



DEPARTMENT OF THE ARMY
U.S. ARMY GARRISON WHITE SANDS MISSILE RANGE
100 Headquarters Avenue
WHITE SANDS MISSILE RANGE, NEW MEXICO 88002-5000

November 15, 2021

Environmental Division

RECEIVED

NOV 22 2021

New Mexico Environment Department
Air Quality Bureau
Permits Section
525 Camino de Los Marquez, Suite 1
Santa Fe, NM 87505

Air Quality Bureau

Dear Sir or Madam:

Enclosed is the Universal Air Quality Permit Application pertaining to the 5-year renewal of Title V Permit P085R3M3.

I, Brian D. Knight, certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in the attached application are true, accurate and complete.

A copy of this application is also being sent to EPA: Chief, Air Permits, US EPA Region 6, 6NE-AA, 1445 Ross Avenue, Suite 1200, Dallas, TX 75202-2733

Please contact Jorge Uribe, Air Quality Program Manager, at (915) 241-6379, jorge.a.uribe2.civ@army.mil if you have any questions.

Sincerely,

Brian D. Knight
Chief, Environmental Division

Enclosures

Mail Application To: New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505 Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb		For Department use only: <div style="text-align: center; font-size: 2em; color: blue;">RECEIVED</div> <div style="text-align: center; color: red;">NOV 22 2021</div> <div style="text-align: center; color: blue;">Air Quality Bureau</div> AIRS No.:
--	---	---

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. See Section 1-I for submittal instructions for other permits.

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

Acknowledgements:

☒ I acknowledge that a pre-application meeting is available to me upon request. ☒ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.
☐ \$500 NSR application Filing Fee enclosed OR ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).
☐ Check No.: _____ in the amount of _____
☐ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.
☐ I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.
☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full \$500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

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

Section 1 – Facility Information

Section 1-A: Company Information


		AI # if known (see 1 st 3 to 5 #s of permit IDEA ID No.): 141	Updating Permit/NOI #: P085R3M3
1	Facility Name: White Sands Missile Range (WSMR)	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): 100 Headquarters Avenue (AMIM-WSP-E-EC Bldg 163), WSMR, NM 88002		
2	Plant Operator Company Name: US Army	Phone/Fax: 575-678-2225/575-678-4028	
a	Plant Operator Address: 100 Headquarters Avenue (AMIM-WSP-E-EC Bldg 163), WSMR, NM 88002		

Section 22: Certification

Company Name: US Army – White Sands Missile Range (WSMR)

I, Brian D. Knight, 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 15 day of November 2021 upon my oath or affirmation, before a notary of the State of New Mexico.


*Signature

11/15/21
Date

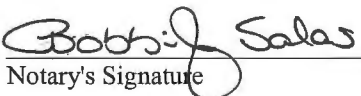
Brian D. Knight
Printed Name

Chief, Environmental Division
Title

Scribed and sworn before me on this 15th day of NOVEMBER, 2021.

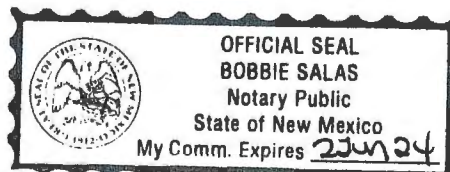
My authorization as a notary of the State of New Mexico expires on the

2nd day of JUNE, 2024.


Notary's Signature

15 NOV 21
Date

BOBBIE J. SALAS
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.

b	Plant Operator's New Mexico Corporate ID or Tax ID: NA	
3	Plant Owner(s) name(s): US Army	Phone/Fax: 575-678-2225/575-678-4028
a	Plant Owner(s) Mailing Address(s): 100 Headquarters Avenue (AMIM-WSP-E-EC Bldg 163), WSMR, NM 88002	
4	Bill To (Company): US Army – White Sands Missile Range	Phone/Fax: 575-678-2225/575-678-4028
a	Mailing Address: 100 Headquarters Avenue (AMIM-WSP-E-EC Bldg 163), WSMR, NM 88002	E-mail: jorge.a.uribe2.civ@army.mil
5	<input checked="" type="checkbox"/> Preparer: Jorge Uribe, Air Quality Program Manager <input type="checkbox"/> Consultant:	Phone/Fax: 915-241-6379/575-678-4028
a	Mailing Address: 100 Headquarters Avenue (AMIM-WSP-E-EC Bldg 163), WSMR, NM 88002	E-mail: jorge.a.uribe2.civ@army.mil
6	Plant Operator Contact: Jorge Uribe	Phone/Fax: 915-241-6379/575-678-4028
a	Address: 100 Headquarters Avenue (AMIM-WSP-E-EC Bldg 163), WSMR, NM 88002	E-mail: jorge.a.uribe2.civ@army.mil
7	Air Permit Contact: Brian Knight	Title: Chief, Environmental Division
a	E-mail: brian.d.knight.civ@army.mil	Phone/Fax: 575-678-7810/575-678-4028
b	Mailing Address: 100 Headquarters Avenue (AMIM-WSP-E-EC Bldg 163), WSMR, NM 88002	
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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.b If yes to question 1.a, is it currently operating in New Mexico? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3	Is the facility currently shut down? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: P085R3M3
7	Has this facility been issued a No Permit Required (NPR)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the NPR No. is:
8	Has this facility been issued a Notice of Intent (NOI)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the NOI No. is:
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the permit No. is:
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the register No. is: GCP-2-3933

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: NA	Daily: NA	Annually: NA
b	Proposed	Hourly: NA	Daily: NA	Annually: NA
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: NA	Daily: NA	Annually: NA
b	Proposed	Hourly: NA	Daily: NA	Annually: NA

Section 1-D: Facility Location Information

1	Section: 11	Range: 2 East	Township: 21 South	County: Dona Ana, Otero, Sierra, Socorro, Lincoln	Elevation (ft): 4272
2	UTM Zone: <input type="checkbox"/> 12 or X 13			Datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83 X WGS 84	
a	UTM E (in meters, to nearest 10 meters):			UTM N (in meters, to nearest 10 meters): 3583627	
b	AND Latitude (deg., min., sec.):			Longitude (deg., min., sec.): -106 deg 28 min 48 sec	
3	Name and zip code of nearest New Mexico town: Organ, NM 88001				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Las Cruces, NM, take Highway 70 due-east past Organ NM (nearest town) and exit White Sands Missile Range				
5	The facility is 9 (distance) miles East (direction) of Organ, NM (nearest town).				
6	Status of land at facility (check one): <input type="checkbox"/> Private <input type="checkbox"/> Indian/Pueblo <input type="checkbox"/> Federal BLM <input type="checkbox"/> Federal Forest Service X Other (military installation)				
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: Mescalero Indian Reservation 6 miles east, White Mountain Area 15 miles east, Bosque del Apache 6 miles west				
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/aqb/modeling/classIareas.html)? <input type="checkbox"/> Yes <input type="checkbox"/> No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers:				
9	Name nearest Class I area: Bosque del Apache				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area: 6 miles				
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: Organ, NM 9 miles east of WSMR				
12	Method(s) used to delineate the Restricted Area: Continuous fencing, rugged physical terrain, guarded entrance gates. "Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.				
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? <input type="checkbox"/> Yes X No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.				
14	Will this facility operate in conjunction with other air regulated parties on the same property? <input type="checkbox"/> No X Yes If yes, what is the name and permit number (if known) of the other facility? NASA-WSTF, NRO-ADFSW				

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:		AM PM	End: <input type="checkbox"/> AM <input type="checkbox"/> PM
3	Month and year of anticipated start of construction: NA			
4	Month and year of anticipated construction completion: NA			
5	Month and year of anticipated startup of new or modified facility: NA			

6	Will this facility operate at this site for more than one year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

Section 1-F: Other Facility Information

1	Are there any current Air Quality Notices of Violation (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, specify: Tolling Agreement for Potential Violations		
a	If yes, NOV date or description of issue: Tolling Agreement (October 29, 2021)	NOV Tracking No:	
b	Is this application in response to any issue listed in 1-F, 1 or 1a above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, provide the 1c & 1d info below:		
c	Document Title:	Date:	Requirement # (or page # and paragraph #):
d	Provide the required text to be inserted in this permit:		
2	Is air quality dispersion modeling or modeling waiver submitted with this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3	Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
a	If Yes, what type of source? <input type="checkbox"/> Major (≥ 10 tpy of any single HAP OR ≥ 25 tpy of any combination of HAPS) OR <input checked="" type="checkbox"/> 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
a	If yes, include the name of company providing commercial electric power to the facility: El Paso Electric Company, Socorro County Electric Cooperative, Otero County Electric Cooperative Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

Section 1-G: Streamline Application

(This section applies to 20.2.72.300 NMAC Streamline applications only)

1	<input type="checkbox"/> I have filled out Section 18, "Addendum for Streamline Applications." <input checked="" type="checkbox"/> N/A (This is not a Streamline application.)
---	--

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.) Brian D. Knight (20.2.70.300.D.2 NMAC):		Phone: 575-678-7810
a	R.O. Title: Chief, Environmental Division	R.O. e-mail: brian.d.knight.civ@army.mil	
b	R. O. Address: 100 Headquarters Avenue (AMIM-WSP-E-EC Bldg 163), WSMR, NM 88002		
2	Alternate Responsible Official NA (20.2.70.300.D.2 NMAC):		Phone:
a	A. R.O. Title:	A. R.O. e-mail:	
b	A. R. O. Address:		
3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship): NA		
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.): NA		
a	Address of Parent Company: NA		
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.): NA		
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: NA		

7	<p>Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes:</p> <p>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: NA</p>
---	---

Section 1-I – Submittal Requirements

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

Hard Copy Submittal Requirements:

- 1) One hard copy **original signed and notarized application package printed double sided ‘head-to-toe’ 2-hole punched** as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be head-to-head. Please use **numbered tab separators** in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. Please include a copy of the check on a separate page.
- 2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This **copy** should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-toe 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.
- 3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, **two** CD copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a single CD submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB’s secure file transfer service.

Electronic files sent by (check one):

☒ CD/DVD attached to paper application

☐ secure electronic transfer. Air Permit Contact Name _____

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.

Table of Contents

Section 1:	General Facility Information
Section 2:	Tables
Section 3:	Application Summary
Section 4:	Process Flow Sheet
Section 5:	Plot Plan Drawn to Scale
Section 6:	All Calculations
Section 7:	Information Used to Determine Emissions
Section 8:	Map(s)
Section 9:	Proof of Public Notice (does not apply to Title V applications)
Section 10:	Written Description of the Routine Operations of the Facility
Section 11:	Source Determination
Section 12:	PSD Applicability Determination for All Sources & Special Requirements for a PSD Application
Section 13:	Discussion Demonstrating Compliance with Each Applicable State & Federal Regulation
Section 14:	Operational Plan to Mitigate Emissions
Section 15:	Alternative Operating Scenarios
Section 16:	Air Dispersion Modeling
Section 17:	Compliance Test History
Section 18:	Addendum for Streamline Applications (streamline applications only)
Section 19:	Requirements for the Title V (20.2.70 NMAC) Program (Title V applications only)
Section 20:	Other Relevant Information
Section 21:	Addendum for Landfill Applications
Section 22:	Certification Page

Section UA2

Table 2-A: Regulated Emission Sources

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

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/Reconstruction ²	Emissions vented to Stack #				
816	Aggregate Processing Rock Crusher	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30504030	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
833	Aggregate Processing Rock Crusher	Cedar Rapids Raytheon	SAVGF17 PSF12 1145	N/A	150 tons/hour	150 tons/hour	N/A	N/A	30504030	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
404	Concrete Batch Plant	Vince Hagen	550-10	930907	400 tons/hour	400 tons/hour	N/A	N/A	30501101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
406	Concrete Batch Plant	Ross	SH-7	6915	120 tons/hour	120 tons/hour	N/A	N/A	30501101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
843	Concrete Batch Plant	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30501101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
3017	Fuel Equipment Leaks	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40200101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
838	External Combustion-Boiler	Rite	150WGG	24387	1.25 MMBTUH	1.25 MMBTUH	N/A	N/A	10200601	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
844	External Combustion-Boiler	Cleaver Brooks	CB120015 0150	OL096775	6.12 MMBTUH	6.12 MMBTUH	N/A	N/A	10200601	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
845	External Combustion-Boiler	Cleaver Brooks	CB120015 0150	OL096776	6.12 MMBTUH	6.12 MMBTUH	N/A	N/A	10200601	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
3004	Fuel Dispensing	N/A	N/A	N/A	1112000 Gallons/Year	1112000 Gallons/Year	N/A	N/A	40400154	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
AAFES	Fuel Dispensing	N/A	N/A	N/A	1000000 Gallons/Year	1000000 Gallons/Year	N/A	N/A	40400154	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
3010	Fuel Loading Racks	N/A	N/A	N/A	1112000 Gallons/Year	1112000 Gallons/Year	N/A	N/A	40400151	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
AAFES	Fuel Loading Racks	N/A	N/A	N/A	1000000 Gallons/Year	1000000 Gallons/Year	N/A	N/A	40400151	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
GDF-ST4	Unleaded Gasoline Storage Tank	Hall Manufacturing	UL#142	N/A	12000 Gallons	12000 Gallons	2018	N/A	40400102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
GDF-RC2	Unleaded Gasoline Storage Tank	Hall Manufacturing	UL#142	N/A	12000 Gallons	12000 Gallons	2018	N/A	40400102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
GDF-MP5	Unleaded Gasoline Storage Tank	Hall Manufacturing	UL#142	N/A	12000 Gallons	12000 Gallons	2018	N/A	40400102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
GDF-MP6	Unleaded Gasoline Storage Tank	Hall Manufacturing	UL#142	N/A	12000 Gallons	12000 Gallons	2018	N/A	40400102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
AAFES A	Unleaded Gasoline Storage Tank	N/A	N/A	N/A	8648 Gallons	8648 Gallons	N/A	N/A	40400102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit	N/A	N/A

Table 2-A: Regulated Emission Sources

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

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/Reconstruction ²	Emissions vented to Stack #				
										<input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced		
AAFES B	Unleaded Gasoline Storage Tank	N/A	N/A	N/A	8648 Gallons	8648 Gallons	N/A	N/A	40400102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A
PH-E-#	Unleaded Gasoline Storage Tank Satellite Locations	N/A	N/A	N/A	<2000 Gallons	<2000 Gallons	N/A	N/A	40200101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A
506 (remove)	Internal Combustion-Generator	Caterpillar	VB02J5	78Z02062	603 HP	603 HP	N/A	N/A	20100102	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
507 (remove)	Internal Combustion-Generator	Caterpillar	VB02J5	78Z02102	551 HP	551 HP	N/A	N/A	20100102	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
846	Internal Combustion-Generator	Cummins	6CT8.3G	45504279	207 HP	207 HP	N/A	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
847	Internal Combustion-Generator	Cummins	6CT8.3G	45504270	207 HP	207 HP	N/A	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
848	Internal Combustion-Generator	Cummins	6CTA8.3-P	44641845	210 HP	210 HP	N/A	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
849	Internal Combustion-Generator	Cummins	6CTA8.3-P	44641834	210 HP	210 HP	N/A	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
850	Internal Combustion Generator	Cummins	6BTA5.9 G4	46514147	155 HP	155 HP	N/A	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
851	Internal Combustion Generator	Cummins	6BTA5.9 G4	46510417	155 HP	155 HP	N/A	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
852	Internal Combustion Generator	Cummins	6BTA5.9 G4	46514116	155 HP	155 HP	N/A	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
821 (remove)	Internal Combustion-Generator	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20100102	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
PH-A-# (modify)	Internal Combustion-Generator	Varies	Varies	Varies	<600 HP	<600 HP	Varies	N/A	20100102	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
PH-B-# (modify)	Internal Combustion-Generator	Varies	Varies	Varies	<1810 HP	<1810 HP	Varies	N/A	20100102	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
PH-C-# (modify)	Internal Combustion-Generator	Varies	Varies	Varies	<1810 HP	<1810 HP	Varies	N/A	20100102	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	N/A
PH-D#	Internal Combustion-Generator	Varies	Varies	Varies	<1810 HP	<1810 HP	Varies	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	SI	N/A
703	Woodworking	AAF-Roto Clone	Type D	D56492	N/A	N/A	N/A	N/A	30700701	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A

Table 2-A: Regulated Emission Sources

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

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.	
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #					
702	Surface Coating-Paint Booth	Craftsman	N/A	9194-1	N/A	N/A	N/A	N/A	40200101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
1205	Surface Coating-Paint Booth	Binks	N/A	N/A	N/A	N/A	N/A	N/A	40200101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
1608A	Surface Coating-Paint Booth	Binks	N/A	N/A	N/A	N/A	N/A	N/A	40200101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
1614A	Surface Coating-Paint Booth	Graco	N/A	N/A	N/A	N/A	N/A	N/A	40200101	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
3011	Miscellaneous Sources-HMMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Unknown	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
1300	Nuclear Reactor	DOE Made	Fast Burst	N/A	N/A	N/A	N/A	N/A	Unknown	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
										<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A

¹ Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.² Specify dates required to determine regulatory applicability.³ To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.⁴ "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

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

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 20.2.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction ²	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction ²	
PH-C-#	Emergency Power Generators	* Varies	*	*	20.2.72.202B.3	*	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
	NSPS IIII (post June 12, 2006)	(see Addendum 1)	*	*	Title V Regulated Source	*	
PH-D-#	Emergency Power Generators	* Varies	*	*	20.2.72.202B.3	*	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
	NSPS JJJJ (post June 12, 2006)	(see Addendum 2)	*	*	Title V Regulated Source	*	
Internal EU# (WSMR)	Existing Institutional Emergency Power Generators - NESHAP ZZZZ Exempt	* Varies (see Addendum 3)	*	*	20.2.72.202B.3	*	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
			*	*	Title V Insignificant Activity Item 7	*	
Not Itemized	Title V Insignificant Activity Item 1						<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
Not Itemized	Title V Insignificant Activity Item 2						<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
Not Itemized	Title V Insignificant Activity Item 3						<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
Not Itemized	Title V Insignificant Activity Item 4						<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
Not Itemized	Title V Insignificant Activity Item 5						<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
Not Itemized	Title V Insignificant Activity Item 6						<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
Not Itemized	Title V Insignificant Activity Item 8						<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
							<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced

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 2B - Addendum 1
(NSPS IIII Regulated)

Unit Number	Description	Engine Manufacturer	Engine Model	Engine Serial	Engine Manufacture Date	Engine Fuel Type	Engine HP (Prime)	Engine HP (Standby)
PHC-01	Emergency Generator	Cummins	QSB5-G3 NR3	73051395	Nov-09	Diesel	132	145
PHC-02	Emergency Generator	Cummins	QSB5-G3 NR3	73051388	Nov-09	Diesel	132	145
PHC-03	Emergency Generator	Cummins	QSB7-G3 NR3	73123356	Aug-10	Diesel	227	250
PHC-04	Emergency Generator	Cummins	QSL9-G2 NR3	73139393	Sep-10	Diesel	331	364
PHC-05	Emergency Generator	Cummins	QSB7-G5 NR3	73697558	Jun-14	Diesel	295	324
PHC-06	Emergency Generator	Caterpillar	C4.4	E5G00384	Nov-16	Diesel	95	95
PHC-07	Emergency Generator	Cummins	QSX15-G9	79236039	Feb-07	Diesel	680	755
PHC-08	Emergency Generator	Cummins	QSB5-G3 NR3	73052939	Nov-09	Diesel	132	145
PHC-09	Emergency Generator	Cummins	QSB5-G3 NR3	73052927	Nov-09	Diesel	132	145
PHC-10	Emergency Generator	Caterpillar	C4.4	E5G00386	Nov-16	Diesel	95	95
PHC-11	Emergency Generator	Cummins	QSB5-G3 NR3	73018656	Aug-09	Diesel	132	145
PHC-12	Emergency Generator	Caterpillar	C4.4	E5G00388	Nov-16	Diesel	95	95
PHC-13	Emergency Generator	Cummins	4BT3.3-G6 NR	68090127	Nov-07	Diesel	81	81
PHC-14	Emergency Generator	Cummins	4BT3.3-G6 NR	68090232	Nov-07	Diesel	81	81
PHC-15	Emergency Generator	Clark-J Deer	6068HFC28ABCD	PE6068L252899	Jan-14	Diesel	178	178
PHC-16	Emergency Generator	Cummins	QSB5-G3 NR3	73113392	Jul-10	Diesel	132	145
PHC-17	Emergency Generator	Cummins	QSB5-G3 NR3	73113363	Jul-10	Diesel	132	145
PHC-18	Emergency Generator	Caterpillar	CT5	FTE02852	Jun-16	Diesel	713	713
PHC-19	Emergency Generator	Caterpillar	C4.4	E5G00392	Nov-16	Diesel	95	95
PHC-20	Emergency Generator	Cummins	QSL9-G2	46632369	Jun-06	Diesel	331	364
PHC-21	Emergency Generator	Cummins	QSL9-G3 NR3	21796197	Sep-07	Diesel	352	399
PHC-22	Emergency Generator	Cummins	QSL9-G3 NR3	21798621	Sep-07	Diesel	352	399
PHC-23	Emergency Generator	Cummins	4BTAA3.3G7	72010129	Feb-13	Diesel	99	99
PHC-24	Emergency Generator	Kohler	KD12504TM/G18	4807203020	Mar-18	Diesel	50	50
PHC-25	Emergency Generator	Kohler	KD12504TM/G18	4811602290	Apr-18	Diesel	50	50
PHC-26	Emergency Generator	Kohler	KD12504TM/G18	4808602640	Mar-18	Diesel	50	50
PHC-27	Emergency Generator	Caterpillar	C4.4	E3L01703	Jun-18	Diesel	85	85
PHC-28	Emergency Generator	Caterpillar	C4.4	E3L01700	Jun-18	Diesel	85	85
PHC-29	Emergency Generator	Caterpillar	C4.4	E3L01706	Jun-18	Diesel	85	85
PHC-30	Emergency Generator	Caterpillar	C4.4	E3L01687	Jun-18	Diesel	85	85
PHC-31	Emergency Generator	Caterpillar	C4.4	E3L01685	Jun-18	Diesel	85	85
PHC-32	Emergency Generator	Caterpillar	C4.4	E3L01701	Jun-18	Diesel	85	85
PHC-33	Emergency Generator	Caterpillar	C4.4	E3L01677	Jun-18	Diesel	85	85
PHC-34	Emergency Generator	Caterpillar	C4.4	E5G01106	Jun-18	Diesel	95	95
PHC-35	Emergency Generator	Caterpillar	C4.4	E5G01118	Jun-18	Diesel	95	95
PHC-36	Emergency Generator	Caterpillar	C4.4	E3L01659	Jun-18	Diesel	85	85
PHC-37	Emergency Generator	Caterpillar	C4.4	E5G01104	Jun-18	Diesel	95	95
PHC-38	Emergency Generator	Caterpillar	C4.4	E3L01675	Jun-18	Diesel	85	85
PHC-39	Emergency Generator	Caterpillar	C4.4	E3L01680	Jun-18	Diesel	85	85
PHC-40	Emergency Generator	Caterpillar	C4.4	E5G01091	Jun-18	Diesel	95	95
PHC-41	Emergency Generator	Caterpillar	C4.4	E3L01682	Jun-18	Diesel	85	85
PHC-42	Emergency Generator	Caterpillar	C4.4	E3L01679	Jun-18	Diesel	85	85
PHC-43	Emergency Generator	Caterpillar	C9	S9P02577	Aug-20	Diesel	480	480
PHC-44	Emergency Generator	Caterpillar	C4.4	E5G06621	Jul-20	Diesel	95	95
PHC-45	Emergency Generator	Caterpillar	C4.4	E5G06937	Sep-20	Diesel	160	160
PHC-46	Emergency Generator	Caterpillar	C4.4	E5G06914	Sep-20	Diesel	160	160
PHC-47	Emergency Generator	Cummins	QSL9-G2	46646459	Jul-06	Diesel	331	364

Table 2B - Addendum 2
(NSPS JJJJ Regulated)

Unit Number	Description	Engine Manufacturer	Engine Model	Engine Serial	Engine Manufacture Date	Engine Fuel Type	Engine HP (Prime)	Engine HP (Standby)
PHD-01	Emergency Generator	Cummins	GM8.1L	EO90243144	May-09	Nat Gas	198	198
PHD-02	Emergency Generator	Cummins	6P680AA	L120435091	Dec-12	Nat Gas	80	80
PHD-03	Emergency Generator	Generac	OH0924	2113100	Dec-11	Nat Gas	468	468
PHD-04	Emergency Generator	Generac	OH0924	2113092	Dec-11	Nat Gas	243	243
PHD-05	Emergency Generator	Cummins	GTA50CC	25370693	Jun-12	Nat Gas	1035	1035
PHD-06	Emergency Generator	Generac	OH0924	2113093	Nov-11	Nat Gas	233	233
PHD-07	Emergency Generator	Generac	OH0924	2109363	Mar-11	Nat Gas	400	400
PHD-08	Emergency Generator	Kohler	150REZG	2262455	Aug-09	Nat Gas	200	200
PHD-09	Emergency Generator	Cummins	CEX	B120308879	Feb-12	Propane	48	48
PHD-10	Emergency Generator	Caterpillar	PSI-8.8L	8.8L0012090	Oct-18	Nat Gas	245	245
PHD-11	Emergency Generator	Cummins	KTA19G	37280972	Jan-20	Nat Gas	530	530

Table 2B - Addendum 3
(NESHAP ZZZZ Exempt)

Unit ID EU#	Description *	Engine Manufacturer	Engine Model	Engine Serial	Engine Manufacture Date	Engine Fuel Type	Engine HP (Prime)	Engine HP (Standby)
EU-003	Emergency Generator	Allis-Chalmers	3500A	3D-67170	May 1985	Diesel	UNK	UNK
EU-004	Emergency Generator	Cummins	6BT5.9-G6	46042970	Oct 2000	Diesel	155	170
EU-005	Emergency Generator	Cummins	NTH-855-G3	30369131	Aug 2002	Diesel	535	535
EU-006	Emergency Generator	Caterpillar	3406DI	75200707	Pre-2006	Diesel	402	402
EU-009	Emergency Generator	Cummins	4BT3.9-G4	46327058	Aug 2003	Diesel	90	99
EU-016	Emergency Generator	Cummins	6CTA8.3-G2	46437506	Oct 2004	Diesel	252	277
EU-018	Emergency Generator	Cummins	6BT5.9-G6	46042968	Oct 2000	Diesel	155	170
EU-019	Emergency Generator	Cummins	LTA-10G1	35023327	Nov 2000	Diesel	380	380
EU-020	Emergency Generator	Cummins	NTA-855-G2	30364901	Jul 2000	Diesel	465	465
EU-021	Emergency Generator	Cummins	4B3.9-G2	46069673	Jan 2001	Diesel	62	68
EU-022	Emergency Generator	Cummins	B3.3-C2	68019078	Feb 2004	Diesel	82	82
EU-023	Emergency Generator	Cummins	LTA-10G1	35023330	Nov 2000	Diesel	380	380
EU-027	Emergency Generator	Cummins	4BT3.9-G4	46034860	Sep 2000	Diesel	93	102
EU-030	Emergency Generator	Cummins	6CTAA8.3G3	46411709	Jul 2004	Diesel	288	288
EU-031	Emergency Generator	Cummins	4B3.9-G2	46069664	Jan 2001	Diesel	62	68
EU-032	Emergency Generator	Cummins	4BT3.9-G4	46038211	Oct 2000	Diesel	93	102
EU-036	Emergency Generator	Cummins	6CTA8.3-G	46437493	Oct 2004	Diesel	277	277
EU-046	Emergency Generator	Cummins	4B3.9-G2	46069677	Jan 2001	Diesel	62	68
EU-047	Emergency Generator	Cummins	4B3.9-G2	46071868	Jan 2001	Diesel	62	68
EU-048	Emergency Generator	Cummins	4BT3.9-G4	46103842	Apr 2001	Diesel	93	102
EU-049	Emergency Generator	Cummins	old; no dataplate	no dataplate	no dataplate	Diesel	<100	<100
EU-062	Emergency Generator	Ford	WSG-1068I-6005-A	2009016122	Sep 2002	Nat Gas	UNK	UNK
EU-064	Emergency Generator	Cummins	6BT5.9-G6	46145866	Sep 2001	Nat Gas	155	170
EU-065	Emergency Generator	Ford	WGS-1068I-6005-A	304053413	Feb 2002	Nat Gas	UNK	UNK
EU-068	Emergency Generator	Cummins	4BT3.9-G4	46034780	Sep 2000	Diesel	93	102
EU-072	Emergency Generator	Cummins	B3.3-G2	68019076	Feb 2004	Diesel	82	82
EU-073	Emergency Generator	Cummins	4B3.9-G2	46069883	Jan 2001	Diesel	62	68
EU-088	Emergency Generator	Caterpillar	3512	1G200804	Jun 2003	Diesel	2172	2172
EU-109	Emergency Generator	Cummins	4BT3.9-G4	46356733	Dec 2003	Diesel	90	99
EU-111	Emergency Generator	Cummins	4BT3.9.G4	46038213	Oct 2000	Diesel	93	102
EU-117	Emergency Generator	Ford	ESG642I-6005-A	109010985	Sep 2001	Diesel	UNK	UNK
EU-132	Emergency Generator	Cummins	6CTAA8.3G3	46326723	Aug 2003	Diesel	288	317
EU-135	Emergency Generator	Cummins	6BT5.9-G6	46042980	Oct 2000	Diesel	155	170
EU-138	Emergency Generator	Cummins	4BT3.9-G4	46038155	Oct 2000	Diesel	93	102
EU-140	Emergency Generator	John Deer	6081TF001	RG6081T171147	Jul 2005	Diesel	215	215
EU-144	Emergency Generator	Cummins	6BT5.9-G6	46042986	Oct 2000	Diesel	155	170
EU-146	Emergency Generator	Detroit	T1237K16	5262000238	Pre-2006	Diesel	1850	1850
EU-150	Emergency Generator	Cummins	4BT3.9-G4	46038152	Oct 2000	Diesel	93	102
EU-152	Emergency Generator	Cummins	B33-G2	68019077	Feb 2004	Diesel	82	82
EU-155	Emergency Generator	Cummins	6CT8.3-G2	45932387	Jan 2000	Diesel	188	207
EU-157	Emergency Generator	Cummins	KTA19-G3	37198075	Mar 2001	Diesel	685	685
EU-158	Emergency Generator	Cummins	NTA-855-G2	30368163	Oct 2001	Diesel	465	465
EU-159	Emergency Generator	Cummins	NTA-855-G2	30368159	Oct 2001	Diesel	465	465
EU-160	Emergency Generator	Cummins	6CTAA8.3-G1	46188991	Feb 2002	Diesel	317	317
EU-161	Emergency Generator	Cummins	6CTAA8.3-G1	46189024	Feb 2002	Diesel	317	317
EU-165	Emergency Generator	Cummins	4BT3.9-G1	44669247	Sep 1991	Diesel	86	86

Table 2B - Addendum 3
(NESHAP ZZZZ Exempt)

Unit ID EU#	Description *	Engine Manufacturer	Engine Model	Engine Serial	Engine Manufacture Date	Engine Fuel Type	Engine HP (Prime)	Engine HP (Standby)
EU-170	Emergency Generator	Cummins	4B3.9-G2	46069659	Jan 2001	Diesel	62	68
EU-171	Emergency Generator	Cummins	4B3.9-G2	46057958	Dec 2000	Diesel	62	68
EU-174	Emergency Generator	Cummins	4B3.9-G2	45605428	Oct 1997	Diesel	68	68
EU-176	Emergency Generator	Cummins	4B3.9-G2	46071862	Jan 2001	Diesel	62	68
EU-196	Emergency Generator	Cummins	4BT3.9-G4	46038143	Oct 2000	Diesel	93	102
EU-198	Emergency Generator	Cummins	4B3.9-G2	46069632	Jan 2001	Diesel	62	68
EU-200	Emergency Generator	Cummins	4B3.9-G	45603596	Oct 1997	Diesel	68	68
EU-206	Emergency Generator	Cummins	4BT3.9-G4	46268674	Nov 2002	Diesel	93	102
EU-234	Emergency Generator	Cummins	GTA8.3P2	46327967	Dec 2003	Nat Gas	200	200
EU-235	Emergency Generator	Cummins	GTA12	25244293	Sep 1999	Nat Gas	240	240
EU-236	Emergency Generator	Cummins	3306	07408626	Pre-2006	Nat Gas	145	145
EU-238	Emergency Generator	Cummins	17.5RDJF-18R/6066AD	B850747846	Pre-2006	Diesel	23	23

* Note: These are all "existing" institutional sources exempted under NESHAP ZZZZ (engines were manufactured prior to June 12, 2006)

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.

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

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

[illegible]

Table 2-D: Page 1

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.	NO _x		CO		VOC		SO _x		PM ¹		PM10 ¹		PM2.5 ¹		H ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
816, 833		0		0		0		0		0		3.660		3.660		0		0
404, 406, 843		0		0		0		0		0		2.121		0.024		0		0
3017		0		0		3.412		0		0		0		0		0		0
838, 844, 845		4.289		8.492		0.887		0.057		0		0.577		0.577		0		0
3004, AAFES		0		0		12.672		0		0		0		0		0		0
3010, AAFES		0		0		5.280		0		0		0		0		0		0
506 (remove)		0		0		0		0		0		0		0		0		0
507 (remove)		0		0		0		0		0		0		0		0		0
821 (remove)		0		0		0		0		0		0		0		0		0
846		0.638		0.180		0.312		0.255		0		0.273		0.273		0		0
847		0.488		0.233		0.312		0.255		0		0.273		0.273		0		0
848		0.360		0.120		0.316		0.258		0		0.277		0.277		0		0
849		0.428		0.135		0.316		0.258		0		0.277		0.277		0		0
850, 851, 852		2.883		0.621		0.233		0.191		0		0.205		0.205		0		0
PH-A-#		107.880		23.246		8.735		7.134		0		7.656		7.656		0		0
PH-B-#		115.200		26.400		3.384		1.920		0		3.360		3.360		0		0
PH-C-#		7.848		4.810		1.807		1.476		0		1.584		1.584		0		0
PH-D-#		3.823		7.645		1.911		0		0		0		0		0		0
3011		0		0		15.000		0		0		0		0		0		0
703		0		0		0		0		0		0.563		0.563		0		0
702, 1205, 1608A, 1614A		0		0		8.400		0		0		0.300		0.300		0		0
GDF-ST4, GDF- RC2, GDF- MP5, GDF- MP6, AAFES A, AAFES B		0		0		46.200		0		0		0		0		0		0
Totals	243.84			71.88		109.18		11.80		0		21.13		19.03		0		0

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 it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

X 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.

[illegible]

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:

[illegible]

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.

[illegible]

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
838, 844, 845	Natural Gas	Pipeline Quality	1020 BTU/SCF	N/A	N/A	trace	trace
PH-D-#	Natural Gas	Pipeline Quality	1020 BTU/SCF	N/A	N/A	trace	trace
506 (remove)	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	13 ppm	trace
507 (remove)	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	14 ppm	trace
821 (remove)	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace
846	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace
847	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace
848	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace
849	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace
850, 851, 852	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace
PH-A-#	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace
PH-B-#	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace
PH-C-#	ULSD	Purchased Commercial	140,000 BTU/Gal	N/A	N/A	15 ppm	trace

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.

[illegible]

[illegible]

Table 2-L: Page 1

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	
Note: 1.00 bbl = 0.159 M ³ = 42.0 gal					MG: Medium Gray	
					BL: Black	
					OT: Other (specify)	

Note: $1.00 \text{ bbl} = 0.159 \text{ M}^3 = 42.0 \text{ gal}$

[illegible]

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.

[illegible]

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

[illegible]

Table 2-P: Greenhouse Gas Emissions

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

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr ²											Total GHG Mass Basis ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWP _s ¹	1	298	25	22,800	footnote 3												
838, 844, 845	mass GHG	6892.051		0.130													6892.181	
	CO ₂ e	6892.051		3.250														6895.301
506, 507 (remove)	mass GHG	0		0													0	
	CO ₂ e	0		0														0
846, 847, 848, 849	mass GHG	575.460		1.236													576.696	
	CO ₂ e	575.460		30.900														606.360
850, 851, 852	mass GHG	106.950		0.230													107.180	
	CO ₂ e	106.950		5.750														112.700
821 (remove)	mass GHG	0		0													0	
	CO ₂ e	0		0														0
PH-A-#	mass GHG	4002.00		8.60													4010.60	
	CO ₂ e	4002.00		214.90														4216.90
PH-B-#	mass GHG	5568.00		3.38													5571.38	
	CO ₂ e	5568.00		84.60														5652.60
PH-C-#	mass GHG	828.00		1.78													5571.38	
	CO ₂ e	828.00		44.45														872.45
PH-D-#	mass GHG	1007.81		0.61													1008.42	
	CO ₂ e	1007.81		15.33														1023.13
Small Boilers	mass GHG	4369.02		0.08													4369.10	
	CO ₂ e	4369.02		2.05														4371.07
Small Space Heaters	mass GHG	1092.25		0.02													1092.28	
	CO ₂ e	1092.25		0.53														1092.78
EU	mass GHG	1207.50		2.59													1210.09	
	CO ₂ e	1207.50		64.85														1272.35
	mass GHG																	
	CO ₂ e																	
	mass GHG																	
	CO ₂ e																	
	mass GHG																	
	CO ₂ e																	
Total	mass GHG	25649.04		18.66													30409.31	
	CO ₂ e	25649.04		466.60														26115.64

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

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

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

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

⁵ CO₂e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

Emissions Summary Table

Constituent	Sum of Proposed Limits for Criteria Pollutants (Tons)	Sum of Current Permit Limits - Table 102.A (Tons)
Criteria Pollutants		
Carbon Monoxide (CO)	71.88	44.12
Nitrogen Oxides (NO ₂)	243.84	118.97
Sulfur Dioxide (SO ₂)	11.80	6.65
Volatile Organic Compounds (VOC)	109.18	102.31
Total Suspended Particulates (TSP, PM)	0.00	26.28
Particulate Matter <10 microns (PM-10)	21.13	14.89
Particulate Matter <2.5 microns (PM-2.5)	19.03	12.79
Green-House Gases (GHG)		
Carbon Dioxide (CO ₂)	NA	NA
Methane (CH ₄)	NA	NA
Total Carbon Dioxide Equivalent (CO ₂ e)	NA	75000
Total Hazardous Air Pollutants (HAP)		
	25.0	25.0 (Total HAP)
	10.0	10.0 (Single HAP)

Separate PSD Evaluation (includes Insignificant Sources (non-NSPS power generators plus small water-heaters & space-heaters)	
Criteria Pollutants	(Tons)
CO	33.11
NO ₂	165.25
SO ₂	4.90
VOC	99.70
PM (TSP)	0.00
PM-10	18.49
PM-2.5	10.32
PSD-Major Applicability Threshold = 250 Tons for Criteria Pollutants	
GHG	
CO ₂ (Tons)	25649
CH ₄ (Tons)	19
Total CO ₂ e (Tons)	26116
Total CO ₂ e (in Metric-Tons)	23741
GHG EPA-Reporting Threshold = 25,000 Metric-Tons Total CO ₂ e	
PSD-Major Applicability Threshold = 75,000 Tons Total CO ₂ e	
TitleV-Major Applicability Threshold = 100,000 Tons Total CO ₂ e	

PSD evaluation for criteria pollutants does not include emissions from Title V regulated portable generators, which can be backed out as "non-road" engines

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Aggregate Processing					
	Tons Aggregate Produced	Tons Aggregate Produced	lbs per ton activity		
Unit 816	see total below				
Unit 833	see total below				
Category Total	600,000	600,000			
Particulates (PM total)				0.000	10.02
crusher			0.0054		
screener			0.0250		
conveyor			0.0030		
Particulates (PM-10)				3.660	3.66
crusher			0.0024		
screener			0.0087		
conveyor			0.0011		
Particulates (PM-2.5)				3.660	3.66
crusher			0.0024		
screener			0.0087		
conveyor			0.0011		

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Concrete Production					
	Tons Concrete Produced	Tons Concrete Produced	lbs per ton activity		
Unit 404	see total below				
Unit 406	see total below				
Unit 843	see total below				
Category Total	100,000	100,000			
Particulates (PM total)			0.1317	0.000	6.6
Particulates (PM-10)			0.0424	2.121	2.1
Particulates (PM-2.5)			0.0005	0.024	0.024

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Fuel Equipment Leaks					
	Component Counts (shown below)		lbs per component per hr		
Unit 3017					
Volatile Organics (VOC)				3.412	3.41
common valves	74	NA	0.00015		
pressure valves	20	NA	0.00025		
line flanges	180	NA	0.000023		
smpl connects	30	NA	0.015		
open-end lines	45	NA	0.00651		
pump seals	17	NA	0.000932		
Total	366				

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
External Combustion	Operating Hours	Operating Hours	lbs per MMSCF		
Unit 838	8,760	8,760			
Unit 844	8,760	8,760			
Unit 845	8,760	8,760			
Category Total	26,280	NA			
Carbon Monoxide (CO)	Unit 838 844, 845		84 153	8.492	8.49
Nitrogen Oxides (NO ₂)	Unit 838 844, 845		100 71.4	4.289	4.29
Sulfur Dioxide (SO ₂)	Unit 838 844, 845		0.6 1.02	0.057	0.06
Volatile Organics (VOC)	Unit 838 844, 845		5.5 16.32	0.887	0.89
Particulates (PM total)	Unit 838 844, 845		7.6 10.2	0.000	0.58
Particulates (PM-10)	Unit 838 844, 845		7.6 10.2	0.577	0.58
Particulates (PM-2.5)	Unit 838 844, 845		7.6 10.2	0.577	0.58
Carbon Dioxide (CO ₂)		kg/MMBTU	53.02	6892.051	NA
Methane (CH ₄)		kg/MMBTU	0.001	0.130	NA

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Fuel Dispensing	Fuel Throughput (gallons)	Fuel Throughput (gallons)	lbs per 1000 gallons		
Unit 3004	1,112,000	1,112,000			
AAFES	1,000,000	1,000,000			
Volatile Organics (VOC)	gov't vehicles (splash load)	Unit 3004	12	6.672	6.67
		AAFES	12	6.000	6.00

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Fuel Loading Racks					
	Fuel Throughput (gallons)	Fuel Throughput (gallons)	lbs per 1000 gallons		
Unit 3010 AAFES	1,112,000 1,000,000	1,112,000 NA			
Volatile Organics (VOC)	tanks loading (submerged fill)	Unit 3004 AAFES	5 5	2.780 2.500	2.78 2.5

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Fuel Storage Tanks					
	Fuel Throughput (gallons)	Fuel Throughput (gallons)	EPA Tanks program		
Stallion Unit 538	see total below				
Rhodes Unit 540	see total below				
Main Post Unit 541	see total below				
Main Post Unit 542	see total below				
Main Post Unit 543	see total below	intermediate tank			
Main Post Unit 544	see total below	intermediate tank			
Main Post Unit 545	see total below	intermediate tank			
PH-E-#	see total below	satellite locations			
AAFES A	see total below				
AAFES B	see total below				
Category Total	2,200,378	2,200,378	223,971		
Volatile Organics (VOC)			EPA Tanks (W&B loss)	46.200	46.2

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Internal Combustion	Operating Hours	Operating Hours	lbs/hp-hr		
Emission Unit 506	0	1,000		(603 hp)	
Carbon Monoxide (CO)			0.00668	0.000	1.611
Nitrogen Oxides (NO ₂)			0.031	0.000	7.477
Sulfur Dioxide (SO ₂)			0.00205	0.000	0.494
Volatile Organics (VOC)			0.00251	0.000	0.605
Particulates (PM total)			0.0022	0.000	0.531
Particulates (PM-10)			0.0022	0.000	0.531
Particulates (PM-2.5)			0.0022	0.000	0.531
Carbon Dioxide (CO ₂)			1.15	0.000	NA
Methane (CH ₄)			0.00247	0.000	NA
Emission Unit 507	0	1,000		(551 hp)	
Carbon Monoxide (CO)			0.00668	0.000	1.472
Nitrogen Oxides (NO ₂)			0.031	0.000	6.832
Sulfur Dioxide (SO ₂)			0.00205	0.000	0.452
Volatile Organics (VOC)			0.00251	0.000	0.553
Particulates (PM total)			0.0022	0.000	0.485
Particulates (PM-10)			0.0022	0.000	0.485
Particulates (PM-2.5)			0.0022	0.000	0.485
Carbon Dioxide (CO ₂)			1.15	0.000	NA
Methane (CH ₄)			0.00247	0.000	NA

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Internal Combustion	Operating Hours	Operating Hours	lbs/hp-hr except for CO & NO2		CO and NO2 based on Sep 2012 stack-test (846-849 only)
Emission Unit 846	1,500	1,500		(207 hp)	
Carbon Monoxide (CO)			0.24	0.180	0.180
Nitrogen Oxides (NO2)			0.85	0.638	0.638
Sulfur Dioxide (SO2)			0.00205	0.255	0.255
Volatile Organics (VOC)			0.00251	0.312	0.312
Particulates (PM total)			0.0022	0.000	0.180
Particulates (PM-10)			0.0022	0.273	0.273
Particulates (PM-2.5)			0.0022	0.273	0.273
Carbon Dioxide (CO2)			1.15	142.830	NA
Methane (CH4)			0.00247	0.307	NA
Emission Unit 847	1,500	1,500		(207 hp)	
Carbon Monoxide (CO)			0.31	0.233	0.233
Nitrogen Oxides (NO2)			0.65	0.488	0.488
Sulfur Dioxide (SO2)			0.00205	0.255	0.255
Volatile Organics (VOC)			0.00251	0.312	0.312
Particulates (PM total)			0.0022	0.000	0.273
Particulates (PM-10)			0.0022	0.273	0.273
Particulates (PM-2.5)			0.0022	0.273	0.273
Carbon Dioxide (CO2)			1.15	142.830	NA
Methane (CH4)			0.00247	0.307	NA
Emission Unit 848	1,500	1,500		(210 hp)	
Carbon Monoxide (CO)			0.16	0.120	0.120
Nitrogen Oxides (NO2)			0.48	0.360	0.360
Sulfur Dioxide (SO2)			0.00205	0.258	0.258
Volatile Organics (VOC)			0.00251	0.316	0.316
Particulates (PM total)			0.0022	0.000	0.277
Particulates (PM-10)			0.0022	0.277	0.277
Particulates (PM-2.5)			0.0022	0.277	0.277
Carbon Dioxide (CO2)			1.15	144.900	NA
Methane (CH4)			0.00247	0.311	NA
Emission Unit 849	1,500	1,500		(210 hp)	
Carbon Monoxide (CO)			0.18	0.135	0.135
Nitrogen Oxides (NO2)			0.57	0.428	0.428
Sulfur Dioxide (SO2)			0.00205	0.258	0.258
Volatile Organics (VOC)			0.00251	0.316	0.316
Particulates (PM total)			0.0022	0.000	0.277
Particulates (PM-10)			0.0022	0.277	0.277
Particulates (PM-2.5)			0.0022	0.277	0.277
Carbon Dioxide (CO2)			1.15	144.900	NA
Methane (CH4)			0.00247	0.311	NA

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Internal Combustion	Operating Hours (Combined)	Operating Hours	lbs/hp-hr	Combined Limit (3 eng)	
Emission Unit 850, 851, 852	1,500	1,500		(155 hp)	
Carbon Monoxide (CO)			0.00668	0.621	0.621
Nitrogen Oxides (NO ₂)			0.031	2.883	2.883
Sulfur Dioxide (SO ₂)			0.00205	0.191	0.191
Volatile Organics (VOC)			0.00251	0.233	0.233
Particulates (PM total)			0.0022	0.000	0.205
Particulates (PM-10)			0.0022	0.205	0.205
Particulates (PM-2.5)			0.0022	0.205	0.205
Carbon Dioxide (CO ₂)			1.15	106.950	NA
Methane (CH ₄)			0.00247	0.230	NA
Internal Combustion	Operating Hours	Operating Hours	lbs/hp-hr		Unit 821 is for misc onsite contractor operations
Emission Unit 821	0	1,000		(hp varies)	
Carbon Monoxide (CO)			0.0055	0.000	4.045
Nitrogen Oxides (NO ₂)			0.024	0.000	17.652
Sulfur Dioxide (SO ₂)			0.0004	0.000	0.294
Volatile Organics (VOC)			0.000705	0.000	0.519
Particulates (PM total)			0.0007	0.000	0.515
Particulates (PM-10)			0.0007	0.000	0.515
Particulates (PM-2.5)			0.0007	0.000	0.515
Carbon Dioxide (CO ₂)			1.16	0.000	NA
Methane (CH ₄)			0.000705	0.000	NA
Placeholder PH-A	30,000	8760		(<600 hp)	
Carbon Monoxide (CO)			0.00668	23.246	6.788
Nitrogen Oxides (NO ₂)			0.031	107.880	31.501
Sulfur Dioxide (SO ₂)			0.00205	7.134	2.083
Volatile Organics (VOC)			0.00251	8.735	2.551
Particulates (PM total)			0.0022	0.000	2.236
Particulates (PM-10)			0.0022	7.656	2.236
Particulates (PM-2.5)			0.0022	7.656	2.236
Carbon Dioxide (CO ₂)			1.15	4002.000	NA
Methane (CH ₄)			0.00247	8.596	NA

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Placeholder PH-B	15,000	2000		(<1810 hp)	
Carbon Monoxide (CO)			0.0055	26.400	7.964
Nitrogen Oxides (NO2)			0.024	115.200	34.752
Sulfur Dioxide (SO2)			0.0004	1.920	0.579
Volatile Organics (VOC)			0.000705	3.384	1.021
Particulates (PM total)			0.0007	0.000	1.014
Particulates (PM-10)			0.0007	3.360	1.014
Particulates (PM-2.5)			0.0007	3.360	1.014
Carbon Dioxide (CO2)			1.16	5568.000	NA
Methane (CH4)			0.000705	3.384	NA
Placeholder PH-C	8,000	3000		(<1810 hp)	
Carbon Monoxide (CO)			0.00668	4.810	4.810
Nitrogen Oxides (NO2)			0.0109	7.848	7.848
Sulfur Dioxide (SO2)			0.00205	1.476	1.476
Volatile Organics (VOC)			0.00251	1.807	1.807
Particulates (PM total)			0.0022	0.000	1.584
Particulates (PM-10)			0.0022	1.584	1.584
Particulates (PM-2.5)			0.0022	1.584	1.584
Carbon Dioxide (CO2)			1.15	828.000	NA
Methane (CH4)			0.00247	1.778	NA
Placeholder PH-D	1,200	1,200		(<1810 hp)	
Carbon Monoxide (CO)			0.0088	7.645	7.645
Nitrogen Oxides (NO2)			0.0044	3.823	3.823
Volatile Organics (VOC)			0.0022	1.911	1.911
Carbon Dioxide (CO2)			1.16	1007.808	NA
Methane (CH4)			0.000705	0.613	NA

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Internal Combustion					
Total Emissions For Internal Combustion Source Category (sum-of-above)					
Carbon Monoxide (CO)	NA	NA	NA	63.390	35.62
Nitrogen Oxides (NO ₂)	NA	NA	NA	239.546	114.68
Sulfur Dioxide (SO ₂)	NA	NA	NA	11.746	6.60
Volatile Organics (VOC)	NA	NA	NA	17.327	10.46
Particulates (PM total)	NA	NA	NA	0.000	7.67
Particulates (PM-10)	NA	NA	NA	13.905	7.67
Particulates (PM-2.5)	NA	NA	NA	13.905	7.67
Carbon Dioxide (CO ₂)	NA	NA	NA	12088.218	NA
Methane (CH ₄)	NA	NA	NA	15.836	NA

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Woodshop Work	Tons Saw Dust Generated (Tons)	Tons Saw Dust Generated	Control Efficiency		
Unit 703	7.5	7.5			
Particulates (PM total)			85%	0.000	1.13
Particulates (PM-10)			85%	0.563	0.56
Particulates (PM-2.5)			85%	0.563	0.56

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Surface Coating	Paint Used (gallons)	Paint Used (gallons)	EF Ratio Use/Limit		
Unit 702	see total below				
Unit 1000	see total below				
Unit 1205	see total below				
Unit 1608	see total below				
Unit 1614A	see total below				
Category Total	3,700	3,700			
Volatile Organics (VOC)			Use/Limit	8.400	8.4
Particulates (PM total)			Use/Limit	0.000	0.3
Particulates (PM-10)			Use/Limit	0.300	0.3
Particulates (PM-2.5)			Use/Limit	0.300	0.3

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Miscellaneous Chemical Use Unit 3011 Volatile Organics (VOC)	NA	NA		15.0	15.0
Internal Combustion (Insignificant Sources - PSD Evaluation Item) Non-NSPS Emerg Gens Carbon Monoxide (CO) Nitrogen Odxes (NO2) Sulfur Dioxide (SO2) Volatile Organics (VOC) Particulates (PM total) Particulates (PM-10) Particulates (PM-2.5) Carbon Dioxide (CO2) Methane (CH4)	Operating Hours 10,500	Operating Hours NA	lbs/hp-hr 0.00668 0.031 0.00205 0.00251 0.0022 0.0022 0.0022 1.15 0.00247	Assumes 70 gens at 150 hours each (pre-2007 emergency generators) (600 hp) 7.014 32.550 2.153 2.636 0.000 2.310 2.310 1207.500 2.594	NA NA NA NA NA NA NA NA NA

Emissions by Source Category

Source Category	Proposed Operating Activity Limit	Current Operating Activity Limit	Emission Factor	Proposed Emission Limit (tons)	Current Emission Limit (tons)
Water Heaters (Insignificant Sources - PSD Evaluation Item) Small Boilers (uncontrolled) Carbon Monoxide (CO) Nitrogen Oxides (NO ₂) Carbon Dioxide (CO ₂) Methane (CH ₄)	NG Consumption (MMBTU)* 74,912	Operating Hours NA kg/MMBTU kg/MMBTU	lbs/MMSCF 84 100 53.02 0.001	 3.085 3.672 4369.018 0.082	*NG average annual usage (assume 80% water-heaters 20% space- heaters) NA NA
Space Heaters (Insignificant Sources - PSD Evaluation Item) Small Space Heaters (uncontrolled) Carbon Monoxide (CO) Nitrogen Oxides (NO ₂) Carbon Dioxide (CO ₂) Methane (CH ₄)	NG Consumption (MMBTU)* 18,728	Operating Hours NA kg/MMBTU kg/MMBTU	lbs/MMSCF 84 100 53.02 0.001	 0.771 0.918 1092.254 0.021	*NG average annual usage (assume 80% water-heaters 20% space- heaters) NA NA

Section UA3

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.

White Sands Missile Range (WSMR) is owned and operated by the U.S. Army. WSMR is located in south-central New Mexico. The main cantonment area is located at the eastern base of the Organ Mountains in Dona Ana County, near the southwest corner of the Range. Parts of the Range extend into four other counties: Otero, Sierra, Socorro, and Lincoln. WSMR extends approximately 35 miles east-west and 100 miles north-south and covers an area of approximately 2.2 million acres. In addition, extension (evacuation) areas are located to the north and west of the Range.

WSMR's primary mission is to provide Army, Navy, Air Force, Department of Defense (DoD), and other customers with high quality services for experimentation, test, research, assessment, development, and training. In doing so, several operational activities result in air pollutant emissions. Operations that emit air pollutants such as gasoline storage and dispensing, power generator usage, and painting are performed in preparation of materials for testing, evaluating and maintaining equipment at facilities that are at various locations on WSMR.

In this permit application, WSMR is proposing to increase the operating time and associated emission limits of portable process-unit generator placeholders PHA and PHB, while removing from the permit portable process-unit generators 506, 507, and 821. WSMR is also adding operating hours to PHC to take into account the actual power-rating of those generators, which is substantially lower than the power rating initially estimated. The emission limits for PHC will not change.

In addition, for the overall permit, WSMR is removing total suspended particulates (TSP, Total PM) as a regulated pollutant, as this TSP was previously repealed.

These changes that WSMR proposes to make are depicted in the applicable tables of Sections UA2.

At WSMR, there are no startup or shutdown events that result in excess emissions. For the sake of combustion sources, any time a unit is taken off-line for failing to meet the 20% opacity standard, that situation will constitute a unit shutdown. Shutdowns, and subsequent startups of these sources are inconsequential for the purpose of associated emissions.

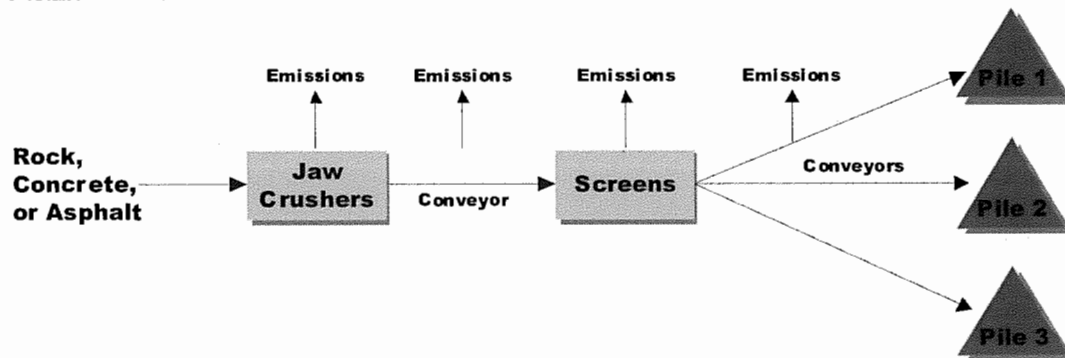
Section 4

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.

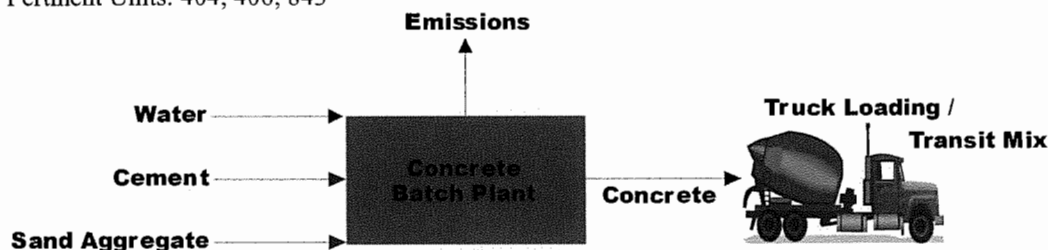
Aggregate Processing:

Pertinent Units: 833



Concrete Production:

Pertinent Units: 404, 406, 843



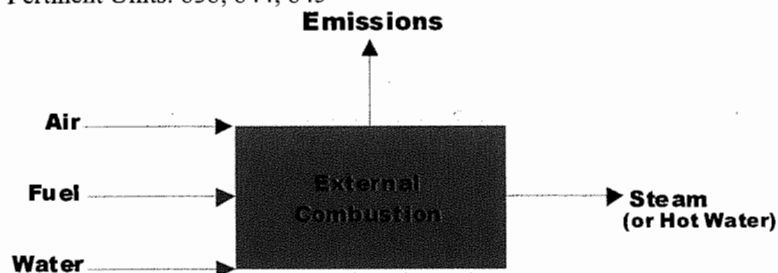
Equipment Leaks:

Pertinent Units: 3017

Because emissions from fuel distribution and management equipment result from a simple operation (i.e. component leaks based on equipment leak counts), a process flow diagram is not supplied.

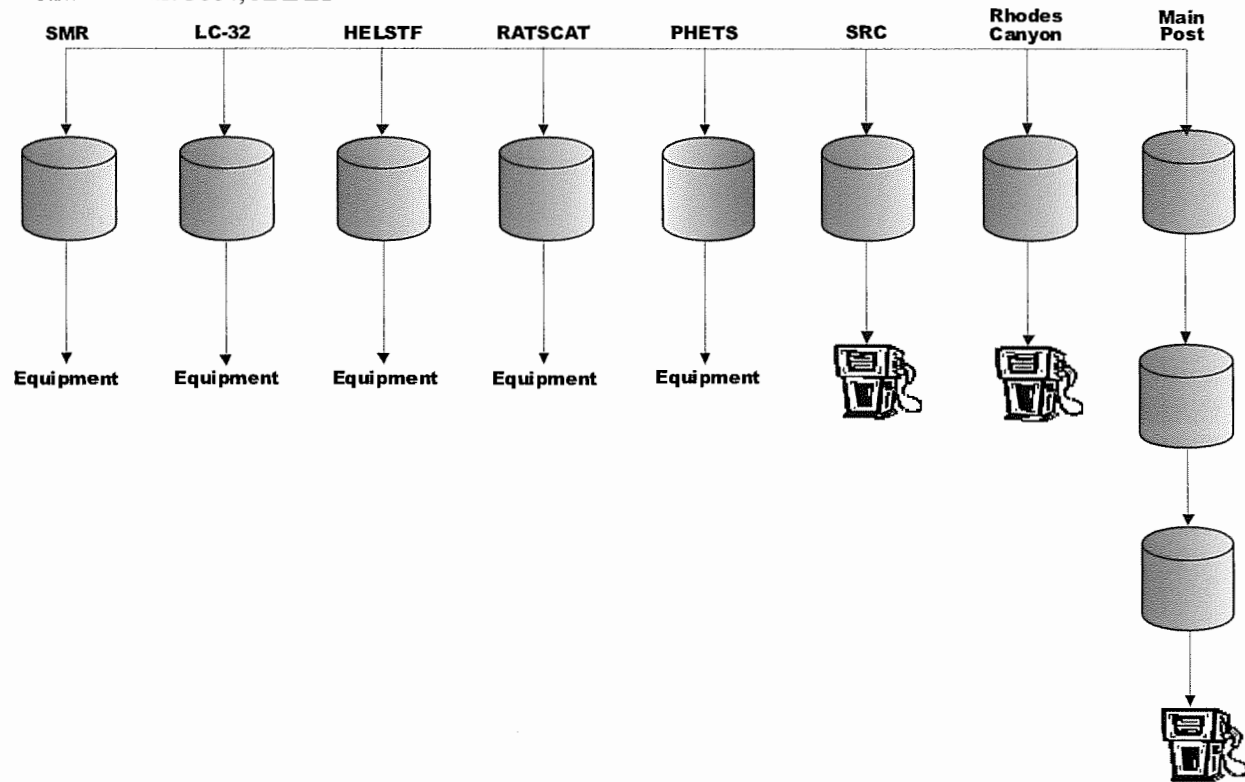
External Combustion:

Pertinent Units: 838, 844, 845

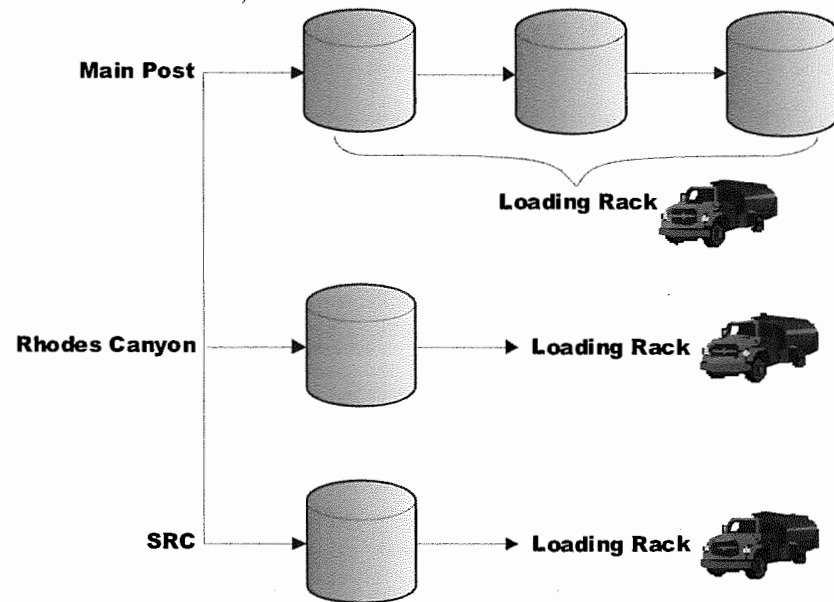


Fuel Dispensing:

Pertinent Units: 3004, AAFES

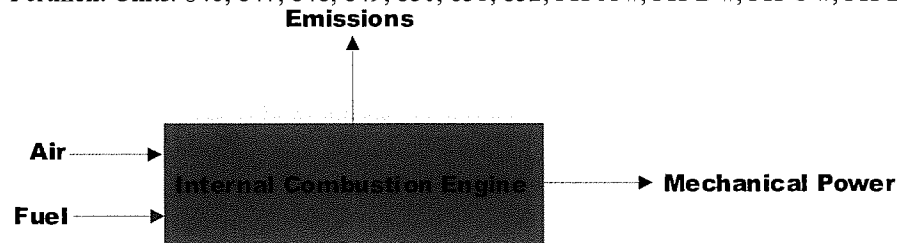
**Fuel Loading Racks:**

Pertinent Units: 3010, AAFES



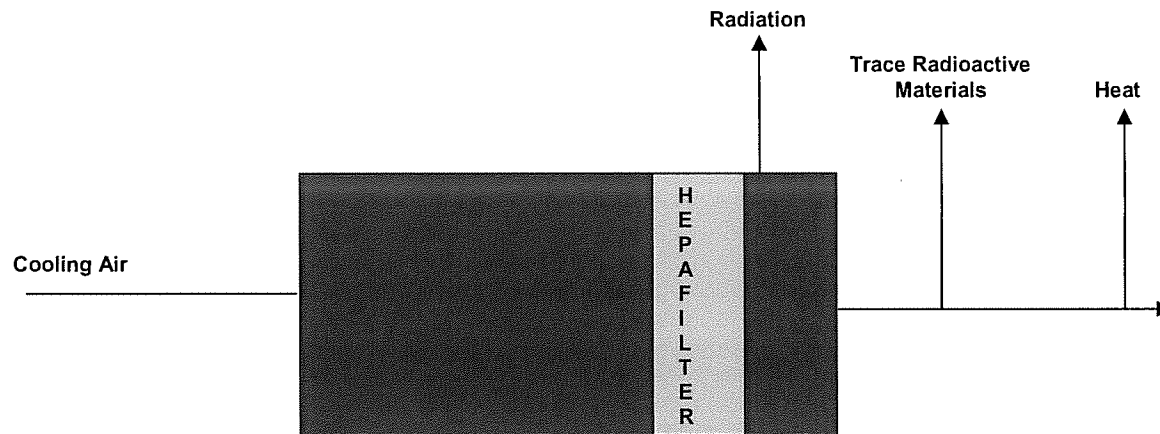
Internal Combustion:

Pertinent Units: 846, 847, 848, 849, 850, 851, 852, PH-A-#, PH-B-#, PH-C-#, PH-D-#

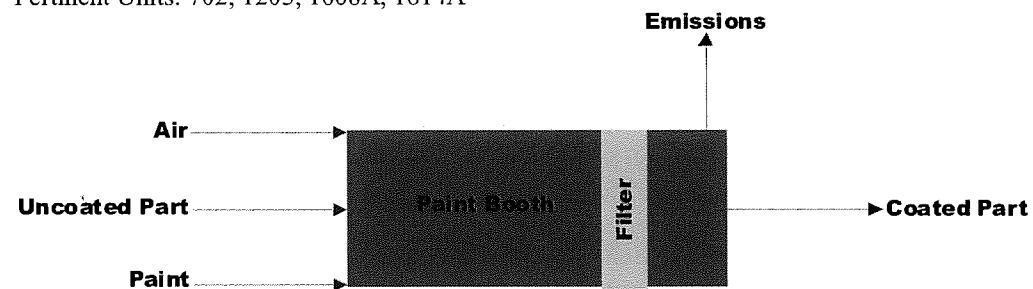
**Miscellaneous Sources:**

Pertinent Units: 3011

Because of the variety of operations that occur, no process flow diagram for miscellaneous sources has been provided. Process inputs consist only of the chemical and, perhaps, some part or equipment; process outputs include the chemical (all VOCs and HAPs in the chemical are assumed to be emitted) and the part or equipment. The process may involve cleaning or coating the part or equipment, or it may actually change its characteristics.

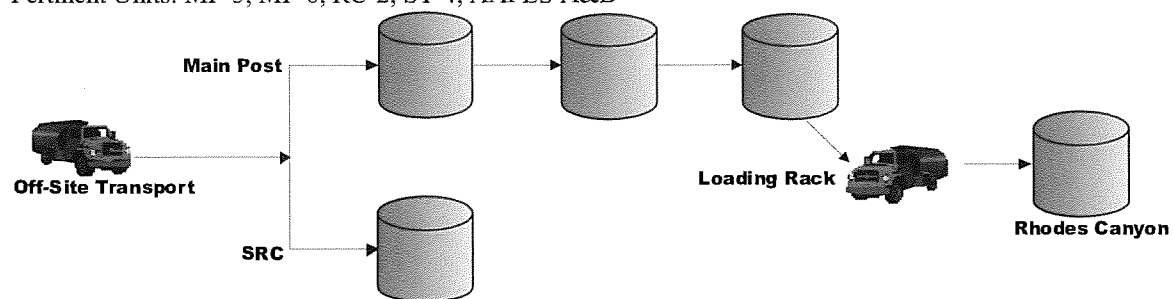
Nuclear Reactor: Unit 1300**Surface Coating:**

Pertinent Units: 702, 1205, 1608A, 1614A

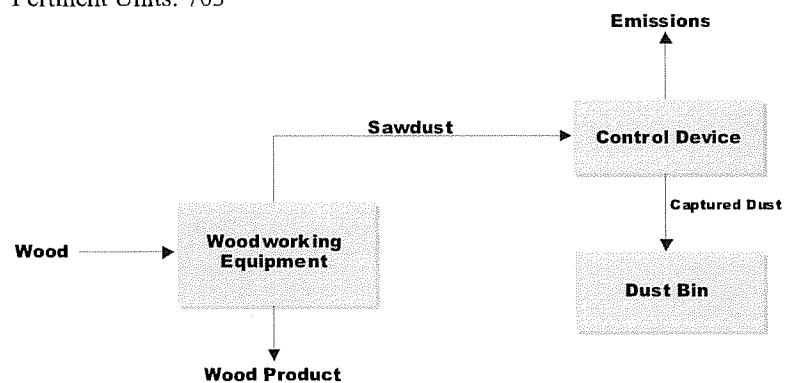


Unleaded Gasoline Storage Tanks:

Pertinent Units: MP-5, MP-6, RC-2, ST-4, AAFES A&B

**Woodworking:**

Pertinent Units: 703



Section 5

Plot Plan Drawn To Scale

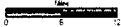
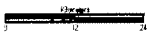
A **plot plan drawn to scale** showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

White Sands
Missile Range
Air Permit Locations
Topographic
Project No. WS-A10-003
Created by: B. Benavidez
Date: 07-23-2010

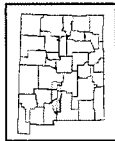


Legend

- Air Permit Location
- Main Post Area
- Paved Road
- WSMR Boundary



Location Map

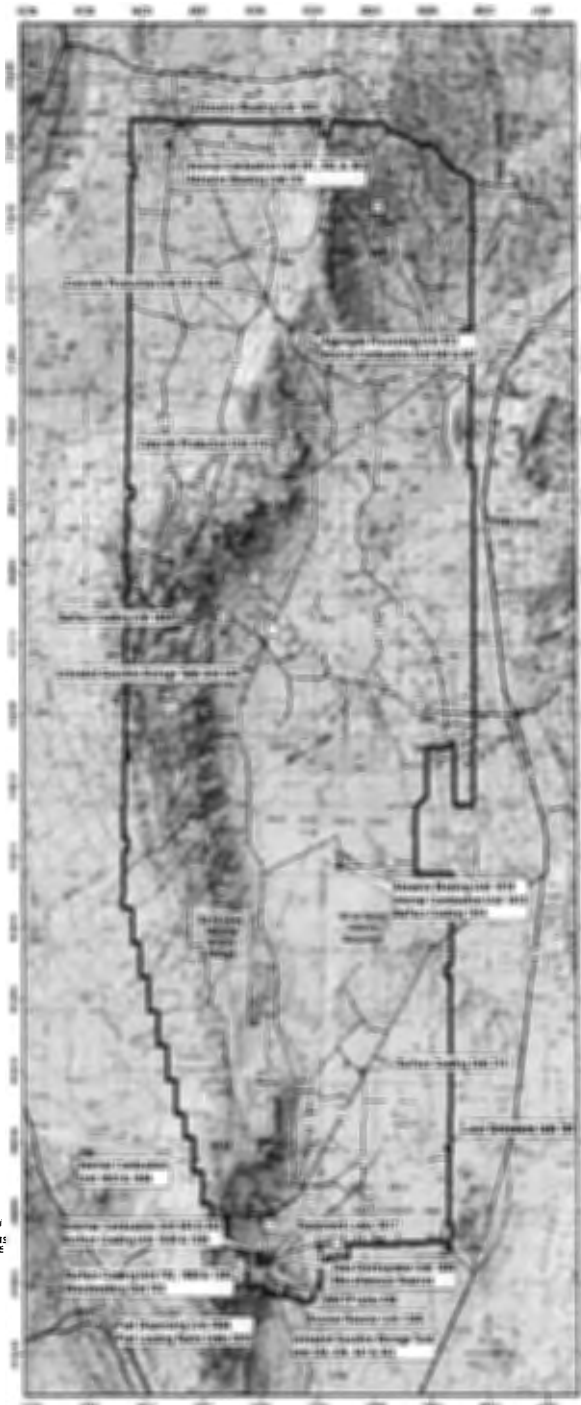
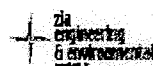


Official Topographic Map (Projection: Zone 12 North)
Scale: 1:50,000 (Scale: 1 inch = 1 mile)

Produced by: White Sands Missile Range (WSMR) for the Department of Defense (DoD) and the Department of Energy (DoE).

No warranty is made by the White Sands Missile Range (WSMR) or the Department of Defense (DoD) or the Department of Energy (DoE) for the accuracy or completeness of the data for individual use or aggregate use with other data or for business and other purposes. Scale of the map may not meet National Map Accuracy Standards. This information may be used for other purposes.

DISCLAIMER: DISTRIBUTION LIMITED TO U.S. GOVERNMENT AGENCIES AND THEIR CONTRACTORS FOR PLANNING, DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, AND REPAIR OF THE WHITE SANDS MISSILE RANGE. NO OTHER DISTRIBUTION IS AUTHORIZED. FOR THE NATIONAL SECURITY AGENCY, UNLESS APPROVED BY THE NATIONAL SECURITY AGENCY. FOR THE DEPARTMENT OF ENERGY, UNLESS APPROVED BY THE DEPARTMENT OF ENERGY. FOR THE DEPARTMENT OF DEFENSE, UNLESS APPROVED BY THE DEPARTMENT OF DEFENSE. FOR THE DEPARTMENT OF COMMERCE, UNLESS APPROVED BY THE DEPARTMENT OF COMMERCE. FOR THE DEPARTMENT OF AGRICULTURE, UNLESS APPROVED BY THE DEPARTMENT OF AGRICULTURE. FOR THE DEPARTMENT OF JUSTICE, UNLESS APPROVED BY THE DEPARTMENT OF JUSTICE. FOR THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, UNLESS APPROVED BY THE DEPARTMENT OF HEALTH AND HUMAN SERVICES. FOR THE DEPARTMENT OF EDUCATION, UNLESS APPROVED BY THE DEPARTMENT OF EDUCATION. FOR THE DEPARTMENT OF LABOR, UNLESS APPROVED BY THE DEPARTMENT OF LABOR. FOR THE DEPARTMENT OF TRANSPORTATION, UNLESS APPROVED BY THE DEPARTMENT OF TRANSPORTATION. FOR THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT, UNLESS APPROVED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT. FOR THE DEPARTMENT OF INTERIOR, UNLESS APPROVED BY THE DEPARTMENT OF INTERIOR. FOR THE DEPARTMENT OF ENVIRONMENT AND NATURE, UNLESS APPROVED BY THE DEPARTMENT OF ENVIRONMENT AND NATURE. FOR THE DEPARTMENT OF AERONAUTICS AND SPACE, UNLESS APPROVED BY THE DEPARTMENT OF AERONAUTICS AND SPACE. FOR THE DEPARTMENT OF ENERGY, UNLESS APPROVED BY THE DEPARTMENT OF ENERGY. FOR THE DEPARTMENT OF DEFENSE, UNLESS APPROVED BY THE DEPARTMENT OF DEFENSE. FOR THE DEPARTMENT OF COMMERCE, UNLESS APPROVED BY THE DEPARTMENT OF COMMERCE. FOR THE DEPARTMENT OF AGRICULTURE, UNLESS APPROVED BY THE DEPARTMENT OF AGRICULTURE. FOR THE DEPARTMENT OF JUSTICE, UNLESS APPROVED BY THE DEPARTMENT OF JUSTICE. FOR THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, UNLESS APPROVED BY THE DEPARTMENT OF HEALTH AND HUMAN SERVICES. FOR THE DEPARTMENT OF EDUCATION, UNLESS APPROVED BY THE DEPARTMENT OF EDUCATION. FOR THE DEPARTMENT OF LABOR, UNLESS APPROVED BY THE DEPARTMENT OF LABOR. FOR THE DEPARTMENT OF TRANSPORTATION, UNLESS APPROVED BY THE DEPARTMENT OF TRANSPORTATION. FOR THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT, UNLESS APPROVED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT. FOR THE DEPARTMENT OF INTERIOR, UNLESS APPROVED BY THE DEPARTMENT OF INTERIOR. FOR THE DEPARTMENT OF ENVIRONMENT AND NATURE, UNLESS APPROVED BY THE DEPARTMENT OF ENVIRONMENT AND NATURE. FOR THE DEPARTMENT OF AERONAUTICS AND SPACE, UNLESS APPROVED BY THE DEPARTMENT OF AERONAUTICS AND SPACE.



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.

Aggregate Processing:

Pertinent Units: 833

Calculations:

$$\text{PM Emissions (tpy)} = \frac{(\text{Process Throughput (tpy)}) (\text{EFc} + \text{EFs} + 3\text{EFt})}{2000 \text{ lbs/ton}}$$

EFc = primary crusher emission factor

EFs = screening emission factor

EFt = conveyor (transfer point) emission factor

Emission Factor: AP-42, Section 11.19.2 (August 2004)

Concrete Production:

Pertinent Units: 404, 406, 843

Calculations:

$$\text{Emissions Factor (lbs/ton of Cement)} = k(0.0032) \left[\frac{U^a}{M^b} \right] + c$$

k = Particle size multiplier (dimensionless)

(PM = 5.9, PM₁₀ = 1.92 and PM_{2.5} = 0.38)

U = Wind Speed (miles per hour)

(Estimated 10 miles per hour)

M = Minimum moisture (% by weight) of cement

(Estimated 4.17%)

a,b = Exponents (dimensionless)

(a; PM = 0.6, PM₁₀ = 0.4 and PM_{2.5} = 0.4)

(b; PM = 1.3, PM₁₀ = 1.3 and PM_{2.5} = 1.3)

C = Constant (dimensionless)

(PM = 0.120, PM₁₀ = 0.040 and PM_{2.5} = 0.00)

Emission Factors (Generated using the above equation):

PM = 0.1317 lbs/Ton of Cement

PM₁₀ = 0.0424 lbs/Ton of Cement

PM_{2.5} = 0.0004 lbs/Ton of Cement

Emissions Produced Calculated Using:

$$\text{Emissions (tpy)} = \frac{\text{Total Concrete Produced (tons)} (\text{Emission Factor})}{2000 \text{ (lbs/ton)}}$$

Emission Factor: Table 11.12-4 of AP-42 (June 2006)

Equipment Leaks:

Pertinent Units: 3017

Calculations:

$$\text{Emissions (tpy)} = \frac{(\# \text{ of components}) (\text{EF (lbs/hr)}) (8,760 \text{ (hrs/yr)})}{2,000 \text{ lbs/ton}}$$

EF = Component-Specific Emission Factor (lbs/hr/component)

Component	# of Components	EF (lbs/hr/component)
Valves	74	0.00015
Safety relief valves	20	0.000251
Flanges	180	0.000023
Sampling connections	30	0.015
Open-ended lines	45	0.00651
Pump seals	17	0.00093

Emission Factors: *Development of Fugitive Emission Factors and Emission Profiles for Petroleum Marketing Terminals, Volumes I and II*, API #4588, Radian Corporation, Prepared for American Petroleum Institute, March 1993.

External Combustion:

Pertinent Units: 838 (Natural Gas), 844 (Natural Gas), 845 (Natural Gas)

Calculations:

$$\text{Propane emissions (tpy)} = \frac{(\text{Rated capacity (Btu/hr)}) (8,760 \text{ (hrs/yr)}) (\text{EF (lbs/gal)})}{(\text{Fuel heating value (Btu/gal)}) (2,000 \text{ (lb/ton)})}$$

EF = External combustion emission factor (listed below)

Fuel heating value for natural gas = 1,020 Btu/ft³

Fuel heating value for propane = 91,500 Btu/gal

Air Pollutant	Emission Factor Natural Gas (lbs/10 ⁶ ft ³) ^a	Emission Factor Propane (lbs/gal) ^c
NO _x	100	0.014
CO	84	0.0019
SO ₂	0.6	0.0015 ^a
PM	7.6	0.0004
PM ₁₀	7.6	0.0004
PM _{2.5}	7.6	0.0004
VOC	5.5	0.0005

Emission Factor: Natural gas emission factors for small boilers from AP-42 Section 1.4, Tables 1.4-1 through 1.4-4.
Propane emission factors from AP-42 Section 1.5, Table 1.5-1.

Fuel Dispensing:

Pertinent Units: 3004, AAFES

Calculations:

$$\text{VOC emissions (tpy)} = \frac{(\text{Gasoline throughput (10}^3 \text{ gal/yr)}) (12 \text{ (lb VOC/10}^3 \text{ gal)})}{2,000 \text{ lb/ton}}$$

HAP emissions are calculated using the default gasoline speciation factors in EPA's *TANKS 4.09d* (or most current) storage tank emissions estimating program.

Fuel Loading Racks:

Pertinent Units: 3010, AAFES

Calculations:

$$\text{VOC emissions (tpy)} = \frac{(\text{Gasoline throughput (10}^3 \text{ gal/yr)}) (5 \text{ (lb VOC/10}^3 \text{ gal)})}{2,000 \text{ lb/ton}}$$

HAP emissions are calculated using the default gasoline speciation factors in EPA's *TANKS 4.09d* (or most current) storage tank emissions estimating program.

Internal Combustion:

Pertinent Units: 846, 847, 848, 849, 850, 851, 852, PH-A-#, PH-B-#, PH-C#, PH-D#

Calculations:

$$\text{Emissions (tpy)} = \frac{(\text{Design capacity (hp)}) (0.8 \text{ Operating capacity}) (\text{Operating time (hours/yr)}) (\text{EF (lbs/hp-hour)})}{2,000 \text{ lbs/ton}}$$

EF = Internal combustion emission factor (lbs/hp-hour)

Air Pollutant	Emission Factor ¹ (lbs/hp-hr)		
	Diesel (>600 hp)	Diesel (≤600 hp)	Nat-Gas ²
NO _x	0.024	0.031	0.0088
CO	5.5 x 10 ⁻³	6.68 x 10 ⁻³	0.0044
SO ₂ ³	4.0 x 10 ⁻⁴	2.05 x 10 ⁻³	
PM	7.0 x 10 ⁻⁴	2.20 x 10 ⁻³	
PM ₁₀	7.0 x 10 ⁻⁴	2.20 x 10 ⁻³	
PM _{2.5}	7.0 x 10 ⁻⁴	2.20 x 10 ⁻³	
VOC	7.05 x 10 ⁻⁴	2.51 x 10 ⁻³	0.0022
Total HAPs ³	1.04 x 10 ⁻⁵	4.46 x 10 ⁻⁵	
¹ All emission factors from AP-42 – Sections 3.2, 3.3 and 3.4 ² NSPS JJJJ Table 1 as converted from g/hp-hr. ³ Shown only to verify that HAP emissions from internal combustion engines are insignificant.			

Emission Factor: AP-42 – Sections 3.2, 3.3 and 3.4 (October 1996)

Emission factors for NSPS-regulated generators and portable process generators with the latest technology (e.g. Tier IV engines) will be used, from the applicable regulations, instead of factors depicted above, which are older.

Miscellaneous Sources:

Pertinent Units: 3011

Calculations:

$$\text{Emissions (tpy)} = \frac{(\# \text{ Distributed/year}) (\text{Quantity of material (lbs)}) (\% \text{ VOC or HAP present})}{2,000 \text{ lbs/ton}}$$

%VOC and HAP is found in the Material Safety Data Sheet (MSDS)

Nuclear Reactor:

Pertinent Units: 1300

Calculations:

Emissions from the Survivability, Vulnerability Assessment Directorate nuclear reactor are continuously monitored and calculated by reactor personnel. Emissions are reported directly to WSMR environmental personnel semi-annually as follows: Argon-41 in curies, iodine isotopes in millicuries, and radioactive PM in microcuries. This data is then entered into the WSMR Air Quality Compliance Application. No calculations are done by WSMR environmental personnel

Surface Coating:

Pertinent Units: 702, 1205, 1608A, 1614A

Calculations:

$$\text{PM emissions (tpy)} = \frac{(\text{PQ}) (\text{PD}) (\text{SC}) (1 - (\text{TE}/100)) (1 - (\text{CE}/100))}{2,000 \text{ lbs/ton}}$$

$$\text{VOC emissions (tpy)} = \frac{(\text{PQ}) (\text{PD}) (\text{VOC content } (\%))}{2,000 \text{ lbs/ton}}$$

$$\text{HAP emissions (tpy)} = \frac{(\text{PQ}) (\text{PD}) (\text{HAP content } (\%))}{2,000 \text{ lbs/ton}}$$

PQ = paint quantity in gal/yr

PD = paint density as 9.104 lb/gal

SC = solids content 30% by weight

TE = transfer efficiency 40%

CE = control efficiency 90%

VOC content = 50% by weight

HAP content = 40% by weight

(Note: PM_{2.5} and PM₁₀ emissions are assumed to be equal to PM)

Emission Factor: Mass Balance with the above assumptions using proportional analysis.

Unleaded Gasoline Storage Tanks:

Pertinent Units: MP-5, MP-6, RC-2, ST-4, AAFES A&B

Calculations:

Emissions are a direct input resulting from running the latest version of the TANKS program (currently EPA's *TANKS 4.09d*). The most recent version of the TANKS program may be downloaded from EPA's website at <http://www.epa.gov/ttn/chief/software/tanks/index.html>.

Woodworking:

Pertinent Units: 703

Calculations:

$$\text{PM Emissions (tpy)} = [(\text{Dust Collected (lbs/yr)})/2,000 \text{ lbs/ton}] [1 - \text{CE}/100]$$

CE = Control Efficiency of Control Device (85%)

Emission Factor: The efficiency has been assumed to be equal to the efficiency specified for a centrifugal collector – medium efficiency (AIRS Code 008) in AP-42, Table B.2.3 (September 1996). PM₁₀ emissions are assumed to be 50% of PM. PM_{2.5} is assumed to be equal to PM₁₀.

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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

Calculating GHG Emissions:

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

Sources for Calculating GHG Emissions:

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

Global Warming Potentials (GWP):

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

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

Metric to Short Ton Conversion:

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

GHG emissions are estimated in this application, as represented in Section UA-2

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.
- X** 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.

Source Category	Reference	Emission Factors for:	Comment
Abrasive Blasting	AP-42 Table 13.2.6-1 (September 1997)	PM, PM ₁₀ , PM _{2.5}	Page 13.2.6-3
Aggregate Processing	AP-42 Table 11.19.2-2 (August 2004)	PM and PM ₁₀ (PM _{2.5} assumed to be equal to PM ₁₀)	Page 11.19.2-8
Concrete Production	AP-42 Table 11.12-3 (June 2006)	PM and PM ₁₀ (PM _{2.5} assumed to be equal to PM ₁₀)	Pages 11.12-7
Equipment Leaks	API Pub 4588 Table 3 (March 1993)	VOC	Cover Page, Page ES-5
External Combustion	AP-42 Table 1.4-1 (July 1998)	NO _x , CO	Page 1.4-5 (Natural gas) (small boilers; uncontrolled)
	AP-42 Table 1.4-2 (July 1998)	Total PM, SO ₂ , VOC	Page 1.4-6 (Natural gas)
Fuel Dispensing	AP-42 Table 5.2-5 (June 2008)	VOC	Page 5.2-12 (Gasoline)
Fuel Loading Racks	AP-42 Table 5.2-5 (June 2008)	VOC	Page 5.2-12 (Gasoline)
Internal Combustion	AP-42 Table 3.3-1 (October 1996)	NO _x , CO, SO ₂ , PM ₁₀ , and VOC (PM and PM _{2.5} assumed to be equal to PM ₁₀)	Page 3.3-6 (Diesel fuel ≤600hp)
	AP-42 Table 3.3-2 (October 1996)	HAP	Page 3.3-7 (Diesel fuel ≤600hp)
	AP-42 Table 3.4-1 (October 1996)	NO _x , CO, SO ₂ , PM, and VOC	Page 3.4-5 (Diesel fuel >600hp)
	AP-42 Table 3.4-3 (October 1996)	HAP	Page 3.4-7 (Diesel fuel >600hp)
	AP-42 Table 3.4-4 (October 1996)	Naphthalene	Page 3.4-8 (Diesel fuel >600hp)
Miscellaneous Sources – HMMC, LBTS, and Rocket Stands	HMMC – Mass balance based on MSDS information	VOC and HAP	Emissions calculated using HMMC Material Distribution List and MSDS.

Source Category	Reference	Emission Factors for:	Comment
Nuclear Reactor	See Calculation Sheet	PM and HAP (radionuclides)	Facility personnel monitor and report emissions in Curies.
Surface Coating (paint booths)	Mass Balance, See example calculation	PM, VOC, and HAP (PM ₁₀ and PM _{2.5} assumed to be equal to PM)	Activity reported is for those materials <u>not</u> obtained from the HMMC.
Unleaded Gasoline Storage Tanks	TANKS 4.09d	VOC and HAP	HAP speciation used for all applicable fuel handling categories.
Woodworking	AP-42 Table B.2-3	PM	See data for centrifugal collector – medium efficiency in <i>Typical Collection Efficiencies of Various Particulate Control Devices</i>

Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)

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

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

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

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

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

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

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

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

No Proof of Public Notice has been provided as this is not an NSR application under 20.2.72 or 20.2.74.

Section 10

Written Description of the Routine Operations of the Facility

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

WSMR as a whole operates 24 hours a day, 365 days a year. The primary mission of WSMR is to provide Army, Navy, Air Force, Department of Defense (DoD), and other customers with high quality services for experimentation, test, research, assessment, development, and training in support of the Nation at war. In doing so, several operations cause emissions of air pollutants. Testing occurs on an as needed basis and no such routine operations exist as a whole. This is due to the highly transient nature of weapons testing. All of the individual operations needed to provide support to testing do have routine operations.

WSMR does not have any major process bottlenecks that will limit production. WSMR is a test facility and does not manufacture final products, therefore no process bottlenecking occurs.

Aggregate Processing:

Aggregate processing consists of crushing rock and screening it into specifically sized fractions, ranging from coarse aggregate (with a minimum size of 2 to 3 inches) to sand. WSMR does not routinely process aggregate and has only one aggregate processing plant, a portable operation. WSMR also contracts aggregate processing work as part of road construction projects. The rock for WSMR and the contracted operations is procured from quarries located on WSMR property.

Concrete Production:

Concrete is composed of water, cement, sand (fine aggregate), and coarse aggregate. Concrete batching plants store, convey, measure, and discharge these constituents into trucks for transport to a job site.

At WSMR, the Permanent High-Explosive Testing Site (PHETS) and Capitol Peak personnel operate concrete batch plants. In addition, contractors sometimes bring their own concrete batch plants onto the Range to support construction activities. Contracted equipment should be permitted under a separate permit. Prior to coming on to the Range, WSMR will require all contracted concrete batching plants to certify that they have complied with all applicable air quality regulations.

Equipment Leaks:

Equipment leak emissions are "fugitive" or non-point VOCs that result when fuel vapors leak from petroleum distribution equipment. Examples of the components of a distribution system that leak fuel vapors include valves, pump seals, pressure relief valves, flanges, connections, and open-ended lines.

At WSMR, gasoline, JP-8, and diesel fuel have the potential to leak at areas such as the fuel loading racks, bulk storage tanks, and fuel dispensers. The handling of jet fuel and diesel fuel is defined as an insignificant activity by the AQB because these fuels have a vapor pressure of less than 10mm Hg. An inventory was performed to estimate the number of valves, safety relief valves flanges, sampling connections, open-ended lines, and pump seals in gasoline service at WSMR; all of these components combined have been designated as emission unit #3017.

External Combustion:

External combustion systems burn a fuel and transfer the heat of combustion to a working fluid that, typically, does not come into direct contact with the combustion products; the most common type of external combustion systems are water heaters, boilers, and forced air furnaces. External combustion systems have been designed to burn all types of fuels; typical sizes range from less than 100,000 Btu/hour to hundreds of million Btu/hour (MMBtu/hr).

WSMR uses multiple external combustion systems to provide heat required for processes and space heat for facilities throughout the Range. These systems vary in heat input capacity from about 100,000 Btu/hour to 5 MMBtu/hr. The WSMR external combustion systems are fueled by natural gas or propane.

Fuel Dispensing:

Fuel dispensing consists of transferring liquid fuel from a fixed or mobile storage tank to an end use (i.e., a vehicle or equipment fuel tank). Emissions occur as a result of fuel vapor displacement when the equipment/vehicle fuel tank is filled and as a result of fuel spillage.

Fuel dispensing at WSMR consists of dispensing gasoline, jet fuel, and diesel fuel into equipment and vehicles for use on the Range. Because jet and diesel fuel have vapor pressures below 10 mm Hg, dispensing of these fuels is defined as an insignificant activity by the AQB. The remainder of this section addresses only significant gasoline dispensing operations, which have been consolidated into a single source. Emissions from dispensing jet fuel, diesel fuel, and gasoline at the PX Service Station were included in the original Title V permit application when assessing whether WSMR would be a major source with respect to PSD, Title III, and Title V.

In this permit application, WSMR is proposing to add an AAFES gasoline station which is subject to NESHAP. This is an existing source that was previously excluded from the permit because it was historically considered by WSMR to be insignificant per item 8 of the List of Insignificant Activities. However, in accordance with the introductory paragraph of the List, activities for which applicable requirements apply (such as NSPS and NESHAP) cannot be considered insignificant, regardless of whether the activity meets the item-criteria of the list.

Fuel Loading Racks:

Fuel loading rack operations consist of transferring liquid fuel from a fixed storage tank to a tanker truck for subsequent transport to other locations. Emissions occur as a result of fuel vapor displacement when the tanker truck is filled.

Fuel loading rack operations at WSMR involve gasoline, JP-8, and diesel fuel. Because JP-8 and diesel fuel have vapor pressures below 10 mm Hg, loading of these fuels is defined as an insignificant activity by the AQB. The remainder of this section addresses only gasoline loading operations.

There currently are 3 gasoline loading rack operations at WSMR: the POL yard on Main Post, Rhodes Canyon, and Stallion Range Center; all are included in the same source number – 3010. POL personnel are responsible for all three of these operations.

In this permit application, WSMR is proposing to add an AAFES gasoline station subject to NESHAP. This is an existing source that was previously excluded from the permit because it is generally considered insignificant per item 8 of the List of Insignificant Activities. However, in accordance with the introductory paragraph of the List, activities for which applicable requirements apply (such as NSPS and NESHAP) cannot be considered insignificant, regardless of whether the activity meets the item-criteria of the list.

Internal Combustion:

All reciprocating internal combustion engines operate by the same basic process. A combustible mixture is first compressed in a small volume between the head of a piston and its surrounding cylinder. The mixture is then ignited, and the resulting high-pressure products of combustion push the piston through the cylinder. This movement is converted from linear to rotary motion by a crankshaft. The piston returns, pushing out the exhaust gases, and the cycle is repeated.

WSMR maintains numerous standby and portable generators to provide electrical power to various operations throughout the Range. The generators vary in power output and burn either diesel fuel or JP-8. WSMR will also maintain three different types of placeholders for generators. These generators will be in support of missions.

In this permit application, WSMR is proposing to add to permit several emergency backup power generators subject to NSPS/NESHAP. These sources were previously excluded from the permit because they were historically considered by WSMR to be insignificant sources, per items 6 and 7 of the List of Insignificant Activities. However, in accordance with the introductory paragraph of the List, activities for which applicable requirements apply (such as NSPS and NESHAP) cannot be considered insignificant, regardless of whether the activity meets the criteria of the list.

The federally-regulated emergency (backup power) generators which WSMR proposes to add to the permit are currently shown in Section UA2 Table 2-B as insignificant sources; those that are designated specifically as either NSPS IIII or NSPS JJJJ are the generators at issue. WSMR proposes to assign a grouped-emissions limit to these generators using source-category placeholders (PH-C and PH-D) that can accommodate additional NSPS generators to be added in the future.

Miscellaneous Sources:

Various organizations at WSMR use solvents, paints, and other chemicals for a variety of purposes, and many of these materials contain VOCs and/or HAPs. Those chemical uses that are not accounted for elsewhere in this permit application are considered miscellaneous sources for the purposes of this permit application.

Chemicals are used for a wide variety of purposes in operations throughout the Range. For example, solvents are used for surface cleaning, paints are used to coat components that are to be used in testing, and other chemicals are used for chemical analyses. Most individual uses and users are small; the few relatively large uses have been accounted for separately elsewhere in this application. These chemicals are distributed through one central processing point, the Hazardous Materials Minimization Center (HMMC). The HMMC tracks chemical usage and keeps records on each chemical in an electronic database. This database can then be used to estimate VOCs and/or HAPs emitted.

Nuclear Reactor:

The Directorate for Survivability, Vulnerability Assessment (SV) operates a research reactor to test the effects of neutrons and mixed radiation fields on materials and items. Fission products and activation products are produced during operations. Emissions from the reactor are controlled and continuously monitored. This facility produces ionizing radiation but does not release any radioactive material.

Surface Coating:

Surface coating operations involve the application of protective coatings (i.e., primers, sealers, stains, topcoats) to various types of surfaces to improve their durability and/or appearance or to impart a desired characteristic (i.e., heat resistance, radar reflectance). Surface coatings can be applied by brushing, rolling, or spraying the coating on to the surface, or by immersing the surface in the coating. Spray application of coatings is the most common method used in industrial settings; this can involve spraying from an aerosol can, use of a conventional air atomized spray rig, or use of more advanced spray equipment (i.e., high-volume, low-pressure (HVLP), airless, or air-assisted airless) designed to reduce the amount of paint required to coat a surface by reducing the amount of overspray (i.e., coating material that misses or bounces off the surface).

Coating operations can be conducted in a paint booth or can be unenclosed. Paint booths provide a better environment for painting by isolating the activity from wind, dust, and other external effects. Booths are typically equipped with either filters or a waterwall (in which the booth exhaust stream passes through a water curtain that impacts and captures particles in the stream) for particulate matter control. Emissions from surface coating include the VOCs and HAPs in the solvents that are part of the coatings (and the solvents used for thinning and for cleanup) and PM emissions from overspray.

WSMR conducts surface coating operations for both mission support and facilities maintenance activities, both within and outside of paint booths. Mission support activities involve primarily painting test assemblies prior to use. Facilities maintenance activities include the painting of roadway and pedestrian area ground markings and interior and exterior painting of buildings (including housing units), assemblies (i.e., window shutters, stair railings), furniture, and equipment. Building and grounds maintenance is defined as a trivial activity by the AQB; this exempts WSMR's entire facilities maintenance surface coating activities except for equipment painting.

WSMRs paint booths are equipped with paper or fabric filters for PM control.

Unleaded Gasoline Storage Tanks:

Fuels are routinely stored in steel or fiberglass tanks that can be either above or below the earth's surface. Aboveground tanks can have fixed dimensions (fixed-roof tanks), or can have a roof that floats on or above the liquid surface (internal or external floating roof tanks). Emissions from storage tanks occur when liquid is pumped into the tank (due to vapor displacement) and when ambient temperature changes cause the tanks to "breathe."

WSMR stores gasoline, jet fuel, and diesel fuel in storage tanks. Most of the tanks at WSMR are aboveground, fixed-roof tanks, although there are two underground tanks at the PX Service Station. Because jet fuel and diesel fuel have vapor pressures below 10 mm Hg, storage of these fuels is defined as an insignificant activity by the AQB. Gasoline storage at the PX Service Station was previously defined as an insignificant activity by the AQB. In addition, 16 gasoline storage tanks are used for refueling WSMR vehicles/equipment and are smaller than 25,000 gallons; these tanks are insignificant in accordance with Item 8 of the AQB's 29 *List of Insignificant Activities*. The remainder of this section addresses only significant gasoline storage tanks. Emissions from storage of JP-8, diesel fuel, and the insignificant gasoline storage tanks were included when determining whether WSMR is a major or minor source, as discussed in Section 2.0 of this permit application. WSMR has five significant gasoline storage tanks at various locations throughout the Range, as summarized in Table 3-30.

In this permit application, WSMR is proposing to add an AAFES gasoline station subject to NESHAP. This is an existing source that was historically excluded from the permit by WSMR because it is generally considered insignificant per item 8 of the List of Insignificant Activities. However, in accordance with the introductory paragraph of the List, activities for which applicable requirements apply (such as NSPS and NESHAP) cannot be considered insignificant, regardless of whether the activity meets the item-criteria of the list.

Woodworking:

Woodworking involves the manufacturing of wooden objects (i.e. parts, assemblies, structures, or furniture). Woodworking activities that produce air pollutant emissions include cutting, drilling, sanding, and lathing wooden objects or wood stock.

Woodworking is performed at various locations at WSMR for fabricating materials to be used in tests and for conducting range maintenance (primarily building and housing maintenance). WSMR has one permitting woodworking operation; located in building 426 on Main Post. Woodworking operations at this site create sawdust that generally falls on the floor of the room where the operation is conducted. Periodically, the sawdust is swept to collection points where ducts into the sawdust collection system are located. When the sawdust collection system is activated, an induced draft fan creates a vacuum that pneumatically conveys the sawdust through the collection device.

Other (Non-WSMR) Facilities:

Just within the southwestern outskirts of WSMR territory along the western slope of the San Augustin Mountains (about 6 miles north of Highway 70) in Las Cruces is the NASA-WSTF facility and the National Reconnaissance Office Aerospace Data Facility Southwest (NRO-ADFSW). Each of these two facilities is owned by its respective organization (NASA and NRO, separate from WSMR) and each operate independently, to include the management of its own environmental programs, including air-quality matters. The NASA facility has its own NSR permits and exempted emissions sources. The NRO-ADFSW facility has five diesel-driven emergency backup-power generators that they will be exempting via NOE in calendar year 2016, in coordination with NMED.

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):

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:

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

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

- a. NO₂: 165 TPY
- b. CO: 33 TPY
- c. VOC: 100 TPY
- d. SO₂: 5 TPY
- e. TSP (PM): 0 TPY
- f. PM₁₀: 18 TPY
- g. PM_{2.5}: 10 TPY

No debottlenecking applies.

C. Netting is not required (project is not significant)

D. BACT is not required as this application is a minor modification.

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.

Section 12.B

Special Requirements for a PSD Application

(Submitting under 20.2.74 NMAC)

Prior to Submitting a PSD application, the permittee shall:

- ☐ Submit the BACT analysis for review prior to submittal of the application. No application will be ruled complete until the final determination regarding BACT is made, as this determination can ultimately affect information to be provided in the application. A pre-application meeting is recommended to discuss the requirements of the BACT analysis.
- ☐ Submit a modeling protocol prior to submitting the permit application. [Except for GHG]
- ☐ Submit the monitoring exemption analysis protocol prior to submitting the application. [Except for GHG]

For PSD applications, the permittee shall also include the following:

- ☐ Documentation containing an analysis on the impact on visibility. [Except for GHG]
 - ☐ Documentation containing an analysis on the impact on soil. [Except for GHG]
 - ☐ Documentation containing an analysis on the impact on vegetation, including state and federal threatened and endangered species. [Except for GHG]
 - ☐ Documentation containing an analysis on the impact on water consumption and quality. [Except for GHG]
 - ☐ Documentation that the federal land manager of a Class I area within 100 km of the site has been notified and provided a copy of the application, including the BACT and modeling results. The name of any Class I Federal area located within one hundred (100) kilometers of the facility.
-

This is not a PSD Application.

Section 13

Determination of State & Federal Air Quality Regulations

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

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

Required Information for Specific Equipment:

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

Required Information for Regulations that Apply to the Entire Facility:

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

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

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

Regulatory Citations for Emission Standards:

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

Federally Enforceable Conditions:

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

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

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

Example of a Table for Applicable STATE REGULATIONS:

STATE REGU- LATIONS CITATION	Title	Applies to Entire Facility	Applies to Unit No(s).	Federally Enforce- able	Does Not Apply	JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m ³ , 3. VOL)
20.2.3 NMAC	Ambient Air Quality Standards NMAAQs	NA	NA	Yes	Does Not Apply	20.2.3 NMAC is a SIP approved regulation that limits the maximum allowable concentration of Total Suspended Particulates, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. Title V applications, see exemption at 20.2.3.9 NMAC
20.2.7 NMAC	Excess Emissions	Yes	All Permit Units	Yes	Does Apply	All Title V major sources are subject to Air Quality Control Regulations, as defined in 20.2.7 NMAC, and are thus subject to the requirements of this regulation. Also listed as applicable in NSR Permit.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	NA	NA	NA	Does Not Apply	Choose all that apply: This facility has new gas burning equipment (external combustion emission sources, such as gas fired boilers and heaters) having a heat input of greater than 1,000,000 million British Thermal Units per year per unit This facility has existing gas burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit Note: "New gas burning equipment" means gas burning equipment, the construction or modification of which is commenced after February 17, 1972.
20.2.34 NMAC	Oil Burning Equipment: NO ₂	NA	NA	NA	Does Not Apply	This facility has oil burning equipment (external combustion emission sources, such as oil fired boilers and heaters) having a heat input of greater than 1,000,000 million British Thermal Units per year per unit.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	NA	NA	NA	Does Not Apply	This facility is subject to the requirements of NMAC 2.35 for "New Natural Gas Processing Plants for which a modification commenced on or after July 1, 1974.
20.2.37 NMAC	Petroleum Processing Facilities	NA	NA	NA	Does Not Apply	This facility is subject to the requirements of NMAC 2.37 for "New Natural Gas Processing Plants for which a modification commenced on or after July 1, 1974
<u>20.2.38</u> NMAC	Hydrocarbon Storage Facility.	NA	NA	NA	Does Not Apply	
<u>20.2.39</u> NMAC	Sulfur Recovery Plant - Sulfur	NA	NA	NA	Does Not Apply	
20.2.61.10 9 NMAC	Smoke & Visible Emissions	NA	All Combustion	NA	Does Apply	Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation.
20.2.70 NMAC	Operating Permits	Yes	All Permit Units	Yes	Does Apply	Source is major for [specify pollutant: NO _x , CO, VOCs, SO ₂ , Formaldehyde, and Total HAPs].
20.2.71 NMAC	Operating Permit Fees	Yes	All Permit Units	Yes	Does Apply	Yes, this facility is subject to 20.2.70 NMAC and is in turn subject to 20.2.71 NMAC.
20.2.72 NMAC	Construction Permits	Yes	All Permit Units	Yes	Does Apply	This facility is subject to 20.2.72 NMAC and NSR Permit number: NA
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	All Permit Units	Yes	Does Apply	NOI: 20.2.73.200 NMAC applies (requiring a NOI application) Emissions Inventory Reporting: 20.2.73.300 NMAC applies. All Title V major sources meet the applicability requirements of 20.2.73.300 NMAC.

STATE REGU- LATIONS CITATION	Title	Applies to Entire Facility	Applies to Unit No(s).	Federally Enforce- able	Does Not Apply	JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m ³ , 3. VOL)
20.2.74 NMAC	PSD Permits – NA, WSMR is not a PSD Major Source	NA	NA	NA	Does Not Apply	This facility is PSD major as defined by: (1) Any stationary source listed in Table 1 of this Part (20.2.74.501 NMAC) which emits, or has the potential to emit, emissions equal to or greater than one hundred (100) tons per year of any regulated pollutant; or (2) Any stationary source not listed in Table 1 of this Part (20.2.74.501 NMAC) and which emits or has the potential to emit two hundred fifty (250) tons per year or more of any regulated pollutant; or (3) Any physical change that would occur at a stationary source not otherwise qualifying under paragraphs (1) or (2) of subsection Z of 20.2.74.7 NMAC if the change would constitute a major stationary source by itself; (4) A major source that is major for volatile organic compounds shall be considered major for ozone; (5) The fugitive emissions of a stationary source shall not be included in determining for any of the purposes of this section whether it is a major stationary source, unless the source belongs to one of the stationary source categories found in Table 1 of this Part (20.2.74.501 NMAC) or any other stationary source category which, as of August 7, 1980, is being regulated under section 111 or 112 of the Act.
20.2.75 NMAC	Construction Permit Fees	Yes	All Permit Units	Yes	Does Apply	This facility is subject to 20.2.72 NMAC and is in turn subject to 20.2.75 NMAC. N/A if subject to 20.2.71 NMAC.
20.2.77 NMAC	New Source Performance	Yes	Designated Units	Yes	Does Apply	This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended through September 23, 2013.
20.2.78 NMAC	Emission Standards for HAPS	Yes	Designated Units	Yes	Does Apply	This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended through December 31, 2010.
20.2.79 NMAC	Permits – Nonattainment Areas	No	NA	NA	Does Not Apply	This facility is applicable according to 2.79.109 NMAC: (1) The major stationary source or major modification will be located within a nonattainment area so designated pursuant to Section 107 of the Federal Act and will emit a regulated pollutant for which it is major and which the area is designated nonattainment for; or (2) The major stationary source or major modification will be located within an area designated attainment or unclassifiable pursuant to Section 107 of the Federal Act and will emit a regulated pollutant for which it is major and the ambient impact of such pollutant would exceed any of the significance levels in 20.2.79.119.A NMAC at any location that does not meet any national ambient air quality standard for the same pollutant. (See 20.2.79.109.D NMAC)
20.2.80 NMAC	Stack Heights	NA	NA	NA	Does Not Apply	Usually not applicable for TV If applies: Cited as applicable in NSR Permit XXX.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	Designated Units	Yes	Does Apply	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended through August 29, 2013.

Example of a Table for Applicable FEDERAL REGULATIONS (Note: This is not an exhaustive list):

FEDERAL REGU- LATIONS CITATION	Title	Applies to Entire Facility	Applies to Unit No(s).	Federally Enforce- able	Does Not Apply	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	All Permit Units	Yes	Does Apply	Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	All Permit Units	Yes	Does Apply	Applies if any other NSPS subpart applies.
NSPS 40 CFR 60.40 a, Subpart Da	Subpart Da, Performance Standards for Electric Utility Steam Generating Units	NA	NA	NA	Does Not Apply	Does not apply.
NSPS 40 CFR 60.40b Subpart Db	Electric Utility Steam Generating Units	NA	NA	NA	Does Not Apply	(a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 million Btu/hour).
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	NA	NA	NA	Does Not Apply	Tanks XXX have a storage capacity greater than 151,416 liters (40,000 gallons) that are used to store petroleum liquids for which construction is commenced after May 18, 1978. Note: Exception below Each petroleum liquid storage vessel with a capacity of less than 1,589,873 liters (420,000 gallons) used for petroleum or condensate stored, processed, or treated prior to custody transfer is not an affected facility and, therefore, is exempt from the requirements of this subpart

FEDERAL REGU- LATIONS CITATION	Title	Applies to Entire Facility	Applies to Unit No(s).	Federally Enforce- able	Does Not Apply	JUSTIFICATION:
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	NA	NA	NA	Does Not Apply	Does not apply.
NSPS 40 CFR 60.330 Subpart GG	Stationary Gas Turbines	NA	NA	NA	Does Not Apply	Does not apply
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from Onshore Gas Plants	NA	NA	NA	Does Not Apply	Affected Facility with Leaks of VOC from Onshore Gas Plants. Any affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after January 20, 1984, is subject to the requirements of this subpart. The group of all equipment (each pump, pressure relief device, open-ended valve or line, valve, compressor, and flange or other connector that is in VOC service or in wet gas service, and any device or system required by this subpart) except compressors (defined in § 60.631) within a process unit is an affected facility. A compressor station, dehydration unit, sweetening unit, underground storage tank, field gas gathering system, or liquefied natural gas unit is covered by this subpart if it is located at an onshore natural gas processing plant. If the unit is not located at the plant site, then it is exempt from the provisions of this subpart.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for Onshore Natural Gas Processing: SO ₂ Emissions	NA	NA	NA	Does Not Apply	The facility is a natural gas processing plant, including a sweetening unit followed by a sulfur recovery unit, constructed after January XX, XXXX, and meets the applicability criteria of 40 CFR 60.640
NSPS 40 CFR Part 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution	NA	NA	NA	Does Not Apply	<p>The rule applies to “affected” facilities that are constructed, modified, or reconstructed after Aug 23, 2011 (40 CFR 60.5365): gas wells, including fractured and hydraulically fractured wells, centrifugal compressors, reciprocating compressors, pneumatic controllers, certain equipment at natural gas processing plants, sweetening units at natural gas processing plants, and storage vessels.</p> <p>If there is a standard or other requirement, then the facility is an “affected facility.” Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385); controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).</p> <p>If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g.</p>

FEDERAL REGU- LATIONS CITATION	Title	Applies to Entire Facility	Applies to Unit No(s).	Federally Enforce- able	Does Not Apply	JUSTIFICATION:
						Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)
NSPS 40 CFR Part 60 Subpart JJJJ		Yes	Designated Units Section UA2 Table 2-B	Yes	Does Apply	See 40 CFR 60.4230 (a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture.
NESHAP 40 CFR 61 Subpart A	General Provisions	Yes	Permit Units	Yes	Does Apply	This part applies to the owner or operator of any stationary source for which a standard is prescribed under this part.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for Mercury	NA	NA	NA	Does Not Apply	The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge
NESHAP 40 CFR 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	NA	NA	NA	Does Not Apply	The provisions of this subpart apply to each of the following sources that are intended to operate in volatile hazardous air pollutant (VHAP) service: pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by this subpart. VHAP service means a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 10 percent by weight of VHAP. VHAP means a substance regulated under this subpart for which a standard for equipment leaks of the substance has been promulgated. Benzene is a VHAP (See 40 CFR 61 Subpart J). Link to 40 CFR 61 Subpart V Note: If 40 CFR 60 also applies source only needs to comply with this part.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	Designated Units	Yes	Does Apply	Applies if any other subpart applies.
MACT 40 CFR 63.760 Subpart HH	Oil and Natural Gas Production Facilities	NA	NA	NA	Does Not Apply	
MACT 40 CFR 63 Subpart HHH		NA	NA	NA	Does Not Apply	This subpart applies to owners and operators of natural gas transmission and storage facilities that transport or store natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company), and that are major sources of hazardous air pollutants (HAP) emissions as defined in §63.1271. See link below 40 CFR 63 Subpart HHH
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal	Yes	301, 302, 303, 846, 847, 848, 849	Yes	Does Apply	Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

FEDERAL REGU- LATIONS CITATION	Title	Applies to Entire Facility	Applies to Unit No(s).	Federally Enforce- able	Does Not Apply	JUSTIFICATION:
	Combustion Engines (RICE MACT)					
NESHAP 40 CFR 64	Compliance Assurance Monitoring	NA	NA	NA	Does Not Apply	Emissions for Unit XX are major and XXX TPY SO2 OR SRU is actually exempt because of 40 CFR64.2 (b) (vI) (b) Exemptions—(1) Exempt emission limitations or standards. The requirements of this part shall not apply to any of the following emission limitations or standards: (vi) Emission limitations or standards for which a part 70 or 71 permit specifies a continuous compliance determination method, as defined in §64.1. The exemption provided in this paragraph (b)(1)(vi) shall not apply if the applicable compliance method includes an assumed control device emission reduction factor that could be affected by the actual operation and maintenance of the control device (such as a surface coating line controlled by an incinerator for which continuous compliance is determined by calculating emissions on the basis of coating records and an assumed control device efficiency factor based on an initial performance test; in this example, this part would apply to the control device and capture system, but not to the remaining elements of the coating line, such as raw material usage).
NESHAP 40 CFR 68	Chemical Accident Prevention	NA	NA	NA	Does Not Apply	No threshold chemicals
Title IV – Acid Rain 40 CFR 72	Acid Rain	NA	NA	NA	Does Not Apply	
Title IV – Acid Rain 40 CFR 73	Sulfur Dioxide Allowance Emissions	NA	NA	NA	Does Not Apply	
Title IV – Acid Rain 40 CFR 76	Acid Rain Nitrogen Oxides Emission Reduction Program	NA	NA	NA	Does Not Apply	
Title VI – 40 CFR 82	Protection of Stratospheric Ozone	Yes	Refrigerat ion	Yes	Does Apply	Not Applicable –facility does not “service”, “maintain” or “repair” class I or class II appliances nor “disposes” of the appliances. Note: Disposal definition in 82.152: Disposal means the process leading to and including: (1) The discharge, deposit, dumping or placing of any discarded appliance into or on any land or water; (2) The disassembly of any appliance for discharge, deposit, dumping or placing of its discarded component parts into or on any land or water; or (3) The disassembly of any appliance for reuse of its component parts. “Major maintenance, service, or repair means” any maintenance, service, or repair that involves the removal of any or all of the following appliance components: compressor, condenser, evaporator, or auxiliary heat exchange coil; or any maintenance, service, or repair that involves uncovering an opening of more than four (4) square inches of “flow area” for more than 15 minutes.

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.
-

WSMR is not subject to SSM provisions. At WSMR, there are no startup or shutdown events that result in excess emissions. For the sake of combustion sources, any time a unit is taken off-line for failing to meet the 20% opacity standard, that situation will constitute a unit shutdown. Shutdowns, and subsequent startups of these sources are inconsequential for the purpose of associated emissions.

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: https://www.env.nm.gov/aqb/permit/aqb_pol.html. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title “Construction Scenarios”, specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc).

WSMR currently does not have a defined alternative operating scenario for any of the proposed modifications. It is WSMR's intent to limit use of all air emissions sources and operate within the guidelines of the permit. WSMR will continue to keep record of all air emission sources operating schedules.

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.	
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above.	X
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling Guidelines.	

Check each box that applies:

- ☐ See attached, approved modeling **waiver for all** pollutants from the facility.
- ☐ See attached, approved modeling **waiver for some** pollutants from the facility.
- ☐ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.
- ☐ Attached in UA4 is a **modeling report for some** pollutants from the facility.
- ☒ No modeling is required.

WSMR will not be submitting modeling at this time. Air dispersion modeling was last performed in 2012 associated with a compliance plan of a previous Title V permit.

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

The following were previously submitted to NMED:

Compliance Test History Table

Unit No.	Test Description	Test Date
833	Initial performance test in accordance with GCP2-3933	September 2012
Facility Wide	Air dispersion modeling of entire facility as part of current TV permit	November 2012
PH-D-05	NSPS IIII Performance Test (40 CFR Part 60, Subpart IIII)	February 2020

Section 18

Addendum for Streamline Applications

Do not print this section unless this is a streamline application.

Streamline Applications do not require a complete application. Submit Sections 1-A, 1-B, 1-D, 1-F, 1-G, 2-A, 2-C thru L, Sections 3 thru 8, Section 13, Section 18, Section 22, and Section 23 (Certification). Other sections may be required at the discretion of the Department. 20.2.72.202 NMAC Exemptions do not apply to Streamline sources. 20.2.72.219 NMAC revisions and modifications do not apply to Streamline sources, thus 20.2.72.219 type actions require a complete new application submittal. Please do not print sections of a streamline application that are not required.

18-A: Streamline Category

1	<p>Indicate under which part of 20.2.72.301.D this facility is applying. Refer to the forth column of Table 18-D below, to assist in this determination:</p> <p> <input type="checkbox"/> 20.2.72.301.D(1) NMAC <input type="checkbox"/> 20.2.72.301.D(2) NMAC <input type="checkbox"/> 20.2.72.301.D(3) NMAC </p>
---	--

18-B: Streamline Applicability Criteria

18-B: Streamline Applicability Criteria	Answer (yes/no)
<p>1 Does the source category for this facility meet one of those listed in the following table? (20.2.72.301.A NMAC)</p> <p>20.2.72.501 Table 2 – Permit Streamlining Source Class Categories</p> <ol style="list-style-type: none"> 1. Reciprocating internal combustion engines including portable or temporary engines 2. Turbines 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>2 If this facility is a compressor station, does it meet the definition of a “Compressor station” below? (20.2.72.301.D NMAC)</p> <p>“Compressor station” means a facility whose primary function is the extraction of crude oil, natural gas, or water from the earth with compressors, or movement of any fluid, including crude oil or natural gas, or products refined from these substances through pipelines or the injection of natural gas or CO2 back into the earth using compressors. A compressor station may include engines to generate power in conjunction with the other functions of extraction, injection or transmission and may contain emergency flares. A compressor station may have auxiliary equipment which emits <u>small quantities</u> of regulated air contaminants, including but not limited to, separators, de-hydration units, heaters, treaters and storage tanks, provided the equipment is located within the same property boundaries as the compressor engine (underline added). (20.2.72.301.A NMAC)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>3 Will the source operate in compliance with all applicable state and federal regulations, including federal new source performance standards incorporated by 20.2.77 NMAC and permit conditions? (20.2.72.305.B NMAC)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>4 Will the fuel combusted at this facility be produced natural gas, sweet natural gas, liquid petroleum gas, or fuel gas containing 0.1 grain of total sulfur or less per dry standard cubic foot; or refinery grade diesel or No. 2 fuel oil that is not a blend containing waste oils or solvents and contains less than 0.3% by weight sulfur? (20.2.72.306 NMAC)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No

5	Will all spark ignited gas-fired or any compression ignited dual fuel-fired engine which operates <u>with a non-selective catalytic converter</u> be equipped <u>and</u> operated with an automatic air-fuel ratio (AFR) controller which maintains AFR in the range required to minimize NOx emissions, as recommended by the manufacturer? (20.2.72.306 NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	Has payment of <u>all</u> fees that are specified in 20.2.75 NMAC (Construction Permit Fees), as payable at the time the application is submitted, been included with the application package? (20.2.72.302.15 NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No
7	Is the answer to each of the above questions, #1 through #6, 'Yes'? If the answer to this question is "No", this facility does not qualify for a streamline permit.	<input type="checkbox"/> Yes <input type="checkbox"/> No
8	Will the facility, either before or after construction or modification, have a total potential to emit of any regulated air contaminant ² greater than 200 tons per year (tpy) of any one regulated air pollutant (CO, NOx, SO2, or VOC)? (20.2.72.301.B.2 NMAC); "Potential to emit" or "potential emissions" means the maximum capacity of a stationary source to emit a regulated air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a regulated air contaminant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitations or the effect it would have on emissions is federally enforceable. Secondary emissions do not count in determining the potential to emit of a stationary source.	<input type="checkbox"/> Yes <input type="checkbox"/> No
9	Is the facility a "major stationary source" as defined in 20 NMAC 2.74? (20.2.72.301.B.1 NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No
10	Is this source subject 20.2.78 NMAC, other than 40CFR61 Subpart M <u>National Emission Standard for Asbestos</u> ? (20.2.72.301.B.3 NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No
11	Is this a source of potential air toxic emissions (20 NMAC 2.72. 400-499)? (20.2.72.301.B.3 NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No
12	Will the reciprocating internal combustion (IC) engines and/or turbines be located at a petroleum refinery, chemical manufacturing plant, bulk gasoline terminal, natural gas processing plant, or at any facility containing sources in addition to IC engines and/or turbines for which an air quality permit is required through state or federal air quality regulations in the absence of the (IC) engines and/or turbines? (20.2.72.301.B.4 NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No
13	Will the proposed facility be located within any of the 20.2.72.301.B.5 exclusion areas specified in the Air Dispersion Modeling Guidelines ¹ , Table: <u>Areas Where Streamline Permits Are Prohibited?</u> (20.2.72.301.B.5 NMAC) http://www.env.nm.gov/aqb/modeling	<input type="checkbox"/> Yes <input type="checkbox"/> No
14	Will the proposed facility's impact area intersect any of the areas specified in the Air Dispersion Modeling Guidelines ¹ , Table: <u>Areas Where Streamline Permits Are Prohibited?</u> (20.2.72.301.B.5 NMAC) http://www.env.nm.gov/aqb/modeling	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
15	Is the answer to each of the above questions, #8 through #14, 'No'? If the answer to this question is "No", this facility does not qualify for a streamline permit.	<input type="checkbox"/> Yes <input type="checkbox"/> No

¹ The Air Dispersion Modeling Guidelines contain a section on streamline permitting. The table mentioned above can be found within those guidelines at <http://www.env.nm.gov/aqb/modeling>

² The potential to emit for nitrogen dioxide shall be based on total oxides of nitrogen

18-C: Streamline Location Restrictions		Answer (yes/no)	Identify: Name and Distance (km)
1	Will the distance from the nearest property boundary to the nearest school, residence, office building or occupied structure, excluding the immediate facility complex be greater than one (1.0) km? (20.2.72.301.B.6.a NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Will the distance from the nearest property boundary to the nearest state park, Class II wilderness or wildlife refuge, historic park, state recreation area be greater than three (3.0) km? (20.2.72.301.B.6.b NMAC) The <u>Air Dispersion Modeling Guidelines</u> ¹ , Table: <u>List Of State Parks, Class II Wilderness Areas, Class II National Wildlife Refuge, National Historic Parks, State Recreation Areas, and Class I Areas</u> contains a list of most of these areas in New Mexico, but may not include new areas designated since the modeling guidelines were published.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Will the distance from the nearest property boundary to the nearest community with a population of more than 20,000 people be greater than three (3.0) km? (20.2.72.301.B.6 NMAC).b	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Will the distance from the nearest property boundary to the nearest community with a population of more than 40,000 people be greater than 10 km? (20.2.72.301.B.6.c NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Will the distance from the nearest property boundary to the nearest Class I area be greater than 30 km? (20.2.72.301.B.6.d NMAC) The <u>Air Dispersion Modeling Guidelines</u> ¹ , Table: <u>List Of State Parks, Class II Wilderness Areas, Class II National Wildlife Refuge, National Historic Parks, State Recreation Areas, and Class I Areas</u> contains a list of most of these areas in New Mexico, but may not include new areas designated since the modeling guidelines were published.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Will the distance from the nearest property boundary to Bernalillo County be greater than 15 km? (20.2.72.301.B.7 NMAC)	<input type="checkbox"/> Yes <input type="checkbox"/> No	-NA-
7	Is the answer to all of the above question yes or N/A? If the answer to this question is “No”, this facility does <u>not</u> qualify for a streamline permit.	<input type="checkbox"/> Yes <input type="checkbox"/> No	-NA-

¹ The Air Dispersion Modeling Guidelines contain a section on streamline permitting. The table mentioned above can be found within those guidelines at <http://www.env.nm.gov/aqb/modeling>.

18-D: Source Category Determination			
1	Is the total potential to emit of each regulated contaminant from all sources at the facility less than 40 tpy?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> • If the answers to this question is “Yes”, the facility qualifies for a 20.2.72.301.D.1 NMAC streamline permit. • Public notice is not required, 20.2.72.303.A NMAC. • Modeling is not required, 20.2.72.301.D NMAC. • If “Yes”, leave the remainder of this table blank.
2	Is the total potential to emit of each regulated contaminant from all emission sources at the facility less than 100 tons per year (tpy) AND the impact on ambient air from all sources at the facility less than the ambient significance levels in 20.2.72.500 NMAC?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> • If the answer to this question is “Yes”, the facility qualifies for a 20.2.72.301.D.2 NMAC streamline permit. • Public notice is not required, 20.2.72.303.A NMAC. • Modeling is required in accordance with 20.2.72.301.D.2 NMAC • If “Yes”, leave the remainder of this table blank.

3.a	Is the total potential to emit of each regulated contaminant from all emission sources at the facility less than 200 tons per year (tpy) AND the maximum modeled ambient impact from the total potential emissions at the facility less than 50 percent of each applicable PSD increment, state and federal ambient air quality standards?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> • If the answers to these questions (3.a, 3.b, 3.c, and 3.d) are all "Yes", the facility qualifies for a 20.2.72.301.D.3 NMAC streamline permit. • Public notice is required in accordance with NMAC 20.2.72.303 NMAC. • Modeling is required in accordance with 20.2.72.301.D.3 NMAC • If the answers to questions 1, 2, and any of questions in question 3 (3.a, 3.b, 3.c, or 3.d) are "No", this facility does not qualify for a streamline permit.
3.b	Are there no adjacent sources emitting the same regulated air contaminant(s) as the source within 2.5 km of the modeled nitrogen dioxide (NO ₂) impact area?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.c	Is the "sum of the potential emissions for oxides of nitrogen from all adjacent sources" (SUM) within 15 km of the NO ₂ impact area (SUM15) less than 740 tpy?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.d	Is the "sum of the potential emissions for oxides of nitrogen from all adjacent sources" (SUM) within 25 km of the NO ₂ impact area (SUM25) less than 1540 tpy?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Note: All modeling demonstrations have the option of demonstrating compliance with 20.2.72.301.D.3 NMAC. All public notices are required to comply with the public notice requirements of a NMAC 20.2.72.301.D.3 facility.

18-E: Submittals

1	If a facility is required to submit a modeling analysis to demonstrate compliance with NMAC 20.2.72.300-399, use the Department's most current version of the Department's Air Dispersion Modeling Guidelines, and include a copy of the modeling in the application. A copy of the most current version of the guidelines can be obtained at the following web address: http://www.env.nm.gov/aqb/modeling .
2	<p>Public Notice: Per 20.2.72.303.A NMAC, public notice is only required for sources subject to NMAC 20.2.72.301.D.3. Public notice submittals shall consist of the following:</p> <ol style="list-style-type: none"> 1. Proof of Public Notice 2. Include a copy of the certified letter receipts (Field office & Federal Land Managers) (20.2.72.206.A.7, 302.A & 302.12) 3. A copy of the letters sent to the appropriate federal land manager if the source will locate within 50 km of a boundary of a Class I area (302.A.2) 4. A statement stating a complete copy of the application and public notice has been provided to the Department's field or district office nearest the source (302.A.1) 5. The location where the public notice has been posted on the site (303.B.2) 6. A copy of the classified or legal ad and its affidavit of publication (303.B.1)

Section 19

Requirements for Title V Program

Do not print this section unless this is a Title V application.

Who Must Use this Attachment:

- * Any major source as defined in 20.2.70 NMAC.
 - * Any source, including an area source, subject to a standard or other requirement promulgated under Section 111 - Standards of Performance for New Stationary Sources, or Section 112 Hazardous Air Pollutants, of the 1990 federal Clean Air Act ("federal Act"). Non-major sources subject to Sections 111 or 112 of the federal Act are exempt from the obligation to obtain an 20.2.70 NMAC operating permit until such time that the EPA Administrator completes rulemakings that require such sources to obtain operating permits. In addition, sources that would be required to obtain an operating permit solely because they are subject to regulations or requirements under Section 112(r) of the federal Act are exempt from the requirement to obtain an Operating Permit.
 - * Any Acid Rain source as defined under title IV of the federal Act. The Acid Rain program has additional forms. See <http://www.env.nm.gov/aqb/index.html>. Sources that are subject to both the Title V and Acid Rain regulations are encouraged to submit both applications simultaneously.
 - * Any source in a source category designated by the EPA Administrator ("Administrator"), in whole or in part, by regulation, after notice and comment.
-

19.1 - 40 CFR 64, Compliance Assurance Monitoring (CAM) (20.2.70.300.D.10.e NMAC)

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

WSMR is not subject to 40 CFR 64.

19.2 - Compliance Status (20.2.70.300.D.10.a & 10.b NMAC)

Describe the facility's compliance status with each applicable requirement at the time this permit application is submitted. This statement should include descriptions of or references to all methods used for determining compliance. This statement should include descriptions of monitoring, recordkeeping and reporting requirements and test methods used to determine compliance with all applicable requirements. Refer to Section 2, Tables 2-N and 2-O of the Application Form as necessary. (20.2.70.300.D.11 NMAC) For facilities with existing Title V permits, refer to most recent Compliance Certification for existing requirements. Address new requirements such as CAM, here, including steps being taken to achieve compliance.

WSMR is currently in compliance with all requirements, except as indicated in its semiannual and annual reports on file with NMED.

19.3 - Continued Compliance (20.2.70.300.D.10.c NMAC)

Provide a statement that your facility will continue to be in compliance with requirements for which it is in compliance at the time of permit application. This statement must also include a commitment to comply with other applicable requirements as they come into effect during the permit term. This compliance must occur in a timely manner or be consistent with such schedule expressly required by the applicable requirement.

WSMR complies with applicable requirements except as noted in its semiannual and annual reports and commits to comply with other applicable requirements as they come into effect during the term of this permit.

19.4 - Schedule for Submission of Compliance (20.2.70.300.D.10.d NMAC)

You must provide a proposed schedule for submission to the department of compliance certifications during the permit term. This certification must be submitted annually unless the applicable requirement or the department specifies a more frequent period. A sample form for these certifications will be attached to the permit.

Compliance certifications will continue to be submitted semiannually and annually.

19.5 - Stratospheric Ozone and Climate Protection

In addition to completing the four (4) questions below, you must submit a statement indicating your source's compliance status with requirements of Title VI, Section 608 (National Recycling and Emissions Reduction Program) and Section 609 (Servicing of Motor Vehicle Air Conditioners).

1. Does your facility have any air conditioners or refrigeration equipment that uses CFCs, HCFCs or other ozone-depleting substances? ☒ Yes ☐ No
2. Does any air conditioner(s) or any piece(s) of refrigeration equipment contain a refrigeration charge greater than 50 lbs? ☒ Yes ☐ No
Air conditioners (5) and Chillers (9)
3. Do your facility personnel maintain, service, repair, or dispose of any motor vehicle air conditioners (MVACs) or appliances ("appliance" and "MVAC" as defined at 82. 152)? ☒ Yes ☐ No
4. Cite and describe which Title VI requirements are applicable to your facility: 40 CFR Part 82, Subpart A through G

WSMR is subject to 40 CFR Part 82; see the table below for specific applicability.

Regulation Citation	Brief Description	Comments on Applicability
40 CFR 82 Subpart A	Production and Consumption Controls	This subpart does not apply to WSMR operations except as referred to by other applicable subparts.
40 CFR 82 Subpart B	Servicing of Motor Vehicle Air Conditioners (MVAC)	This subpart applies to some operations at WSMR servicing MVAC
40 CFR 82 Subpart C	Ban on Nonessential Products Containing Class I Substances and Ban on Non-essential Products Containing or Manufactured with Class II Substances	This subpart does not apply to WSMR operations.
40 CFR 82 Subpart D	Federal Procurement	The US Army complies with this subpart.
40 CFR 82 Subpart E	The Labeling of Products Using Ozone-Depleting Substances	This subpart does not apply to WSMR operations.

40 CFR 82 Subpart F	Recycling and Emission Reduction	This subpart applies to some operations at WSMR servicing refrigeration equipment and disposing of refrigeration equipment.
40 CFR 82 Subpart G	Significant New Alternatives Policy Program (SNAP)	WSMR uses approved substitutes for Class I and II ODS when possible; this is an Army ODS Policy.

19.6 - Compliance Plan and Schedule

Applications for sources, which are not in compliance with all applicable requirements at the time the permit application is submitted to the department, must include a proposed compliance plan as part of the permit application package. This plan shall include the information requested below:

- A. **Description of Compliance Status:** (20.2.70.300.D.11.a NMAC)
WSMR is in compliance with all applicable requirements, except as noted in its semiannual and annual reports.
- B. **Compliance plan:** (20.2.70.300.D.11.B NMAC)
WSMR will submit a compliance plan for any non-compliance items as part of this permit renewal via its semiannual and annual reports.
- C. **Compliance schedule:** (20.2.70.300D.11.c NMAC)
WSMR will submit a compliance plan for any non-compliance items as part of this permit renewal via its semiannual and annual reports.
- D. **Schedule of Certified Progress Reports:** (20.2.70.300.D.11.d NMAC)
WSMR will submit a compliance plan for any non-compliance items as part of this permit renewal via its semiannual and annual reports.
- E. **Acid Rain Sources:** (20.2.70.300.D.11.e NMAC)
If your source is an acid rain source as defined by EPA, the following applies to you. For the portion of your acid rain source subject to the acid rain provisions of title IV of the federal Act, the compliance plan must also include any additional requirements under the acid rain provisions of title IV of the federal Act. Some requirements of title IV regarding the schedule and methods the source will use to achieve compliance with the acid rain emissions limitations may supersede the requirements of title V and 20.2.70 NMAC. You will need to consult with the Air Quality Bureau permitting staff concerning how to properly meet this requirement.

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

WSMR is not subject to the acid rain program.

19.7 - 112(r) Risk Management Plan (RMP)

Any major sources subject to section 112(r) of the Clean Air Act must list all substances that cause the source to be subject to section 112(r) in the application. The permittee must state when the RMP was submitted to and approved by EPA.

WSMR chemicals are currently under the RMP applicability thresholds.

19.8 - Distance to Other States, Bernalillo, Indian Tribes and Pueblos

Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B NMAC)?

(If the answer is yes, state which apply and provide the distances.)

Not applicable.

19.9 - Responsible Official

Brian D. Knight
Chief, Environmental Division

Section 20

Other Relevant Information

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

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

In this permit application, WSMR is proposing to increase the operating time and associated emission limits of portable process-unit generator placeholders PHA and PHB, while removing from the permit portable process-unit generators 506, 507, and 821. WSMR is also adding operating hours to PHC to take into account the actual power-rating of those generators, which is substantially lower than the power rating initially estimated. The emission limits for PHC will not change.

In addition, for the overall permit, WSMR is removing total suspended particulates (TSP, Total PM) as a regulated pollutant, as this TSP was previously repealed.

These changes that WSMR proposes to make are depicted in the applicable tables of Sections UA2.

Section 21

Addendum for Landfill Applications

Do not print this section unless this is a landfill application.

Landfill Applications are not required to complete Sections 1-C Input Capacity and Production Rate, 1-E Operating Schedule, 17 Compliance Test History, and 18 Streamline Applications. Section 12 – PSD Applicability is required only for Landfills with Gas Collection and Control Systems and/or landfills with other non-fugitive stationary sources of air emissions such as engines, turbines, boilers, heaters. All other Sections of the Universal Application Form are required.

EPA Background Information for MSW Landfill Air Quality Regulations:

<https://www3.epa.gov/airtoxics/landfill/landflpg.html>

NM Solid Waste Bureau Website: <https://www.env.nm.gov/swb/>

21-A: Municipal Solid Waste Landfill Information

1	How long will the landfill be operated?		
2	Maximum operational hours per year:		
3	Landfill Operating hours (open to the public) M-F:	Sat.	Sun.
4	To determine to what NSPS and emissions guidelines the landfill is subject, what is the date that the landfill was constructed, modified, or reconstructed as defined at 40 CFR 60, Subparts A, WWW, XXX, Cc, and Cf.		
5	Landfill Design Capacity. Enter all 3	Tons:	Megagrams (Mg): Cubic meters:
6	Landfill NMOC Emission Rate (NSPS XXX)	<input type="checkbox"/> Less than 34 Mg/year using Tiers 1 to 3	<input type="checkbox"/> Equal to or Greater than 34 Mg/year using Tiers 1 to 3
	Landfill NMOC Emission Rate (NSPS XXX)	<input type="checkbox"/> Less than 500 ppm using Tier 4	<input type="checkbox"/> Equal to or Greater than 500 ppm using Tier 4
	Landfill NMOC Emission Rate (NSPS WWW)	<input type="checkbox"/> Less than 50 Mg/yr	<input type="checkbox"/> Equal to or Greater than 50 Mg/yr
7	Annual Waste Acceptance Rate:		
8	Is Petroleum Contaminated Soil Accepted?	If so, what is the annual acceptance rate?	
9	NM Solid Waste Bureau (SWB) Permit No.:		SWB Permit Date:
10	Describe the NM Solid Waste Bureau Permit, Status, and Type of waste deposited at the landfill.		
11	Describe briefly any process(es) or any other operations conducted at the landfill.		

21-B: NMOC Emissions Determined Pursuant to 40 CFR 60, Subparts WWW or XXX

	Enter the regulatory citation of all Tier 1, 2, 3, and/or 4 procedures used to determine NMOC emission rates and the date(s) that each Tier procedure was conducted. In Section 7 of the application, include the input data and results.
1	Tier 1 equations (e.g. LandGEM):
2	Tier 2 Sampling:
3	Tier 3 Rate Constant:
4	Tier 4 Surface Emissions Monitoring:
5	Attach all Tier Procedure calculations, procedures, and results used to determine the Gas Collection and Control System (GCCS) requirements.

Facilities that have a landfill GCCS must complete Section 21-C.

21-C: Landfill Gas Collection and Control System (GCCS) Design Plan

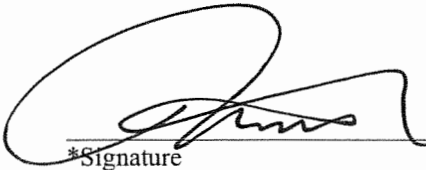
1	Was the GCCS design certified by a Professional Engineer?
2	Attach a copy of the GCCS Design Plan and enter the submittal date of the Plan pursuant to the deadlines in either NSPS WWW or NSPS XXX. The NMOC applicability threshold requiring a GCCS plan is 50Mg/yr for NSPS WWW and 34 Mg/yr or 500 ppm for NSPS XXX.
3	Is/Was the GCCS planned to be operational within 30 months of reporting NMOC emission rates equal to or greater than 50 Mg/yr, 34 Mg/yr, or 500 ppm pursuant to the deadlines specified in NSPS WWW or NSPS XXX?
4	Does the GCCS comply with the design and operational requirements found at 60.752, 60.753, and 69.759 (NSPS WWW) or at 60.762, 60.763, and 60.769 (NSPS XXX)?
5	Enter the control device(s) to which the landfill gas will be/is routed such as an open flare, enclosed combustion device, boiler, process heater, or other.
6	Do the control device(s) meet the operational requirements at 60.752 and 60.756 (NSPS WWW) or 60.762, 60.763, 60.766 (NSPS XXX)?

Section 22: Certification

Company Name: US Army – White Sands Missile Range (WSMR)

I, Brian D. Knight, 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 15 day of November 2021 upon my oath or affirmation, before a notary of the State of New Mexico.


*Signature

11/15/21
Date

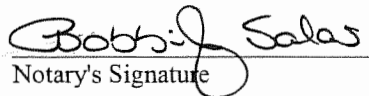
Brian D. Knight
Printed Name

Chief, Environmental Division
Title

Scribed and sworn before me on this 15th day of NOVEMBER, 2021.

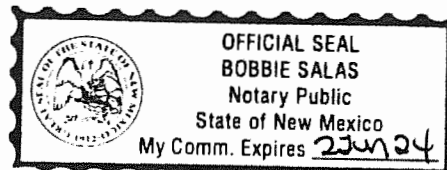
My authorization as a notary of the State of New Mexico expires on the

2nd day of JUNE, 2024.


Notary's Signature

15 NOV 21
Date

BOBBIE J. SALAS
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.