00	10.351	4	381930.1	3970966.5	2233.32	7327.52		19	29.351	N/A	N/A	19.57%
PM10	Annual	SIL	1.00	2.662	1	381930.1	3970966.5	2233.32	7327.52	1230.2					
Cum.Analysis?		NAAQS	Not Listed								9.4	12.062	N/A	N/A	N/A

1. Highest concentration result
2. 98th percentile concentration
3. 99th percentile concentration
4. High-second-high concentration

N/A - not applicable

Attachment 2

Public Notice Postings and Verification

EPC-DO: 25-169

LA-UR: 25-25914

July 2025

LANL POWER PLANT BULLETIN BOARD

PUBLIC NOTICE

20.2.72 NMAC – General Permits, Section 220.A(2)(b)ii

NOTICE

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LOS ALAMOS U.S. POST OFFICE

P.O.Box Information

Size				Semi-Annual	Availability
4”	x	6”	$		available
6”	x	6”	$		available
6”	x	12”	$		available
12”	x	12”	$		available

PUBLIC NOTICE

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LOS ALAMOS
ASSISTED LIVING

JOIN OUR TEAM!

LOCATED AT 1010 SOMBRILLO CT. LOS ALAMOS, NM 87544

POSITIONS:

- Dietary Aide
- Resident Aide (Nights)
- Resident Aide (Days)
- ADON (LPN)

Scan QR code

PLEASE TAKE A NUMBER AND CALL IF INTERESTED, WILLING TO DO A RAPID HIRE ON APPLICATION AND INTERVIEW IS COMPLETE

505-538-5266 505-538-5266 505-538-5266 505-538-5266 505-538-5266 505-538-5266 505-538-5266 505-538-5266 505-538-5266 505-538-5266

LAHS Olions presents
A Summer Theatre Camp

June 30-July 3, 2025
9AM-3PM
For incoming 5th-9th graders
$200 per attendee
lahsolions.org

LOS ALAMOS PUBLIC LIBRARY

LOS ALAMOS

he Science of Tea:
Boston Tea Party
y, June 22
-4:00pm
y Ehart
tivity Center
thtub Row
Tickets $10
Discover...
the connections
between **science**
& **social change**
Savor five unique teas
expertly paired
with refreshments
aveling, global adventure beginning in 18th century North America.
Creative costumes encouraged!
Los Alamos
RETIRED & SENIOR ORGANIZATION
SAMIZDAT BOOKSTORE & TEAHOUSE
the Y

Free American
Smooth Tango
Lessons
June 2nd, 9th, 16th, 23rd,
& 30th
7:00 to 9:00 pm
Monday Night Ballroom
Betty Ehart Senior Center
No Partners Required

ART IN PUBLIC PLACES BOARD
Justice Center Wall
Art Project Survey
Share Your Creative Vision
SCAN
LOS ALAMOS
Community Services
Join us in shaping a **glass tiled mosaic project for the Justice Center wall!** We want your feedback on themes like Local Flora & Fauna and Cultural References to reflect our unique community. **Survey open through June 22nd, 2025**

Keep up to date with all of our awesome events
Scan me!
Or use the link below:
https://laconm.libcal.com/calendar/events
LOS ALAMOS
Where discoveries are made
losalamoslibrary.org
libweb@laconm.us
(505) 662-8250

21 JUNE
BATHTUB ROW BREWING CO-OP 6-9PM
Heather
& THE BAD BREAKS
LIVE MUSIC & CRAFT BEER
153 CENTRAL PARK SQUARE, LOS ALAMOS, NM.

SCIENCE FEST
POWERED BY LOS ALAMOS MAINSTREET
JUNE 20-28 2025
FRIDAY NIGHT CONCERT
JUNE 20, 6-9 PM, ASHLEY POND PARK
FRIDAY NIGHT MARKET
JUNE 20, 5-9 PM, ASHLEY POND PARK
DISCOVERY DAY
JUNE 21, 9 AM-2 PM, ASHLEY POND PARK
TUESDAY NIGHT CONCERT
JUNE 24, 6-8 PM, CENTRAL PARK SQUARE
DISCOVERY AFTER DARK
JUNE 28, 4-9 PM, DOWNTOWN LOS ALAMOS
How to Participate:
- Host an interactive booth!
- Volunteer!
- Lead a Workshop!
- Sponsor an event!
www.LosAlamosScienceFest.com

PUBLIC NOTICE
20.2.72 NMAC – General Permits, Section 220.A(2)(b)ii

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Call For Art
Projection and Confession: Self-Portraits
You are invited to create a self-portrait
for Step Up Gallery's
"Projection and Confession: Self-Portraits."
The exhibit will run from **September 18 through October 18, 2025**. This is not a juried show. We plan to accept the **first 50 applications**, whether you already have created a self-portrait you'd like to submit, or you are just forming an idea for a self-portrait.
Fill-out the Application to Self-Portrait Show Fillable Form which will reserve a spot for your entry. Then email the completed form to Diane Stoffel at diane@stepupgallery.org with your last name added to the file name. You may **download that form** on Step Up Gallery's webpage: https://stepupgallery.org /call-for-art/ or click on the QR Code below.
We'd prefer you create a brand new self-portrait, but if you wish to submit one already completed, we have no objection. **Please consider your application a promise to have your self-portrait completed and ready to hang in Step Up Gallery by-**
Saturday, Sept. 13, 10am- 2pm OR Monday, Sept. 15, 10am- 2pm.
You may present yourself in **2-D** form or **3-D** form including ceramics!
See the full Call For Art for details!
Please use your smart phone camera and follow prompts to download Call for Art and the fillable application.
Step Up Gallery
at MESA PUBLIC LIBRARY
2400 Central Ave, Los Alamos

Community

Your STATE OF SCIENCE

NG MASS
CTIONS
19, 7:00pm
ller Lodge
of Paleontology at the New
tory and Science, will present
ethinking Mass Extinctions",
erspective on one of Earth's
ts. Drawing from decades of
s conventional thinking by
arguments surrounding mass
ning of the museum's newly
Life," which showcases
cross New Mexico over the
es the evolution of life and
c Era, spanning back nearly
he New Mexico Consortium,
The J. Robert Oppenheimer
IROMC
SCIENCE FEST
5/27 KW

ART IN PUBLIC PLACES BOARD

Justice Center Wall Art Project Survey



Share Your Creative Vision

SCAN

LOS ALAMOS Community Services

Join us in shaping a **glass tiled mosaic project for the Justice Center wall!** We want your feedback on themes like Local Flora & Fauna and Cultural References to reflect our unique community. **Survey open through June 22nd, 2025**

The Most
WUTHERING HEIGHTS
Day Ever

10 AM Saturday July 19th 2025
Ashley Pond
2300 Trinity Drive
Los Alamos, NM 87544



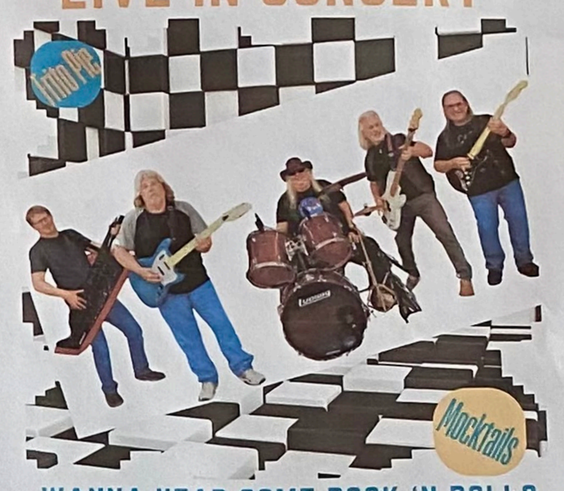
Registration & More Information:

Presented with kind permission from our Wuthermuthers, Shambush.
Global facilitator and organizer is Samantha Wareing.

#TMWHDE25 #TheMostWutheringHeightsDayEver
#WutheringHeights #Shambush #KateBush #RedDress
#TheMostWutheringHeightsDayEverLosAlamos #Cathy

sites.google.com/view/tmwhde-los-alamos-2025

HIGH MESA PLAYERS
LIVE IN CONCERT



WANNA HEAR SOME ROCK 'N ROLL?
LISTEN - DANCE - ENJOY
$10/PERSON DONATION TO FOSC
SAT, JUNE 21, 2025
(7-9PM)
DOORS OPEN AT 6:30
CROSSROADS, 97 EAST RD, LA

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15
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*no meet

UR OLD
ORDS!!
eggae, etc.
albums $$
n Francisco St
939

FSN

JUNE 2025

Contact us:
fsn@lafsn.org
505-662-4515

SUN	MON	TUES	WED	TH	FRI	SAT
1	2 Birth Talk 6:30 to 8:00 PM	3 Chit Chat Playtime 9:30–10:30 AM	4 Toddler Tunes 10:30–11 AM	5	6	7
8	9 Grandparents & Kin Raising Children Support Group 5:30–7 PM	10 Chit Chat Playtime 9:30–10:30 AM	11 Move With Me 10–11 AM	12	13	14 Family Yoga 10–11 AM
15	16	17 Chit Chat Playtime 9:30–10:30 AM	18 Toddler Craft 10–11 AM	19	20 Summer Splash 10AM – 12PM Toy Library items DUE	21 Summer Splash 10AM – 12PM
22	23	24 Chit Chat Playtime 9:30–10:30 AM	25	26	27	28 FSN Closed June 28– July 31
29	30 Loving Trans Family Together Support Group 6:15 PM–7:30 PM	FSN Closed June 28– July 31				

Hours: Tuesday/Wednesday/Thursday/Friday 9 AM to 1 PM Saturday: 9 AM to 3 PM Closed Sunday & Monday

Follow us: @familystrengthsnetwork

UKULELE CRASH COURSE
IN LOS ALAMOS



KIDS: MONDAYS AND WEDNESDAYS AT 3PM IN JULY
ADULTS: MONDAYS AND WEDNESDAYS AT 6PM IN JULY

For more info or to register, call/text Madeline at 504.402.6995
or email madelinethibodeaux86@gmail.com

FOR SALE BY OWNER

5045 Carriage House Dr., Los Alamos, NM 87544



2,334 sq. ft. "Quemazon" Townhouse - 4 BR, 2.5 Bath, 2-Car Garage, w/Rocky Mountain Views From Balconies, Slate Tile Throughout the Single-level-1st Floor & Hardwood Floors Throughout Entire 2nd Floor-Including Staircase. Free #4 Bus Stop-Out the Back Porch Gate. "Great Rental or Investment Property"

"Must Be Pre-Qualified/Pre Approved"

$689,000.00

Text Inquiries to: (720)-244-7898

"No Brokers or Agents Please"

FAMILY STRENGTHS NETWORK

SUMMER Splash

JUNE 20 & 21
10AM – 12PM

FSN - 3540 Orange St. Los Alamos

SPLASH POOLS, SPRINKLERS, SLIP 'N SLIDE, LAWN GAMES, SIDEWALK CHALK, CRAFT, AND ICE CREAM

LOS ALAMOS
UNITED WAY Northern New Mexico
FAMILY STRENGTHS NETWORK fsn

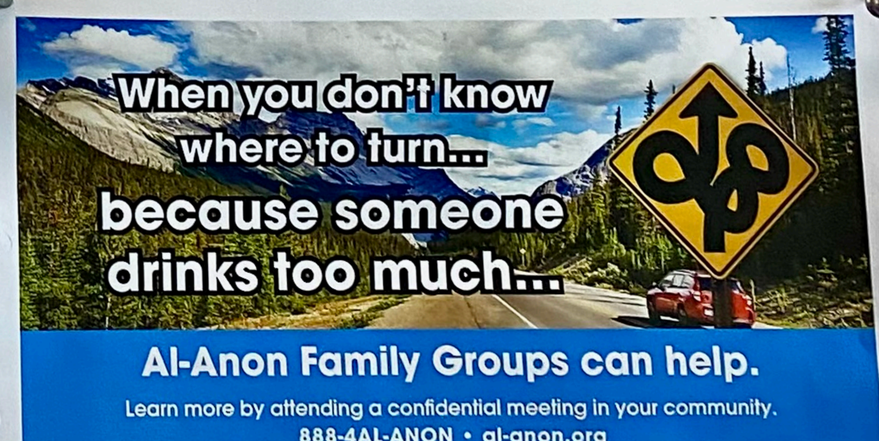
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Al-Anon Family Groups can help.

Learn more by attending a confidential meeting in your community.
888-4AL-ANON • al-anon.org

More information from the World Service Website

Local Meetings at the Unitarian Church of Los Alamos

Los Alamos Al-Anon Family Group
Women's Circle of Hope

Find a local meeting from the World Service Website

INESS AN ECONOMICAL WAY
h the Secretary of State Office for $5
do this for you. You can get
ved by the Secretary of
like a social security
nd yourself on a website
DC can help you with

Attachment 3

Public Service Announcement

EPC-DO: 25-169

LA-UR: 25-25914

July 2025

LANL Power Plant Air Quality Permit

Public Service Announcement

The following announcement is a requirement of New Mexico air quality regulations.

Los Alamos National Laboratory will be applying to the New Mexico Environment Department in June 2025 for a significant permit revision to the existing power plant air quality permit (2195B-M3R4). The facility, known as Technical Area 3 Power Plant, is located at TA-3, SM-22 on Diamond Drive in LANL. Public notices regarding the proposed revision are posted in the LANL Electronic Public Reading Room, at the facility at TA-3, the Los Alamos Public Library, and the White Rock Public Library.

Channels (Placed)	Spot Status	Spot #	Air Time	Day	Air Date	Weekdays	Length	Spot Type	Ad-ID
KKOBA	Placed	1	4:46 AM	F	06/13/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KKOBA	Placed	4	2:05 AM	F	06/13/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KKOBA	Placed	2	12:30 AM	Sa	06/14/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KKOBA	Placed	3	2:52 AM	Su	06/15/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KKOBA	Placed	5	3:53 AM	Su	06/15/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KKOBA	Placed	6	6:52 AM	M	06/16/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KKOBA	Credited	7		M	06/16/25	MT--------	:30	NM	
KKOBA	Placed	10	1:30 AM	M	06/16/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KKOBA	Placed	9	3:30 AM	Tu	06/17/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KKOBA	Placed	8	4:12 AM	Tu	06/17/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611

Channels (Placed)	Spot Status	Spot #	Air Time	Day	Air Date	Weekdays	Length	Spot Type	Ad-ID
KMGA	Credited	5		Su	06/15/25	-----FSaSu	:30	NM	
KMGA	Credited	4		Su	06/15/25	-----FSaSu	:30	NM	
KMGA	Credited	3		Su	06/15/25	-----FSaSu	:30	NM	
KMGA	Credited	2		Su	06/15/25	-----FSaSu	:30	NM	
KMGA	Credited	1		Su	06/15/25	-----FSaSu	:30	NM	
KMGA	Placed	10	12:45 AM	M	06/16/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KMGA	Credited	9		Tu	06/17/25	MT--------	:30	NM	
KMGA	Credited	6		Tu	06/17/25	MT--------	:30	NM	
KMGA	Credited	7		Tu	06/17/25	MT--------	:30	NM	
KMGA	Credited	8		Tu	06/17/25	MT--------	:30	NM	

Channels (Placed)	Spot Status	Spot #	Air Time	Day	Air Date	Weekdays	Length	Spot Type	Ad-ID
KOBQ	Placed	4	2:45 PM	Sa	06/14/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KOBQ	Credited	1		Sa	06/14/25	-----FSaSu	:30	NM	
KOBQ	Placed	2	12:50 AM	Sa	06/14/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KOBQ	Placed	3	3:23 AM	Su	06/15/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KOBQ	Placed	5	3:14 PM	Su	06/15/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KOBQ	Placed	10	3:24 AM	M	06/16/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KOBQ	Placed	7	10:02 PM	Tu	06/17/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KOBQ	Credited	8		Tu	06/17/25	MT--------	:30	NM	
KOBQ	Credited	9		Tu	06/17/25	MT--------	:30	NM	
KOBQ	Credited	6		Tu	06/17/25	MT--------	:30	NM	

Channels (Placed)	Spot Status	Spot #	Air Time	Day	Air Date	Weekdays	Length	Spot Type	Ad-ID
KTBLA	Placed	2	1:20 PM	Sa	06/14/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	4	6:19 AM	Sa	06/14/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	1	9:34 AM	Sa	06/14/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	5	7:19 AM	Sa	06/14/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	3	8:19 AM	Sa	06/14/25	-----FSaSu	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	7	5:46 AM	M	06/16/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	6	1:51 AM	M	06/16/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	10	12:46 AM	M	06/16/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	9	3:45 AM	Tu	06/17/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611
KTBLA	Placed	8	2:49 AM	Tu	06/17/25	MT--------	:30	NM	CCC_LANAL - 60644_JC_0611

Attachment 4

Classified, Legal and Display Ads

EPC-DO: 25-169

LA-UR: 25-25914

July 2025

NEWS

Community Urged To Support National Association Of Letter Carriers Annual Food Drive To Stamp Out Hunger Saturday!



By MJ BUSTAMANTE
Food Drive Coordinator
NALC Branch 4112

This Saturday May 10 marks the 32nd anniversary of the largest one-day food drive in the nation – the National Association of Letter Carriers Stamp Out Hunger® Food Drive.

Letter carriers are in the communities they serve every day and often come face to face with a sad reality for too many: hunger. Each year on the second Saturday in May, letter carriers across the county collect non-perishable food donations from our customers.

Over the course of its 32-year history, the drive has collected well over 1.9 billion pounds of food, thanks to a postal service's universal delivery network that spans the entire nation, including Puerto Rico, Guam and the U.S. Virgin Islands.

The donations in Los Alamos and White Rock go directly to local food pantries to provided needed food to people in Northern New Mexico who need our help.

The need is great, but you can help. More than 47 million Americans are unsure where their next meal will come from. More than 13 million are children who feel hunger's impact on their overall health and ability to perform in school. Nearly 5.5 million seniors over age 60 are food insecure, with many who live on fixed incomes often too embarrassed to ask for help.

Our food drive's timing is crucial. Food banks and pantries often receive the majority of their donations during the winter holiday seasons. By springtime, many pantries are depleted, entering the summer low on supplies at a time when many school breakfast and lunch programs are not available to children in need.

Participating in this year's Letter Carriers Stamp Out Hunger® Food Drive is simple. Just leave non-perishable food donations in a bag by your mailbox Saturday, May 10, and your letter carrier will do the rest or you can take it to the First United Methodist Church at 715 Diamond Drive in Los Alamos. With your help, letter carriers and the US Postal Service anticipate they will surpass over 2 billion total pounds of food collected in the United States in its proud history over the 32 years as a national food drive. Please help us in our fight to Stamp Out Hunger. If you have any questions or would like to volunteer your help, contact me at 505.412.3216.

Overflow Crowd Turns Out For Laboratory Retiree Breakfast



An overflow crowd of Los Alamos National Laboratory retirees (and potential retirees) gathered at the Laboratory Retiree Group's (LRG) monthly breakfast social Tuesday morning at Muy Salsas at 1315 Trinity Drive. All laboratory retirees may join LRG. Learn more at https://lalrg.org. Courtesy/Morrie Pongratz

Los Alamos NATIONAL LABORATORY

Newspaper Public Service Announcement (published in English and Spanish)

The following announcement is a requirement of New Mexico air quality regulations.

Los Alamos National Laboratory will be applying to the New Mexico Environment Department in June 2025 for a significant permit revision to the existing power plant air quality permit (2195B-M3R4). The exact location for the facility known as Technical Area 3 Power Plant is at TA-3, SM-22 on Diamond Drive in the Los Alamos National Laboratory. The approximate location of this facility is 1 mile south of the intersection of Diamond Drive and Trinity Drive in Los Alamos County. The TA-3 Power Plant is currently permitted to operate boilers to produce st=eam for use as a heating source in approximately 40 buildings in TA-3 and a Combustion Gas Turbine Generator (CGTG) that produces electricity. The Laboratory is owned by the Department of Energy and operated by Triad National Security, LLC.

For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase 1 of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5, each rated at a capacity of 72.3 MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG), TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two auxiliary boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electrical and steam generation.

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.

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)	11.161 pph*	9.383 tpy*
PM10	11.161 pph*	9.383 tpy*
PM2.5	9.207 pph*	9.336 tpy*
Sulfur Dioxide (SO2)	26.503 pph*	3.384 tpy*
Nitrogen Oxides (NOx)	59.465 pph*	87.199 tpy*
Carbon Monoxide (CO)	49.718 pph*	97.449 tpy*
Volatile Organic Compounds (VOC)	3.206 pph*	4.512 tpy*
Total sum of all Hazardous Air Pollutants (HAPs)	1.428 pph	2.381 tpy
Toxic Air Pollutant (TAP)	0.318 pph	-
Green House Gas Emissions as Total CO2e	-	320,448 tpy

* Estimated hourly and annual start up, shut down and maintenance emissions have been added per public notice requirements. The standard and maximum operating schedules will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The operator and owner of the Facility is: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, New Mexico, 87545, operator of Los Alamos National Laboratory for the U.S. Department of Energy, 3747 West Jemez Road, Los Alamos, NM 87544. Please direct questions for the Laboratory to the Environmental Communication & Public Involvement Office point of contact, Steve Horak, at 505-551-4514, envoutreach@lanl.gov, or Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Alamos, New Mexico 87545.

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.

Anuncio de Servicio Público en Periódico (publicado en inglés y español)

El siguiente anuncio es un requisito formal según las regulaciones de calidad del aire de Nuevo México.

El Laboratorio Nacional de Los Alamos solicitará al Departamento de Medio Ambiente de Nuevo México en junio de 2025 una importante modificación de la actual licencia de calidad del aire de la planta de energía (2195B-M3R4). La ubicación exacta de la instalación, conocida como Planta de Energía del Área Técnica 3, es TA-3, SM-22 en Diamond Drive, en el Laboratorio Nacional de Los Álamos. La ubicación aproximada de esta instalación es 1 milla al sur de la intersección de Diamond Drive y Trinity Drive, en el Condado de Los Álamos. Actualmente la Planta de Energía TA-3 tiene licencia para operar calderas para la producción de vapor para ser utilizado como fuente de calefacción en aproximadamente 40 edificios en TA-3, y un Generador de Turbina de Combustión de Gas (GTCG) que produce electricidad. El laboratorio es propiedad del Departamento de Energía y es operado por Triad National Security, LLC.

Como parte de esta importante modificación de la licencia, se prevé apagar únicamente la caldera existente TA-3-22-1 durante la Fase 1 de la Licencia 2195B-M3R4. Las calderas TA-3-22-2 y TA-3-22-3 (Calderas #2 y #3) continuarán en funcionamiento, cada una con una capacidad de 178.5 MMBtu/hr. La construcción e instalación de dos nuevas calderas auxiliares, números de unidad TA-3-22-4 (Caldera #4) y TA-3-22-5 (Caldera #5), cada una con una capacidad de 72.3 MMBtu/hr, se completó como parte de la licencia 2018 NSR. El Generador de Turbina de Combustión de Gas (GTCG) TA-3-22-CT-1, no se convertirá en un sistema de Calor y Energía Combinados, y la Fase 3, tal como está actualmente autorizada para construcción, no se completará. La modificación también solicita que la turbina de combustión continúe operando en un rango de carga entre el 80% y el 100%. La infraestructura dentro de la planta de energía principal consistirá de dos calderas viejas y de 178.5 MMBtu cada una, dos calderas auxiliares de 72.3 MMBtu/hr cada una, y la turbina de combustión existente para generación de electricidad y vapor.

El objetivo de esta importante modificación de la licencia para la Planta de Energía TA-3 del LANL es solicitar una flexibilidad operativa que permita que las dos calderas existentes (Calderas #2 y #3), instaladas en la década de 1950, sirvan como calderas de respaldo para las dos calderas auxiliares más nuevas. Las Calderas #2 y #3 no estarán completamente operativas al mismo tiempo. Cada una de las cuatro calderas quema gas natural (el aceite combustible se usa solo como combustible de respaldo) para producir vapor. La GTGC es una turbina de ciclo simple que utiliza gas natural y produce sólamente energía eléctrica. Esta importante modificación de la licencia no incluye la instalación de ningún equipo nuevo. La flexibilidad operativa solicitada para operar las cuatro calderas y la turbina en varios escenarios operativos da como resultado emisiones diferentes a las estimaciones originales de la Fase 1. En general, no habrá cambios en el estatus principal/secundario de la instalación según los requisitos de PSD y Título V.

Las cantidades máximas estimadas de cualquier contaminante atmosférico regulado serán las siguientes, en libras por hora (pph) y toneladas por año (tpy), y podrían cambiar ligeramente durante la revisión del Departamento:

Contaminante (tpy)	Libras por hora (pph)	Toneladas por año
Material Particulado (PM)	11.161 pph*	9.383 tpy*
PM10	11.161 pph*	9.383 tpy*
PM2.5	9.207 pph*	9.336 tpy*
Dióxido de Azufre (SO2)	26.503 pph*	3.384 tpy*
Óxidos de Nitrógeno (NOx)	59.465 pph*	87.199 tpy*
Monóxido de Carbono (CO)	49.718 pph*	97.449 tpy*
Compuestos Orgánicos Volátiles (VOC)	3.206 pph*	4.512 tpy*
Suma total de todos los contaminantes de aire peligrosos (HAPs)	1.428 pph	2.381 tpy
Contaminante Tóxico del Aire (TAP)	0.318 pph	-
Emisiones de Gases de Efecto Invernadero como CO2e total	-	320,448 tpy

* Las emisiones estimadas por hora y anuales incluyen arranque, apagado y mantenimiento, según lo requieren los avisos públicos.
Los horarios de operación estándar y máximos serán de 24 horas al día, 7 días a la semana, y un máximo de 52 semanas al año.

El operador y propietario de la instalación es: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, Nuevo México, 87545, operador del Laboratorio Nacional de Los Álamos para el Departamento de Energía de EE. UU., 3747 West Jemez Road, Los Álamos, NM 87544. Para consultas al Laboratorio, comuníquese con la Oficina de Comunicación Ambiental y Participación Pública, con atención a Steve Horak, al 505-551-4514, envoutreach@lanl.gov, o Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Álamos, Nuevo México 87545.
Si tiene comentarios sobre la construcción u operación de esta instalación y desea que sus comentarios se incluyan en el proceso de revisión de la licencia, debe enviarlos por escrito a la siguiente dirección: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Otros comentarios y preguntas pueden enviarse verbalmente al (505) 476-4300; 1 800 224-7009.
Con sus comentarios, por favor indique el nombre de la compañía y el nombre de la instalación, o envíe una copia de este aviso junto con sus comentarios. Esta información es necesaria ya que el Departamento podría no haber recibido aún la solicitud de permiso. Incluya una dirección de devolución legible. Una vez que el Departamento haya completado su revisión preliminar de la solicitud y sus impactos en la calidad del aire, el aviso del Departamento se publicará en la sección legal de un periódico distribuido cerca de la ubicación de la instalación.

LEGALS

Anuncio de Servicio Público en Periódico (publicado en inglés y español)

El siguiente anuncio es un requisito formal según las regulaciones de calidad del aire de Nuevo México.

El Laboratorio Nacional de Los Alamos solicitará al Departamento de Medio Ambiente de Nuevo México en junio de 2025 una importante modificación de la actual licencia de calidad del aire de la planta de energía (2195B-M3R4). La ubicación exacta de la instalación, conocida como Planta de Energía del Área Técnica 3, es TA-3, SM-22 en Diamond Drive, en el Laboratorio Nacional de Los Álamos. La ubicación aproximada de esta instalación es 1 milla al sur de la intersección de Diamond Drive y Trinity Drive, en el Condado de Los Álamos. Actualmente la Planta de Energía TA-3 tiene licencia para operar calderas para la producción de vapor para ser utilizado como fuente de calefacción en aproximadamente 40 edificios en TA-3, y un Generador de Turbina de Combustión de Gas (GTCG) que produce electricidad. El laboratorio es propiedad del Departamento de Energía y es operado por Triad National Security, LLC.

Como parte de esta importante modificación de la licencia, se prevé apagar únicamente la caldera existente TA-3-22-1 durante la Fase 1 de la Licencia 2195B-M3R4. Las calderas TA-3-22-2 y TA-3-22-3 (Calderas #2 y #3) continuarán en funcionamiento, cada una con una capacidad de 178.5 MMBtu/hr. La construcción e instalación de dos nuevas calderas auxiliares, números de unidad TA-3-22-4 (Caldera #4) y TA-3-22-5 (Caldera #5), cada una con una capacidad de 72.3 MMBtu/hr, se completó como parte de la licencia 2018 NSR. El Generador de Turbina de Combustión de Gas (GTCG) TA-3-22-CT-1, no se convertirá en un sistema de Calor y Energía Combinados, y la Fase 3, tal como está actualmente autorizada para construcción, no se completará. La modificación también solicita que la turbina de combustión continúe operando en un rango de carga entre el 80% y el 100%. La infraestructura dentro de la planta de energía principal consistirá de dos calderas viejas y de 178.5 MMBtu cada una, dos calderas auxiliares de 72.3 MMBtu/hr cada una, y la turbina de combustión existente para generación de electricidad y vapor.

El objetivo de esta importante modificación de la licencia para la Planta de Energía TA-3 del LANL es solicitar una flexibilidad operativa que permita que las dos calderas existentes (Calderas #2 y #3), instaladas en la década de 1950, sirvan como calderas de respaldo para las dos calderas auxiliares más nuevas. Las Calderas #2 y #3 no estarán completamente operativas al mismo tiempo. Cada una de las cuatro calderas quema gas natural (el aceite combustible se usa solo como combustible de respaldo) para producir vapor. La GTGC es una turbina de ciclo simple que utiliza gas natural y produce sólamente energía eléctrica. Esta importante modificación de la licencia no incluye la instalación de ningún equipo nuevo. La flexibilidad operativa solicitada para operar las cuatro calderas y la turbina en varios escenarios operativos da como resultado emisiones diferentes a las estimaciones originales de la Fase 1. En general, no habrá cambios en el estatus principal/secundario de la instalación según los requisitos de PSD y Título V.
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PUBLISHED IN THE LOS ALAMOS DAILY POST
MAY 8, 2025

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For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase 1 of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5, each rated at a capacity of 72.3 MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG), TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two auxiliary boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electrical and steam generation.

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.

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PUBLISHED IN THE LOS ALAMOS DAILY POST
THURSDAY MAY 8, 2025

NOTICE OF ORDINANCE NO. 742
STATE OF NEW MEXICO, COUNTY OF LOS ALAMOS

Notice is hereby given that the Council of the Incorporated County of Los Alamos, State of New Mexico, has directed publication of Los Alamos County Ordinance No. 742. This will be considered by the County Council at an open meeting on Tuesday, May 20, 2025, at 6:00 p.m., at the Los Alamos County Municipal Building: 1000 Central Avenue, Los Alamos, New Mexico 87544. The full copy is available for inspection or purchase, during regular business hours, in the County Clerk's Office: 1000 Central Avenue, Suite 240.

INCORPORATED COUNTY OF LOS ALAMOS
ORDINANCE NO. 742
AN ORDINANCE TO LEASE CERTAIN COUNTY-OWNED LAND TO THE LOS ALAMOS DOG OBEDIENCE CLUB, INC.
Council of the Incorporated County of Los Alamos
By: /s/ Theresa Cull, Council Chair
Attest: /s/ Michael D. Redondo, County Clerk

PUBLISHED IN THE LOS ALAMOS DAILY POST
THURSDAY MAY 8, 2025

sfnm classifieds to place legals call: 986-3000 | toll free: 800-873-3362 | email: legals@sfnewmexican.com

LEGALS

LEGAL #93807

NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) BID SOLICITATION FOR – May 16, 2025 SANTA FE, NEW MEXICO

The NMDOT will only receive Bids through the Bid Express website at https://www.bidx.com/ before 11:00 A.M. local prevailing time National Institute of Standards and Technology, atomic clock, on May 16, 2025. Bids received after this time will not be accepted. Tutorials on electronic bidding are available through Bid Express website at https://www.bidx.com/site/trainingcenter. In order to receive Addenda and notifications all Bidders shall log into Bid Express and select the proposal and letting activity message and e-mail boxes in the manage messages and notifications tab.

The NMDOT will open and publicly read the Total Bid Amount for Bids in the presence of one or more witnesses at the NMDOT's General Office (Room 223), 1120 Cerrillos Road Santa Fe, NM 87505. Individuals with disabilities who desire to attend or participate in this Bid Opening shall contact the NMDOT Title VI Liaison a minimum of ten Days before the date of Bid Opening at 505-819-9175.

The Advertisement, Bid Form, Bid Guaranty, Supplemental Specifications, Special Provisions, Addenda, Notice to Contractors and Plans are available for a membership fee and for examination only through the Bid Express website. Fee schedules are available through the Bid Express website. The 2019 Edition of the NMDOT Standard Specifications and Standard Drawings for Highway and Bridge Construction shall govern construction of this Project. The 2019 Standard Specifications and Standard Drawings are available for no cost to the Bidder through the NMDOT website at http://dot.state.nm.us/content/nmdot/en/standards.html.

In the case of disruption of national communications or loss of services by Bid Express the morning of the Bid Opening, the NMDOT may delay the deadline for Bids. Instructions will be communicated through the Bid Express website.

As a condition to submitting a Bid all Bidders bidding as Contractors are required to be prequalified with the NMDOT's Office of Inspector General seven (7) Days before Bid Opening per 18.27.5 NMAC. All Subcontractors are required to be prequalified before performing any Work and prior to supplying goods or services to the Project. The Contractor Prequalification Rule, 18.27.5 NMAC, and Prequali- cation Packet are located at http://dot.state.nm.us/content/nmdot/en/prequalification.html. The Bidder's prequalification factor rolling average will be applied to any Project with an engineer's estimate greater than $5 million.

All Bidders submitting Bids valued over sixty thousand dollars ($60,000.00) shall be registered with the Department of Workforce Solutions (DWS), Labor Relations before Bidding. The Bidder's registration number shall be included on the Bid Form. The Bidder's DWS registration number can be obtained through the website http://www.dws.state.nm.us/. If a Bidder appears on the DWS list of willful violators of the Public Works Minimum Wage Act (NMSA 13-4-14), the NMDOT shall reject the Bid and shall continue to reject Bids from that Bidder for three years after the date of publication of the list.

The Bidder's Bid Guaranty shall be five percent (5%) of the Bidder's Total Bid Amount and shall be submitted before Bid Opening through either Surety 2000 or Tinubu Surety.

For state funded Projects proof of the Bidder's valid license in the form of its wallet card from the Construction Industries Division (CID) shall be submitted with the Bid per the Construction Industries Licensing Act NMSA (1978), Sections 60-13-1 to -57 (1967, as amended through 1989). The Bidder's valid license shall cover the Project's type of Work specified in this Advertisement. The Bidder shall submit in the form of a zip file to the "file attachment upload" tab in the Project Bids.EBSX file through Bid Express the CID wallet card.

If a Bidder is seeking, for state funded Projects, a resident business preference the Bidder shall submit a copy of its resident business certification in the form of a zip file to the "file attachment upload" tab in the Project Bids .EBSX file through Bid Express before Bid Opening per NMSA 1978, § 13-4-2 (1984, amended 2012).

If a Bidder is seeking, for state funded Projects, a resident veteran contractor preference the Bidder shall submit a copy of its resident veteran contractor certification and its application for the resident veteran contractor certification, not including the attachments for the application, in the form of a zip file to the "file attachment upload" tab in the Project Bids .EBSX file through Bid Express before Bid Opening per NMSA 1978, § 13-4-2 (1984, amended 2012).

For federally funded Projects, the Bidder is not required to have a valid license from CID for the Project's Work in order to submit a Bid. **However, upon receipt of the Notice of Preliminary Award, the Bidder must obtain a valid license with the proper classification for the Project's Work within 15 Days.**

Federal and State Wage Rates are indicated for each Project. For federally funded Projects, the Bidder shall obtain the federal wage rate (Construction Type: Highway) through the US Department of Labor (DOL) website at https://sam.gov/content/home. In addition, the Bidder shall obtain the State wage rate (Street, Highway, Utility or Light Engineering Construction) through the DWS website at https://www.dws.state.nm.us/Labor-Relations/Labor-Information/Public-Works. The higher wage rate shall govern in the event of a dis- crepancy between the minimum wage rates in the DOL/DWS Wage Decision applicable to the Contract.

For federally funded Projects, a Bidder shall submit in the form of a zip file to the "file attachment upload" tab in the Project Bids .EBSX file through Bid Express the Affidavit of Bidder before Bid Opening.

For federally funded and state funded Projects, a Bidder shall submit in the form of a zip file to the "file attachment upload" tab in the Project Bids .EBSX file through Bid Express any documents before Bid Opening required by a Notice to Contractors.

Failure of the Bidder to comply with this Advertisement shall render the Bid non-responsive and the Bid shall be rejected.

Indicates change made in April 2025.

(1)
CN 6101001

TERMINI: NM 6, MP 1.978 to MP 2.422 for 0.444 miles
COUNTY: Cibola and Valencia (District 6)
TYPE OF WORK: New Bridge Construction, New Roadway Construction
CONTRACT TIME: 300 Working Days
DBE GOAL: At this time NMDOT will meet the State DBE on Federally assisted projects through a combination of race-neutral and race-conscious measures. This project is subject to race-conscious measures. The established DBE goal for this project is 0.00%.
LICENSES: (GF-2 or GF-98) and (GA-1 or GA-98)
FUNDING TYPE: Federal-aid
LISTING THRESHOLD: None
WAGE RATE (FEDERAL): NM20250037 and NM20250033
WAGE RATE (STATE): Type "A" (2025)

PUB: April 18, 25, May 02, 09, 2025.

To place a Legal Notice Call 986-3000

LEGAL #93897

REQUEST for PROPOSAL Solicitation No. 25160

Request for Proposals will be received electronically by the City of Santa Fe until further notice.
Responses shall be electronically submitted via: https://cityofsantafenmvendors.munisselfservice.com/Vendors/VBids /Default.aspx

No later than 3:00 P.M. MST/MDT June 4, 2025. Any proposal received after this deadline will not be accepted and/or considered. This proposal is for the purpose of procuring the following:

City of Santa Fe Annual Firefighter Physicals

Attention is directed to the fact that all applicable Federal Laws, State Laws, Municipal Ordinances, and the rules and regulations of all authorities having jurisdiction over said term shall apply to the solicitation throughout.

The successful vendor will be required to conform to the Equal Opportunity Employment regulations.

Solicitation packets are available at the following website: https://cityofsantafenmvendors.munisselfservice.com/Vendors/VBids/Default.aspx

Questions concerning this solicitation shall be directed to:

https://purchasing_RFP@santafenm.gov

And

Sten Johnson,
Assistant Fire Chief
sajohnson@santafenm.gov

PUB: May 09, 2025.

LEGAL #93902

FIRST JUDICIAL DISTRICT COURT
COUNTY OF SANTA FE
STATE OF NEW MEXICO

No. D-101-CV-2024-03114

DEL NORTE CREDIT UNION,
a New Mexico state chartered credit union,

Plaintiff
v.
DANIEL PATRICK MONTOYA
aka Daniel Montoya,

Defendant.

NOTICE OF PENDENCY OF SUIT

TO: Defendant DANIEL PATRICK MONTOYA.

YOU ARE HEREBY NOTIFIED that the above-named Plaintiff has filed a civil action against you in the above-entitled court and cause, the general object thereof being to recover money from you for an automobile loan on a 2018 Ford Fiesta and to recover that vehicle.
That unless you respond to the Complaint within 30 days of the completion of publication of this Notice, judgment by default will be entered against you.
Name, address and phone number of the Plaintiff's attorney: Spann, Hollowwa & Artley
(James A. Artley) P.O. Box 1307,
Albuquerque, NM 87103; 505-243-3525.
WITNESS the Honorable Bryan Biedscheid, District Judge of First Judicial District Court of the State of New Mexico and the seal of the District Court of Santa Fe County on this 2nd day of May, 2025.

Kathleen Vigil
Clerk of the Court

/s/ Michael A Sena
Clerk of the District Court

PUB: May 09, 16, 23, 2025.

To Place A Legal Notice Call 986-3000

LEGAL #93874

FIRST JUDICIAL DISTRICT
COUNTY OF SANTA FE
STATE OF NEW MEXICO

No. D-101-CV-2025-00647

DEL NORTE CREDIT UNION,
a New Mexico state chartered credit union,

Plaintiff,
vs.

MATEO PEREZ-ORDONEZ
Defendant.

NOTICE OF PENDENCY OF SUIT

TO: Defendant MATEO PEREZ-ORDONEZ.

YOU ARE HEREBY NOTIFIED that the above-named Plaintiff has filed a civil action against you in the above-entitled court and cause, the general object thereof being to recover money from you for a deficiency balance due on an automobile loan secured by a 2021 Toyota Tacoma, a personal loan and a line of credit loan.
That unless you respond to the Complaint within 30 days of the completion of publication of this Notice, judgment by default will be entered against you.
Name, address and phone number of the Plaintiffs attorney: Spann, Hollowwa & Artley (James A. Artley) P.O. Box 1307,
Albuquerque, NM 87103; 505-243-3525.
WITNESS the Honorable Matthew J. Wilson, District Judge of First Judicial District Court of the State of New Mexico and the seal of the District Court of Santa Fe County on this 16 day of April, 2025.

/s/ Mayra Mendoza-Gutierrez
Clerk of the District Court

PUB: May 02, 09, 16, 2025.

PLACE YOUR CLASSIFIED TODAY!
986-3000
SANTA FE NEW MEXICAN

LEGAL #93899

STATE OF NEW MEXICO
COUNTY OF SANTA FE
FIRST JUDICIAL DISTRICT
PRESBYTERIAN HEALTHCARE SERVICES,
a New Mexico non-profit corporation,

Case No. D-101-CV-2024-02011

Plaintiff,
v.
ERICK T. FINLEY,
Defendant.

NOTICE OF PENDENCY OF SUIT

TO: DEFENDANT ERICK T. FINLEY:
NOTICE IS HEREBY GIVEN that on August 21, 2024, Presbyterian Healthcare Services, a New Mexico non-profit corporation **("Plaintiff"),** filed a Complaint for Breach of Contract and Unjust Enrichment against you, Defendant Erick T. Finley, in the above-entitled Court and cause, the general object thereof being to recover money due for breach of contract.
FURTHER, the above named-defendant Erick T. Finley, is hereby noticed that you have until thirty (30) days from the date of completion of the publication of this Notice in which to file an answer or other pleadings responsive to the complaint. Should you choose not to file an answer or other responsive pleading within the thirty (30) days specified herein, default judgment or other appropriate relief may be rendered against you.
PLAINTIFFS ATTORNEY: Benjamin A. Jacobs of Gatton & Associates, P.C., 10400 Academy Rd NE Ste 350, Albuquerque, NM 87111.

PUB: May 09, 16, 23, 2025.

LEGAL #93831

STATE OF NEW MEXICO
COUNTY OF SANTA FE
FIRST JUDICIAL DISTRICT COURT
CITIBANK, N.A., AS TRUSTEE FOR CMLTI ASSET TRUST, Plaintiff, v. FERNANDO COBOS; GERALDINE Y. COBOS; NEW MEXICO DEPARTMENT OF TAXATION AND REVENUE, Defendant(s). Case No. D-101-CV-2024-01643

NOTICE OF SALE NOTICE IS HEREBY GIVEN that on June 25, 2025, at 12:15 p.m. the undersigned Special Master will, at the main entrance of the First Judicial District Courthouse, 225 Montezuma Ave. Santa Fe, NM 87505, sell all the right, title and interest of the above-named Defendants in and to the hereinafter described real estate to the highest bidder for cash. The property to be sold is located at 84 Calle Debra Santa Fe, Santa Fe County, New Mexico, and is particularly described as follows: LOT 7, BLOCK 5 OF VISTA LAND SUBDIVISION, AS SHOWN ON PLAT FILED IN THE OFFICE OF THE COUNTY CLERK, SANTA FE COUNTY, NEW MEXICO ON APRIL 2, 1974, RECORDED IN PLAT BOOK 35, PAGE 04, AS DOCUMENT NO. 363,436 (the "Property") as the same is shown and designated on the plat thereof, filed in the office of the Santa Fe County Clerk, including any improvements, fixtures, and attachments, such as, but not limited to, mobile homes. If there is a conflict between the legal description and street address, the legal description shall control. THE FOREGOING SALE will be made to satisfy a judgment rendered by the above Court in the above entitled and numbered cause on April 24, 2025, being an action to foreclose a Mortgage on the above described property. Plaintiff's Judgment, which includes interest and costs, is $260,327.73 and the same bears interest at 4.00000% per annum through the date of sale. The Plaintiff and/or its assignee has the right to bid at such sale and submit its bid verbally or in writing. The Plaintiff may apply all or any part of its judgment to the purchase price in lieu of cash. NOTICE IS FURTHER GIVEN that the undersigned Special Master will, as set forth above, offer for sale and sell the Property to the highest bidder for cash or equivalent, for the purpose of satisfying, in the adjudged order of priorities, the judgment and decree of foreclosure described herein, together with any additional costs and attorney's fees, including the costs of advertisement and publication for the foregoing sale and reasonable receiver and Special Master's fees in an amount to be fixed by the Court. NOTICE IS FURTHER GIVEN that the real property and improvements concerned with herein will be sold subject to any and all patent reservations, easements, all recorded and unrecorded liens and interests not foreclosed herein, and all recorded and unrecorded special assessments, taxes and utility liens that may be due. Plaintiff, its attorneys, and the Special Master disclaim all responsibility for, and the purchaser at the sale takes the property, and title status to the property, "as is," in its present condition subject to the valuation of the property by the County Assessor as real or personal property, affixture of any mobile or manufactured home to the land, deactivation of, or title status to, a mobile or manufactured home on the property, if any, environmental contamination on the property, if any, substandard conditions or code violations, if any, encumbrances or easements if any, title defects, if any, and zoning violations concerning the property, if any. No warranty or guarantee is made as to title status. NOTICE IS FURTHER GIVEN that the foregoing sale may be postponed and rescheduled at the discretion of the Special Master, and is subject to all taxes, utility liens and other restrictions and easements of record. NOTICE IS FURTHER GIVEN that the purchaser at such sale shall take title to the above described real property subject to a one (1) month right of redemption held by Defendant Borrowers or their assignee upon entry of an order approving sale, and subject to the entry of an order of the Court approving the terms and conditions of sale. Witness my hand this 29th day of April, 2025. By: /S/ Robert Doyle Robert Doyle, Special Master Legal Process Network P.O. Box 279 Sandia Park, NM 87047 (505) 417-4113

Pub.: May 9, 16, 23, 30, 2025

To place a Legal Notice Call 986-3000

Continued...

LEGAL #93889

Newspaper Public Service Announcement (published in English and Spanish)

The following announcement is a requirement of New Mexico air quality regulations.

Los Alamos National Laboratory will be applying to the New Mexico Environment Department in June 2025 for a significant permit revision to the existing power plant air quality permit (2195B-M3R4). The exact location for the facility known as Technical Area 3 Power Plant is at TA-3, SM-22 on Diamond Drive in the Los Alamos National Laboratory. The approximate location of this facility is 1 mile south of the intersection of Diamond Drive and Trinity Drive in Los Alamos County. The TA-3 Power Plant is currently permitted to operate boilers to produce steam for use as a heating source in approximately 40 buildings in TA-3 and a Combustion Gas Turbine Generator (CGTG) that produces electricity. The Laboratory is owned by the Department of Energy and operated by Triad National Security, LLC.

For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase 1 of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5, each rated at a capacity of 72.3 MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG), TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two auxiliary boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electrical and steam generation.

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.

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 (pph)	Tons per year (tpy)
Particulate Matter (PM)	11.161 pph*	9.383 tpy*
PM10	11.161 pph*	9.383 tpy*
PM2.5	9.207 pph*	9.336 tpy*
Sulfur Dioxide (SO2)	26.503 pph*	3.384 tpy*
Nitrogen Oxides (NOx)	59.465 pph*	87.199 tpy*
Carbon Monoxide (CO)	49.718 pph*	97.449 tpy*
Volatile Organic Compounds (VOC)	3.206 pph*	4.512 tpy*
Total sum of all Hazardous Air Pollutants (HAPs)	1.428 pph	2.381 tpy
Toxic Air Pollutant (TAP)	0.318 pph	-
Green House Gas Emissions as Total CO2e	-	320,448 tpy

* Estimated hourly and annual start up, shut down and maintenance emissions have been added per public notice requirements.

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

The operator and owner of the Facility is: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, New Mexico, 87545, operator of Los Alamos National Laboratory for the U.S. Department of Energy, 3747 West Jemez Road, Los Alamos, NM 87544. Please direct questions for the Laboratory to the Environmental Communication & Public Involvement Office point of contact, Steve Horak, at 505-551-4514, envoutreach@lanl.gov, or Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Alamos, New Mexico 87545.

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.

Pub.: May 9, 2025

LEGAL# 93888

Anuncio de Servicio Público en Periódico (publicado en inglés y español)

El siguiente anuncio es un requisito formal según las regulaciones de calidad del aire de Nuevo México.

El Laboratorio Nacional de Los Alamos solicitará al Departamento de Medio Ambiente de Nuevo México en junio de 2025 una importante modificación de la actual licencia de calidad del aire de la planta de energía (2195B-M3R4). La ubicación exacta de la instalación, conocida como Planta de Energía del Área Técnica 3, es TA-3, SM-22 en Diamond Drive, en el Laboratorio Nacional de Los Álamos. La ubicación aproximada de esta instalación es 1 milla al sur de la intersección de Diamond Drive y Trinity Drive, en el Condado de Los Álamos. Actualmente la Planta de Energía TA-3 tiene licencia para operar calderas para la producción de vapor para ser utilizado como fuente de calefacción en aproximadamente 40 edificios en TA-3, y un Generador de Turbina de Combustión de Gas (GTCG) que produce electricidad. El laboratorio es propiedad del Departamento de Energía y es operado por Triad National Security, LLC.

Como parte de esta importante modificación de la licencia, se prevé apagar únicamente la caldera existente TA-3-22-1 durante la Fase 1 de la Licencia 2195B-M3R4. Las calderas TA-3-22-2 y TA-3-22-3 (Calderas #2 y #3) continuarán en funcionamiento, cada una con una capacidad de 178.5 MMBtu/hr. La construcción e instalación de dos nuevas calderas auxiliares, números de unidad TA-3-22-4 (Caldera #4) y TA-3-22-5 (Caldera #5), cada una con una capacidad de 72.3 MMBtu/hr, se completó como parte de la licencia 2018 NSR. El Generador de Turbina de Combustión de Gas (GTCG) TA-3-22-CT-1, no se convertirá en un sistema de Calor y Energía Combinados, y la Fase 3, tal como está actualmente autorizada para construcción, no se completará. La modificación también solicita que la turbina de combustión continúe operando en un rango de carga entre el 80% y el 100%. La infraestructura dentro de la planta de energía principal consistirá de dos calderas viejas y de 178.5 MMBtu cada una, dos calderas auxiliares de 72.3 MMBtu/hr cada una, y la turbina de combustión existente para generación de electricidad y vapor.

El objetivo de esta importante modificación de la licencia para la Planta de Energía TA-3 del LANL es solicitar una flexibilidad operativa que permita que las dos calderas existentes (Calderas #2 y #3), instaladas en la década de 1950, sirvan como calderas de respaldo para las dos calderas auxiliares más nuevas. Las Calderas #2 y #3 no estarán completamente operativas al mismo tiempo. Cada una de las cuatro calderas quema gas natural (el aceite combustible se usa solo como combustible de respaldo) para producir vapor. La GTGC es una turbina de ciclo simple que utiliza gas natural y produce sólamente energía eléctrica. Esta importante modificación de la licencia no incluye la instalación de ningún equipo nuevo. La flexibilidad operativa solicitada para operar las cuatro calderas y la turbina en varios escenarios operativos da como resultado emisiones diferentes a las estimaciones originales de la Fase 1. En general, no habrá cambios en el estatus principal/secundario de la instalación según los requisitos de PSD y Título V.

Las cantidades máximas estimadas de cualquier contaminante atmosférico regulado serán las siguientes, en libras por hora (pph) y toneladas por año (tpy), y podrían cambiar ligeramente durante la revisión del Departamento:

Contaminante	Libras por hora (pph)	Toneladas por año (tpy)
Material Particulado (PM)	11.161 pph*	9.383 tpy*
PM10	11.161 pph*	9.383 tpy*
PM2.5	9.207 pph*	9.336 tpy*
Dióxido de Azufre (SO2)	26.503 pph*	3.384 tpy*
Óxidos de Nitrógeno (NOx)	59.465 pph*	87.199 tpy*
Monóxido de Carbono (CO)	49.718 pph*	97.449 tpy*
Compuestos Orgánicos Volátiles (VOC)	3.206 pph*	4.512 tpy*
Suma total de todos los contaminantes de aire peligrosos (HAPs)	1.428 pph	2.381 tpy
Contaminante Tóxico del Aire (TAP)	0.318 pph	-
Emisiones de Gases de Efecto Invernadero como CO2e total	-	320,448 tpy

* Las emisiones estimadas por hora y anuales incluyen arranque, apagado y mantenimiento, según lo requieren los avisos públicos.

Los horarios de operación estándar y máximos serán de 24 horas al día, 7 días a la semana, y un máximo de 52 semanas al año.

El operador y propietario de la instalación es: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, Nuevo México, 87545, operador del Laboratorio Nacional de Los Álamos para el Departamento de Energía de EE. UU., 3747 West Jemez Road, Los Álamos, NM 87544. Para consultas al Laboratorio, comuníquese con la Oficina de Comunicación Ambiental y Participación Pública, con atención a Steve Horak, al 505-551-4514, envoutreach@lanl.gov, o Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Álamos, Nuevo México 87545.

Si tiene comentarios sobre la construcción u operación de esta instalación y desea que sus comentarios se incluyan en el proceso de revisión de la licencia, debe enviarlos por escrito a la siguiente dirección: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Otros comentarios y preguntas pueden enviarse verbalmente al (505) 476-4300; 1 800 224-7009.

Con sus comentarios, por favor indique el nombre de la compañía y el nombre de la instalación, o envíe una copia de este aviso junto con sus comentarios. Esta información es necesaria ya que el Departamento podría no haber recibido aún la solicitud de permiso. Incluya una dirección de devolución legible. Una vez que el Departamento haya completado su revisión preliminar de la solicitud y sus impactos en la calidad del aire, el aviso del Departamento se publicará en la sección legal de un periódico distribuido cerca de la ubicación de la instalación.

Pub.: May 9, 2025

Fetterman's outburst raises alarms

Senator, who suffered a stroke, appears to have breakdown in meeting with teachers union

By Marc Levy
The Associated Press

HARRISBURG, Pa. — Democratic Sen. John Fetterman of Pennsylvania was meeting last week with representatives from a teachers union in his home state when things quickly devolved.

Before long, Fetterman began repeating himself, shouting and questioning why "everybody is mad at me," "why does everyone hate me, what did I ever do" and slamming his hands on a desk, according to one person who was briefed on what occurred.

As the meeting deteriorated, a staff member moved to end it and ushered the visitors into the hallway, where she broke down crying. The staffer was comforted by the teachers who were themselves rattled by Fetterman's behavior, according to a second person who was briefed separately on the meeting.

The interaction at Fetterman's Washington office, described to The Associated Press by the two people who spoke about it on the condition of anonymity, came the day before *New York Magazine* published a story in which former staff and political advisers to Fetterman aired concerns about the senator's mental health.

That story included a 2024 letter, also obtained by The AP, in which Fetterman's onetime chief of staff Adam Jentleson told a neuropsychiatrist who had treated Fetterman for depression that the senator appeared to be off his recovery plan and was exhibiting alarming behavior, including a tendency toward "long, rambling, repetitive and self-centered monologues."



J. SCOTT APPLEWHITE/ASSOCIATED PRESS FILE PHOTO

Sen. John Fetterman, D-Pa., talks to reporters March 13 at the Capitol.

Asked about the meeting with teachers union representatives, Fetterman said in a statement through his office that they "had a spirited conversation about our collective frustration with the Trump administration's cuts to our education system." He also said he "will always support our teachers, and I will always reject anyone's attempt to turn Pennsylvania's public schools into a voucher program."

Fetterman earlier this week brushed off the *New York Magazine* story as a "one-source hit piece and some anonymous sources, so there's nothing new." Asked by a reporter in a Senate corridor what he would say to people who are concerned about him, Fetterman said: "They're not. They're actually not concerned. It's a hit piece. There's no news."

Reached by telephone, Aaron Chapin, the president of the Pennsylvania State Education Association who was in the meeting with Fetterman, said he didn't want to discuss what was a private conversation.

The teachers union encounter adds to the questions being raised about Fetterman's mental health and behavior barely three years after he survived a stroke on the 2022 campaign trail that he said almost killed him. That was followed by a bout with depression that landed him in Walter Reed National Military Medical Center for six weeks, barely a month after he was sworn into the Senate.

The scrutiny also comes at a time when Fetterman, now serving the third year of his term, is being criticized by many rank-and-file Democrats in his home state for being willing to cooperate with President Donald Trump, amid Democrats' growing alarm over Trump's actions and agenda.

Fetterman — who has been diagnosed with cardiomyopathy, in which the heart muscle becomes weakened and enlarged, and auditory processing disorder, a complication from the stroke — has talked openly about his struggle with depression and urged people to get help.

In November, he told podcast host Joe Rogan he had recovered and fended off thoughts of harming himself.

Roberts: Courts must be free to check 'excesses'

By Ann E. Marimow
The Washington Post

BUFFALO — Chief Justice John Roberts championed the independence and authority of the nation's judicial system to serve as a check on Congress and the president at a time when federal courts are being attacked by Trump.

The balance of power between the three, coequal branches of government "doesn't work if the judiciary is not independent," Roberts said during a wide-ranging interview Wednesday. The job of judges, he added, "is obviously to decide cases, but — in the course of that — check the excesses of Congress or the executive, and that does require a degree of independence."

His comments drew applause from the audience of lawyers and judges who were keenly aware President Donald Trump's second term has led to escalating tensions between executive branch officials pushing the boundaries of presidential power. Asked about calls from Trump and his allies to impeach federal judges who have ruled against the administration, Roberts echoed a statement he issued in March, saying that "impeachment is not how you register disagreement with a decision."

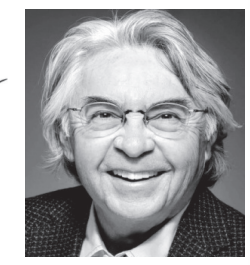




REAL ESTATE



KELLERWILLIAMS Luxury
PAUL DURAN
KELLY ALLEN
505.603.9161
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Newspaper Public Service Announcement (published in English and Spanish)

The following announcement is a requirement of New Mexico air quality regulations.

Los Alamos National Laboratory will be applying to the New Mexico Environment Department in June 2025 for a significant permit revision to the existing power plant air quality permit (2195B-M3R4). The exact location for the facility known as Technical Area 3 Power Plant is at TA-3, SM-22 on Diamond Drive in the Los Alamos National Laboratory. The approximate location of this facility is 1 mile south of the intersection of Diamond Drive and Trinity Drive in Los Alamos County. The TA-3 Power Plant is currently permitted to operate boilers to produce steam for use as a heating source in approximately 40 buildings in TA-3 and a Combustion Gas Turbine Generator (CGTG) that produces electricity. The Laboratory is owned by the Department of Energy and operated by Triad National Security, LLC.

For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase 1 of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5, each rated at a capacity of 72.3 MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG), TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two auxiliary boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electrical and steam generation.

The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.

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 (pph)	Tons per year (tpy)
Particulate Matter (PM)	11.161 pph*	9.383 tpy*
PM10	11.161 pph*	9.383 tpy*
PM2.5	9.207 pph*	9.336 tpy*
Sulfur Dioxide (SO2)	26.503 pph*	3.384 tpy*
Nitrogen Oxides (NOx)	59.465 pph*	87.199 tpy*
Carbon Monoxide (CO)	49.718 pph*	97.449 tpy*
Volatile Organic Compounds (VOC)	3.206 pph*	4.512 tpy*
Total sum of all Hazardous Air Pollutants (HAPs)	1.428 pph	2.381 tpy
Toxic Air Pollutant (TAP)	0.318 pph	-
Green House Gas Emissions as Total CO2e	-	320,448 tpy

* Estimated hourly and annual start up, shut down and maintenance emissions have been added per public notice requirements.

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

The operator and owner of the Facility is: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, New Mexico, 87545, operator of Los Alamos National Laboratory for the U.S. Department of Energy, 3747 West Jemez Road, Los Alamos, NM 87544. Please direct questions for the Laboratory to the Environmental Communication & Public Involvement Office point of contact, Steve Horak, at 505-551-4514, envoutreach@lanl.gov, or Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Alamos, New Mexico 87545.

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.

Anuncio de Servicio Público en Periódico (publicado en inglés y español)

El siguiente anuncio es un requisito formal según las regulaciones de calidad del aire de Nuevo México.

El Laboratorio Nacional de Los Alamos solicitará al Departamento de Medio Ambiente de Nuevo México en junio de 2025 una importante modificación de la actual licencia de calidad del aire de la planta de energía (2195B-M3R4). La ubicación exacta de la instalación, conocida como Planta de Energía del Área Técnica 3, es TA-3, SM-22 en Diamond Drive, en el Laboratorio Nacional de Los Álamos. La ubicación aproximada de esta instalación es 1 milla al sur de la intersección de Diamond Drive y Trinity Drive, en el Condado de Los Álamos. Actualmente la Planta de Energía TA-3 tiene licencia para operar calderas para la producción de vapor para ser utilizado como fuente de calefacción en aproximadamente 40 edificios en TA-3, y un Generador de Turbina de Combustión de Gas (GTCG) que produce electricidad. El laboratorio es propiedad del Departamento de Energía y es operado por Triad National Security, LLC.

Como parte de esta importante modificación de la licencia, se prevé apagar únicamente la caldera existente TA-3-22-1 durante la Fase 1 de la Licencia 2195B-M3R4. Las calderas TA-3-22-2 y TA-3-22-3 (Calderas #2 y #3) continuarán en funcionamiento, cada una con una capacidad de 178.5 MMBtu/hr. La construcción e instalación de dos nuevas calderas auxiliares, números de unidad TA-3-22-4 (Caldera #4) y TA-3-22-5 (Caldera #5), cada una con una capacidad de 72.3 MMBtu/hr, se completó como parte de la licencia 2018 NSR. El Generador de Turbina de Combustión de Gas (GTCG) TA-3-22-CT-1, no se convertirá en un sistema de Calor y Energía Combinados, y la Fase 3, tal como está actualmente autorizada para construcción, no se completará. La modificación también solicita que la turbina de combustión continúe operando en un rango de carga entre el 80% y el 100%. La infraestructura dentro de la planta de energía principal consistirá de dos calderas viejas y de 178.5 MMBtu cada una, dos calderas auxiliares de 72.3 MMBtu/hr cada una, y la turbina de combustión existente para generación de electricidad y vapor.

El objetivo de esta importante modificación de la licencia para la Planta de Energía TA-3 del LANL es solicitar una flexibilidad operativa que permita que las dos calderas existentes (Calderas #2 y #3), instaladas en la década de 1950, sirvan como calderas de respaldo para las dos calderas auxiliares más nuevas. Las Calderas #2 y #3 no estarán completamente operativas al mismo tiempo. Cada una de las cuatro calderas quema gas natural (el aceite combustible se usa solo como combustible de respaldo) para producir vapor. La GTGC es una turbina de ciclo simple que utiliza gas natural y produce sólamente energía eléctrica. Esta importante modificación de la licencia no incluye la instalación de ningún equipo nuevo. La flexibilidad operativa solicitada para operar las cuatro calderas y la turbina en varios escenarios operativos da como resultado emisiones diferentes a las estimaciones originales de la Fase 1. En general, no habrá cambios en el estatus principal/secundario de la instalación según los requisitos de PSD y Título V.

Las cantidades máximas estimadas de cualquier contaminante atmosférico regulado serán las siguientes, en libras por hora (pph) y toneladas por año (tpy), y podrían cambiar ligeramente durante la revisión del Departamento:

Contaminante	Libras por hora (pph)	Toneladas por año (tpy)
Material Particulado (PM)	11.161 pph*	9.383 tpy*
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Compuestos Orgánicos Volátiles (VOC)	3.206 pph*	4.512 tpy*
Suma total de todos los contaminantes de aire peligrosos (HAPs)	1.428 pph	2.381 tpy
Contaminante Tóxico del Aire (TAP)	0.318 pph	-
Emisiones de Gases de Efecto Invernadero como CO2e total	-	320,448 tpy

* Las emisiones estimadas por hora y anuales incluyen arranque, apagado y mantenimiento, según lo requieren los avisos públicos.

Los horarios de operación estándar y máximos serán de 24 horas al día, 7 días a la semana, y un máximo de 52 semanas al año.

El operador y propietario de la instalación es: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, Nuevo México, 87545, operador del Laboratorio Nacional de Los Álamos para el Departamento de Energía de EE. UU., 3747 West Jemez Road, Los Álamos, NM 87544. Para consultas al Laboratorio, comuníquese con la Oficina de Comunicación Ambiental y Participación Pública, con atención a Steve Horak, al 505-551-4514, envoutreach@lanl.gov, o Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Álamos, Nuevo México 87545.

Si tiene comentarios sobre la construcción u operación de esta instalación y desea que sus comentarios se incluyan en el proceso de revisión de la licencia, debe enviarlos por escrito a la siguiente dirección: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Otros comentarios y preguntas pueden enviarse verbalmente al (505) 476-4300; 1 800 224-7009.

Con sus comentarios, por favor indique el nombre de la compañía y el nombre de la instalación, o envíe una copia de este aviso junto con sus comentarios. Esta información es necesaria ya que el Departamento podría no haber recibido aún la solicitud de permiso. Incluya una dirección de devolución legible. Una vez que el Departamento haya completado su revisión preliminar de la solicitud y sus impactos en la calidad del aire, el aviso del Departamento se publicará en la sección legal de un periódico distribuido cerca de la ubicación de la instalación.

Los Alamos NATIONAL LABORATORY

Newspaper Public Service Announcement

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Si tiene comentarios sobre la construcción u operación de esta instalación y desea que sus comentarios se incluyan en el proceso de revisión de la licencia, debe enviarlos por escrito a la siguiente dirección: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816.
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sección legal de un periódico distribuido cerca de la ubicación de la instalación.

RIO GRANDE SUN — The Voice of Northern New Mexico

REACH OVER 24,000 READERS WEEKLY

CLASSIFIEDS

EMPLOYMENT

PART-TIME VAN DRIVERS NEEDED

Pojoaque area youth program is hiring two **part-time van drivers** for summer 2025. Work includes transporting youth to field trips and activities.

- **Schedule:** 3 weeks in June & 3 weeks in July
- **Hours:** 4-6 hours/day, 3-4 days/week
- **Pay:** $20/hour

Requirements:

- Current New Mexico driver's license
- Clean driving record
- Must pass background check

If interested, contact, Johnny Abeyta Sr. at (505) 690-8303.
Boys & Girls Club of Generational Empowerment.

The City of Española is seeking:

STREETS SERVICE WORKER
$15.15 per hour plus benefits

PARKS SERVICE WORKER
$15.15 per hour plus benefits

METER READER
$15.15 per hour plus benefits

UTILITY MAINTENANCE WORKER – WATER & WASTEWATER
$15.15 per hour plus benefits

DIESEL MECHANIC
$26.00 to $28.00 per hour plus benefits

MECHANIC HELPER
$16.00 to $18.69 per hour plus benefits

CODE COMPLIANCE OFFICER
$20.00 per hour plus benefits

SOCIAL SERVICES SPECIALIST (PORT)
This position is contingent upon continued receipt of funding
$21.00 to $23.00 per hour plus benefits

For a complete list of all our positions visit our website at
http://www.cityofespanola.org/jobs.aspx

For more information contact HR Generalist Shannon Sandoval at:
smsandoval@espanolanm.gov
(505) 747-6057
The City of Española is an Equal Employment Opportunity employer
PO#57893

Mesa Vista Consolidated Schools



WE ARE HIRING!

Superintendent

EDUCATIONAL QUALIFICATIONS
1. MA in Educational Administration
2. New Mexico Educational Administration License

REPORTS TO
: Mesa Vista Consolidated School Board of Education

ESSENTIAL JOB FUNCTION
: (performed with or without reasonable accommodation) to provideleadership in developing, achieving, and maintaining exemplary educational programs and services to thechildren of the district.

Salary – Negotiable
Start Date – Negotiable – **Beginning July 1, 2025**
To be considered for the position, interested applicants submit all materials to:

Human Resources – Attn: Jessica Lovato
jessica.lovato@mesavista.org
Mesa Vista Consolidated Schools
PO Box 309
Ojo Caliente, New Mexico 87549
Phone: 505-583-2645, 1303

Required application materials – Letter of interest, cover letter, resume, copy of NM administrative license,copy of transcripts, and 3 letters of professional reference.

Deadline to submit – May 21, 2025 – 5:00PM

IDEAL HOME CARE

Caregivers Needed to work with the Disabled & Elderly.

Flexible Hours and Competitive wages!

Please call for an application, (505) 747-4440 or apply in person at: Ideal Home Care, 706 La Joya Street, Española NM.

LOS ALAMOS
where discoveries are made

Lifeguard Trainee or Lifeguard-Regular/FT, 25004
Salary is $18.15 to $29.55/hr.
Open until filled.

Election Worker, 25096
Salay is $19.00/hr.
Open until filled

Recreation Leader, 25107
Salary is $21.01 to $34.21/hr.
Open until filled.

Equipment Operator-T&S, 25108
Salary is $23.16 to $37.71/hr.
Open until filled.

Engineering Associate (Utilities), 25111
Salary is $80,431.23 to $130,970.17
Open until filled.

Arborist, 25118
Salary is $25.53 to $41.58/hr.
Open until filled.

Lifeguard-Casual, 25129
Salary is $15.68 to $25.52/hr.
Open until filled.

Transit Operator Trainee/Operator 1/Operator 2-Full Time and Limited Term available, 25133
Sign-on bonus available
Salary ranges are:
Trainee-$21.01-$34.21/hr.
Operator 1-$23.46-$37.71/hr.
Operator 2-$25.53-41.58/hr.
Open until filled.

Golf/Ice Rink Maintenance Assistant Superintendent, 25136
Salary is $28.15 to $45.84/hr.
Open until filled.

Fleet Mechanic 1, 25139
Salary is $21.01 to $34.21/hr.
Posting closes on 5/12/2025

Technical Support Specialist, 25140
Salary is $28.15 to $45.84/hr.
Posting closes on 5/12/2025

Billing and Service Specialist, 25143
Salary is $21.01 to $34.21/hr.
Open until filled.

Accounting Operations Manager, 25144
Salary is $97,764.93 to $159,195.47/yr.
Posting closes on 5/9/2025.

Human Resources analyst 1 or 2 (Benefits), 25145
Salary ranges are:
HR Analyst 1-$25.53 to $41.58/hr.
HR Analyst 2- $29.56 to $48.13/hr.
Posting closes on 5/9/2025

Management Analyst-Procurement, 25146
Salary is $76,601.47 to $124,733.74/yr.
Open until filled.

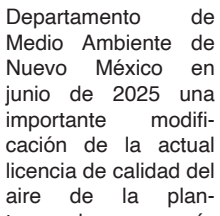
Apprentice Appraiser or Appraiser, 25147
Salary ranges are:
Apprentice Appraiser - $20.01 to $32.58/hr.
Appraiser - $26.81 to $43.66/hr.
Posting closes on 5/23/2025

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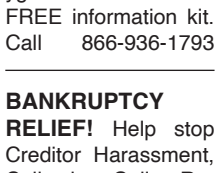
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Announcements

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NEW MEXICO YOUTH CONSERVATION CORPS MEMBER SEASONAL EMPLOYMENT The East Rio Arriba Soil & Water Conservation district is hiring local youth residents for Youth Conservation Corps (YCC) seasonal positions. Candidates must be interested in learning about Natural Resources, Mapping Software, GPS Mapping, and Environmental Education. Students enrolled in Environmental Science courses are preferred. Employment begins in May 2025 and continues as late as October 2025. Exact starting date and weekly schedule will be discussed upon interview. Crew leader and crew member positions are available. Applicants must be New Mexico residents, be unemployed at the time of hire, be between 17-24 years old, and be legally authorized to work in the United States. Please email or hand deliver an application packet, resumé, and cover letter describing your interest in working for East Rio Arriba SWCD as a YCC member by May 19, 2025, to be considered for an interview. Application Packets can be found by going to our website: www.eraswcd.net Email to: deandre.velasquez@nm.nacdnet.net Address: East Rio Arriba Soil & Water Conservation District 19283 US HWY 84/285 Suite 112 Hernandez, NM 87537 505-753-0477

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YARD SALE IN SANTA CLARA PUEBLO SATURDAY, MAY 10, 9AM - 2PM Yard Sale in Santa Clara Pueblo - FOLLOW SIGNS



LEGAL NOTICES

Legal Notice

ANUNCIO DE SERVICIO PÚBLICO EN PERIÓDICO Anuncio de Servicio Público en Periódico (publicado en inglés y español) El siguiente anuncio es un requisito formal según las regulaciones de calidad del aire de Nuevo México.

El Laboratorio Nacional de Los Alamos solicitará al Departamento de Medio Ambiente de Nuevo México en junio de 2025 una importante modificación de la actual licencia de calidad del aire de la planta de energía (2195B-M3R4). La ubicación exacta de la instalación, conocida como Planta de Energía del Área Técnica 3, es TA-3, SM-22 en Diamond Drive, en el Laboratorio Nacional de Los Álamos. La ubicación aproximada de esta instalación es 1 milla al sur de la intersección de Diamond Drive y Trinity Drive, en el Condado de Los Álamos. Actualmente la Planta de Energía TA-3 tiene licencia para operar calderas para la producción de vapor para ser utilizado como fuente de calefacción en aproximadamente 40 edificios en TA-3, y un Generador de Turbina de Combustión de Gas (GTCG) que produce electricidad. El laboratorio es propiedad del Departamento de Energía y es operado por Triad National Security, LLC.

Como parte de esta importante modificación de la licencia, se prevé apagar únicamente la caldera existente TA-3-22-1 durante la Fase 1 de la Licencia 2195B-M3R4. Las calderas TA-3-22-2 y TA-3-22-3 (Calderas #2 y #3) continuarán en funcionamiento,

cada una con una capacidad de 178.5 MMBtu/hr. La construcción e instalación de dos nuevas calderas auxiliares, números de unidad TA-3-22-4 (Caldera #4) y TA-3-22-5 (Caldera #5), cada una con una capacidad de 72.3 MMBtu/hr, se completó como parte de la licencia 2018 NSR. El Generador de Turbina de Combustión de Gas (GTCG) TA-3-22-CT-1, no se convertirá en un sistema de Calor y Energía Combinados, y la Fase 3, tal como está actualmente autorizada para construcción, no se completará. La modificación también solicita que la turbina de combustión continúe operando en un rango de carga entre el 80% y el 100%. La infraestructura dentro de

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la planta de energía principal consistirá de dos calderas viejas y de 178.5 MMBtu cada una, dos calderas auxiliares de 72.3 MMBtu/hr cada una, y la turbina de combustión existente para generación de electricidad y vapor.
El objetivo de esta importante modificación de la licencia para la Planta de Energía TA-3 del LANL es solicitar una flexibilidad operativa que permita que las dos calderas existentes (Calderas #2 y #3), instaladas en la década de 1950, sirvan como calderas de respaldo para las dos calderas auxiliares más nuevas. Las Calderas #2 y #3 no estarán completamente operativas al mismo tiempo. Cada una de las cuatro calderas quema gas natural (el aceite combustible se usa solo como combustible de respaldo) para producir vapor. La GTGC es una turbina de ciclo simple que utiliza gas natural y produce sólamente energía eléctrica. Esta importante modificación de la licencia no incluye la instalación de ningún equipo nuevo. La flexibilidad operativa solicitada para operar las cuatro calderas y la turbina en varios escenarios operativos da como resultado emisiones diferentes a las estimaciones originales de la Fase 1. En general, no habrá cambios en el estatus principal/secundario de la instalación según los requisitos de PSD y Título V.
Las cantidades máximas estimadas de cualquier contaminante atmosférico regulado serán las siguientes, en libras por hora (pph) y toneladas por año (tpy), y podrían cambiar ligeramente durante la revisión del Departamento:
Contaminante Libras por hora (pph) Toneladas por año (tpy)
Material Particulado (PM) 11.161 pph* 9.383 tpy*
PM10 11.161 pph* 9.383 tpy*
PM2.5 9.207 pph* 9.336 tpy*
Dióxido de Azufre (SO2) 26.503 pph* 3.384 tpy*
Óxidos de Nitrógeno (NOx) 59.465 pph* 87.199 tpy*
Monóxido de Carbono (CO) 49.718 pph* 97.449 tpy*
Compuestos Orgánicos Volátiles (VOC) 3.206 pph* 4.512 tpy*
Suma total de todos los contaminantes de aire peligrosos (HAPs) 1.428 pph 2.381 tpy
Contaminante Tóxico del Aire (TAP) 0.318 pph -
Emisiones de Gases de Efecto Invernadero como CO2e total - 320,448 tpy
* Las emisiones estimadas por hora y anuales incluyen arranque, apagado y mantenimiento, según lo requieren los avisos públicos. Los horarios de operación estándar y máximos serán de 24 horas al día, 7 días a la semana, y un máximo de 52 semanas al año.
El operador y propietario de la instalación es: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, Nuevo México, 87545, operador del Laboratorio Nacional de Los Álamos para el Departamento de Energía de EE. UU., 3747 West Jemez Road, Los Álamos, NM 87544. Para consultas al Laboratorio, comuníquese con la Oficina de Comunicación Ambiental y Participación Pública, con atención a Steve Horak, al 505-551-4514, envoutreach@lanl.gov, o Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Álamos, Nuevo México 87545. Si tiene comentarios sobre la construcción u operación de esta instalación y desea que sus comentarios se incluyan en el proceso de revisión de la licencia, debe enviarlos por escrito a la siguiente dirección: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Otros comentarios y preguntas pueden enviarse verbalmente al (505) 476-4300; 1 800 224-7009. Con sus comentarios, por favor indique el nombre de la compañía y el nombre de la instalación, o envíe una copia de este aviso junto con sus comentarios. Esta información es necesaria ya que el Departamento podría no haber recibido aún la solicitud de permiso. Incluya una dirección de devolución legible. Una vez que el Departamento haya completado su revisión preliminar de la solicitud y sus impactos en la calidad del aire, el aviso del Departamento se publicará en la sección legal de un periódico distribuido cerca de la ubicación de la instalación. (Publicado el dia 8 de mayo, 2025)

AVIS Según los datos y las condiciones actuales, se estima que la restricción de aguas superficiales en la cuenca del río Chama comenzará en mayo del 2025. La fecha de inicio de la restricción puede cambiar, según las lluvias que reciba la cuenca. Debido a la reducción de la corriente a lo largo del río Chama y conforme a la regulación NMAC 19.25.13.7.C(4) y al Acuerdo Local de Derechos de Aguas Ohkay Owingeh del río Chama, la Oficina del Ingeniero Estatal comenzará a implementar el Acuerdo sobre los Derechos de Aguas del río Chama. Durante este período, los jefes de riego pueden reducir o limitar los desvíos hacia las acequias/canales y los usuarios individuales, conforme a dicho acuerdo. Para obtener más información o una copia del acuerdo, favor de comunicarse con Holly Wilkie, jefe de riego del Upper Chama, al 505-469-0316; con Joe Piña, jefe de riego del Lower Chama , al 505- 795-0358; o con la Oficina de Derechos de Aguas del Distrito 6 en la Oficina del ingeniero estatal (OSE, por sus siglas en inglés) al 505-827-6120. La Oficina del Ingeniero Estatal (OSE, por sus siglas en inglés) comenzará con las restricciones de aguas superficiales en la cuenca del río Chama en mayo de 2025. La fecha de inicio puede cambiar, según las lluvias que reciba la cuenca. Debido a la disminución del caudal del río Chama, las restricciones se implementarán conforme a la regulación NMAC 19.25.13.7(C)(4) y al Acuerdo Local de Derechos de Aguas Ohkay Owingeh del río Chama. Durante ese período, los jefes de riego de OSE pueden modificar o restringir los desvíos hacia las acequias, canales y usuarios individuales, conforme a lo dispuesto en el acuerdo. Para obtener más información o para solicitar una copia del Acuerdo sobre Derechos de Aguas del río Chama, favor de comunicarse con Holly Wilkie, jefe de riego del Upper Chama, al 505-469-0316; con Joe Piña, jefe de riego del Lower Chama, al 505- 795-0358; o con la Oficina de Derechos de Aguas del Distrito 6 en la Oficina del Ingeniero Estatal (OSE, por sus siglas en inglés) al 505-827-6120 (Published May 1, 2025 May 8, 2025 May 15,2025)

NOTICE Based on current conditions and data, surface water curtailment in the Rio Chama Basin is expected to begin May 2025. The curtailment start date is subject to change based on precipitation events within the basin. Due to declining flows along the Rio Chama and pursuant to NMAC 19.25.13.7.C(4) and the Ohkay Owingeh Rio Chama Water Rights Local Settlement Agreement, the Office of the State Engineer will begin implementing the Rio Chama Water Sharing Agreement. During this time Water Masters may reduce or limit diversions to Acequias/Ditches and individual users in accordance with the Water Sharing Agreement. For more information or to obtain a copy of the sharing agreement please contact: Holly Wilkie (Upper Chama) 505-469-0316 or Joe Piña (Lower Chama) 505-795-0358 or the OSE Water Rights District 6 Office 505-827-6120. The Office of the State Engineer (OSE) will commence surface water curtailment in the Rio Chama Basin in May 2025, with the start date subject to change depending on precipitation events within the basin. Due to reduced flows on the Rio Chama curtailment will be implemented pursuant to NMAC 19.25.13.7(C)(4) and the Ohkay Owingeh Rio Chama Water Rights Local Settlement Agreement. During this time the OSE Water Masters may adjust or restrict diversions to acequias, ditches, and individual water users in accordance with the agreement's provisions. For further information or to request a copy of the Rio Chama Water Sharing Agreement, please contact Holly Wilkie, Upper Chama Water Master, at 505-469-0316; Joe Piña, Lower Chama Water Master, at 505-795-0358; or the OSE Water Rights District 6 Office at 505-827-6120. (Published May 1, 2025 May 8, 2025 May 15,2025)

NOTICE OF MEETING AND INTENT TO ADOPT ORDINANC RIO ARRIBA COUNTY, NEW MEXICO NOTICE OF MEETING AND INTENT TO ADOPT ORDINANCE Rio Arriba County, New Mexico, hereby gives notice of a regular Board of County Commissioners meeting on Tuesday, May 22, 2025 at 10:00 a.m. at the Commission Chambers, Espanola Annex, 1122 Industrial Park Road, Espanola, New Mexico 87532. At such meeting, the Board of County Commissioners will hold a public hearing concerning, and will consider for adoption, the ordinance described below. Complete copies of the Ordinance are available for public inspection during the normal and regular business hours of the County Clerk, Espanola or Tierra Amarilla, New Mexico. The title of the Ordinance is: AUTHORIZING THE ISSUANCE OF THE RIO ARRIBA COUNTY, NEW MEXICO GROSS RECEIPTS TAX/PROJECT REVENUE IMPROVEMENT REVENUE BONDS, SERIES 2025, IN AN AGGREGATE PRINCIPAL AMOUNT NOT TO EXCEED TEN MILLION DOLLARS ($10,000,000) FOR THE PURPOSE OF CONSTRUCTING, IMPROVING AND EQUIPPING A SKILLED NURSING FACILITY AND REHABILITATION HOSPITAL LOCATED WITHIN THE COUNTY; PROVIDING THAT THE BONDS WILL BE PAYABLE AND COLLECTIBLE SOLELY FROM THE (1) REVENUES DERIVED FROM THE 0.375% COUNTY GROSS RECEIPTS TAX IMPOSED BY THE COUNTY PURSUANT TO SECTION 7-20E-9 NMSA 1978 AND COUNTY ORDINANCE NO. 2018-01 ADPOTED ON AUGUST 31, 2017, AND (2) REVENUES DERIVED FROM THE OPERATION OF THE SKILLED NURSING FACILITY AND REHABILITATION HOSPITAL; PROVIDING FOR THE DISPOSITION OF THE GROSS RECEIPTS TAXES AND FACILITY REVENUES; PROVIDING FOR THE MANNER OF EXECUTION OF THE BONDS, THE METHOD OF PAYING THE BONDS AND OTHER DETAILS CONCERNING THE BONDS, INCLUDING BUT NOT LIMITED TO COVENANTS AND AGREEMENTS IN CONNECTION THEREWITH; DELEGATING AUTHORITY TO MAKE CERTAIN DETERMINATIONS CONCERNING THE TERMS OF THE BONDS; AND RATIFYING ACTION PREVIOUSLY TAKEN IN CONNECTION WITH THE BONDS. The title sets forth a general summary of the subject matter contained in the Ordinance. This notice constitutes compliance with Section 4-37-7 NMSA 1978. (Published May 8, 2025)

NOTICE OF PENDENCY OF ACTION FILED 1st JUDICIAL DISTRICT COURT Rio Ariba County 4/17/2025 4:10 PM No. D 117 DM 2020 00106 Eufemia S. Cordova, Petitioner(s) IN THE MATTER OF THE KINSHIP GUARDIANSHIP OF IS IS ZS ZS, (a) Child(ren) (use initials only), and concerning Neil Sandoval Respondent(s). NOTICE OF PENDENCY OF ACTION STATE OF NEW MEXICO to Neil Sandoval Respondent(s). Greetings: You are hereby notified that Eufemia Cordova, Petitioner(s), filed a Petition to Appoint Kinship Guardian(s) for Iziah, Izryell, Zia Zaneya Sandoval against you in the above entitled court and cause. Unless you enter your appearance and written response in this cause on or before thirty (30) days after the last date of publication, a judgment by default will be entered against you. Name and address of Petitioner or Petitioner's attorney. Eufemia S. Cordova PO Box 1119 Santa Cruz NM 87867 Witness the Honorable Broderick Bulman, Shannon, District Court Judge od the First Judicial District Court Of the State of New Mexico, and the seal of the District Court of Rio Arriba County, this 17 day of April, 2024 (COURT SEAL) KATHLEEN VIGIL CLERK OF THE COURT STATE OF NEW MEXICO Esmeralda Miramontes Deputy Clerk (Published May 8, 2025 May 15, 2025 May 22 2025)

NOTICE OF PENDENCY OF ACTION STATE OF NEX MEXICO COUNTY OF SANTA FE FIRST JUDICIAL DISTRICT Paticia I. Cruz, Petitioners(s) No.D.101. DM.2025.00081 IN THE MATTER OF THE KINSHIP GUARDIANSHIP OF D.H (a) Child(ren) (use initials only), and concerning Daniel Hernandez Kimberly Tsoodle Respondent(s). NOTICE OF PENDENCY OF ACTION STATE OF NEW MEXICO to Kimberly Tsoodle Respondent(s). Greetings: You are hereby notified that Patricia I. Cruz, Petitioner(s), filed a Petition to Appoint Kinship Guardian(s) for Daniel J. Hernandez born in 2017 against you in the above entitled court and cause. Unless you enter your appearance and written response in this cause on or before thirty (30) days after the last date of publication, a judgment by default will be entered against you. Patricia I. Cruz Petitioner(s) Name 9301 Volcano Rd NW 159 Mailing Address Albuquerque NM 87121 City/State/Zip Code (505) 376-0321 Phone Number/Email Address Witness the Honorable Broderick Bulman Shannon District Court Judge of the First Judicial District Court of the State of New Mexico, and the seal of the District Court of Santa Fe County, this 18 day of April 2025 (COURT SEAL) KATHLEEN VIGIL CLERK OF THE DISTRICT COURT By: Esmerelda Miramontes Deputy Clerk (Published May 1, 2025 May 8, 2025)

NOTICE OF SUIT STATE OF NEW MEXICO COUNTY OF RIO ARRIBA FIRST JUDICIAL DISTRICT COURT PHILIP R. MARTINEZ, SUCCESSOR TRUSTEE OF THE MARTINEZ FAMILY TRUST, DATED JULY 2, 1998, Plaintiff, v. CAUSE NO. D-117-CV-2025-00079 GROUP I: FRED W. PHELPS AND VELMA B. PHELPS, GROUP II: THE FOLLOWING PERSONS, IF LIVING, IF DECEASED THEIR UNKNOWN HEIRS, DEVISEES OR LEGATEES: FRED W. PHELPS AND VELMA B. PHELPS, GROUP III: ALL UNKNOWN CLAIMANTS OF INTEREST IN THE PROPERTY ADVERSE TO THE PLAINTIFF, Defendants. NOTICE OF SUIT STATE OF NEW MEXICO to the above-named Defendants in Group I, II, and III, GREETINGS: You are hereby notified that the above-named Plaintiff has filed a civil action against you in the above-entitled Court and cause, the general object thereof being to quiet title on property located in Rio Arriba County, New Mexico, said property being more particularly described as: Lot One (1), Brazos Lodge Estate Cabin Sites, as shown on plat filed in the Office of the County Clerk, Rio Arriba County, New Mexico, on Januay 3, 1966, in the Book of Plats, page 338. Unless you file and serve a pleading or motion in response to the complaint in said cause on or before 30 days after the last publication date of this notice, judgment by default will be entered against you. Respectfully Submitted, FRIEDENSTEIN LAW FIRM, LLC /s/ Elizabeth V. Friedenstein Elizabeth V. Friedenstein 2003 Southern Blvd. SE, #102-212 Rio Rancho, NM 87124 Phone: (505) 480-2761 Email: liz@friedensteinlawfirm.com Attorneys for Plaintiff (Published April 24, 2025 May 1, 2025 May 8, 2025)

NOTICE SANTA CRUZ IRRIGATION DISTRICT OFFICE The monthly meeting of the (SCID) Santa Cruz Irrigation District, Board of Directors in Accordance with Statute 73 1 15 1978 will be held May 15th, 2025 at 9:00 am at the Santa Cruz Irrigation District Office. (Published May 8, 2025 May 15, 2025)

NOTICE TO CREDITORS STATE OF NEW MEXICO COUNTY OF RIO ARRIBA FIRST JUDICIAL DISTRICT NO. D-117-PB-2025-00017 IN THE MATTER OF THE ESTATE OF DELFILDO GARCIA, DECEASED. NOTICE TO CREDITORS NOTICE IS HEREBY GIVEN that Kathleen Lobato, has been appointed Personal Representative of the Estate of the Decedent. All persons having claims against the Estate of the Decedent are required to present their claims within four (4) months after the date of the first publication of any published notice to creditors or sixty (60) days after the date of mailing or other delivery of this notice, whichever is later, or the claims will be forever barred. Claims must be presented by delivering or mailing a written statement of the claim to the Personal Representative, c/o Sutin, Thayer & Browne, P.O. Box 1945, Albuquerque, New Mexico 87103, or filed with the District Court. DATED: April 23, 2025. Respectfully submitted, SUTIN, THAYER & BROWNE A Professional Corporation By /s/ Lisa Y.W. Cosper Lisa Y.W. Cosper Attorney for Personal Representative P. O. Box 1945 Albuquerque, New Mexico 87103 (505) 883-2500 739253 (Published May 1, 2025 May 8, 2025 May 15, 2025)

NOTICE TO CREDITORS BY PUBLICATION FILED 1st JUDICIAL DISTRICT COURT Rio Arriba County 4/28/2025 12:16 PM STATE OF NEW MEXICO COUNTY OF RIO ARRIBA FIRST JUDICIAL DISTRICT COURT IN THE MATTER OF THE ESTATE OF DAVID PAUL POWERS, Deceased. KATHLEEN VIGIL CLERK OF THE COURT Mariah Gonzales NO. D 117 PB 2024 00055 NOTICE TO CREDITORS BY PUBLICATION RICHARD POWERS has been appointed as the Personal Representative of the Estate of DAVID PAUL POWERS, deceased. All persons having claims against this Estate are required to present their claims within four (4) months after the date of the first publication of this Notice or the claims will be forever barred. Claims must be presented either to the Personal Representative c/o Davis Miles, PLLC. at 2440 Louisiana Blvd. NE, Suite 300, Albuquerque, New Mexico, 87110 or filed with the First Judicial District Court of Rio Arriba County, 7 Main St. Tierra Amarilla, NM 87575. /s/ Richard Powers Richard Powers Personal Representative c/o DAVIS MILES, PLLC. 2440 Louisiana Blvd. NE, Suite 300 Albuquerque, NM 87110 Respectfully Submitted By: /s/ C. Joseph Wiseman C. JOSEPH WISEMAN for DAVIS MILES, PLLC. 2440 Louisiana Blvd. NE, Suite 300 Albuquerque, NM 87110 (505) 539-5482 (Published May 8, 2025 May 15, 2025 May 22 2025)

PUBLIC NOTICE PO#PO01943 NOTICE IS HEREBY GIVEN THAT ON 14TH DAY OF MAY 2025 AT 5:30PM AT VILLAGE HALL 1512 B HWY. 17, CHAMA NM 87520 THE VILLAGE GOVERNING BODY WILL CONDUCT A PUBLIC HEARING. THEN AND THERE, PROPOSED VILLAGE OF CHAMA AMENDED PLANNING AND ZONING ORDINANCE 2025-01 AS AMENDED WILL BE CONSIDERED FOR ADOPTION. A COPY OF THE PROPOSED ORDINANCE IS AVAILABLE DURING REGULAR AND NORMAL BUSINESS HOURS. (Published April 24, 2025 & May 1 & 8, 2025)

PUBLIC NOTICE - LIBRARY PO#-PO01944 NOTICE IS HEREBY GIVEN THAT ON 14TH DAY OF MAY 2025 AT 5:30PM AT VILLAGE HALL 1512 B HWY. 17, CHAMA NM 87520 THE VILLAGE GOVERNING BODY WILL CONDUCT A PUBLIC HEARING. THEN AND THERE, AN ORDINANCE CHANGING THE NAME OF THE VILLAGE OF CHAMA LIBRARY FROM ELEANOR DAGGETT PUBLIC LIBRARY TO ELEANOR DAGGETT MEMORIAL LIBRARY; AMENDING SECTION 2, 5 AND 14 OF ORDINANCE # 136 CHANGING PROVISIONS REGARDING ADMINISTRATION, DUTIES AND FUNCTIONS OF THE BOARD AND PROVIDING FOR BIANNUAL MEETINGS OF THE BOARD A COPY OF THE PROPOSED ORDINANCE IS AVAILABLE DURING REGULAR AND NORMAL BUSINESS HOURS (Published April 24, May 1 & May 8, 2025)

PUBLIC SERVICE ANNOUNCEMENT Newspaper Public Service Announcement (published in English and Spanish) The following announcement is a requirement of New Mexico air quality regulations. Los Alamos National Laboratory will be applying to the New Mexico Environment Department in June 2025 for a significant permit revision to the existing power plant air quality permit (2195B-M3R4). The exact location for the facility known as Technical Area 3 Power Plant is at TA-3, SM-22 on Diamond Drive in the Los Alamos National Laboratory. The approximate location of this facility is 1 mile south of the intersection of Diamond Drive and Trinity Drive in Los Alamos County. The TA-3 Power Plant is currently permitted to operate boilers to produce steam for use as a heating source in approximately 40 buildings in TA-3 and a Combustion Gas Turbine Generator(C-GTG) that produces electricity. The Laboratory is owned by the Department of Energy and operated by Triad National Security, LLC. For this significant permit revision, only the existing boiler TA-3-22-1, is planned for permanent shutdown during Phase 1 of Permit 2195B-M3R4. Boilers TA-3-22-2 and TA-3-22-3 (Boilers #2 and #3) are planned for continued operation and each is rated at a capacity of 178.5 MMBtu/hr. The construction and installation of two new auxiliary boilers, unit numbers TA-3-22-4 (Boiler #4) and TA-3-22-5 (Boiler #5, each rated at a capacity of 72.3MMBtu/hr has been completed as part of the 2018 NSR permit. The Combustion Gas Turbine Generator (CGTG),-TA-3-22-CT-1, will not be converted to a Combined Heat and Power (CHP) system and Phase 3 as currently permitted for construction will not be completed. The revision also requests that the combustion turbine continue to operate in a range of 80% to 100% load. The infrastructure within the main power plant will consist of two older boilers at 178.5 MMBtu each, two auxiliary boilers rated at 72.3 MMBtu/hr each, and the existing combustion turbine for electrical and steam generation.The purpose of this significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbinethat uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.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 yearParticulate Matter (PM) 11.161 pph* 9.383 tpy*PM10 11.161 pph* 9.383 tpy*PM2.5 9.207 pph* 9.336 tpy*Sulfur Dioxide (SO2) 26.503 pph* 3.384 tpy*Nitrogen Oxides (NOx) 59.465 pph* 87.199 tpy*Carbon Monoxide (CO) 49.718 pph* 97.449 tpy*Volatile Organic Compounds (VOC) 3.206 pph* 4.512 tpy*-Total sum of all Hazardous Air Pollutants (HAPs) 1.428 pph 2.381 tpy Toxic Air Pollutant (TAP) 0.318 pph -Green House Gas Emissions as Total CO2e - 320,448 tpy * Estimated hourly and annual start up, shut down and maintenance emissions have been added per public notice requirements.The standard and maximum operating schedules will be 24 hours per day, 7 days a week and a maximum of 52weeks per year.The operator and owner of the Facility is: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, NewMexico, 87545, operator of Los Alamos National Laboratory for the U.S. Department of Energy, 3747 West Jemez Road, Los Alamos, NM 87544. Please direct questions for the Laboratory to the Environmental Communication &Public Involvement Office point of contact, Steve Horak, at 505-551-4514, envoutreach@lanl.gov, orEnvironmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Alamos, New Mexico 87545.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: PermitPrograms Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite1; 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. (Published May 8, 2025)

REQUEST FOR COMPETITIVE SEALED PROPOSALS Municipal Attorney Request for Competitive Sealed Proposals The Village of Chama, pursuant to the New Mexico Procurement code is accepting proposals to provide to Village of Chama municipal attorney services. Copies of the Request for Proposal can be obtained in person by contacting Krystal Garcia, Chief Procurement Officer at 1512 B Hwy 17 Chama, NM 87520 or telephone request at (575) 756-2184. Proposals must be received by the Village of Chama on or before 2:00pm on May 19, 2025. All proposals received after 2:00pm on May 19, 2025, will be returned unopened. The Village of Chama reserves the right to reject any or all proposals (Published April 24, 2025, May 1, 2025 May 8, 2025)

RIO GRANDE SUN The Voice of Northern New Mexico
TO PLACE AN AD email info to classifieds@riograndesun.com or call 505-753-2126

Attachment 5

Certified Letters and Receipts

EPC-DO: 25-169

LA-UR: 25-25914

July 2025

Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Naomi D. Maestas
Los Alamos County Clerk
1000 Central Avenue, Suite 240
Los Alamos, New Mexico 87544

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Ms. Maestas:

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Green House Gas Emissions as Total CO_2e	-	320,448 tpy

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Sincerely,

Sarah S. Holcomb

Sarah S. Holcomb
Group Leader, EPC-CP
P.O. Box 1663, MS K490
Los Alamos, NM 87545

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.

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Steven A. Coleman, Triad, ALDESHQ, scoleman@lanl.gov
Jennifer E. Payne, Triad, ALDESHQ, jpayne@lanl.gov
Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov
Steven L. Story, Triad, EPC-DO, story@lanl.gov
Katherine J. W. Higgins, Triad, EPC-DO, kwurden@lanl.gov
Sarah S. Holcomb, Triad, EPC-CP, sholcomb@lanl.gov
Stephen L. Pierett, Triad, EPC-CP, spierett@lanl.gov
Katelyn R. Mahoney, Triad, EPC-CP, kmahoney@lanl.gov
Heather C. Seus, Triad, EPC-CP, heatherseus@lanl.gov
Phillip E. Ulibarri, Triad, UI-OPS, phillip@lanl.gov
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Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo de Cochiti
Governor Everett P. Herrera
P.O. Box 70
Cochiti Pueblo, NM 87072

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Mr. Herrera:

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Sincerely,

Sarah S. Holcomb

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Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Anne Brady-Romero
Sandoval County Clerk
P.O. Box 40
Bernalillo, New Mexico 87004

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Ms. Brady-Romero:

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Sincerely,

Sarah S. Holcomb

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Group Leader, EPC-CP
P.O. Box 1663, MS K490
Los Alamos, NM 87545

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Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Katharine Clark
Santa Fe County Clerk
102 Grant Ave
Santa Fe, New Mexico 87501

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Ms. Clark:

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The purpose of his significant permit revision for the LANL TA-3 Power Plant is to request operational flexibility to allow two existing boilers (Boilers #2 and #3) that were installed in the 1950's to serve as standby boilers for two newer auxiliary boilers. Boilers #2 and #3 will not be fully operational at the same time. Each of the four boilers combusts natural gas (fuel oil only used as a standby fuel) to provide steam. The CGTG is a simple cycle turbine that uses natural gas and produces electric power only. This significant permit revision does not include installation of any new equipment. Requested operational flexibility to operate the four boilers and the turbine in various operating scenarios results in emissions that are different from the original Phase 1 estimates. Overall, there will be no changes to the facility's major/minor status for both PSD and Title V.
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Total sum of all Hazardous Air Pollutants (HAPs)	1.428 pph	2.381 tpy
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The standard and maximum operating schedules will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

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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.

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Sincerely,

Sarah S. Holcomb

Sarah S. Holcomb
Group Leader, EPC-CP
P.O. Box 1663, MS K490
Los Alamos, NM 87545

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Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo de San Ildefonso
Governor Christopher Moquino
02 Tunyo Po
Santa Fe, NM 87506

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Mr. Moquino:

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Sarah S. Holcomb

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Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo of Santa Clara
Governor J. Michael Chavarria
P.O. Box 580
Espanola, NM 87532

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

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Los Alamos, NM 87545

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Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Debbie Garcia
Espanola City Clerk
405 N. Paseo de Oñate
Española, NM 87532

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Ms. Garcia:

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Total sum of all Hazardous Air Pollutants (HAPs)	1.428 pph	2.381 tpy
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The standard and maximum operating schedules will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

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Sincerely,

Sarah S. Holcomb

Sarah S. Holcomb
Group Leader, EPC-CP
P.O. Box 1663, MS K490
Los Alamos, NM 87545

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PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo of Jemez
Governor Peter Madalena
P.O. Box 100
Jemez Pueblo, NM 87024

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Mr. Madalena:

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PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo of Pojoaque
Governor Jenelle Roybal
78 Cities of Gold Road
Santa Fe, NM 87506

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

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Los Alamos, NM 87545

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Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Linda L. Padilla
Rio Arriba County Clerk
P.O. Box 158
Tierra Amarilla, New Mexico 87575

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Ms. Padilla:

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Sincerely,

Sarah S. Holcomb
Group Leader, EPC-CP
P.O. Box 1663, MS K490
Los Alamos, NM 87545

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PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo of Nambe
Governor Nathaniel Porter
15A NP102 West
Santa Fe, NM 87506

CERTIFIED LETTER

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505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Ohkay Owingeh
Governor Larry Phillips, Jr.
P.O. Box 1099
Ohkay Owingeh, NM 87566

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Los Alamos, NM 87545

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Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo of Picuris
Governor Craig Quanchello
P.O. Box 127
Penasco, NM 87553

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Mr. Quanchello:

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Total sum of all Hazardous Air Pollutants (HAPs)	1.428 pph	2.381 tpy
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The standard and maximum operating schedules will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The operator of the Facility is: Triad National Security, LLC, P.O. Box 1663, MS J978, Los Alamos, New Mexico, 87545, and the owner is the Los Alamos National Laboratory for the U.S. Department of Energy, 3747 West Jemez Road, Los Alamos, NM 87544. Please direct questions for the Laboratory to the Environmental Communication & Public Involvement Office point of contact, Steve Horak, at 505-551-4514, envoutreach@lanl.gov, or Environmental Communication & Public Involvement, P.O. Box 1163, MS K491, Los Alamos, New Mexico 87545.

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Sincerely,

Sarah S. Holcomb

Sarah S. Holcomb
Group Leader, EPC-CP
P.O. Box 1663, MS K490
Los Alamos, NM 87545

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Los Alamos
NATIONAL LABORATORY

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PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo of Taos
Governor Gary Lujan
P.O. Box 1846
Taos, NM 87571

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Mr. Lujan:

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Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Pueblo of Tesuque
Governor Milton Herrera
20 TP828
Route 42, Box 360-T

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Mr. Herrera:

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Los Alamos, NM 87545

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Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

San Felipe Pueblo
Governor Carl Valencia
PO Box 4339
San Felipe Pueblo, NM 87001

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Mr. Valencia:

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Sincerely,

Sarah S. Holcomb

Sarah S. Holcomb
Group Leader, EPC-CP
P.O. Box 1663, MS K490
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Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Cochiti Pueblo
Director - Environmental Department
P.O. Box 70 Cochiti Street
Cochiti Pueblo, NM 87072

CERTIFIED LETTER

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505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Jemez Pueblo
Natural Resources Director
Department of Resource Protection
Office of the Governor
P.O. Box 100
Jemez Pueblo, NM 87024

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Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory
PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

San Ildefonso Pueblo
Director of Environment and Cultural
Protection & Tribal Risk Assessment Program Manager
Route 5, Box 315 A
Santa Fe, NM 87501

CERTIFIED LETTER

SUBJECT: Public Notice - Certified Letters to Municipalities, Counties and Local Tribes

Dear Director:

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Sincerely,

Sarah S. Holcomb

Sarah S. Holcomb
Group Leader, EPC-CP
P.O. Box 1663, MS K490
Los Alamos, NM 87545

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PO Box 1663, K490
Los Alamos, NM 87545
505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

Santa Clara Pueblo
Director - Office of Environmental Affairs
P.O. Box 580-1 Key Street
Espanola, NM 87537

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505-667-0666

Environmental Protection and Compliance Division
Compliance Programs Group

Symbol: EPC-DO: 25-085
LA-UR: 25-23973
Locates: N/A
Date: May 1, 2025

San Felipe Pueblo
Environmental Director
Office of the Governor
PO Box 4339
San Felipe Pueblo, NM 87001

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Los Alamos, NM 87545

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.

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List of local governments, municipalities, and pueblos provided certified notification.

Naomi D. Maestas
Los Alamos County Clerk
1000 Central Avenue, Suite 240
Los Alamos, New Mexico 87544

EJ 136 103 795 US

Pueblo de Cochiti
Governor Everett P. Herrera
P.O. Box 70
Cochiti Pueblo, NM 87072

EJ 136 103 818 US

Anne Brady-Romero
Sandoval County Clerk
P.O. Box 40
Bernalillo, New Mexico 87004

EJ 136 103 804 US

Katharine Clark
Santa Fe County Clerk
102 Grant Ave
Santa Fe, New Mexico 87501

EJ 136 103 781 US

Pueblo de San Ildefonso
Governor Christopher Moquino
02 Tunyo Po
Santa Fe, NM 87506

EJ 136 103 821 US

Pueblo of Santa Clara
Governor J. Michael Chavarria
P.O. Box 580
Espanola, NM 87532

EJ 136 103 835 US

Debbie Garcia
Espanola City Clerk
405 N. Paseo de Oñate
Española, NM 87532

EJ 127 929 375 US

Pueblo of Jemez
Governor Peter Madalena
P.O. Box 100
Jemez Pueblo, NM 87024

EJ 127 929 389 US

Pueblo of Pojoaque
Governor Jenelle Roybal
78 Cities of Gold Road
Santa Fe, NM 87506

EJ 127 929 392 US

Linda L. Padilla
Rio Arriba County Clerk
P.O. Box 158
Tierra Amarilla, New Mexico 87575

EJ 127 929 415 US

Pueblo of Nambe
Governor Nathaniel Porter
15A NP102 West
Santa Fe, NM 87506

EJ 127 929 429 US

Ohkay Owingeh
Governor Larry Phillips, Jr.
P.O. Box 1099
Ohkay Owingeh, NM 87566

EJ 127 929 432 US

Pueblo of Picuris
Governor Craig Quanchello
P.O. Box 127
Penasco, NM 87553

EJ 127 929 446 US

Pueblo of Taos
Governor Gary Lujan
P.O. Box 1846
Taos, NM 87571

EJ 127 929 450 US

Pueblo of Tesuque
Governor Milton Herrera
20 TP828
Route 42, Box 360-T
Santa Fe, NM 87506

EJ 127 929 463 US

San Felipe Pueblo
Governor Carl Valencia
PO Box 4339
San Felipe Pueblo, NM 87001

EJ 127 929 477 US

Cochiti Pueblo
Director - Environmental Department
P.O. Box 70 Cochiti Street
Cochiti Pueblo, NM 87072

EJ 127 929 485 US

Jemez Pueblo
Natural Resources Director
Department of Resource Protection
Office of the Governor
P.O. Box 100
Jemez Pueblo, NM 87024

EJ 127 929 494 US

San Ildefonso Pueblo
Director of Environment and Cultural Protection & Tribal Risk Assessment Program Manager
Route 5, Box 315 A
Santa Fe, NM 87501

EJ 127 929 525 US

Santa Clara Pueblo
Director - Office of Environmental Affairs
P.O. Box 580-1 Key Street
Española, NM 87537

EJ 127 929 503 US

San Felipe Pueblo
Environmental Director
Office of the Governor
PO Box 4339
San Felipe Pueblo, NM 87001

EJ 127 929 517 US