



BLUE SKY ENVIRONMENTAL LLC

August 31, 2020

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

RE: Application for NSR Minor Source Construction Permit as per 20.2.72.200.A.2 NMAC
Stampede Meat Inc.

Dear Madam/Sir:

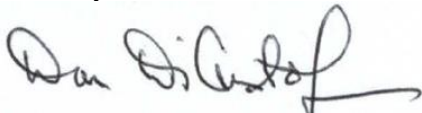
On behalf of Stampede Meat Inc., attached please find an Application for an NSR Minor Source Construction Permit as per 20.2.72.200.A.2 so that the two backup generator-engine sets located at the facility can participate in the El Paso Electric emergency demand response program. The facility is located at 5700 McNutt Road in Santa Teresa.

Attached please find:

- Two hard copies of the application
- Initial filing fee check of \$500
- Original signed and notarized certification
- Original signed posting certification
- Original signed submittal of public service announcement certification
- Original newspaper pages showing notice published in both the legal section and main section of the El Paso Times on August 4, 2020
- Original signed and notarized affidavits of publication for both notices (legal notice and ad)

It is understood that once this application has been assigned to a permit engineer, a link will be provided so that I can submit the electronic versions of the application. If you have any questions or require additional information, please do not hesitate to contact me at don@blueskyenviro.com or 617-834-8408.

Sincerely,
Blue Sky Environmental LLC



Don C. DiCristofaro, CCM
President
Attachments

<p>Mail Application To:</p> <p>New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505</p> <p>Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb</p>		<p>For Department use only:</p> <p>AIRS No.:</p>
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Universal Air Quality Permit Application

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

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well. [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.: 1387 in the amount of \$500.

I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.

This facility qualifies to receive assistance from the Small Business Environmental Assistance program (SBEAP) and qualifies for 50% of the normal application and permit fees. Enclosed is a check for 50% of the normal application fee which will be verified with the Small Business Certification Form for your company.

This facility qualifies to receive assistance from the Small Business Environmental Assistance Program (SBEAP) but does not qualify for 50% of the normal application and permit fees. To see if you qualify for SBEAP assistance and for the small business certification form go to https://www.env.nm.gov/aqb/sbap/small_business_criteria.html).

Citation: Please provide the **low level citation** under which this application is being submitted: **20.2.72.200.A.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.):	Updating Permit/NOI #:
1	Facility Name: Stampede Meat	Plant primary SIC Code (4 digits): 2013	Plant NAIC code (6 digits): 311612
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): 5700 McNutt Road; Santa Teresa, NM 88008		
2	Plant Operator Company Name: Stampede Meat Inc.	Phone/Fax: 575-332-9352	
a	Plant Operator Address: 5700 McNutt Road; Santa Teresa, NM 88008		

b	Plant Operator's New Mexico Corporate ID or Tax ID: 363984395	
3	Plant Owner(s) name(s): Stampede Meat Inc.	Phone/Fax: 575-332-9352
a	Plant Owner(s) Mailing Address(s): 7351 S 78 th Ave; Bridgeview, IL 60455	
4	Bill To (Company): Stampede Meat Inc.	Phone/Fax: 575-332-9352
a	Mailing Address: 5700 McNutt Road; Santa Teresa, NM 88008	E-mail: jesse.y@gostampede.com
5	<input checked="" type="checkbox"/> Preparer: Don DiCristofaro <input checked="" type="checkbox"/> Consultant: Don DiCristofaro	Phone/Fax: 617-834-8408
a	Mailing Address: P.O. Box 603; Hingham, MA 02043	E-mail: don@blueskyenviro.com
6	Plant Operator Contact: Jesse Youngblood	Phone/Fax: 575-332-9352
a	Address: 5700 McNutt Road; Santa Teresa, NM 88008	E-mail: jesse.y@gostampede.com
7	Air Permit Contact: Don DiCristofaro	Title: Air Quality Meteorologist
a	E-mail: don@blueskyenviro.com	Phone/Fax: 617-834-8408
b	Mailing Address: Blue Sky Environmental LLC; P.O. Box 603; Hingham, MA 02043	
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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the permit No. is: P-
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the register No. is:

Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 7,568 lbs meat	Daily: 140,000 lbs meat	Annually: 36,400,000 lbs meat
b	Proposed	Hourly: 7,568 lbs meat	Daily: 140,000 lbs meat	Annually: 36,400,000 lbs meat
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: 8,649 lbs meat	Daily: 160,000 lbs meat	Annually: 41,600,000 lbs meat

b	Proposed	Hourly: 8,649 lbs meat	Daily: 160,000 lbs meat	Annually: 41,600,000 lbs meat
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Section 1-D: Facility Location Information

1	Section: N/A	Range: N/A	Township: N/A	County: Dona Ana	Elevation (ft): 3,800
2	UTM Zone: <input type="checkbox"/> 12 or <input checked="" type="checkbox"/> 13			Datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83 <input type="checkbox"/> WGS 84	
a	UTM E (in meters, to nearest 10 meters): 344,595 E			UTM N (in meters, to nearest 10 meters): 3,526,398 N	
b	AND Latitude (deg., min., sec.): 31°51' 45.89" N			Longitude (deg., min., sec.): 106°38'33.82 W	
3	Name and zip code of nearest New Mexico town: Santa Teresa 88008				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Santa Teresa, take Route 273 to 5700 McNutt Road in Santa Teresa				
5	The facility is 0.4 (distance) miles NW (direction) of Santa Teresa (nearest town).				
6	Status of land at facility (check one): <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian/Pueblo <input type="checkbox"/> Federal BLM <input type="checkbox"/> Federal Forest Service <input type="checkbox"/> Other (specify)				
7	List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: Sunland Park and Dona Ana County				
8	20.2.72 NMAC applications only: Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.env.nm.gov/aqb/modeling/classIareas.html)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: 1 km to Texas border				
9	Name nearest Class I area: Gila Wilderness				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 133.75 km				
11	Distance (meters) from the perimeter of the Area of Operations (AO is defined as the plant site inclusive of all disturbed lands, including mining overburden removal areas) to nearest residence, school or occupied structure: 265 m to eastern most portion of Santa Teresa High School				
12	Method(s) used to delineate the Restricted Area: Not used "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 <input checked="" type="checkbox"/> 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 checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, what is the name and permit number (if known) of the other facility?				

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

1	Facility maximum operating ($\frac{\text{hours}}{\text{day}}$): 18.5	($\frac{\text{days}}{\text{week}}$): 5	($\frac{\text{weeks}}{\text{year}}$): 52	($\frac{\text{hours}}{\text{year}}$): 4,810	
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$)? Start: 5:30		XAM <input type="checkbox"/> PM	End: 12:00	X AM <input type="checkbox"/> PM
3	Month and year of anticipated start of construction: Existing Facility; application is for a change of use				
4	Month and year of anticipated construction completion: Existing Facility				
5	Month and year of anticipated startup of new or modified facility: Existing Facility				
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 Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, specify:		
a	If yes, NOV date or description of issue:	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 being submitted with this application? <input checked="" type="checkbox"/> Yes <input 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 (<input type="checkbox"/> ≥10 tpy of any single HAP OR <input type="checkbox"/> ≥25 tpy of any combination of HAPS) OR <input checked="" type="checkbox"/> Minor (<input checked="" type="checkbox"/> <10 tpy of any single HAP AND <input checked="" type="checkbox"/> <25 tpy of any combination of HAPS)		
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
a	If yes, include the name of company providing commercial electric power to the facility: _____ Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

Section 1-G: Streamline Application

(This section applies to 20.2.72.300 NMAC Streamline applications only)

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

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

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC):	Phone:
a	R.O. Title:	R.O. e-mail:
b	R. O. Address:	
2	Alternate Responsible Official (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):	
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.):	
a	Address of Parent Company:	
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.):	
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations:	

7	<p>Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers:</p>
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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 Don DiCristofaro

Email don@blueskyenviro.com

Phone number 617-834-8408

a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**

- 4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.
- 5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling **summary report only** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.
- 6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
 - a. one additional CD copy for US EPA,
 - b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
 - c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

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

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

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible

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

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

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Table 2-A: Regulated Emission Sources

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

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufact-urer'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 #				
EG1	Backup Generator	Caterpillar	3516	6HN01208	2,876 hp	2,876 hp	2005 (est)	N/A	20200102	<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	
							10/25/2005	S-EG1				
EG2	Backup Generator	Caterpillar	3516	6HN01203	2,876 hp	2,876 hp	2005 (est)	N/A	20200102	<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	
							10/25/2005	S-EG2				
B1	Boiler	Cleaver Brooks	CB-700-250	L-89247	10.161 mmBtu/hr	10.161 mmBtu/hr		N/A	101000602	<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		
							12/15/1990	S-B1				
B2	Boiler	Sellers	150 HP	8450	6.278 mmBtu/hr	6.278 mmBtu/hr		N/A	10100602	<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		
							12/15/1990	S-B2				
										<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		
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										<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		
										<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 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/air-quality/air-quality-title-v-operating-permits-guidance-page/>. 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	
HWH	Hot Water Heater	Quick Water	QS0600RSRMX01	6	As per Rhonda Romero during reapplication call	1990 (est)	<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
			SO0501915	MMBtu/hr	Not sure of exemption reference	1990 (est)	
T-EG1	5,000 gals fuel tank for EG1	Caterpillar		5,000	20.2.72.202.B.5	2005	<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
				gals		10/25/2005	
T-EG2	5,000 gals fuel tank for EG2	Caterpillar		5,000	20.2.72.202.B.5	2005	<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
				gals		10/25/2005	
Road	PM Fugitive Emissions from Cars and Trucks	NA	NA	250	20.2.72.202.B.5	NA	<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
			NA	Vehicles Per Day			
							<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
							<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
							<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
							<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
							<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.

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s)¹	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
	None					

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

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s)¹	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
	None					

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

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

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

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

Unit No.	NOx		CO		VOC		SOx		PM ¹		PM10 ¹		PM2.5 ¹		H 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
EG1	38.83	170.08	6.94	30.40	0.86	3.77	0.03	0.15	1.10	4.82	1.10	4.82	1.10	4.82	-	-	-	-
EG2	38.83	170.08	6.94	30.40	0.86	3.77	0.03	0.15	1.10	4.82	1.10	4.82	1.10	4.82	-	-	-	-
B1	1.00	4.36	0.84	3.67	0.05	0.24	0.01	0.03	0.08	0.33	0.08	0.33	0.08	0.33	-	-	-	-
B2	0.62	2.70	0.52	2.26	0.03	0.15	0.004	0.02	0.05	0.20	0.05	0.20	0.05	0.20	-	-	-	-
Totals	79.27	347.21	15.23	66.72	1.81	7.92	0.08	0.35	2.32	10.17	2.32	10.17	2.32	10.17	-	-	-	-

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

Table 2-E: Requested Allowable Emissions

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

Unit No.	NOx		CO		VOC		SOx		PM ¹		PM10 ¹		PM2.5 ¹		H 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
EG1	38.83	9.71	6.94	1.74	0.86	0.22	0.03	0.00873	1.10	0.28	1.10	0.28	1.10	0.28	-	-	-	-
EG2	38.83	9.71	6.94	1.74	0.86	0.22	0.03	0.00873	1.10	0.28	1.10	0.28	1.10	0.28	-	-	-	-
B1	1.00	4.36	0.84	3.67	0.05	0.24	0.01	0.03	0.08	0.33	0.08	0.33	0.08	0.33	-	-	-	-
B2	0.62	2.70	0.52	2.26	0.03	0.15	0.004	0.02	0.05	0.20	0.05	0.20	0.05	0.20	-	-	-	-
Totals	79.27	26.47	15.23	9.40	1.81	0.82	0.08	0.06	2.32	1.09	2.32	1.09	2.32	1.09	-	-	-	-

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

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

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.

Stack No.	Serving Unit Number(s) from Table 2-A	NOx		CO		VOC		SOx		PM		PM10		PM2.5		<input type="checkbox"/> H ₂ S or <input type="checkbox"/> Lead	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Totals:																	

Table 2-H: Stack Exit Conditions

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

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H=Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
S-EG1	EG1	V	Yes	24.5	962.8	6173			203.6	1.33
S-EG2	EG2	V	Yes	24.5	962.8	6173			203.6	1.33
S-B1	B1	V	Yes	30.4	350	56.4			2	1.96
S-B2	B2	V	Yes	29.0	450	34.8			1.6	1.62

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H=Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			

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

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

Stack No.	Unit No.(s)	Total HAPs		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP			
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
		S-EG1	EG1	-	-																
S-EG2	EG2	-	-																		
S-B1	B1	-	-																		
S-B2	B2	-	-																		
Totals:		-	-																		

Table 2-J: Fuel

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

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, ...)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units				
			Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
EG1	ULSD	Purchased Commercial	129,488 Btu/gal	145.4 gph	72,700 gals	0.0015	
EG2	ULSD	Purchased Commercial	129,488 Btu/gal	145.4 gph	72,700 gals	0.0015	
B1	Natural Gas	Purchased Commercial	983 Btu/ft ³	9,961.8 scfh	87,265,368 scf		
B2	Natural Gas	Purchased Commercial	983 Btu/ft ³	6,154.9 scfh	53,916,924 scf		

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

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

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
T-EG1	1	ULSD	ULSD	7.1	130	60	0.0065		
T-EG2	1	ULSD	ULSD	7.1	130	60	0.0065		

Table 2-L: Tank Data

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

Tank No.	Date Installed	Materials Stored	Seal Type <small>(refer to Table 2-LR below)</small>	Roof Type <small>(refer to Table 2-LR below)</small>	Capacity		Diameter <small>(M)</small>	Vapor Space <small>(M)</small>	Color <small>(from Table VI-C)</small>		Paint Condition <small>(from Table VI-C)</small>	Annual Throughput <small>(gal/yr)</small>	Turn-overs <small>(per year)</small>
					<small>(bbl)</small>	<small>(M³)</small>			Roof	Shell			
T-EG1	10/25/2005	ULSD	Welded	FX (Belly Tank)	119	1,209	7.9		BL	Black	Good	<< 72,700	3 (approx)
T-EG2	10/25/2005	ULSD	Welded	FX (Belly Tank)	119	1,209	7.9		BL	Black	Good	<< 72,700	3 (approx)

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

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

Note: 1.00 bbl = 0.159 M³ = 42.0 gal

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

Material Processed				Material Produced			
Description	Chemical Composition	Phase (Gas, Liquid, or Solid)	Quantity (specify units)	Description	Chemical Composition	Phase	Quantity (specify units)
N/A							

Table 2-N: CEM Equipment

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

Stack No.	Pollutant(s)	Manufacturer	Model No.	Serial No.	Sample Frequency	Averaging Time	Range	Sensitivity	Accuracy
None									

Table 2-O: Parametric Emissions Measurement Equipment

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

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

Table 2-P: Greenhouse Gas Emissions

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

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr ²										Total GHG Mass Basis ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWPs ¹	1	298	25	22,800	footnote 3											
	mass GHG																
	CO ₂ e																
	mass GHG																
	CO ₂ e																
	mass GHG																
	CO ₂ e																
	mass GHG																
	CO ₂ e																
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	mass GHG																
	CO ₂ e																
	mass GHG																
	CO ₂ e																
Total	mass GHG																
	CO ₂ e																

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.

Company Name

Facility Name

Application Date:

Revision #

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

Emissions Analysis

Stampede Meat, Inc.
 5700 McNutt Road
 Santa Teresa, NM 88008

Source	Generator		Size (kW)	Installation	Engine				Size (hp)	Fuel	Max Fuel (gph)	Heat Input (mmBtu/hr)	Short Term					Permitted Hours	Long Term				
	Make	Model			Engine Ma	Engine Model	Serial	Mft Date					CO (lb/hr)	NOx	PM	SO2	VOC		CO (tpy)	NOx	PM	SO2	VOC
EG1	Caterpillar	SR4	2,000	10/25/2005	Caterpillar	3516	6HN01208	2005 (est)	2,876	Diesel	145.4	20.07	6.94	38.83	1.10	0.03	0.86	500	1.74	9.71	0.28	0.009	0.22
EG2	Caterpillar	SR4	2,000	10/25/2005	Caterpillar	3516	6HN01203	2005 (est)	2,876	Diesel	145.4	20.07	6.94	38.83	1.10	0.03	0.86	500	1.74	9.71	0.28	0.009	0.22

Source	Make	Model
B1	Cleaver Brooks	CB-700-250
B2	Sellers	150 HP
HWH: Hot Water Heater	Quick Water	QS0600RSRMX01

Fuel	(scfh)	(mmBtu/hr)	CO (lb/hr)	NOx	PM	SO2	VOC	Permitted Hours	CO (tpy)	NOx	PM	SO2	VOC
Natural Gas	9961.8	10,161	0.84	1.00	0.08	0.006	0.05	8,760	3.665	4.363	0.332	0.026	0.240
Natural Gas	6154.9	6,278	0.52	0.62	0.05	0.004	0.03	8,760	2.265	2.696	0.205	0.016	0.148
Natural Gas	5882.4	6,000	0.49	0.59	0.04	0.004	0.03	8,760	2.164	2.576	0.196	0.015	0.142
									15.73	79.86	2.37	0.08	1.84
									15.23	79.27	2.32	0.08	1.81
									11.56	29.05	1.28	0.08	0.96
									9.40	26.47	1.09	0.06	0.82

FACILITY TOTAL
 FACILITY TOTAL without exempt Water Heater
 Public Notice Value

PUBLIC NOTICE: 19 96 4 < 0.5 3 15.00 35.00 3.00 < 0.5 2.00

Emission Factors:

Source: EPA AP-42 > 600 hp	Mft NTE	Notes
Pollutant lb/hp-hr	lb/hr	
CO 5.5E-03	6.94	
NOx 0.024	38.83	
PM 0.0007	1.1	
SO2 1.21E-05		Assumes S=0.0015%
VOC 7.05E-04	0.86	

Boiler (Source: EPA AP-42, Table 1.4-1 and 1.4-2)

Pollutant	AP-42 lb/10 ⁶ scf
CO	84
NOx	100
PM	7.6
SO2	0.6
VOC	5.5

Notes:
 Denotes Emission Factor Used For Analysis

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.

Stampede Meat, Inc. operates a meat processing facility at 5700 McNutt Road in Santa Teresa (the Facility). The Facility currently operates two standby emergency generators (EG1 and EG2) as per 20.2.72.202(B)(3). The Facility would like to enroll the generators in the El Paso Electric emergency demand response program for up to 50 hours per year from June 1 through September 30 from 1 pm to 7 pm on non-weekend/holidays for up to 10 events per year. Although this is an allowed use for emergency engines in the EPA RICE NESHAP (40 CFR 60 Subpart ZZZZ), because 20.2.72.202(B)(3) does not include this allowance a permit is required.

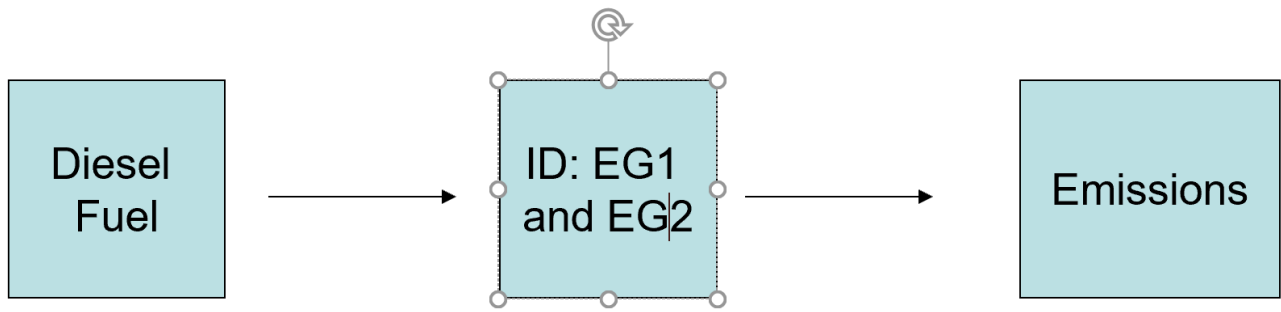
A pre-application meeting was conducted via phone with Rhonda Romero on October 19, 2020. Since the Facility is 0.62 km from Santa Teresa High School, the streamline permit process cannot be used. Thus, an application for construction (or in this case, change in operation) is being filed as per 20.2.72.200. A New Source Review (NSR) Minor Source Construction Permit is required. In addition to the backup generators, the Facility also operates two natural-gas fired boilers (B1 and B2) (where only one boiler operates at a time) and a hot water heater that is exempt, as per Rhonda Romero.

The Facility is not collocated with any other facilities. The Facility does not appear to be operating currently under any air permits.

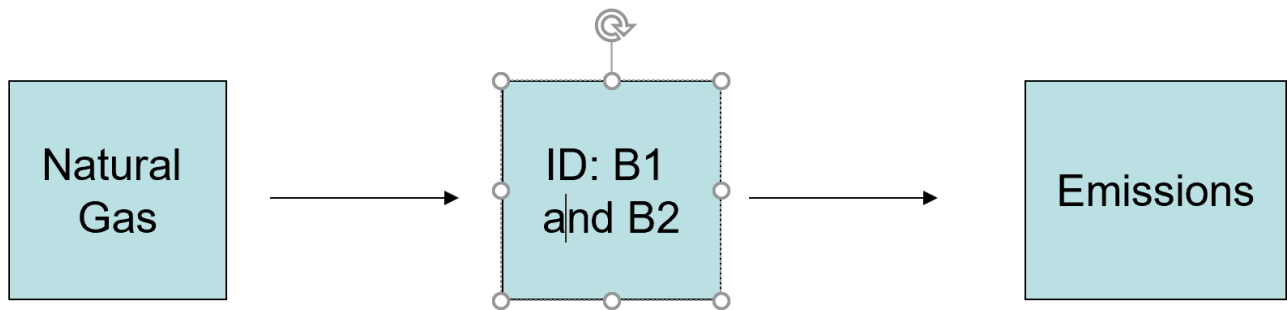
Section 4

Process Flow Sheet

A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.



Process Flow Diagram – EG Units Stampede Meat Inc.

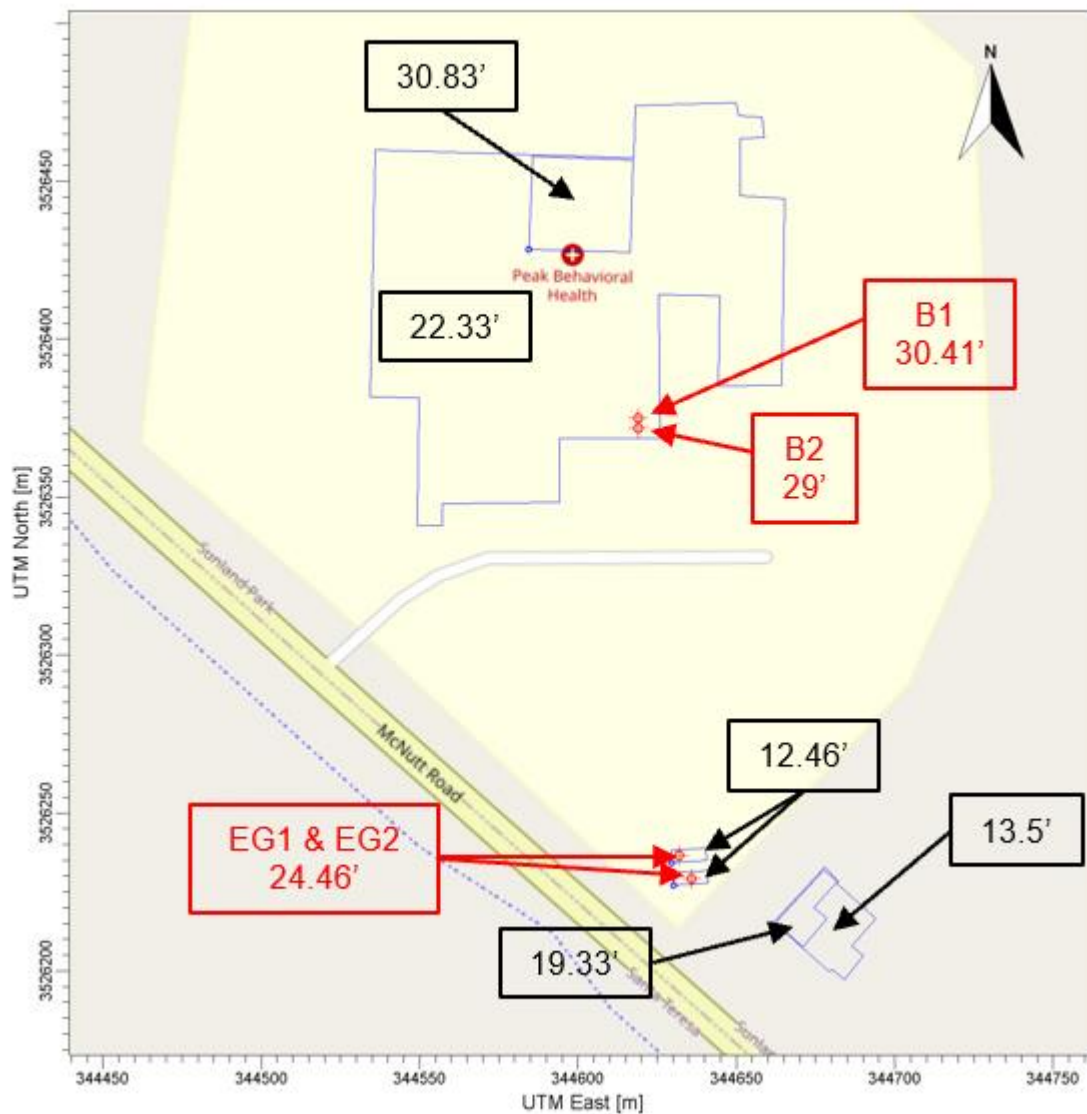


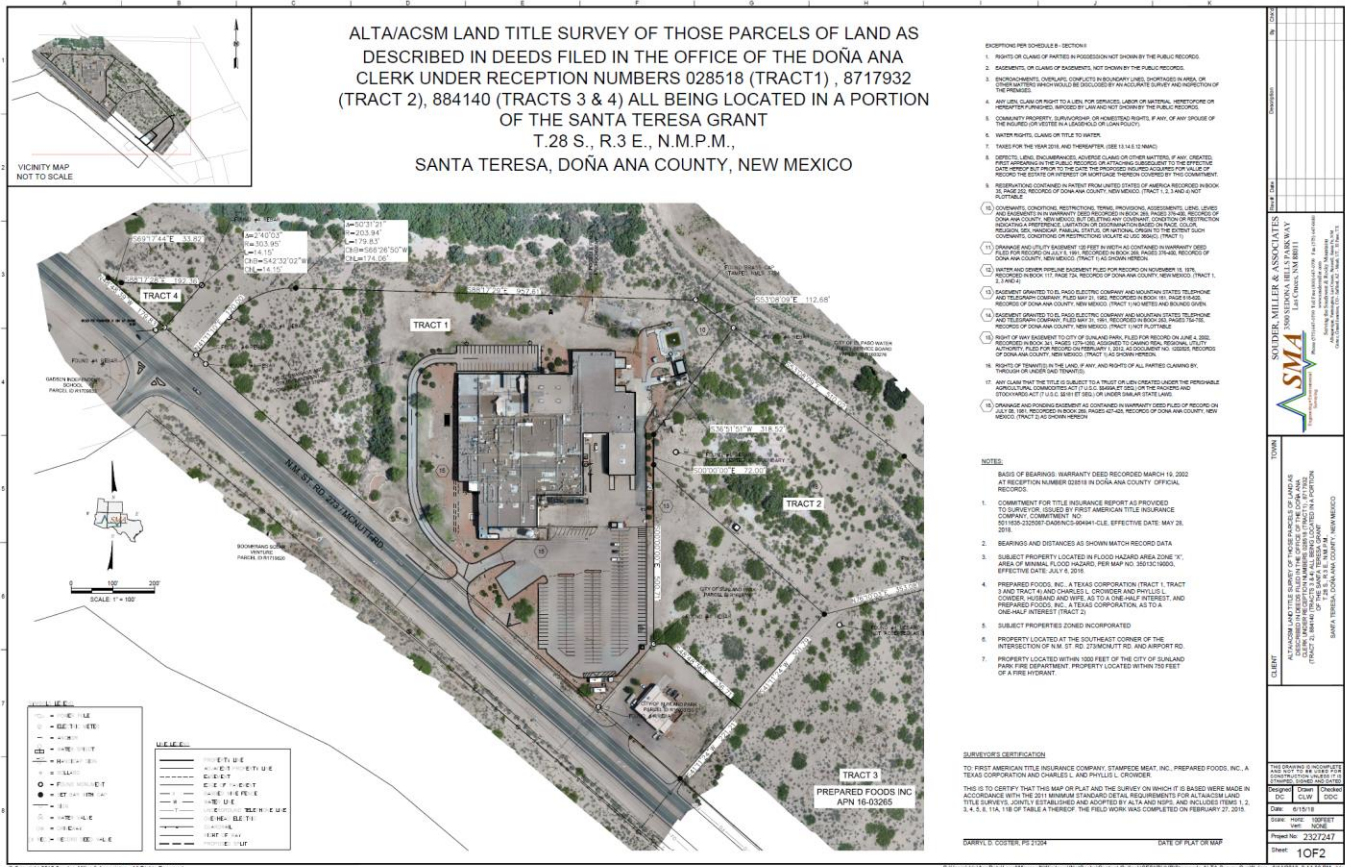
Process Flow Diagram – Boilers Stampede Meat Inc.

Section 5

Plot Plan Drawn To Scale

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





Section 6

All Calculations

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

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

SSM Calculations: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rationale for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

Glycol Dehydrator Calculations: The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

Road Calculations: Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

Significant Figures:

A. All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.

B. At least 5 significant figures shall be retained in all intermediate calculations.

C. In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

- (1) If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
- (2) If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; **and**
- (3) If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
- (4) The final result of the calculation shall be expressed in the units of the standard.

Control Devices: In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device

regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

Emissions (Criteria Pollutant, Hazardous Air Pollutants, and Greenhouse Gas Emissions) for EG1, EG2, B1, B2 and HWH are provided in the Calculations Tab of the UA2 excel spreadsheet. 100% load operations are assumed for startup, shutdown, and maintenance (SSM) so separate calculations are not provided.

Tank Loss Calculations Are Shown Below (I could not successfully import the spreadsheet into UA2)

Stampede Meat - Per Generator 5,000 gals Fuel Tank Calculations

AP 42, Fifth Edition, Volume I
Chapter 7: Liquid Storage Tanks

7.0 Introduction to Liquid Storage Tanks

7.1 Organic Liquid Storage Tanks

- Final Section – June 2020 Error Corrections – no content change from March 2020 (PDF 5.2M)
- Chapter 7 Updates – March 2020 (PDF 221K)
- Related Information – Documents

7.1.3.1 Routine Losses From Fixed Roof Tanks^{4,14,2}

The following equations, provided to estimate standing and working loss emissions, apply to tanks with vertical cylindrical shells and fixed roofs and to tanks with horizontal cylindrical shells. These tanks must be substantially liquid- and vapor-tight. The equations are not intended to be used in estimating losses from tanks which have air or other gases injected into the liquid, or which store unstable or boiling stocks or mixtures of hydrocarbons or petrochemicals for which the vapor pressure is not known or cannot be readily predicted. Tanks containing aqueous mixtures in which phase separation has occurred, resulting in a free layer of oil or other volatile materials floating on top of the water, should have emissions estimated on the basis of the properties of the free top layer.

Total routine losses from fixed roof tanks are equal to the sum of the standing loss and working loss:

$$L_T = L_S + L_W \quad (1-1)$$

where:

- L_T = total routine losses, lb/yr
- L_S = standing losses, lb/yr, see Equation 1-2
- L_W = working losses, lb/yr, see Equation 1-35

L_T (lb/yr) = 11.72139917 **Total Losses**

7.1.3.1.1 Standing Loss

The standing loss, L_S , for a fixed roof tank refers to the loss of stock vapors as a result of tank vapor space breathing. Fixed roof tank standing losses can be estimated from Equation 1-2.

$$L_S = 365 V_V W_V K_E K_S \quad (1-2)$$

where:

- L_S = standing loss, lb/yr
- V_V = vapor space volume, ft³, see Equation 1-3
- W_V = stock vapor density, lb/ft³
- K_E = vapor space expansion factor, per day
- K_S = vented vapor saturation factor, dimensionless
- 365 = constant, the number of daily events in a year, (days/year)

H_{VO} (ft) = 10.13163646 $H_G/2$ for horizontal tanks

L_S (lb/yr) = 11.67716512 **Standing Storage or Breathing Loss**

If the tank location is unknown, a value of K_E can be calculated using typical meteorological conditions for the lower 48 states. The typical value for daily insolation is 1,370 Btu/(ft² day), the average daily range of ambient temperature is 21°R, and the tank surface solar absorptance is 0.25 for white paint in average condition. Substituting these values into Equation 1-12 results in a value of 0.04, as shown in Equation 1-13.

Table 7.1-2 has No. 2 diesel with vapor pressure much less than 0.1 psia

K_E = 0.04

$$K_E = 0.04 \tag{1-13}$$

Diameter

For vertical tanks, the diameter is straightforward. If a user needs to estimate emissions from a horizontal fixed roof tank, some of the tank parameters can be modified before using the vertical tank emission estimating equations. First, by assuming that the tank is one-half filled, the surface area of the liquid in the tank is approximately equal to the length of the tank times the diameter of the tank. Next, assume that this area represents a circle, i.e., that the liquid is an upright cylinder. Therefore, the effective diameter, D_E , is then equal to:

06/2020 Liquid Storage Tanks 7.1-20

PI = 3.1415927
 L (ft) = 55.3 est
 D (ft) = 25.8 est
 D_E (ft) = 42.62137681

$$D_E = \sqrt{\frac{LD}{\pi}} \tag{1-14}$$

where:

- D_E = effective tank diameter, ft
- L = length of the horizontal tank, ft (for tanks with rounded ends, use the overall length)
- D = diameter of a vertical cross-section of the horizontal tank, ft

By assuming the volume of the horizontal tank to be approximately equal to the cross-sectional area of the tank times the length of the tank, an effective height, H_E , of an equivalent upright cylinder may be calculated as:

$$H_E = \frac{\pi}{4} D \tag{1-15}$$

H_E (ft) = 20.26327292

D_E should be used in place of D in Equation 1-4 for calculating the standing loss (or in Equation 1-3, if calculating the tank vapor space volume). One-half of the effective height, H_E , should be used as the vapor space outage, H_{VO} , in these equations. This method yields only a very approximate value for emissions from horizontal storage tanks. For underground horizontal tanks, assume that no breathing or standing losses occur ($L_S = 0$) because the insulating nature of the earth limits the diurnal temperature change. No modifications to the working loss equation are necessary for either aboveground or underground horizontal tanks. However, standing losses from underground gasoline tanks, which can experience relatively fast vapor growth after the ingestion of air and dilution of the headspace, are addressed in Section 5.2 of AP-42.

Vapor Space Outage

The vapor space outage, H_{VO} is the height of a cylinder of tank diameter, D, whose volume is equivalent to the vapor space volume of a fixed roof tank, including the volume under the cone or dome roof. The vapor space outage, H_{VO} , is estimated from:

$$H_{VO} = H_S - H_L + H_{RO} \tag{1-16}$$

H_{VO} (ft) = 10.13163646 Use $H_E/2$ for horiz tanks

where:

H_{VO} = vapor space outage, ft; use $H_E/2$ from Equation 1-15 for horizontal tanks

H_S = tank shell height, ft
 H_L = liquid height, ft; typically assumed to be at the half-full level, unless known to be maintained at some other level
 H_{RO} = roof outage, ft; see Note 1 for a cone roof or Note 2 for a dome roof

Vented Vapor Saturation Factor, K_S

The vented vapor saturation factor, K_S , is calculated using the following equation:

$$K_S = \frac{1}{1 + 0.053 P_{VA} H_{VO}} \quad (1-21)$$

$K_S = 0.996521791$

where:

K_S = vented vapor saturation factor, dimensionless
 P_{VA} = vapor pressure at average daily liquid surface temperature, psia; see Notes 1 and 2 to Equation 1-22
 H_{VO} = vapor space outage, ft, see Equation 1-16

06/2020 Liquid Storage Tanks 7.1-22

$0.053 = \text{constant, (psia-ft)}^{-1}$

Stock Vapor Density, W_V - The density of the vapor is calculated using the following equation:

$$W_V = \frac{M_V P_{VA}}{R T_V} \quad (1-22)$$

M_V (lb/lb-mole) = 130 From Table 7.1-2 for No. 2 Diesel
 R (psia ft³/lb-mole^oR) = 10.731
 P_{VA} (psia) = 0.0065 From Table 7.1-2 for No. 2 Diesel at T = 60F
 T_V (°R) = 519.67 Assume 60 F

where:

W_V = vapor density, lb/ft³
 M_V = vapor molecular weight, lb/lb-mole; see Note 1
 R = the ideal gas constant, 10.731 psia ft³/lb-mole °R
 P_{VA} = vapor pressure at average daily liquid surface temperature, psia; see Notes 1 and 2
 T_V = average vapor temperature, °R; see Note 6

W_V (lb/ft³) = 0.000151527

7.1.3.1.2 Working Loss

The fixed roof tank working loss, L_w , refers to the loss of stock vapors as a result of tank filling operations. Fixed roof tank working losses can be estimated from:

06/2020 Liquid Storage Tanks 7.1-27

$$L_W = V_Q K_N K_P W_V K_B \tag{1-35}$$

where:

- L_W = working loss, lb/yr
- V_Q = net working loss throughput, ft³/yr, see Note 1
- K_N = working loss turnover (saturation) factor, dimensionless
 - for turnovers > 36, $K_N = (180 + N)/6N$
 - for turnovers ≤ 36, $K_N = 1$
 - for tanks that are vapor balanced and tanks in which flashing occurs, $K_N = 1$ regardless of the number of turnovers; further adjustment of K_N may be appropriate in the case of splash loading into a tank.

N = number of turnovers per year, dimensionless:

$$N = \Sigma H_{Qi} / (H_{LX} - H_{LN}) \tag{1-36}$$

ΣH_{Qi} = the annual sum of the increases in liquid level, ft/yr
 If ΣH_{Qi} is unknown, it can be estimated from pump utilization records. Over the course of a year, the sum of increases in liquid level, ΣH_{Qi} , and the sum of decreases in liquid level, ΣH_{QD} , will be approximately the same. Alternatively, ΣH_{Qi} may be approximated as follows:

$$\Sigma H_{Qi} = (5.614 Q) / ((\pi/4) D^2) \tag{1-37}$$

- 5.614 = the conversion of barrels to cubic feet, ft³/bbl
- Q = annual net throughput, bbl/yr
- For horizontal tanks, use D_E (Equation 1-14) in place of D in Equation 1-37
- H_{LX} = maximum liquid height, ft
 - If the maximum liquid height is unknown, for vertical tanks use one foot less than the shell height and for horizontal tanks use $(\pi/4) D$ where D is the diameter of a vertical cross-section of the horizontal tank
- H_{LN} = minimum liquid height, ft
 - If the minimum liquid height is unknown, for vertical tanks use 1 and for horizontal tanks use 0
- K_P = working loss product factor, dimensionless
 - for crude oils, $K_P = 0.75$; adjustment of K_P may be appropriate in the case of splash loading into a tank
 - for all other organic liquids, $K_P = 1$
- W_V = vapor density, lb/ft³, see Equation 1-22
- K_B = vent setting correction factor, dimensionless, see Note 2 for open vents and for a vent setting range up to ± 0.03 psig, $K_B = 1$

If ΣH_{Qi} is unknown, ΣH_{Qi} can be estimated from pump utilization records. Over the course of a year, the sum of increases in liquid level, ΣH_{Qi} , and the sum of decreases in liquid level, ΣH_{QD} , will be approximately the same. Alternatively, V_Q may be approximated as follows:

$$V_Q = 5.614 Q \tag{1-39}$$

where:

- 5.614 = the conversion of barrels to cubic feet, ft³/bbl
- Q = annual net throughput, bbl/yr
- Use of gross throughput to approximate the sum of increases in liquid level will significantly overstate emissions if pumping in and pumping out take place at the same time. However, use of gross throughput is still allowed, since it is clearly a conservative estimate of emissions.

Max Annual (Hrs)=	500
Max Hourly	
Fuel Use (gph) =	145.4
Max Annual (gals) =	72,700.0
Max Annual (bbl)=	1,731.0
Q (bbl/yr) =	1,731.0
VQ =	9,717.56

Use Eq. 1-35 to Calculate L_W

K_N =	1	
K_P =	0.75	
W_V (lb/ft ³) =	0.000151527	
K_B =	1	
L_W (lb/yr) =	0.04417405	Working Loss

Road Calculations (Fugitive PM 2.5 and 10 Emissions):

Road Calculations for Fugitive Emissions

Source: AP-42, Section 13.2.1 Paved Roads

Facility: Stampede Meat
 Location: Santa Teresa, NM

Operations: M-F

Maximum Daily Vehicles:

Cars 244
 Trucks 6
 Total Vehicles 250
 Miles Traveled 0.17

Majority of vehicles travel to parking lot which is 0.07 mi; worst case back lot is 0.17 mi which is used for this analysis to be conservative

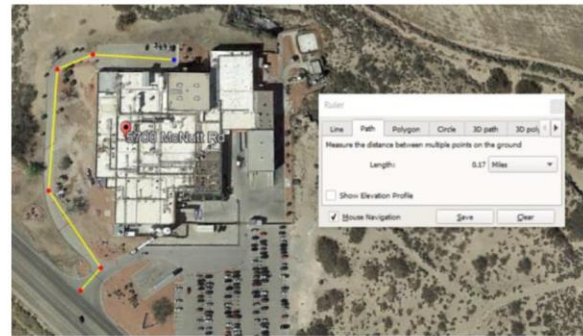
13.2.1.3 Predictive Emission Factor Equations^{10,29}

The quantity of particulate emissions from resuspension of loose material on the road surface due to vehicle travel on a dry paved road may be estimated using the following empirical expression:

$$E = k (sL)^{0.91} \times (W)^{1.02} \tag{1}$$

where: E = particulate emission factor (having units matching the units of k),
 k = particle size multiplier for particle size range and units of interest (see below),
 sL = road surface silt loading (grams per square meter) (g/m²), and
 W = average weight (tons) of the vehicles traveling the road.

It is important to note that Equation 1 calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, Equation 1 is *not* intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.



k:
 PM-2.5 0.00054 lb/VMT
 PM-10 0.0022 lb/VMT
 sL 0.6 g/m² From Table 13.2.1-2 for ADT < 500
 W 2.432 tons (Avg based on 2 ton cars and 20 ton trucks)

PM 2.5: E= 0.00084 lb/VMT
 0.035693 lbs/day
 0.00464 tpy

PM 10: E= 0.003422 lb/VMT
 0.145416 lbs/day
 0.018904 tpy

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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

Calculating GHG Emissions:

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

Sources for Calculating GHG Emissions:

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

Global Warming Potentials (GWP):

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

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

Metric to Short Ton Conversion:

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

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

Section 7

Information Used To Determine Emissions

Information Used to Determine Emissions shall include the following:

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

Emissions (Criteria Pollutant, Hazardous Air Pollutants, and Greenhouse Gas Emissions) for EG1, EG2, B1, B2 and HWH are provided in the Calculations Tab of the UA2 excel spreadsheet which also shows which of the emission factors below (either manufacturer supplied for criteria pollutants (except SO2) for EG1 and EG2 and AP-42 for all HAPs and SO2 along with AP-42 for all B1 and B2 emission factors.

The following manufacturer supplied emission factors were used for EG-1 and EG-2 for NOx, CO, HC, and PM. The conservative “potential site variation” (e.g., not to exceed) emissions were used rather than the “nominal data.”



GEN SET PACKAGE PERFORMANCE DATA
[6HN01208]

MARCH 27, 2020

For Help Desk Phone Numbers [Click here](#)

Performance Number: DMI394

Change Level: 11

Sales Model: 3516BDITA Combustion: DI Aspr: TA
 Engine Power: 2000 W/F 2060 W/O F Speed: 1,800 RPM After Cooler: SCAC
 EKW EKW
 2,876 HP
 Manifold Type: DRY Governor Type: ADEM After Cooler Temp(F): 140
 Turbo Quantity: 4 Engine App: GP Turbo Arrangement: Parallel
 Hertz: 60 Application Type: PACKAGE-DIE Engine Rating: PGS Strategy: Emissions Strategy
 Rating Type: STANDBY Certification: N-C 1970 - 2100

General Performance Data

GEN W/F EKW	PERCENT LOAD	ENGINE POWER BHP	ENGINE BMEP PSI	FUEL BSFC LB/BHP-HR	FUEL RATE GPH	INTAKE MFLD TEMP DEG F	INTAKE MFLD P IN-HG	INTAKE AIR FLOW CFM	EXH MFLD TEMP DEG F	EXH STACK TEMP DEG F	EXH GAS FLOW CFM
2,000	100	2848	297.62	0.36	145.4	186.44	81.61	6,173.01	1,245.38	962.78	17,053.47

RATED SPEED "Potential site variation"										
GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER	
2,000	100	2848	38.8300	6.9400	.8600	1.1000	9.9000	2.6000	1.2800	
1,500	75	2146	31.2600	3.0700	1.6900	.7100	11.7000	1.9000	1.2800	
1,000	50	1454	20.3600	2.6400	1.2000	.7700	12.7000	2.7000	1.2800	
500	25	769	12.4100	2.5300	.8500	.6600	14.1000	4.0000	1.2900	
200	10	346	8.8600	2.8600	.7600	.5900	16.1000	4.9000	1.3400	

RATED SPEED "Nominal Data"										
GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	TOTAL CO2 LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,000	100	2848	32.3600	3.8600	.6400	3,233.5	.7900	9.9000	2.6000	1.2800
1,500	75	2146	26.0500	1.7100	1.2700	2,374.5	.5100	11.7000	1.9000	1.2800
1,000	50	1454	16.9600	1.4600	.9000	1,626.5	.5500	12.7000	2.7000	1.2800
500	25	769	10.3400	1.4100	.6400	934.6	.4700	14.1000	4.0000	1.2900
200	10	346	7.3800	1.5900	.5700	531.4	.4200	16.1000	4.9000	1.3400

AP-42, Fifth Edition, Volume 1, Chapter 3: Stationary Internal Combustion Sources, 3.4 Large Stationary Diesel and All Stationary Dual-Fuel Engines was used for SO₂ using an ultra low sulfur diesel content of 0.0015% for Sulfur and for HAP emissions:

10/96

Table 3.4-1. GASEOUS EMISSION FACTORS FOR LARGE STATIONARY DIESEL AND ALL STATIONARY DUAL-FUEL ENGINES^a

Stationary Internal Combustion Sources

Pollutant	Diesel Fuel (SCC 2-02-004-01)			Dual Fuel ^b (SCC 2-02-004-02)		
	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	EMISSION FACTOR RATING	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	EMISSION FACTOR RATING
NO _x						
Uncontrolled	0.024	3.2	B	0.018	2.7	D
Controlled	0.013 ^c	1.9 ^c	B	ND	ND	NA
CO	5.5 E-03	0.85	C	7.5 E-03	1.16	D
SO _x ^d	8.09 E-03S ₁	1.01S ₁	B	4.06 E-04S ₁ + 9.57 E-03S ₂	0.05S ₁ + 0.895S ₂	B
CO ₂ ^e	1.16	165	B	0.772	110	B
PM	0.0007 ^c	0.1 ^c	B	ND	ND	NA
TOC (as CH ₄)	7.05 E-04	0.09	C	5.29 E-03	0.8	D
Methane	f	f	E	3.97 E-03	0.6	E
Nonmethane	f	f	E	1.32 E-03	0.2 ^g	E

^a Based on uncontrolled levels for each fuel, from References 2,6-7. When necessary, the average heating value of diesel was assumed to be 19,300 Btu/lb with a density of 7.1 lb/gallon. The power output and fuel input values were averaged independently from each other, because of the use of actual brake-specific fuel consumption (BSFC) values for each data point and of the use of data possibly sufficient to calculate only 1 of the 2 emission factors (e. g., enough information to calculate lb/MMBtu, but not lb/hp-hr). Factors are based on averages across all manufacturers and duty cycles. The actual emissions from a particular engine or manufacturer could vary considerably from these levels. To convert from lb/hp-hr to kg/kw-hr, multiply by 0.608. To convert from lb/MMBtu to ng/J, multiply by 430. SCC = Source Classification Code.

^b Dual fuel assumes 95% natural gas and 5% diesel fuel.

^c References 8-26. Controlled NO_x is by ignition timing retard.

^d Assumes that all sulfur in the fuel is converted to SO₂. S₁ = % sulfur in fuel oil; S₂ = % sulfur in natural gas. For example, if sulfur content is 1.5%, then S = 1.5.

^e Assumes 100% conversion of carbon in fuel to CO₂ with 87 weight % carbon in diesel, 70 weight % carbon in natural gas, dual-fuel mixture of 5% diesel with 95% natural gas, average BSFC of 7,000 Btu/hp-hr, diesel heating value of 19,300 Btu/lb, and natural gas heating value of 1050 Btu/scf.

^f Based on data from 1 engine, TOC is by weight 9% methane and 91% nonmethane.

^g Assumes that nonmethane organic compounds are 25% of TOC emissions from dual-fuel engines. Molecular weight of nonmethane gas stream is assumed to be that of methane.

3.4-5

Table 3.4-3. SPECIATED ORGANIC COMPOUND EMISSION FACTORS FOR LARGE UNCONTROLLED STATIONARY DIESEL ENGINES^a

EMISSION FACTOR RATING: E

Pollutant	Emission Factor (lb/MMBtu) (fuel input)
Benzene ^b	7.76 E-04
Toluene ^b	2.81 E-04
Xylenes ^b	1.93 E-04
Propylene	2.79 E-03
Formaldehyde ^b	7.89 E-05
Acetaldehyde ^b	2.52 E-05
Acrolein ^b	7.88 E-06

^aBased on 1 uncontrolled diesel engine from Reference 7. Source Classification Code 2-02-004-01. Not enough information to calculate the output-specific emission factors of lb/hp-hr. To convert from lb/MMBtu to ng/J, multiply by 430.

^bHazardous air pollutant listed in the *Clean Air Act*.

Table 3.4-4. PAH EMISSION FACTORS FOR LARGE UNCONTROLLED STATIONARY DIESEL ENGINES^a

EMISSION FACTOR RATING: E

PAH	Emission Factor (lb/MMBtu) (fuel input)
Naphthalene ^b	1.30 E-04
Acenaphthylene	9.23 E-06
Acenaphthene	4.68 E-06
Fluorene	1.28 E-05
Phenanthrene	4.08 E-05
Anthracene	1.23 E-06
Fluoranthene	4.03 E-06
Pyrene	3.71 E-06
Benz(a)anthracene	6.22 E-07
Chrysene	1.53 E-06
Benzo(b)fluoranthene	1.11 E-06
Benzo(k)fluoranthene	<2.18 E-07
Benzo(a)pyrene	<2.57 E-07
Indeno(1,2,3-cd)pyrene	<4.14 E-07
Dibenz(a,h)anthracene	<3.46 E-07
Benzo(g,h,i)perylene	<5.56 E-07
TOTAL PAH	<2.12 E-04

^a Based on 1 uncontrolled diesel engine from Reference 7. Source Classification Code 2-02-004-01. Not enough information to calculate the output-specific emission factors of lb/hp-hr. To convert from lb/MMBtu to ng/J, multiply by 430.

^b Hazardous air pollutant listed in the *Clean Air Act*.

AP-42, Fifth Edition, Volume 1, Chapter 1: External Combustion Sources, 1.4 Natural Gas Combustion, Tables 1.4-1 and 1.4-2 were used for the B1 and B2 emission factors:

Table 1.4-1. EMISSION FACTORS FOR NITROGEN OXIDES (NO_x) AND CARBON MONOXIDE (CO) FROM NATURAL GAS COMBUSTION^a

Combustor Type (MMBtu/hr Heat Input) [SCC]	NO _x ^b		CO	
	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
Large Wall-Fired Boilers (>100) [1-01-006-01, 1-02-006-01, 1-03-006-01]				
Uncontrolled (Pre-NSPS) ^c	280	A	84	B
Uncontrolled (Post-NSPS) ^c	190	A	84	B
Controlled - Low NO _x burners	140	A	84	B
Controlled - Flue gas recirculation	100	D	84	B
Small Boilers (<100) [1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03]				
Uncontrolled	100	B	84	B
Controlled - Low NO _x burners	50	D	84	B
Controlled - Low NO _x burners/Flue gas recirculation	32	C	84	B
Tangential-Fired Boilers (All Sizes) [1-01-006-04]				
Uncontrolled	170	A	24	C
Controlled - Flue gas recirculation	76	D	98	D
Residential Furnaces (<0.3) [No SCC]				
Uncontrolled	94	B	40	B

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. Emission factors are based on an average natural gas higher heating value of 1,020 Btu/scf. To convert from lb/10⁶ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. SCC = Source Classification Code. ND = no data. NA = not applicable.

^b Expressed as NO₂. For large and small wall fired boilers with SNCR control, apply a 24 percent reduction to the appropriate NO_x emission factor. For tangential-fired boilers with SNCR control, apply a 13 percent reduction to the appropriate NO_x emission factor.

^c NSPS=New Source Performance Standard as defined in 40 CFR 60 Subparts D and Db. Post-NSPS units are boilers with greater than 250 MMBtu/hr of heat input that commenced construction modification, or reconstruction after August 17, 1971, and units with heat input capacities between 100 and 250 MMBtu/hr that commenced construction modification, or reconstruction after June 19, 1984.

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

Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
CO ₂ ^b	120,000	A
Lead	0.0005	D
N ₂ O (Uncontrolled)	2.2	E
N ₂ O (Controlled-low-NO _x burner)	0.64	E
PM (Total) ^c	7.6	D
PM (Condensable) ^c	5.7	D
PM (Filterable) ^c	1.9	B
SO ₂ ^d	0.6	A
TOC	11	B
Methane	2.3	B
VOC	5.5	C

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. To convert from lb/10⁶ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.

^b Based on approximately 100% conversion of fuel carbon to CO₂. CO₂[lb/10⁶ scf] = (3.67) (CON) (C)(D), where CON = fractional conversion of fuel carbon to CO₂, C = carbon content of fuel by weight (0.76), and D = density of fuel, 4.2x10⁴ lb/10⁶ scf.

^c All PM (total, condensable, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM₁₀, PM_{2.5} or PM₁ emissions. Total PM is the sum of the filterable PM and condensable PM. Condensable PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.

^d Based on 100% conversion of fuel sulfur to SO₂. Assumes sulfur content is natural gas of 2,000 grains/10⁶ scf. The SO₂ emission factor in this table can be converted to other natural gas sulfur contents by multiplying the SO₂ emission factor by the ratio of the site-specific sulfur content (grains/10⁶ scf) to 2,000 grains/10⁶ scf.

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

CAS No.	Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
91-57-6	2-Methylnaphthalene ^{b,c}	2.4E-05	D
56-49-5	3-Methylcholanthrene ^{b,c}	<1.8E-06	E
	7,12-Dimethylbenz(a)anthracene ^{b,c}	<1.6E-05	E
83-32-9	Acenaphthene ^{b,c}	<1.8E-06	E
203-96-8	Acenaphthylene ^{b,c}	<1.8E-06	E
120-12-7	Anthracene ^{b,c}	<2.4E-06	E
56-55-3	Benz(a)anthracene ^{b,c}	<1.8E-06	E
71-43-2	Benzene ^b	2.1E-03	B
50-32-8	Benzo(a)pyrene ^{b,c}	<1.2E-06	E
205-99-2	Benzo(b)fluoranthene ^{b,c}	<1.8E-06	E
191-24-2	Benzo(g,h,i)perylene ^{b,c}	<1.2E-06	E
207-08-9	Benzo(k)fluoranthene ^{b,c}	<1.8E-06	E
106-97-8	Butane	2.1E+00	E
218-01-9	Chrysene ^{b,c}	<1.8E-06	E
53-70-3	Dibenzo(a,h)anthracene ^{b,c}	<1.2E-06	E
25321-22-6	Dichlorobenzene ^b	1.2E-03	E
74-84-0	Ethane	3.1E+00	E
206-44-0	Fluoranthene ^{b,c}	3.0E-06	E
86-73-7	Fluorene ^{b,c}	2.8E-06	E
50-00-0	Formaldehyde ^b	7.5E-02	B
110-54-3	Hexane ^b	1.8E+00	E
193-39-5	Indeno(1,2,3-cd)pyrene ^{b,c}	<1.8E-06	E
91-20-3	Naphthalene ^b	6.1E-04	E
109-66-0	Pentane	2.6E+00	E
85-01-8	Phenanthrene ^{b,c}	1.7E-05	D
74-98-6	Propane	1.6E+00	E

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

CAS No.	Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
129-00-0	Pyrene ^{b,c}	5.0E-06	E
108-88-3	Toluene ^b	3.4E-03	C

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. To convert from lb/10⁶ scf to lb/MMBtu, divide by 1,020. Emission Factors preceded with a less-than symbol are based on method detection limits.

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

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

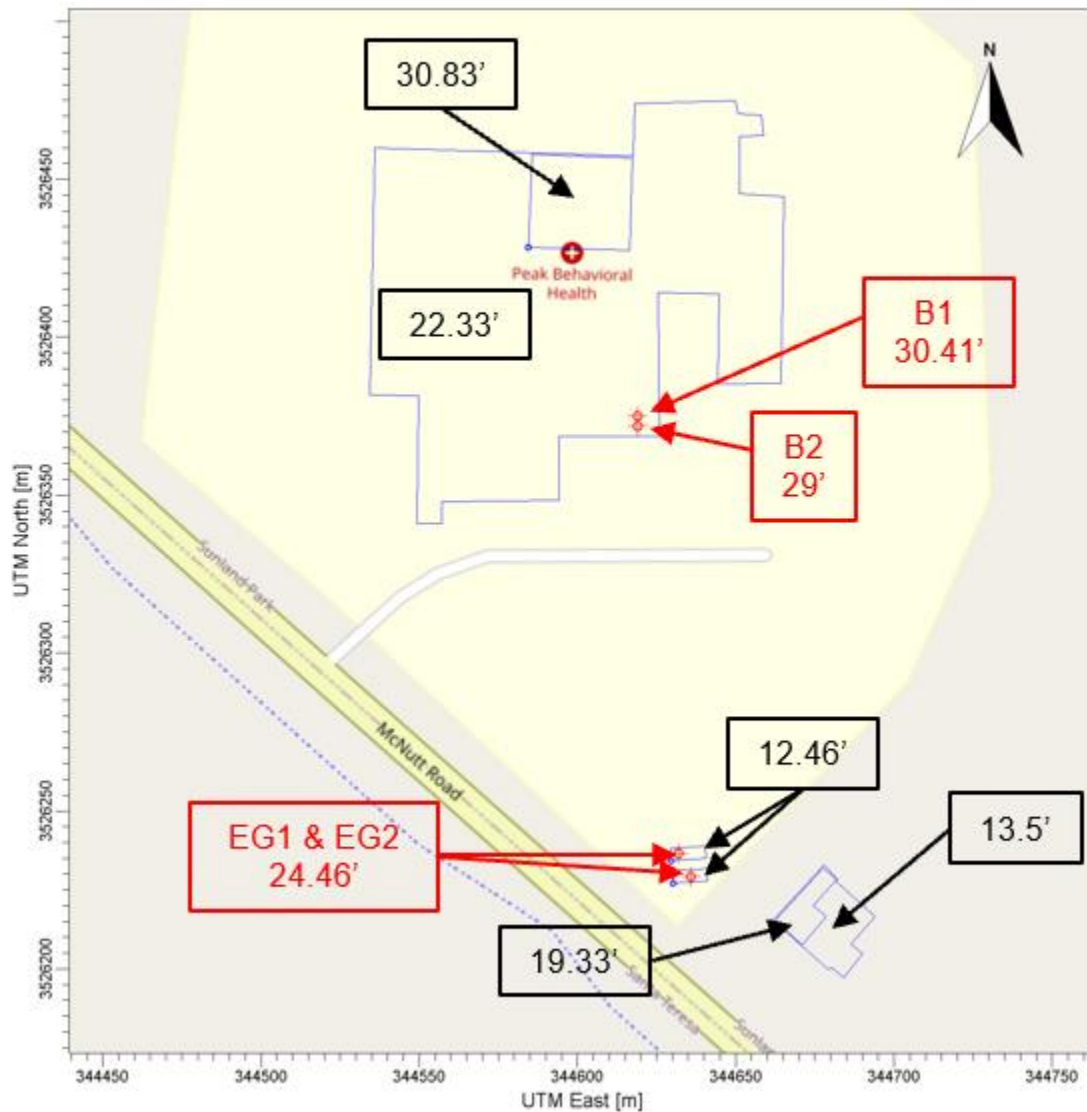
^d The sum of individual organic compounds may exceed the VOC and TOC emission factors due to differences in test methods and the availability of test data for each pollutant.

Section 8

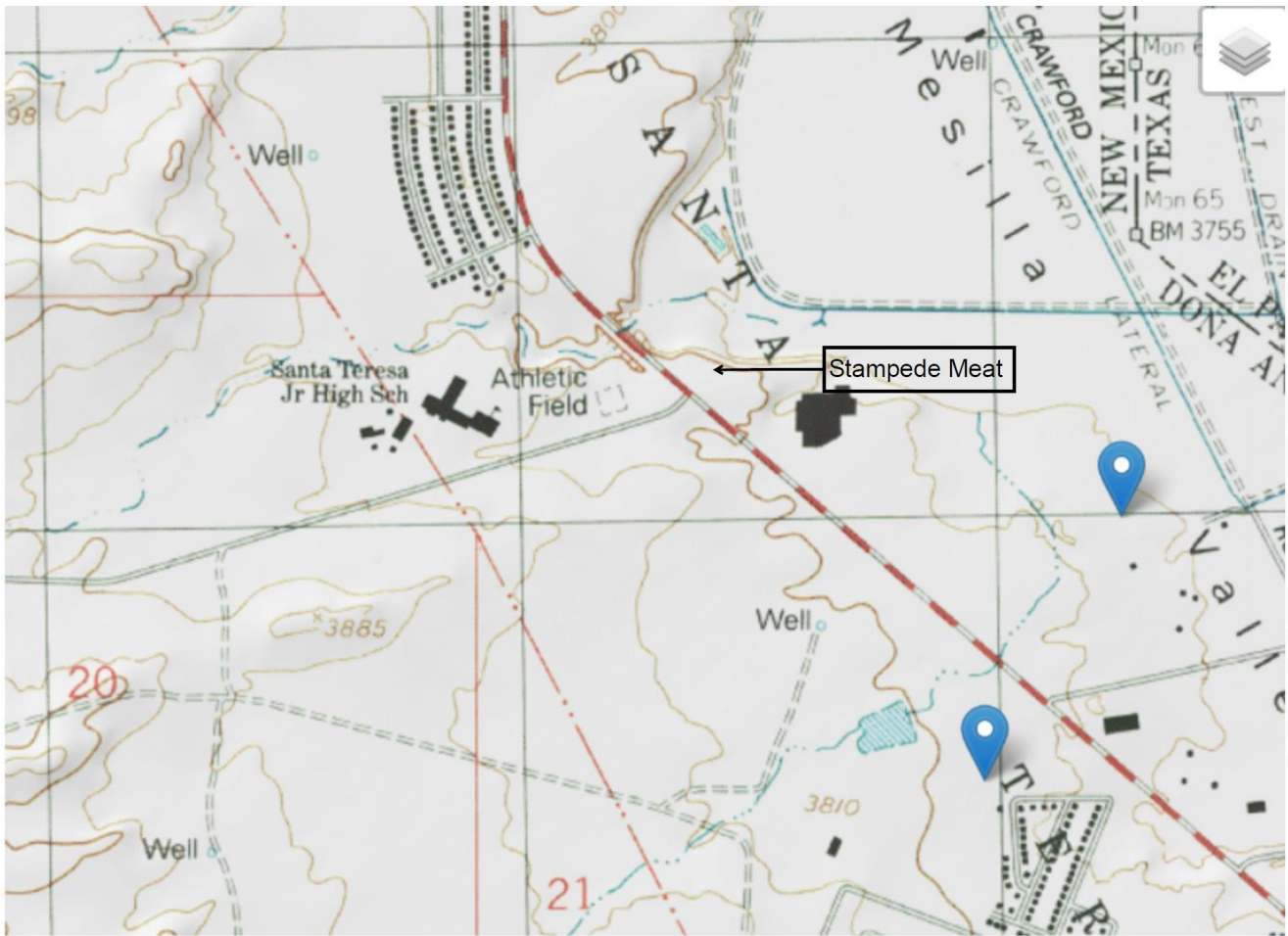
Map(s)

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

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



Plot Plan with North Direction, UTM coordinates, access road, property boundary, building heights, and stack heights.



7.5 min USGS Topographic Map showing location of site, topographic features around the site, and area surrounding the site.

Site: 5700 McNutt



Account: R1603267 *Mill Levy does not include Special District Rates such as: Lower Rio Caballo Soil and Water Conservation Levy, and La Union Watershed Levy.

Location	Owner Information
<p>Situs Address 5700 MCNUTT RD Tax Area 16IN_NR - 16IN_NR Parcel Number 4-015-166-200-065 Legal Summary S: 21 T: 28S R: 3E PART OF RT IN HF Deed Holder</p>	<p>Owner Name CITY OF SUNLAND PARK Owner Address 1000 MCNUTT RD SUNLAND PARK, NM 88063</p>
<p>Neighborhood 112 - MASON-FARMS</p>	

County Assessor Property Map of the Facility.

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.

1. Copies of Certified Letter Receipts

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY													
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature X M. FIMO <i>R.T.E. C-19</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>													
<p>1. Article Addressed to:</p> <p><i>City of Sunland Park 1000 Mc Nutt Road Sunland Park, NM 88063</i></p>  <p>9590 9402 5039 9092 2131 33</p>	<p>B. Received by (Printed Name) C. Date of Delivery</p>													
<p>2. Article Number (Transfer from service label)</p> <p>7019 0700 0000 8165 2686</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>													
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table> <p>(over \$500)</p> <p>Domestic Return Receipt</p>		<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®													
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™													
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery													
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise													
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™													
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery													

U.S. Postal Service™
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Sunland Park, NM 88063

OFFICIAL USE

Certified Mail Fee	\$3.55	
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	
Total Postage and Fees	\$6.95	

Postmark Here: **AUG - 3 2020**

Sent To: *City of Sunland Park*
 Street and Apt. No., or PO Box No.: *1000 Mc Nutt Rd.*
 City, State, ZIP+4®: *Sunland Park, NM 88063*

PS Form 3800, April 2015 PSN 7530-02-001-9047 See Reverse for Instructions.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature X</p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>
<p>1. Article Addressed to:</p> <p>Lindsey Bachman Chief Deputy Clerk Dona Ana County 845 N. Motel Blvd. Las Cruces, NM 88007</p>	<p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p>
<p>2. Article Number (Transfer from service label)</p> <p>7019 0700 0000 8163 9588</p>	<p>D. Is delivery address different from item 1? If YES, enter delivery address below:</p>
<p>9590 9402 5039 9092 2131 57</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>	

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only															
For delivery information, visit our website at www.usps.com ®.															
Las Cruces, NM 88007															
OFFICIAL USE															
<table border="1"> <tr> <td>Certified Mail Fee</td> <td>\$3.55</td> </tr> <tr> <td>Extra Services & Fees (check box, add fee as appropriate)</td> <td>\$2.85</td> </tr> <tr> <td><input type="checkbox"/> Return Receipt (hardcopy)</td> <td>\$0.00</td> </tr> <tr> <td><input type="checkbox"/> Return Receipt (electronic)</td> <td>\$0.00</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td>\$0.00</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Required</td> <td>\$0.00</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td>\$0.00</td> </tr> </table>	Certified Mail Fee	\$3.55	Extra Services & Fees (check box, add fee as appropriate)	\$2.85	<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	<input type="checkbox"/> Return Receipt (electronic)	\$0.00	<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	<input type="checkbox"/> Adult Signature Required	\$0.00	<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	<p>0443 13</p> <p>Postmark Here</p> <p>AUG - 3 2020</p> <p>08/03/2020</p>
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<table border="1"> <tr> <td>Postage</td> <td>\$0.55</td> </tr> <tr> <td>Total Postage and Fees</td> <td>\$6.95</td> </tr> </table>	Postage	\$0.55	Total Postage and Fees	\$6.95											
Postage	\$0.55														
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<p>Sent To: Lindsey Bachman Dona Ana Cty. Street and Apt. No., or PO Box No. 845 N. Motel Blvd. City, State, ZIP+4® Las Cruces, NM 88007</p>															
<p>PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions</p>															

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X <i>C-19</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to: <i>Roberto & Silvia Loya 107 Chalk Mountain Rd Santa Teresa, NM 88008</i>	B. Received by (Printed Name) <i>emrt7</i> C. Date of Delivery <i>8/6/20</i>
2. Article Number (Transfer from service label) 7019 0700 0000 8165 2693	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No
 9590 9402 5039 9092 2131 40	3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

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


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

Santa Teresa, NM 88008

OFFICIAL USE

Certified Mail Fee	\$3.55	
Extra Services & Fees (check box, add fee \$4.00 (date))		\$2.95
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	
Total Postage and Fees	\$6.95	

0443
13




Postmark Here
08/03/2020

Sent To *Roberto & Silvia Loya*

Street and Apt. No., or PO Box No. *107 Chalk Mountain Road CT*

City, State, ZIP+4® *Santa Teresa NM 88008*

PS Form 3800, April 2015 PSN 7530-02-004-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY													
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X <i>EM</i></p>													
<p>1. Article Addressed to:</p> <p><i>City of El Paso Water Utilities Service Board 1154 Hawkins Blvd. El Paso, TX 79925</i></p>  <p>9590 9402 2089 6132 6243 73</p>	<p>B. Received by (Printed Name)</p> <p><i>CJA 25097</i></p>	<p>C. Date of Delivery</p> <p><i>8-20-20</i></p>												
	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>													
	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table>		<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
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U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only											
For delivery information, visit our website at www.usps.com ®.											
<p style="text-align: center;"><i>El Paso, TX 79925</i></p>											
<p>Certified Mail Fee \$3.55</p> <p>Extra Services & Fees (check box, add fee as appropriate)</p> <table border="0"> <tr> <td><input type="checkbox"/> Return Receipt (hardcopy)</td> <td>\$ \$0.00</td> </tr> <tr> <td><input type="checkbox"/> Return Receipt (electronic)</td> <td>\$ \$0.00</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td>\$ \$0.00</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Required</td> <td>\$ \$0.00</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td>\$ \$0.00</td> </tr> </table>	<input type="checkbox"/> Return Receipt (hardcopy)	\$ \$0.00	<input type="checkbox"/> Return Receipt (electronic)	\$ \$0.00	<input type="checkbox"/> Certified Mail Restricted Delivery	\$ \$0.00	<input type="checkbox"/> Adult Signature Required	\$ \$0.00	<input type="checkbox"/> Adult Signature Restricted Delivery	\$ \$0.00	<p style="text-align: right;">0532 68</p> <p style="text-align: center;">Postmark Here</p>
<input type="checkbox"/> Return Receipt (hardcopy)	\$ \$0.00										
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<input type="checkbox"/> Adult Signature Restricted Delivery	\$ \$0.00										
<p>Postage \$0.55</p>											
<p>Total Postage and Fees \$6.95</p>	<p style="text-align: right;">08/13/2020</p>										
<p>Sent To <i>City of El Paso Water Util. P.H. Serv.</i></p> <p>Street and Apt. No., or PO Box No. <i>1154 Hawkins Blvd</i></p> <p>City, State, ZIP+4® <i>El Paso, TX 79925</i></p>											
<p>PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions</p>											

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.
 Print your name and address on the reverse so that we can return the card to you.
 Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

*Boomerang Joint Venture
 c/o Keleher & McLeod
 P.O. Box AA
 Albuquerque, NM 87103*

7019 2280 0000 1362 8463

9590 9402 2089 6132 6243 66

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Leann Bzy* Agent Addressee

B. Received by (Printed Name)
Leann Bzy 2020

C. Date of Delivery
 08/18/20

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

7019 2280 0000 1362 8463

PS Form 3811, July 2015 PSN 7530-02-000-9053

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

Albuquerque, NM 87103

OFFICIAL USE

Certified Mail Fee \$3.55

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

<input type="checkbox"/> Return Receipt (hardcopy)	\$2.85
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$6.95

Postmark Here
 0532 68
 08/13/2020

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Boomerang Joint Venture; c/o Keleher & McLeod
 Street and Apt. No., or PO Box No.
P.O. Box AA
 City, State, ZIP+4®
Albuquerque, NM 87103

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

2. List of Places Where Public Notice has been Filed
- Facility entrance
 - Sunland Park Post Office; 3500 McNutt Road; Sunland Park, NM 88063

- Mercedes Grocery; 3875 McNutt Road; Sunland Park, NM 88063
- Sunland Park Library; 1000 McNutt Road, Suite A, Sunland Park, NM 88063

3. Copy of Property Tax Record

Site: 5700 McNutt



Account: R1603267 *Mill Levy does not include Special District Rates such as: Lower Rio Caballo Soil and Water Conservation Levy, and La Union Watershed Levy.

Location	Owner Information
Situs Address 5700 MCNUTT RD	Owner Name CITY OF SUNLAND PARK
Tax Area 16IN_NR - 16IN_NR	Owner Address 1000 MCNUTT RD
Parcel Number 4-015-166-200-065	SUNLAND PARK, NM 88063
Legal Summary S: 21 T: 28S R: 3E PART OF RT IN HF	
Deed Holder	
Neighborhood 112 - MASON-FARMS	

4. Letters Sent to Owners of Record



BLUE SKY ENVIRONMENTAL LLC

August 3, 2020

CERTIFIED MAIL 7019 0700 0000 8165 2686
RETURN RECEIPT REQUESTED

City of Sunland Park
1000 McNutt Road
Sunland Park, NM 88063

Dear City of Sunland Park:

Stampede Meat, Inc. announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its meat processing facility. The expected date of application submittal to the Air Quality Bureau is August 19, 2020.

The exact location for the proposed facility known as Stampede Meat is at 5700 McNutt Road in Santa Teresa, NM 88008 latitude 31 deg, 51 min, 46.03 sec and longitude -106 deg, 38 min, 34.13 sec. The approximate location of this facility is 0.02 miles northwest of the Sunland Park Fire Department – Station 2 on McNutt Road (Route 273) in Dona Ana county.

The proposed revision consists of allowing the two existing emergency backup generators to participate in the El Paso Electric emergency demand response program for up to 50 hours per year from June 1 through September 30 from 1 pm to 7 pm on non-weekend/holidays for up to 10 events per year.

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

Pollutant:	Pounds per hour	Tons per year
PM ₁₀	4	3
PM _{2.5}	4	3
Nitrogen Oxides (NO _x)	96	35
Carbon Monoxide (CO)	19	15
Volatile Organic Compounds (VOC)	3	2
Green House Gas Emissions as Total CO ₂ e	n/a	< 75,000
Benzene	0.03	0.01

The standard and maximum operating schedules of the facility will be from 5:30 a.m. to 12 a.m., 5 days a week and a maximum of 52 weeks per year.

Owners and operators of the Facility include Stampede Meat, Inc.; 5700 McNutt Road; Santa Teresa, NM 88008.

P.O. Box 603 • Hingham, MA • 02043
Telephone 617-834-8408 • Fax 857-221-9464

Stampede Meat, Inc.
August 3, 2020

Page 2

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

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

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely,
Stampede Meat, Inc.
5700 McNutt Road
Santa Teresa, NM 88008



Don DiCristofaro
Air Quality Meteorologist on behalf of Stampede Meat, Inc.

Notice of Non-Discrimination

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

P.O. Box 603 • Hingham, MA • 02043
Telephone 617-834-8408 • Fax 857-221-9464



BLUE SKY ENVIRONMENTAL LLC

August 3, 2020

CERTIFIED MAIL 7019 0700 0000 8165 2693
RETURN RECEIPT REQUESTED

Roberto and Silvia Loya
107 Chalk Mountain Road CT
Santa Teresa, NM 88008

Dear Roberto and Silvia Loya:

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P.O. Box 603 • Hingham, MA • 02043
Telephone 617-834-8408 • Fax 857-221-9464



BLUE SKY ENVIRONMENTAL LLC

August 13, 2020

CERTIFIED MAIL 7017 2620 0000 0790 8317
RETURN RECEIPT REQUESTED

City of El Paso Water Utilities Public Service Board
1154 Hawkins Blvd.
El Paso, TX 79925

Dear City of El Paso Water Utilities Public Service Board:

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Telephone 617-834-8408 • Fax 857-221-9464

Stampede Meat, Inc.
August 13, 2020

Page 2

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Don DiCristofaro
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BLUE SKY ENVIRONMENTAL LLC

August 13, 2020

CERTIFIED MAIL 7019 2280 0000 1362 8463
RETURN RECEIPT REQUESTED

Boomerang Joint Venture
c/o Keleher & McLeod
P.O. Box AA
Albuquerque, NM 87103

Dear Boomerang Joint Venture:

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Stampede Meat, Inc.
August 13, 2020

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Stampede Meat, Inc.
5700 McNutt Road
Santa Teresa, NM 88008

Don DiCristofaro
Air Quality Meteorologist on behalf of Stampede Meat, Inc.

Notice of Non-Discrimination

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

P.O. Box 603 • Hingham, MA • 02043
Telephone 617-834-8408 • Fax 857-221-9464

5. Letters Sent to Counties and Municipalities (No Indian Tribes within prescribed area)



BLUE SKY ENVIRONMENTAL LLC

August 3, 2020

CERTIFIED MAIL 7019 0700 0000 8165 2686
RETURN RECEIPT REQUESTED

City of Sunland Park
1000 McNutt Road
Sunland Park, NM 88063

Dear City of Sunland Park:

Stampede Meat, Inc. announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its meat processing facility. The expected date of application submittal to the Air Quality Bureau is August 19, 2020.

The exact location for the proposed facility known as Stampede Meat is at 5700 McNutt Road in Santa Teresa, NM 88008 latitude 31 deg, 51 min, 46.03 sec and longitude -106 deg, 38 min, 34.13 sec. The approximate location of this facility is 0.02 miles northwest of the Sunland Park Fire Department – Station 2 on McNutt Road (Route 273) in Dona Ana county.

The proposed revision consists of allowing the two existing emergency backup generators to participate in the El Paso Electric emergency demand response program for up to 50 hours per year from June 1 through September 30 from 1 pm to 7 pm on non-weekend/holidays for up to 10 events per year.

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

Pollutant:	Pounds per hour	Tons per year
PM ₁₀	4	3
PM _{2.5}	4	3
Nitrogen Oxides (NO _x)	96	35
Carbon Monoxide (CO)	19	15
Volatile Organic Compounds (VOC)	3	2
Green House Gas Emissions as Total CO ₂ e	n/a	< 75,000
Benzene	0.03	0.01

The standard and maximum operating schedules of the facility will be from 5:30 a.m. to 12 a.m., 5 days a week and a maximum of 52 weeks per year.

Owners and operators of the Facility include Stampede Meat, Inc.; 5700 McNutt Road; Santa Teresa, NM 88008.

P.O. Box 603 • Hingham, MA • 02043
Telephone 617-834-8408 • Fax 857-221-9464

Stampede Meat, Inc.
August 3, 2020

Page 2

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

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

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely,
Stampede Meat, Inc.
5700 McNutt Road
Santa Teresa, NM 88008

Don DiCristofaro
Air Quality Meteorologist on behalf of Stampede Meat, Inc.

Notice of Non-Discrimination

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

6. Public Notice Posted and Verification of Local Postings

NOTICE

Stampede Meat, Inc. announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its meat processing facility. The expected date of application submittal to the Air Quality Bureau is August 19, 2020.

The exact location for the proposed facility known as Stampede Meat is at 5700 McNutt Road in Santa Teresa, NM 88008 latitude 31 deg, 51 min, 46.03 sec and longitude -106 deg, 38 min, 34.13 sec. The approximate location of this facility is 0.02 miles northwest of the Sunland Park Fire Department – Station 2 on McNutt Road (Route 273) in Dona Ana county.

The proposed revision consists of allowing the two existing emergency backup generators to participate in the El Paso Electric emergency demand response program for up to 50 hours per year from June 1 through September 30 from 1 pm to 7 pm on non-weekend/holidays for up to 10 events per year.

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

Pollutant:	Pounds per hour	Tons per year
PM ₁₀	4	3
PM _{2.5}	4	3
Nitrogen Oxides (NO _x)	96	35
Carbon Monoxide (CO)	19	15
Volatile Organic Compounds (VOC)	3	2
Green House Gas Emissions as Total CO _{2e}	n/a	< 75,000
Benzene	0.03	0.01

The standard and maximum operating schedules of the facility will be from 5:30 a.m. to 12 a.m., 5 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: Stampede Meat, Inc.; 5700 McNutt Road; Santa Teresa, NM 88008.

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

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

Atención

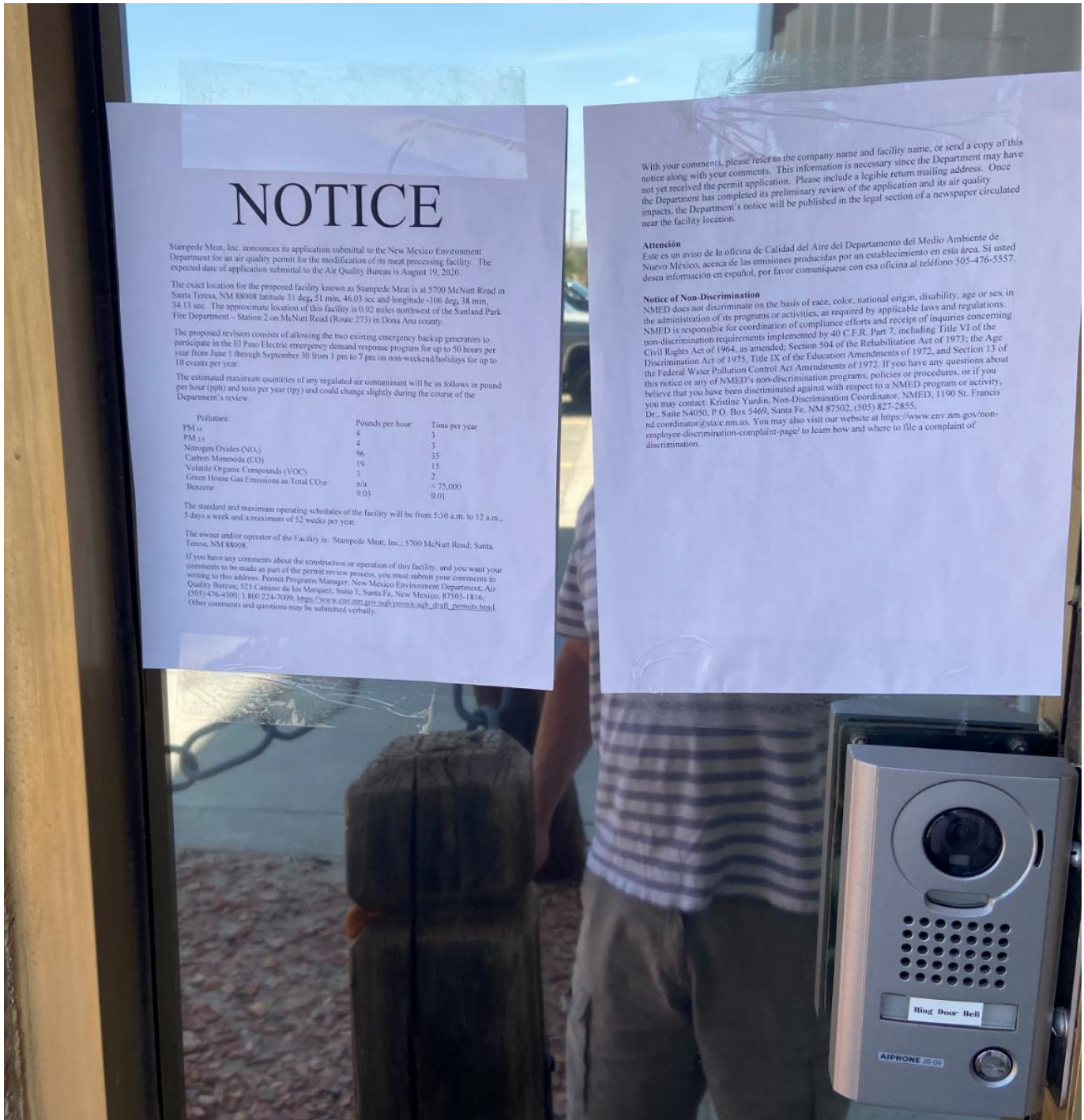
Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Notice of Non-Discrimination

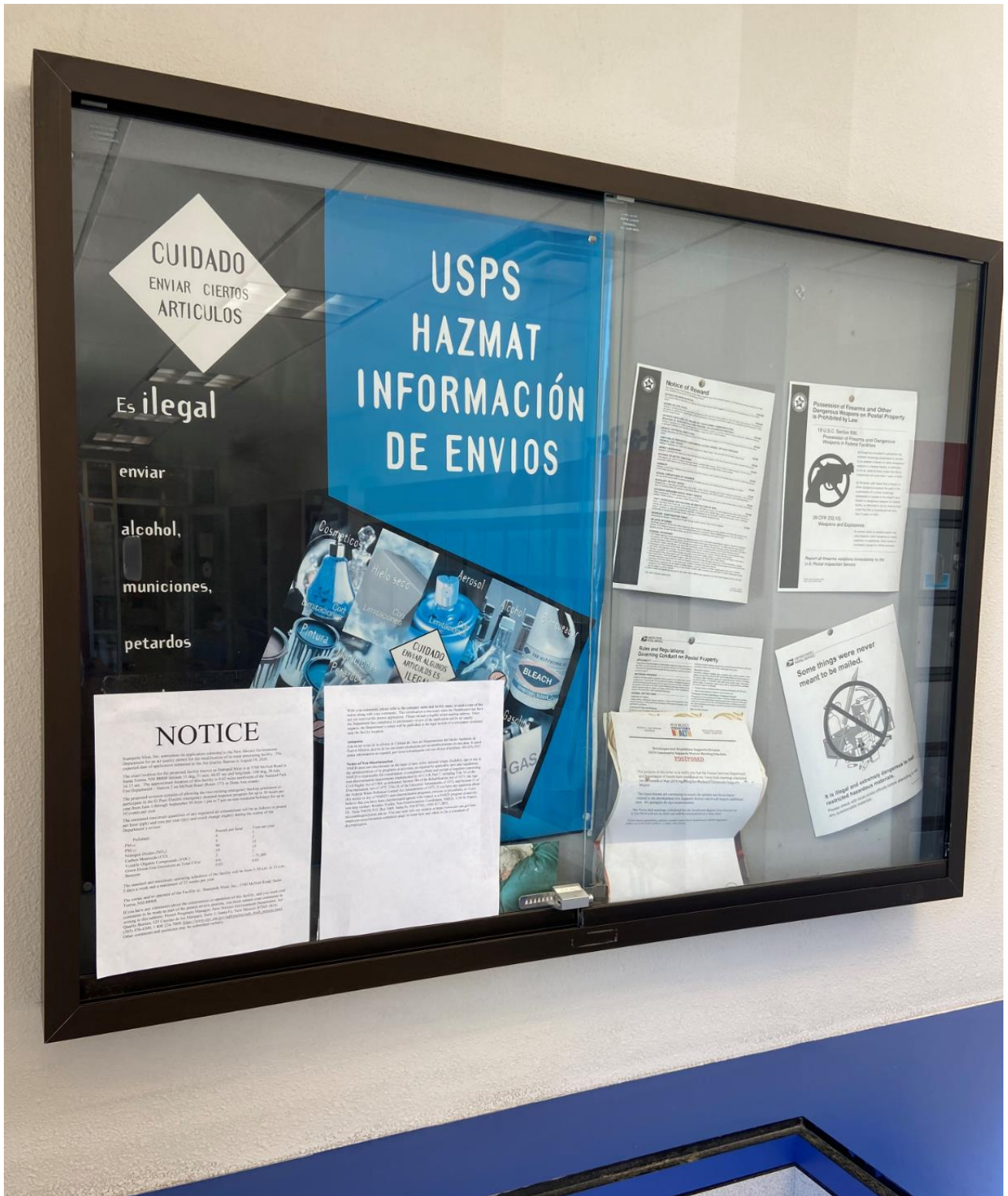
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Facility Main Entrance:

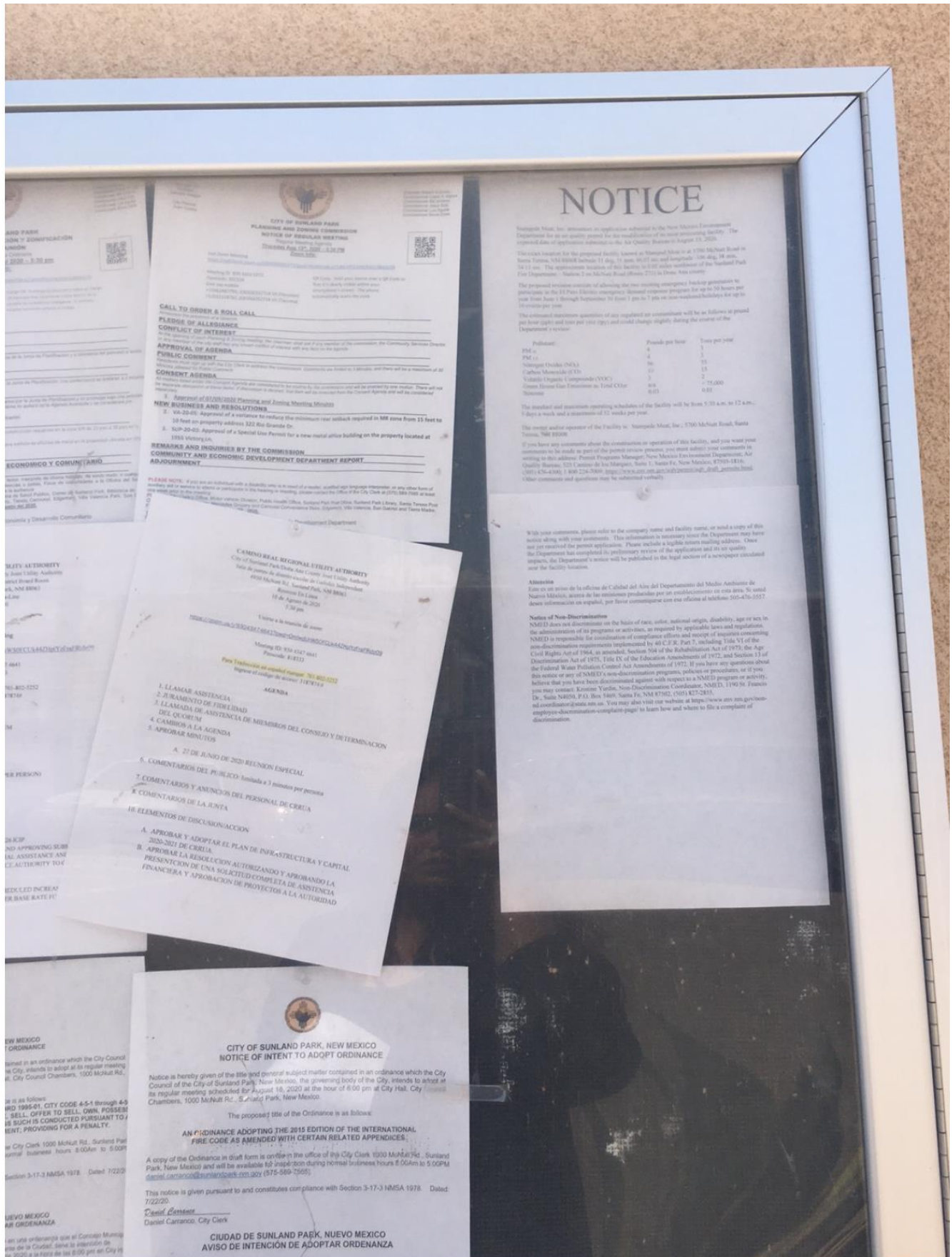




Sunland Park Post Office:



Sunland Park Library:



NOTICE

Stampede Meat, Inc. submitted an application submitted to the New Mexico Environment Department for an air quality permit for the modification of its meat processing facility. The proposed date of application submission is the 1st Quality Business in August 19, 2020.

The facility location for the proposed facility, known as Stampede Meat, is at 3700 McNeil Road in Santa Teresa, NM 88086 between 11 deg. 15 min. 00.00 sec and longitude: 106 deg. 18 min. 30.12 sec. The approximate location of this facility is 0.02 miles southeast of the Sunland Park Fair Department - Station 2 on McNeil Road (Route 271) in Dona Ana county.

The proposed routine activity of allowing the two existing emergency backup generators to participate in the 15 Power Emissions emergency limited emission program for up to 50 hours per year from June 1 through September 30 from 7 pm to 7 pm on non-holiday days for up to 10 events per year.

The estimated maximum quantity of air regulated air contaminants will be as follows during the period the backup and time per year and could change slightly during the course of the Department's review:

Pollutant	Pounds per hour	Days per year
PM 10	4	3
PM 2.5	0	3
Unregulated Volatiles (UVOC)	0	10
Carbon Monoxide (CO)	0	10
Visible Organic Compounds (VOC)	3	2
Ozone Depleting Gas Emissions in Total Ozone	0	75,000
Nonoxides	0	0.01

The estimated and maximum operating schedule of the facility will be from 5:30 a.m. to 12 a.m., 1 day a week and a maximum of 12 weeks per year.

The owner and/or operator of the Facility is: Stampede Meat, Inc. 3700 McNeil Road, Santa Teresa, NM 88086.

If you have any questions about the construction or operation of this facility, and you want your comments to be made a part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager, New Mexico Environment Department, Air Quality Bureau, 323 Camino de los Maripos, Suite 1, Santa Fe, New Mexico, 87505-DEIA, 505-824-6241, 1-800-225-2689. <https://www.nm.gov/airquality/permits/permits.html>

Other comments and questions may be submitted verbally.

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

Atención - En el caso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área, se usará desde información en español, por favor comunicarse con esa oficina al teléfono 505-824-6241.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for the coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 49 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about the Federal Water Pollution Control Act Amendments of 1972, and Section 13 of this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact Kristine Yorlano, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Santa Fe, NM 87505, P.O. Box 5409, Santa Fe, NM 87505, (505) 827-2833.

You may also visit our website at <https://www.nm.gov/airquality/employee-discrimination-complaint-page/> to learn how and where to file a complaint of discrimination.

CITY OF SUNLAND PARK PLANNING AND ZONING COMMISSION NOTICE OF REGULAR MEETING

Thursday, August 27, 2020 6:00 PM
7:00 PM

CALL TO ORDER & ROLL CALL

FLEDGE OF ALLEGIANCE

CONFLICT OF INTEREST

APPROVAL OF AGENDA

PUBLIC COMMENT

COMMITTEE AGENDA

APPROVAL OF 8/19/2020 Planning and Zoning Meeting Minutes

NEW BUSINESS AND RESOLUTIONS

- VA-20-05 Approval of a variance to reduce the minimum rear setback required in MR zone from 15 feet to 10 feet on property address 322 8th Grande Dr.
- 20-20-02 Approval of a Special Use Permit for a new metal office building on the property located at 1855 Valencia Dr.

REMARKS AND INQUIRIES BY THE COMMISSION

COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT REPORT

ADJOURNMENT

PLEASE NOTE: If you are an individual with a disability who is in need of a reasonable accommodation, or any other form of assistance, please contact the City Clerk at the office of the City Clerk at (505) 884-1881 or email cityclerk@sunlandpark-nm.gov at least 72 hours prior to the meeting.

CAMINO REAL REGIONAL UTILITY AUTHORITY

City of Sunland Park, New Mexico

4000 Highway 20, Sunland Park, NM 88081

August 19, 2020

7:30 pm

AGENDA

1. LLAMAR ASISTENCIA
2. JURAMENTO DE FIDELIDAD
3. LLAMADA DE ORDEN DEL DIA
4. CAMBIOS A LA AGENDA
5. APROBAR MINUTOS

A. 27 DE JUNIO DE 2020 REUNION ESPECIAL

6. COMENTARIOS DEL PUBLICO: limitada a 3 minutos por persona
7. COMENTARIOS Y AMONOS DEL PERSONAL DE CEREA
8. COMENTARIOS DE LA JUNTA
9. ELEMENTOS DE DISCUSION/ACCION
10. APROBAR Y ADOPTAR EL PLAN DE INFRAESTRUCTURA Y CAPITAL 2020-2021 DE CEREA
11. PRESENTACION DE UNA SOLICITUD COMPLETA DE ASISTENCIA FINANCIERA Y APROBACION DE PROYECTOS A LA AUTORIDAD

CITY OF SUNLAND PARK, NEW MEXICO NOTICE OF INTENT TO ADOPT ORDINANCE

Notice is hereby given of the title and general subject matter contained in an ordinance which the City Council of the City of Sunland Park, New Mexico, the governing body of the City, intends to adopt at its regular meeting scheduled for August 19, 2020 at the hour of 6:00 pm at City Hall, City Chambers, 1000 McNutt Rd., Sunland Park, New Mexico.

The proposed title of the Ordinance is as follows:

AN ORDINANCE ADOPTING THE 2015 EDITION OF THE INTERNATIONAL FIRE CODE AS AMENDED WITH CERTAIN RELATED APPENDICES.

A copy of the Ordinance in draft form is on file in the office of the City Clerk 1000 McNutt Rd., Sunland Park, New Mexico and will be available for inspection during normal business hours 8:00am to 5:00PM [daniel.carranco@sunlandpark-nm.gov](mailto:cityclerk@sunlandpark-nm.gov) (505) 889-1595.

This notice is given pursuant to and constitutes compliance with Section 3-17-3 NMSA 1978. Dated: 7/22/20.

Daniel Carranco
Daniel Carranco, City Clerk

**CIUDAD DE SUNLAND PARK, NUEVO MEXICO
AVISO DE INTENCION DE ADOPTAR ORDENANZA**

Mercedes Grocery:



Verification of Local Postings

General Posting of Notices – Certification

I, Jorge Polanco, the undersigned, certify that on 8/11/20 and 8/20/20, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in Sunland Park and Santa Teresa of Dona Ana County, State of New Mexico on the following dates:

- 1. Facility entrance 8/20/20
- 2. Sunland Park Post Office; 3500 McNutt Road; Sunland Park, NM 88063 8/11/20
- 3. Mercedes Grocery; 3875 McNutt Road; Sunland Park, NM 88063 8/11/20
- 4. Sunland Park Library; 1000 McNutt Road, Suite A, Sunland Park, NM 88063; 8/11/20

Signed this 26th day of August, 2020,



Signature

8/26/2020
Date

Jorge Polanco
Printed Name

Account Manager for Trane; Demand Response Provider to Stampede Meat
Title

7. Table of Notices Citizens, Counties, Municipalities and Tribes Notices were sent to

Submitted To	Category	Address	Date Submitted
City of Sunland Park	Abutting Property Owner (multiple lots) Municipality	1000 McNutt Road Sunland Park, NM 88063	8/3/20
Roberto and Silvio <u>Loya</u>	Abutting Property Owner	107 Chalk Mountain CT Santa Teresa, NM 88008	8/3/20
City of El Paso Water Utilities Service Board	Abutting Property Owner	1154 Hawkins Blvd. El Paso, TX 79925	8/13/20
Boomerang Joint Venture c/o <u>Keleher & Mcleod</u>	Abutting Property Owner	P.O. Box AA Albuquerque, NM 87103	8/13/20
Dona Ana County	County ¹	845 N. Motel Blvd. Las Cruces, NM 88007	8/3/20
KTEP 88.5 FM	Public Service Announcement	500 West University Ave. Cotton Memorial Bldg.; Suite 203 El Paso, TX 79968	8/3/20
None within 10 mi	Tribes		

¹Site is also within 10 mi of El Paso County but notification not required since this County is in Texas

8. Copy of Public Service Announcement Submittal and Documentary Proof of Submittal



BLUE SKY ENVIRONMENTAL LLC

August 3, 2020

CERTIFIED MAIL 7019 0700 0000 8165 2709
RETURN RECEIPT REQUESTED

KTEP 88.5 FM
500 West University Avenue
Cotton Memorial Building, Suite 203
El Paso, TX 79968

Dear Madam/Sir:

Attached is a Public Service Announcement for consideration for airing.

Sincerely,
Stampede Meat, Inc.
5700 McNutt Road
Santa Teresa, NM 88008

Don DiCristofaro
Air Quality Meteorologist on behalf of Stampede Meat, Inc.

P.O. Box 603 • Hingham, MA • 02043
Telephone 617-834-8408 • Fax 857-221-9464

Public Service Announcement

Stampede Meat, Inc. announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its meat processing facility. The location for the facility is at 5700 McNutt Road in Santa Teresa, NM. The owner and operator of the Facility is: Stampede Meat, Inc.

The proposed revision consists of allowing the two existing emergency backup generators to participate in the El Paso Electric emergency demand response program for up to 50 hours per year from June 1 through September 30 from 1 pm to 7 pm on non-weekend/holidays for up to 10 events per year.

Public Notices have been posted at:

- Facility Entrance
- Sunland Park Post Office; 3500 McNutt Road; Sunland Park, NM 88063
- Mercedes Grocery; 3875 McNutt Road; Sunland Park, NM 88063
- Sunland Park Library; 1000 McNutt Road, Suite A, Sunland Park, NM 88063

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

Submittal of Public Service Announcement – Certification

I, Don DiCristofaro, the undersigned, certify that on August 3, 2020, submitted a public service announcement to KTEP 98.5 FM that serves the Village of Santa Teresa Dona Ana County, New Mexico, in which the source is or is proposed to be located and that KTEP 98.5 FM did not respond.

Signed this 17th day of August, 2020.


Signature

8/17/2020
Date

Don DiCristofaro

Air Quality Meteorologist; Consultant to Stampede Meat

El Paso Times

PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004311097

This is not an invoice

BLUE SKY ENVIRONMENT AL LLC
PO BOX 603

HINGHAM, MA 02043-0603

I, being duly sworn say: **El Paso Times**, a daily newspaper of general circulation published in the City and County El Paso, State of Texas, which is a newspaper of general circulation and which has been continuously and regularly published for the period of not less than one year in the said County of El Paso, and that he/she was upon the dates herein mentioned in the EL PASO TIMES.

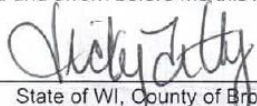
That the LEGAL copy was published in the EL PASO TIMES for the date(s) of such follows DAY(s) to wit

08/04/2020



Legal Clerk

Subscribed and sworn before me this August 4, 2020:



State of WI, County of Brown
NOTARY PUBLIC

9-19-21

My commission expires

Ad # 0004311097
PO #:
of Affidavits 1

This is not an invoice



NOTICE OF AIR QUALITY PERMIT APPLICATION

Stampede Meat, Inc. announces its application submittal to the New Mexico Environment Dept an air quality permit for the modification of its meat processing facility. The expected date of submittal to the Air Quality Bureau is August 19, 2020.

The exact location for the proposed facility known as Stampede Meat is at 5700 McNutt Road, es, NM 88008 latitude 31 deg, 51 min, 46.03 sec and longitude -106 deg, 38 min, 34.13 sec. The location of this facility is 0.02 miles northwest of the Sunland Park Fire Department - McNutt Road (Route 273) in Dona Ana county.

The proposed revision consists of allowing the two existing emergency backup generators in the El Paso Electric emergency demand response program for up to 50 hours per year through September 30 from 1 pm to 7 pm on non-weekend/holidays for up to 10 events per year. The estimated maximum quantities of any regulated air contaminant will be as follows in ppm (pph) and tons per year (tpy) and could change slightly during the course of the Department's

Pollutant:	Pounds per hour	Tons per year
PM 10	4	3
PM 2.5	4	3
Nitrogen Oxides (NOx)	96	35
Carbon Monoxide (CO)	19	15
Volatile Organic Compounds (VOC)	3	2
Green House Gas Emissions as Total CO2e	n/a	< 75,000
Benzene	0.03	0.01

The standard and maximum operating schedules of the facility will be from 5:30 a.m. to 12 week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: Stampede Meat, Inc.; 5700 McNutt Road; San 88008.

If you have any comments about the construction or operation of this facility, and you want to be made as part of the permit review process, you must submit your comments in writing to the address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7777. Other comments and questions may be submitted verbally.

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

General information about air quality and the permitting process can be found at the Department's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de México, acerca de las emisiones producidas por un establecimiento en esta área. Si desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Notice of Non-Discrimination

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10. Copy of Display Ad (original also provided)

El Paso Zoo mourns loss of African lion

María Cortés González | El Paso Times
USA TODAY NETWORK - TEXAS

The El Paso Zoo is mourning the loss of a 7-year-old male African lion, Rudo. Rudo was euthanized after suffering a neurological disorder which left the right side of his body completely paralyzed, a zoo release read.

Zoo keepers and veterinary staff had been managing his health and determined the prognosis for a good quality of life was poor.

"For the past six years, we have watched Rudo grow from a nervous, timid young lion into a confident and

strong leader of his pride. It gave us great joy to see him get his courage and bond with his three females," Amanda Leverett, zoo collections supervisor in the release, said in the news release. "We are so saddened at this very sudden loss that came way too soon and wish we could all have more time with him."

After running several tests including an MRI scan at the Hospitals of Providence, zookeepers and veterinary staff diagnosed Rudo had a severe inflammatory spinal cord lesion in his neck, which was inoperable.

Over the course of the week, zookeepers and veterinary staff worked

around the clock to make sure Rudo was comfortable and pain-free, and initiated treatments to control the inflammation. Despite these efforts, Rudo's condition did not improve.

"It was a huge team effort all week to give Rudo the intensive care he needed to allow time for possible improvement and response to treatment. Ultimately, his spinal cord condition was too far deteriorated to recover, and we had to say goodbye — It is an unexpected and deep loss," said Dr. Victoria Milne, chief zoo veterinarian said Sunday.

Rudo arrived at the El Paso Zoo in March 2014 from the Woodland Park



The El Paso Zoo is mourning the loss of 7-year-old male African lion Rudo. COURTESY

Zoo in Seattle. He was shy at first but went on to bond with the females in the African exhibit.

Stay up-to-date on everything related to entertainment, restaurants and trending stories.

María Cortés González may be reached at 915-546-6150; mcortez@elpasotimes.com; @EPTMaria on Twitter.

CORONAVIRUS UPDATE

Here is the latest news on the coronavirus in El Paso for Monday, Aug. 3.

If you have a news tip or update, email borderland@elpasotimes.com. Stay safe, El Paso.

Positive coronavirus cases in El Paso

El Paso County has 14,914 cases and 276 deaths as of Monday.

Texas is reporting 442,014 cases and 7,016 coronavirus deaths as of Monday.

New Mexico has 21,300 cases and 655 deaths, with 2,240 cases and 24 deaths in Doña Ana County.

There are 4,613 cases and 670 deaths in Juárez.

Juárez reports 16 new COVID-19 cases

Chihuahua public health officials reported 16 new COVID-19 cases in Juárez Monday, raising the case total to 4,613. Of those, 1,941 patients have recovered.

Health officials reported one new death from coronavirus. Juárez's death toll is 670.

There are 8,385 COVID-19 cases and 933 deaths in the state of Chihuahua.

Three new COVID-19 deaths reported in El Paso

El Paso County health officials reported three new COVID-19 deaths Monday, bringing the total to 276.

The patients were a woman in her 60s, a man in his 70s and a woman in her 80s. All had underlying health conditions.

Officials also reported 202 new lab-confirmed coronavirus cases, with 14,914 total. Of those, 11,218 have recovered.

Hospitalizations increased to 290.

from 273 on Sunday. There were 103 patients in intensive care and 52 on ventilators.

'Mega drive-thru' COVID-19 test sites open through Aug. 8

- Two "mega drive-thru" COVID-19 test sites will remain open in El Paso through Aug. 8.
- The sites are open 9 a.m. to 4 p.m. at El Paso Community College Valle Verde campus, 919 Hunter Drive, and the Socorro Student Activities Complex, 1300 Joe Battle Blvd.
- A drive-thru/walk-up site at Nations Tobin Park, 8831 Railroad Drive, is open 8 a.m. to 2 p.m. through Aug. 8.
- Temporary test sites outside city limits will be open 9 a.m. to 4 p.m. the following days:
 - Aug. 6: Montana Vista Fire Station #2, 5411 Paso View Drive in El Paso
 - Aug. 7: West Valley Fire Station, 510 Vinton Road in Vinton
 - Aug. 8: El Paso County ESD #2 Fire Station, 1440 N Loop Drive in Socorro
- No appointments are needed for the nasal swab test, which is free and done on a first-come, first-served basis regardless of symptoms. Once daily capacity is reached at each location, it will close for the day.
- Test results will be provided via email within two to three days. For assistance with test results, call 1-844-778-2455 or email Covid19help@honumg.com.

Health officials urge recovered COVID-19 patients to donate plasma

El Paso health officials urge people who have recovered from COVID-19 to donate plasma to help current patients. Hospitals use convalescent plasma therapy to treat severely ill coronavirus patients, which involves giving them

blood transfusions from a recovered patient.

El Pasoans can donate plasma at Vitalant blood donation centers. Donors must be symptom-free for at least 28 days. For more information, visit vitalant.org/covid19 or call 866-287-6762.

Workforce Solutions Borderplex opens two drive-thru centers

Workforce Solutions Borderplex is operating two drive-thru locations to help job seekers and unemployed people get information about jobs and unemployment benefits.

The drive-thru locations are outside two of the public employment agency's employment centers at 8825 N Loop Drive in the Lower Valley, and at 8941 Dyer St., in Northeast El Paso. All of the agency's offices are closed to the public due to COVID-19 precautions.

The locations are open 8 a.m. to 2 p.m. weekdays. For more information, call 915-887-2600.

Project Vida offers COVID-19 testing

Project Vida is offering free COVID-19 testing at its Naffziger Clinic, at 3612 Fera Ave., in partnership with the city of El Paso.

The clinic's drive-thru test site is open from 9 a.m. to 4 p.m. Monday, Wednesday and Friday. People are encouraged to make an appointment by calling 915-298-5044 from 8 a.m. to 5

p.m. Monday through Friday. Testing is open to those with and without COVID-19 symptoms.

What are the coronavirus symptoms?

Symptoms can range from mild to severe, and some people don't have any symptoms at all. The most common symptoms resemble the flu and include fever, tiredness and dry cough. Some people also develop aches and pains, nasal or diarrhea.

About one in six people become seriously ill and develop difficulty breathing, according to the World Health Organization. If you experience fever, cough and shortness of breath, call your doctor.

Symptoms can appear anywhere between two to 14 days after exposure, with the average patient seeing onset at around five days, according to the Centers for Disease Control and Prevention.

CDC coronavirus safety tips

- The CDC's website offers the following safety tips:
 - Wash hands often.
 - Avoid close contact with others by keeping at least 6 feet of distance.
 - Cover your mouth and nose with a cloth face cover when around others.
 - Cover coughs and sneezes.
 - Clean and disinfect frequently touched surfaces.
 - Monitor your health.

NOTICE OF AIR QUALITY PERMIT APPLICATION

Stampede Meat, Inc. announces its application submitted to the New Mexico Environment Department for an air quality permit for the reconstruction of its meat processing facility. The expected date of application submitted to the Air Quality Bureau is August 19, 2020.

The exact location for the proposed facility known as Stampede Meat is at 5700 McAllister Road in Santa Teresa, NM 88008 (elevation 5119 ft, 151.1 mi, 46.03 sec, and longitude 106 06 20, 24 13 sec). The approximate location of the facility is 0.03 miles northwest of the Sunland Park Fire Department - Station 2 on McAllister Road 2735 in Doña Ana County.

The proposed revision consists of allowing the two existing emergency backup generators to participate in the 10-hour electric emergency demand response program for up to 50 hours per year from June 1 through September 30 from 1 pm to 1 pm on non-weekend/holidays for up to 10 events per year.

The estimated maximum quantities of air pollutants that can be emitted will be as follows in pounds per hour (pphr) and tons per year (tpy) and could change slightly during the course of the Department's review.

Pollutant	Pounds per hour	Tons per year
PM ₁₀	3	3
PM _{2.5}	4	3
Hydrogen Sulfide (H ₂ S)	96	25
Carbon Monoxide (CO)	19	15
Volatile Organic Compounds (VOC)	3	2
Green House Gas Emissions as Total CO ₂ e	419	17,800
Benzene	0.03	0.01

The standard and maximum operating schedule of the facility will be from 5:30 a.m. to 12 a.m., 5 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the facility is Stampede Meat, Inc. 5700 McAllister Road, Santa Teresa, NM 88008.

If you have any comments about the construction or operation of the facility, and you wish your comments to be made a part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager, New Mexico Environment Department, Air Quality Bureau, 505 Camino de las Mesas, Suite 1, Santa Fe, New Mexico 87505-1116, 605-844-4000, 1-800-254-7000, <https://www.nm.gov/airquality>, email: permits@nmedep.gov. Other comments and questions may be submitted verbally.

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

General information about air quality and the permitting process can be found at the Air Quality Bureau's website. The regulation dealing with public participation in the permit review process is 20.2.7.2.209 NMAC. This regulation can be found in the "Permits" section of the web site.

Attorneys: Staff is on hand to advise on Clean Air Act and Department of the Interior requirements on air quality. Other services are available upon request. For more information, contact our office at 605-844-4000 or 1-800-254-7000.

Notice of Non-Discrimination: NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordinating and implementing all forms of affirmative action programs, including but not limited to recruitment, hiring, promotion, training, and development. If you have any questions about the notice or any of NMED's affirmative action programs, including its procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact NMED's Affirmative Action Officer, 505 Camino de las Mesas, Suite 1, Santa Fe, NM 87505-1116, 605-844-4000, 1-800-254-7000, <https://www.nm.gov/airquality>, email: affirmativeaction@nmedep.gov. This notice may be found in the legal section of a newspaper circulated near the facility location.

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AFFIDAVIT OF PUBLICATION

Ad No. GCI0468186

BLUE SKY ENVIRONMENTAL LLC
PO BOX 603
HINGHAM MA 02043

I, being duly sworn say: EL PASO TIMES, a daily newspaper of general circulation published in the City and County El Paso, State of Texas, which is a newspaper of general circulation and which has been continuously and regularly published for the period of not less than one year in the said County of El Paso, and that he/she was upon the dates herein mentioned in the EL PASO TIMES.

That the LEGAL copy was published in the EL PASO TIMES and online for the date(s) of such follows 1 DAY(s) to wit

8/4/2020

Despondent further states this newspaper is duly qualified to publish legal notice or advertisements within the meaning of Sec. Chapter 167, Laws of 1937

Legal Clerk
Subscribed and sworn before me this 4TH OF August, 2020.

Nancy Heyrman
State of WI, County of Brown
NOTARY PUBLIC

5:15:23
My Commission Expires

Ad#: GCI0468186
PO: AIR QUALITY CONTROL
of Affidavits : 1

NANCY HEYRMAN
Notary Public
State of Wisconsin

NOTICE OF AIR QUALITY PERMIT APPLICATION

Stampede Meat, Inc. announces its application submitted to the New Mexico Environment Department for an air quality permit for the modification of its meat processing facility. The expected date of application submitted to the Air Quality Bureau is August 19, 2020.

The exact location for the proposed facility known as Stampede Meat is at 5700 McClurt Road in Santa Teresa, NM 88008 latitude 31 deg, 51 min, 46.03 sec and longitude -106 deg, 38 min, 34.13 sec. The approximate location of this facility is 0.07 miles northwest of the Sutherland Park Fire Department - Station 2 on McClurt Road (Route 273) in Dona Ana county.

The proposed revision consists of allowing the two existing emergency backup generators to participate in the El Paso Electric emergency demand response program for up to 50 hours per year from June 1 through September 30 from 1 pm to 7 pm on non-weekend/holidays for up to 10 events per year. The estimated maximum quantities of any regulated air contaminant will be as follows in pounds per hour (pph) and tons per year (tpy) and could change slightly during the course of the Department's review:

Table with 3 columns: Pollutant, Pounds per hour, Tons per year. Rows include PM10, PM2.5, Nitrogen Oxides (NOx), Carbon Monoxide (CO), Volatile Organic Compounds (VOC), Green House Gas Emissions as Total CO2e, and Benzene.

The standard and maximum operating schedules of the facility will be from 5:30 a.m. to 12 a.m., 5 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: Stampede Meat, Inc., 5700 McClurt Road, Santa Teresa, NM 88008.

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager, New Mexico Environment Department, Air Quality Bureau, 525 Camino de los Marquez, Suite 1, Santa Fe, New Mexico, 87505-1816, (505) 678-6300, 1 800 224-7009; https://www.enr.nm.gov/air/permits/air_permits.html. Other comments and questions may be submitted verbally.

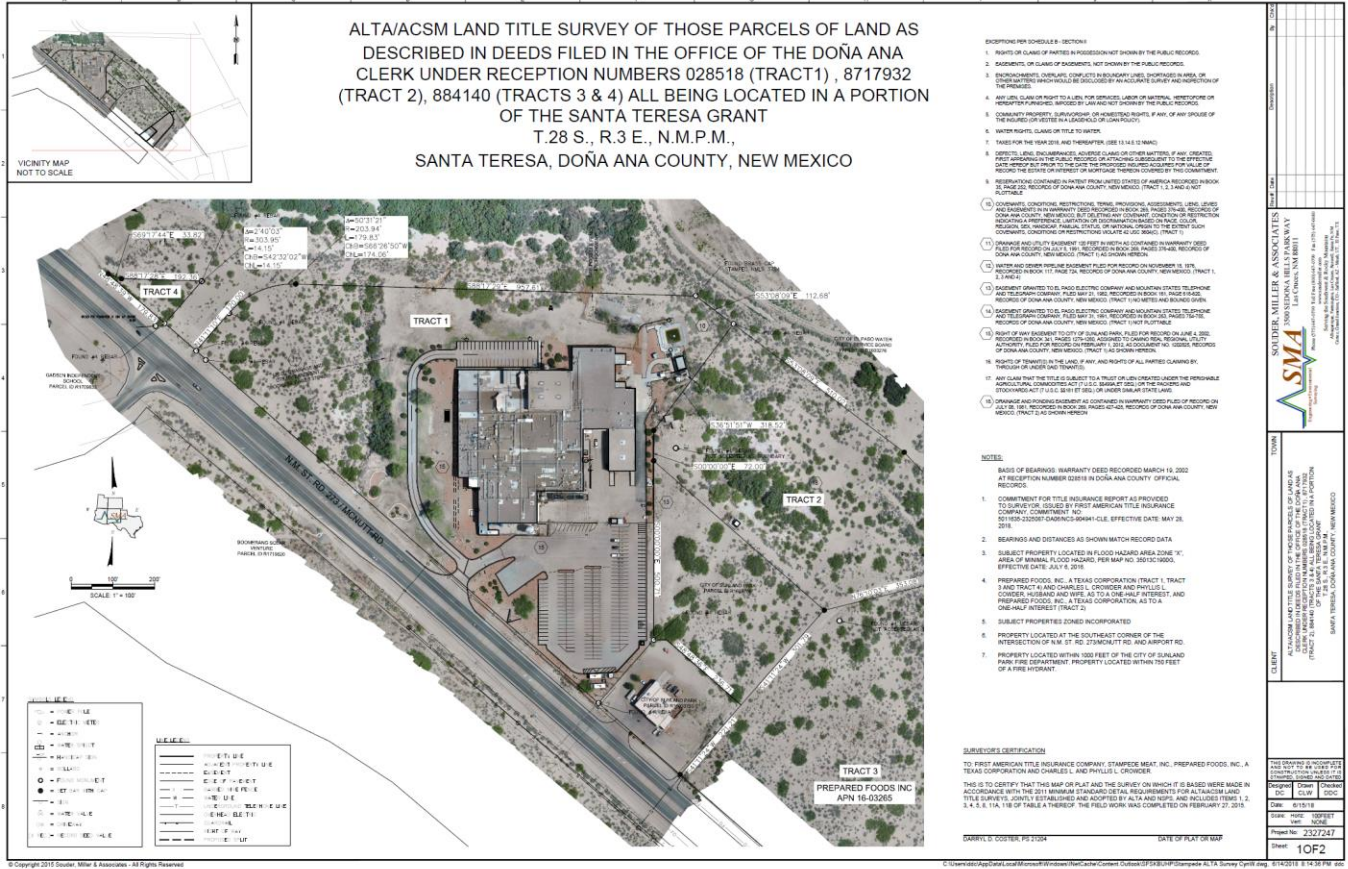
Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of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

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Atención
Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Notice of Non-Discrimination
NMEED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMEED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975; Title IX of the Education Amendments of 1972; and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMEED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMEED program or activity, you may contact: Kristina Hurlin, Non-Discrimination Coordinator, NMEED, 1190 St. Francis Dr., Suite N4550, P.O. Box 4489, Santa Fe, NM 87502, (505) 827-2825, nd.coord@state.nm.us. You may also visit our website at https://www.enr.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

11. Map showing graphic scale of facility boundary and surrounding area in which owners of record were notified



Site: 5700 McNutt



Account: R1603267 *Mill Levy does not include Special District Rates such as: Lower Rio Caballo Soil and Water Conservation Levy, and La Union Watershed Levy.

Location	Owner Information
<p>Situs Address 5700 MCNUTT RD Tax Area 16IN_NR - 16IN_NR Parcel Number 4-015-166-200-065 Legal Summary S: 21 T: 28S R: 3E PART OF RT IN HF Deed Holder</p>	<p>Owner Name CITY OF SUNLAND PARK Owner Address 1000 MCNUTT RD SUNLAND PARK, NM 88063</p>
<p>Nearby Neighborhood 112 - MASON-FARMS</p>	

Abutting: 5656 McNutt



Location	Owner Information
----------	-------------------

Situs Address 5656 MCNUTT RD
Tax Area 16IN_NR - 16IN_NR
Parcel Number 4-015-166-263-114
Legal Summary Subd: BOUNDARY SURVEY 2.850 ACRE PARCEL (BK 20 PG 152 - 0230673) S: 21 T: 28S R: 3E
Deed Holder

Owner Name CITY OF SUNLAND PARK
Owner Address 1000 MC NUTT RD STE G
 SUNLAND PARK, NM 88063

Neighborhood 112 - MASON-FARMS

Abutting: This parcel appears to be the Sunland Park Fire Dept at 5650 McNutt Road, Sunland Park, NM 88063. Assume this is owned by the City of Sunland Park. There is no parcel number in the assessor database. Parcel ID shown below does not show up in database.



No results found for query: AccountNumID = R16033755



Abutting: 5722 McNutt



Location

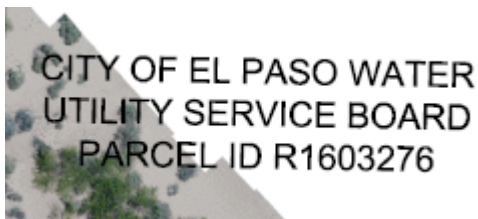
Owner Information

Situs Address 5722 MCNUTT RD
 Tax Area 16IN_NR - 16IN_NR
 Parcel Number 4-015-166-292-145
 Legal Summary S: 21 T: 28S R: 3E TR IN NHF
 Deed Holder

Owner Name LOYA ROBERTO A & SILVIA A
 Owner Address 107 CHALK MOUNTAIN CT
 SANTA TERESA, NM 88008

Neighborhood 112 - MASON-FARMS

Abutting North of Site





Location		Owner Information		Assessment History									
Situs Address Tax Area 16IN_R - 16IN_R Parcel Number 4-015-166-350-085 Legal Summary S: 21 T: 28S R: 3E PT OF USRS TR 32-13B2 Deed Holder		Owner Name CITY OF EL PASO WATER UTILITIES PUBLIC SERV BOARD Owner Address 1154 HAWKINS BLVD EL PASO, TX 79925		Actual (2020 - Residential \$125,167 Cap applied) Primary Taxable \$41,723 Tax Area: 16IN NR Mill Levy: 39.712000									
Neighborhood 112 - MASON-FARMS				<table border="1"> <thead> <tr> <th>Type</th> <th>Actual</th> <th>Assessed</th> <th>Acres</th> </tr> </thead> <tbody> <tr> <td>Agriculture Land</td> <td>\$81,500</td> <td>\$27,167</td> <td>81.450</td> </tr> </tbody> </table>		Type	Actual	Assessed	Acres	Agriculture Land	\$81,500	\$27,167	81.450
Type	Actual	Assessed	Acres										
Agriculture Land	\$81,500	\$27,167	81.450										
				<table border="1"> <thead> <tr> <th>Type</th> <th>Actual</th> <th>Assessed</th> <th>Acres</th> </tr> </thead> <tbody> <tr> <td>Residential Land</td> <td>\$43,667</td> <td>\$14,556</td> <td>1.000</td> </tr> </tbody> </table>		Type	Actual	Assessed	Acres	Residential Land	\$43,667	\$14,556	1.000
Type	Actual	Assessed	Acres										
Residential Land	\$43,667	\$14,556	1.000										
Transfers													
Record Sequence	Reception Number	Book Page	Sale Date										
5	0025336		11/14/2000										
4	0025335		11/14/2000										
3	0025334		11/14/2000										
2	0025333		11/14/2000										
1	BK 186 PG 122-123												
				Images									
Tax Year	Taxes	GIS											
*2020	\$1,651.88												
2019	\$1,636.20												
* Estimated													


Abutting Across the Street:

BOOMERANG SOLAR
VENTURE
PARCEL ID R1719620



Location		Owner Information		Assessment History	
Situs Address Tax Area 16OUT_NR - 16OUT_NR Parcel Number 4-015-166-181-137 Legal Summary S: 21 T: 28S R: 3E Deed Holder Neighborhood 110 - SANTA-TERESA		Owner Name BOOMERANG JOINT VENTURE In Care Of Name KELEHER & MCLEOD Owner Address PO BOX AA ALBUQUERQUE, NM 87103		Actual (2020) \$168,600 Primary Taxable \$56,200 Tax Area: 16OUT_NR Mill Levy: 32.062000	
				Type	Actual Assessed Acres
				Non-Residential Land	\$168,600 \$56,200 33.720

Transfers			
Record Sequence	Reception Number	Book Page	Sale Date
11	1424308		
10	1424307		
9	007962		04/07/2000
8	9615209		06/24/1996
7	0411599		04/06/2004
6	0411062		04/06/2004
5	8610005		05/22/1986
4	8610004		05/22/1986
3	8306137		06/03/1983
2	8306134		05/31/1983
1	7512163	B: 234 P: 167-173	12/02/1975

Tax Year			Taxes		Images
*2020			\$1,872.76		GIS 
2019			\$1,872.76		

* Estimated

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.

EG1 and EG2 will continue to operate as emergency engines under the EPA RICE NESHAP (40 CFR 63 Subpart ZZZZ) as per 60.6640(f). This subsection allows for 100 hours of non-emergency use including testing and maintenance and 50 of those hours for emergency demand response use provided the following 5 conditions in 60.6640(f)(4)(ii) are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

The El Paso Electric emergency demand response program meets these five conditions. This program will be called for up to 50 hours per year from June 1 through September 30 from 1 pm to 7 pm on non-weekend/holidays for up to 10 events per year. The engines are currently exempt from requiring a NMED air permit because they are operating as emergency engines under 20.2.72.202(B)(3). Because 202(B)(3) does not allow for the 50 hours of emergency demand response, this permit application is being submitted. In addition to testing, maintenance, emergency demand response use, the engines will also be used “during the unavoidable loss of commercial utility power” as per 202(B)(3)(a).

The Facility also operates two natural gas boilers (B1 and B2) in addition to an exempt hot water heater. Only one boiler operates at a time.

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):

EG1, EG2, B1 and B2

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 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/>

STATE REGULATIONS:

<u>STATE REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	If subject, this would normally apply to the entire facility. 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. Title V applications, see exemption at 20.2.3.9 NMAC The TSP NM ambient air quality standard was repealed by the EIB effective November 30, 2018.
20.2.7 NMAC	Excess Emissions	Yes	Facility	If subject, this would normally apply to the entire facility. If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. This would not apply to Notices of Intent since these are not permits.
20.2.23 NMAC	Fugitive Dust Control	No	Facility	This regulation may apply if, this is an application for a notice of intent (NOI) per 20.2.73 NMAC, if the activity or facility is a fugitive dust source listed at 20.2.23.108.A NMAC, and if the activity or facility is located in an area subject to a mitigation plan pursuant to 40 CFR 51.930. http://164.64.110.134/parts/title20/20.002.0023.html As of January 2019, the only areas of the State subject to a mitigation plan per 40 CFR 51.930 are in Doña Ana and Luna Counties. Sources exempt from 20.2.23 NMAC are activities and facilities subject to a permit issued pursuant to the NM Air Quality Control Act, the Mining Act, or the Surface Mining Act (20.2.23.108.B NMAC). 20.2.23.108 APPLICABILITY: A. This part shall apply to persons owning or operating the following fugitive dust sources in areas requiring a mitigation plan in accordance with 40 CFR Part 51.930: (1) disturbed surface areas or inactive disturbed surface areas, or a combination thereof, encompassing an area equal to or greater than one acre; (2) any commercial or industrial bulk material processing, handling, transport or storage operations. B. The following fugitive dust sources are exempt from this part: (1) agricultural facilities, as defined in this part; (2) roadways, as defined in this part; (3) operations issued permits pursuant to the state of New Mexico Air Quality Control Act, Mining Act or Surface Mining Act; and (4) lands used for state or federal military activities. [20.2.23.108 NMAC - N, 01/01/2019]
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No		This regulation does not apply to internal combustion equipment such as engines. It only applies to external combustion equipment such as heaters or boilers. 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	No		This regulation does not apply to internal combustion equipment such as engines. It only applies to external combustion equipment such as heaters or

STATE REGULATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
				boilers. 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	No		This regulation could apply to existing (prior to July 1, 1974) or new (on or after July 1, 1974) natural gas processing plants that use a Sulfur Recovery Unit to reduce sulfur emissions. See ‘Guidance and Clarification Regarding Applicability of 20.2.35 NMAC’ located with the Air Quality Bureau’s Permit Section website guidance documents.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.
20.2.38 NMAC	Hydrocarbon Storage Facility	No		This regulation could apply to storage tanks at petroleum production facilities, processing facilities, tanks batteries, or hydrocarbon storage facilities.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No		This regulation could apply to sulfur recovery plants that are not part of petroleum or natural gas processing facilities.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	EG1, EG2, B1, B2	This regulation that limits opacity to 20% applies to Stationary Combustion Equipment, such as engines, boilers, heaters, and flares unless your equipment is subject to another state regulation that limits particulate matter such as 20.2.19 NMAC (see 20.2.61.109 NMAC). If equipment at your facility was subject to the repealed regulation 20.2.37 NMAC it is now subject to 20.2.61 NMAC.
20.2.70 NMAC	Operating Permits	No	Facility	If subject, this would normally apply to the entire facility. Applies if your facility’s potential to emit (PTE) is 100 tpy or more of any regulated air pollutant other than HAPs; and/or a HAPs PTE of 10 tpy or more for a single HAP or 25 or more tpy for combined HAPs; is subject to a 20.2.79 NMAC nonattainment permit; or is a facility subject to a federal regulation that requires you to obtain a Title V permit such as landfills or air curtain incinerators. Include both stack and fugitive emissions to determine the HAP’s PTE regardless of the facility type. If your facility is one of those listed at 20.2.70.7(2)(a) through (aa) state which source type your facility is and count both fugitive and stack emissions to determine your PTE. If your facility is not in this (a) through (aa) list, count only stack emissions to determine your PTE. Landfills and Air Curtain Incinerators are not Title V Major Sources, but it would apply pursuant to 20.2.70.200.B NMAC.
20.2.71 NMAC	Operating Permit Fees	No	Facility	If subject to 20.2.70 NMAC and your permit includes numerical ton per year emission limits, you are subject to 20.2.71 NMAC and normally applies to the entire facility.
20.2.72 NMAC	Construction Permits	Yes	Facility	If subject, this would normally apply to the entire facility. Could apply if your facility’s potential emission rate (PER) is greater than 10 pph or greater than 25 tpy for any pollutant subject to a state or federal ambient air quality standard (does not include VOCs or HAPs); if the PER of lead is 5 tpy or more; if your facility is subject to 20.2.72.400 NMAC; or if you have equipment subject to 40 CFR 60 Subparts I and OOO, 40 CFR 61 Subparts C and D. Include both stack and fugitive emissions to determine PER.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	No	Facility	If subject, this would normally apply to the entire facility. A Notice of Intent application 20.2.73.200 NMAC could apply if your facility’s PER of <u>any</u> regulated air pollutant, including VOCs and HAPs, is 10 tpy or more or if you have lead emissions of 1 tpy or more. Include both fugitive and stack emissions to determine your PER.

<u>STATE REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
				You could be required to submit Emissions Inventory Reporting per 20.2.73.300 NMAC if your facility is subject to 20.2.73.200, 20.2.72, or emits more than 1 ton of lead or 10 tons of PM10, PM2.5, SOx, NOx CO, or VOCs in any calendar year. All facilities that are a Title V Major Source as defined at 20.2.70.7.R NMAC, are subject to Emissions Inventory Reporting.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	Facility	<p>If subject, this would normally apply to the entire facility.</p> <p>If you are an existing PSD major source you are subject to the applicability determination requirements at 20.2.74.200 NMAC to determine if you are subject to a PSD permit, before commencing actual construction of any modifications at your facility. Complete the applicability determination in Section 12 of the application.</p> <p>If you are constructing a new PSD major source or are proposing a major modification to an existing PSD major source, you must obtain a PSD permit. Minor NSR Exemptions at 20.2.72.200 NMAC nor Title V Insignificant Activities do not apply to the PSD permit regulation.</p> <p>Choose which applies and delete the rest. See NMACS 20.2.74.7.AE and AG Major Modification and Major Stationary Source, 20.2.74.200 Applicability, and 20.2.74.201 Exemptions.</p> <p>20.2.74.7.AG(1) A 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 stack and fugitive emissions (as defined) of any regulated air pollutant; or</p> <p>20.2.74.7.AG(2) A stationary source not listed in Table 1 of this Part (20.2.74.501 NMAC) and which emits or has the potential to emit stack emissions of two hundred fifty (250) tons per year or more of any regulated pollutant; or</p> <p>20.2.74.7.AG(3) A physical change that would occur at a stationary source not otherwise qualifying under paragraphs (1) or (2) of subsection if the change would constitute a major stationary source by itself (e.g. an increase of 250 tpy or more); or</p> <p>20.2.74.300.D a source or modification that becomes a major stationary source or major modification solely due to a relaxation in any enforceable limitation established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then this part shall apply to the source or modification as through construction had not yet commenced.</p> <p>20.2.74.200.7.AG(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.</p>
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	<p>If subject, this would apply to the entire facility. It is not necessary to include each low level regulatory citation for this regulation. This regulation applies if you are submitting an application pursuant to 20.2.72, 20.2.73, 20.2.74, and/or 20.2.79 NMAC.</p> <p>If this is a 20.2.73 NMAC application it is subject to the filing fee at 20.2.75.10 NMAC. If this is a 20.2.72, 20.2.74, and/or 20.2.79 NMAC application it is subject to 20.2.75.10, 11 permit fee, and 11.E annual fees. You are not subject to the 75.11.E annual fees if you are subject to 20.2.71 NMAC.</p>
20.2.77 NMAC	New Source Performance	No	Units subject to 40 CFR 60	This is a stationary source which is subject to the requirements of 40 CFR Part 60.

STATE REGULATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61.
20.2.79 NMAC	Permits – Nonattainment Areas	No	Facility	<p>If subject, this would normally apply to the entire facility.</p> <p>If you are an existing nonattainment major source pursuant to 20.2.79.7.V NMAC you are subject to the applicability determination requirements at 20.2.79.109 NMAC to determine if you are subject to a nonattainment permit, before commencing actual construction of any modifications at your facility.</p> <p>If you are constructing a new nonattainment major source or are proposing a major modification to an existing nonattainment major source, you must obtain a nonattainment permit.</p> <p>Minor NSR Exemptions at 20.2.72.200 NMAC nor Title V Insignificant Activities do not apply to the nonattainment permit regulation.</p> <p>Choose which applies and delete the rest. See NMACS 20.2.79.7.U Major Modification and 7.V Major Stationary Source.</p> <p>20.2.79.109.A(1) A major stationary source or major modification that will be located within a nonattainment area so designated pursuant to Section 107 of the Federal Act and will emit a pollutant subject to a National Ambient Air Quality Standard for which it is major and which the area is designated nonattainment; or</p> <p>20.2.79.109.A(2) A major stationary source or major modification that will be located within an area designated attainment or unclassifiable pursuant to Section 107 of the Federal Act and will emit a regulated pollutant subject to a National Ambient Air Quality Standard 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.</p>
20.2.80 NMAC	Stack Heights	No		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	EG1, EG2	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63.

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

FEDERAL REGULATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	<p>If subject, this would normally apply to the entire facility.</p> <p>This applies if you are subject to 20.2.70, 20.2.72, 20.2.74, and/or 20.2.79 NMAC.</p>
NSPS 40 CFR 60, Subpart A	General Provisions	No	Units subject to 40 CFR 60	Applies if any other Subpart in 40 CFR 60 applies.

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for Electric Utility Steam Generating Units	No		Establishes PM, SO ₂ and NO _x emission limits/standards of performance for Unit XXX . The duct burner (unit # XXX) has a XXXX MMBtu/hr heat input, which exceeds the 250 MMBtu/hr threshold. Construction commenced XXXX , after the 9/18/1978 applicability date.
NSPS 40 CFR60.40b Subpart Db	Electric Utility Steam Generating Units	No		(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). Establishes NO _x emission limit for Unit XXX . The boiler (unit XXX) has a XXX MMBtu/hr heat input, which exceeds the 100 MMBtu/hr threshold. Construction commenced 1980 and the boiler was modified in XXXX , after the 6/19/1984 applicability date.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial- Commercial- Institutional Steam Generating Units	No		Applicability: facility has steam generating units for which construction, modification or reconstruction is commenced after June 9, 1989 and that have a maximum design heat input capacity of 29 MW (100 MMBtu/hr) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr). This regulation applies to units XXX, X, XX, and XXX .
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	No		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
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	No		This facility has storage vessels, emission units XXX with a capacity greater than or equal to 75 cubic meters (m ³) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. Note: This regulation has several exceptions. See link 40 CFR 60 Subpart Kb
NSPS 40 CFR 60.330 Subpart GG	Stationary Gas Turbines	No		Units x,y,z have a heat input = x Btu/hour which is greater than the 10 MMBtu/hour threshold. These units were installed on x which is before/after the October 3, 1977 applicability date. (For information on equipment manufactured before but installed at facility after see EPA Guidance document # 0300006)

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from Onshore Gas Plants	No		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	No		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 for which construction, modification or reconstruction commenced after August 23, 2011 and before September 18, 2015	No		EPA Guidance Page: https://www3.epa.gov/airquality/oilandgas/ 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 refractured wells, centrifugal compressors, reciprocating compressors, pneumatic controllers, certain equipment at natural gas processing plants, sweetening units at natural gas processing plants, and storage vessels. 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). If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. 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 OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015	No		See 60.536 EPA Guidance Page: https://www3.epa.gov/airquality/oilandgas/0a
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	No		See 60.4200 and EPA Region 1’s Reciprocating Internal Combustion Guidance website.
NSPS 40 CFR Part 60 Subpart	Standards of Performance for Stationary Spark Ignition Internal	No		See 40 CFR 60.4230 and EPA Region 1’s Reciprocating Internal Combustion Guidance website.

FEDERAL REGULATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
JJJJ	Combustion Engines			
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No		See 60.5508
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No		See 60.5700
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No		See 60.30c, 60.30f, 60.750, and/or 60.760
NESHAP 40 CFR 61 Subpart A	General Provisions	No	Units Subject to 40 CFR 61	Applies if any other Subpart in 40 CFR 61 applies.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for Mercury	No		The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge
NESHAP 40 CFR 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	No		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	EG1, EG2	Applies if any other Subpart in 40 CFR 63 applies.
MACT 40 CFR 63.760 Subpart HH	Oil and Natural Gas Production Facilities	No		Choose all that apply: This facility is Subject to the requirements of 40 CFR 63 Subpart HH Dehydrators X, X have no control requirements because { }.- however, they are subject to HH recordkeeping and reporting. Facility was major for HAPS in Permit PXXX issued June X, 200X . Once in always in.
MACT 40 CFR 63 Subpart HHH		No		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

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No		See 63.7480 EPA Guidance Page: https://www.epa.gov/boilers
MACT 40 CFR 63 Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit	No		See 63.9980 (known as the MATs rule) EPA Guidance Page: https://www.epa.gov/boilers
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Yes	EG1 and EG2	See 63.6580 and EPA Region 1's Reciprocating Internal Combustion Guidance website. The facility is an area source of HAPs and operates EG1 and EG2 as emergency engines as per 63.6640(f). 6640(f)(2) allows up to 100 hours per calendar year for non-emergency situations. 6640(f)(4)(ii) allows up to 50 hours of operation in non-emergency situations for emergency demand response. The El Paso Demand Response Program meets the five conditions in 6640(f)(4)(ii)(A) thru (E).
40 CFR 64	Compliance Assurance Monitoring	No		Applies only to Title V Major Sources Emissions for Unit XX are major in and of itself (XXXX TPY SO ₂). 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).
40 CFR 68	Chemical Accident Prevention	No		If subject, this would normally apply to the entire facility. An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under §68.115, See 40 CFR 68
Title IV – Acid Rain 40 CFR 72	Acid Rain	No		See 40 CFR 72.6. This may apply if your facility generates commercial electric power or electric power for sale.
Title IV – Acid Rain 40 CFR 73	Sulfur Dioxide Allowance Emissions	No		See 40 CFR 73.2. This may apply if your facility generates commercial electric power or electric power for sale.
Title IV-Acid Rain 40 CFR 75	Continuous Emissions Monitoring	No		See 40 CFR 75.2. This may apply if your facility generates commercial electric power or electric power for sale.

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
Title IV – Acid Rain 40 CFR 76	Acid Rain Nitrogen Oxides Emission Reduction Program	No		See 40 CFR 76.1. This may apply if your facility generates commercial electric power or electric power for sale.
Title VI – 40 CFR 82	Protection of Stratospheric Ozone	No	N/A	<p>EPA Guidance Page for 40 CFR 82: https://www.epa.gov/section608</p> <p>40 CFR 82 may apply if you:</p> <p>(40 CFR 82.1 and 82.100) produce, transform, destroy, import or export a controlled substance or import or export a controlled product;</p> <p>(40 CFR 82.30) if you perform service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner;</p> <p>(40 CFR 82.80) if you are a department, agency, and instrumentality of the United States subject to Federal procurement requirements;</p> <p>(82.150) if you service, maintain, or repair appliances, dispose of appliances, refrigerant reclaimers, if you are an owner or operator of an appliance, if you are a manufacturer of appliances or of recycling and recovery equipment, if you are an approved recycling and recovery equipment testing organization, and/or if you sell or offer for sell or purchase class I or class I refrigerants.</p> <p>Note: Owners and operators of appliances subject to 40 CFR 82.150 Recycling and Emissions Reduction have recordkeeping and reporting requirements even if the owner/operator is not performing the actual work.</p> <p>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.</p>

Section 14

Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

- Title V Sources** (20.2.70 NMAC): By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies** defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown** defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- Title V** (20.2.70 NMAC), **NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.
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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).

EG1, EG2, B1, and B2 are existing sources. There are no anticipated alternative operating scenarios for any of these sources.

Section 16

Air Dispersion Modeling

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

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

Check each box that applies:

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

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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

To save paper and to standardize the application format, delete this sentence and the samples in the Compliance Test History Table, and begin your submittal for this attachment on this page.

Compliance Test History Table

Unit No.	Test Description	Test Date
EG1, EG2, B1, B2	None	

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.

None

Section 22: Certification

Company Name: Stampede Meat, Inc.

I, Lee Koepke, 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 28 day of August, 2020, upon my oath or affirmation, before a notary of the State of

New Mexico

Lee Koepke
*Signature

8/28/20
Date

Lee Koepke
Printed Name

Director of Operations
Title

Scribed and sworn before me on this 28 day of August, 2020

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

10 day of 18, 2021

Elizabeth Lopez
Notary's Signature

8/28/2020
Date

ELIZABETH LOPEZ
Notary's Printed Name



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

Universal Application 4

Air Dispersion Modeling Report

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

16-A: Identification		
1	Name of facility:	Stampede Meat, Inc
2	Name of company:	Stampede Meat, Inc
3	Current Permit number:	
4	Name of applicant's modeler:	Vincent Tino, CCM. Epsilon Associates, Inc. Maynard, MA
5	Phone number of modeler:	978-897-7100 (774-306-6046 cell)
6	E-mail of modeler:	vtino@epsilonassociates.com

16-B: Brief		
1	Was a modeling protocol submitted and approved?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2	Why is the modeling being done?	Other (describe below)
3	Describe the permit changes relevant to the modeling. Permit to allow up to 50 hours per year from June 1 to September 30 from 1 pm to 7 pm on non-weekend/holidays out of the allowed 100 hours for testing/maintenance for emergency demand response use of the two emergency generators	
4	What geodetic datum was used in the modeling?	WGS84
5	How long will the facility be at this location?	Indefinitely
6	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Identify the Air Quality Control Region (AQCR) in which the facility is located	153

8	List the PSD baseline dates for this region (minor or major, as appropriate).		
	NO2	8/2/1995	
	SO2	Not established	
	PM10	7/12/2000 per E. Peters (website says 6/16/2000)	
	PM2.5	Not Established	
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).		
	N/A		
10	Is the facility located in a non-attainment area? If so describe below	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Sunland Park Ozone Nonattainment area		
11	Describe any special modeling requirements, such as streamline permit requirements.		
	N/A		

16-C: Modeling History of Facility

1	Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQs), and PSD increments modeled. (Do not include modeling waivers).			
	Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
	CO			
	NO ₂			
	SO ₂			
	H ₂ S			
	PM2.5			
	PM10			
	TSP			
	Lead			
	Ozone (PSD only)			
NM Toxic Air Pollutants (20.2.72.402 NMAC)				

16-D: Modeling performed for this application

1	For each pollutant, indicate the modeling performed and submitted with this application. Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.					
	Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
	CO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	NO ₂	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	SO ₂	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

H ₂ S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PM _{2.5}	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PM ₁₀	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TSP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ozone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State air toxic(s) (20.2.72.402 NMAC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

16-E: New Mexico toxic air pollutants modeling

1	List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application. Benzene					
2	List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.					
	Pollutant	Emission Rate (pounds/hour)	Emission Rate Screening Level (pounds/hour)	Stack Height (meters)	Correction Factor	Emission Rate/Correction Factor
	N/A					
	N/A					

16-F: Modeling options

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	N/A		

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	6/10/2020
2	If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.	
	AQB Source ID	Description of Corrections
	10056	NOX emissions based on actual emissions, not permitted allowable
	10070	NOX emissions based on 50TPY permit limit
	10056	PM10 emissions based on actual emissions, not permitted allowable
	10057	PM10 emissions based on actual emissions, not permitted allowable
	10009	PM10 emissions based on 71.25 TPY as shown in NMED Modeling guidance
10070	PM10 emissions based on 71.25 TPY as shown in NMED Modeling guidance	

16-H: Building and structure downwash

1	How many buildings are present at the facility?	3		
2	How many above ground storage tanks are present at the facility?	0		
3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	N/A			
4	Building comments	Generator enclosures included as buildings. Also nearby fire station included as generator stacks are possibly within 5L of fire station.		

16-I: Receptors and modeled property boundary

1	<p>“Restricted Area” is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility.</p> <p>Describe the fence or other physical barrier at the facility that defines the restricted area.</p>					
	No Fence					
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
3	Are restricted area boundary coordinates included in the modeling files?		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
4	Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.					
	Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments
	Nested Cartesian		Varies	0	5km to 30km	See description in report
5	Describe receptor spacing along the fence line.					
	N/A					
6	Describe the PSD Class I area receptors.					
	N/A					

16-J: Sensitive areas

1	Are there schools or hospitals or other sensitive areas near the facility? If so describe below. This information is optional (and purposely undefined) but may help determine issues related to public notice.		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Santa Teresa High School is roughly 0.5 miles west of the Facility			

3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
---	--	------------------------------	--

16-K: Modeling Scenarios												
1	Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).											
	Single case - maximum engine load											
2	Which scenario produces the highest concentrations? Why?											
	Highest emission rate											
3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>									
4	If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.) Sources:EG1, EG2											
5		Hour of Day	Factor	Hour of Day	Factor							
		1	0.00	13	1.00							
		2	0.00	14	1.00							
		3	0.00	15	1.00							
		4	0.00	16	1.00							
		5	0.00	17	1.00							
		6	0.00	18	1.00							
		7	0.00	19	1.00							
		8	0.00	20	0.00							
		9	0.00	21	0.00							
		10	0.00	22	0.00							
		11	0.00	23	0.00							
		12	0.00	24	0.00							
	If hourly, variable emission rates were used that were not described above, describe them below.											
	The above schedule is only used for the months of June, July, August, and September. All other months were set to all 0.00.											
6	Were different emission rates used for short-term and annual modeling? If so describe below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>									
	Annual emissions rates were based on a 500 hour per year operating restriction											

16-L: NO₂ Modeling	
1	Which types of NO ₂ modeling were used? Check all that apply.

	<input checked="" type="checkbox"/>	ARM2	
	<input type="checkbox"/>	100% NO _x to NO ₂ conversion	
	<input type="checkbox"/>	PVMRM	
	<input type="checkbox"/>	OLM	
	<input type="checkbox"/>	Other:	
2	Describe the NO ₂ modeling. ARM2 default		
3	Were default NO ₂ /NO _x ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	N/A		
4	Describe the design value used for each averaging period modeled. 1-hour: High eighth high Annual: One Year Annual Average		

16-M: Particulate Matter Modeling

1	Select the pollutants for which plume depletion modeling was used.			
	<input type="checkbox"/>	PM2.5		
	<input type="checkbox"/>	PM10		
	<input checked="" type="checkbox"/>	None		
2	Describe the particle size distributions used. Include the source of information. N/A			
3	Does the facility emit at least 40 tons per year of NO _x or at least 40 tons per year of SO ₂ ? Sources that emit at least 40 tons per year of NO _x or at least 40 tons per year of SO ₂ are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5.		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4	Was secondary PM modeled for PM2.5?		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.			
	NO _x (ton/yr)	SO ₂ (ton/yr)	[PM2.5] _{annual}	[PM2.5] _{24-hour}
	N/A	N/A	N/A	N/A

16-N: Setback Distances

1	Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.
---	--

	N/A
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.
	N/A

16-O: PSD Increment and Source IDs

1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Unit Number in UA-2	Unit Number in Modeling Files	
2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4	Which units consume increment for which pollutants?		
	Unit ID	NO ₂	SO ₂
5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).		
6	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

16-P: Flare Modeling

1	For each flare or flaring scenario, complete the following			
	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)
	N/A	N/A	N/A	N/A

16-Q: Volume and Related Sources

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
---	---	------------------------------	--

	If not please explain how increment consumption status is determined for the missing installation dates below.		
	N/A		
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
	N/A		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		
	N/A		
4	Describe any open pits.		
	N/A		
5	Describe emission units included in each open pit.		
	N/A		

16-R: Background Concentrations

1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	CO: N/A		
	NO ₂ : Sunland Park (350130021)		
	PM2.5: Sunland Park (350130021)		
	PM10: Sunland Park (350130021)		
	SO ₂ : N/A		
	Other:		
	Comments:		
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	N/A		

16-S: Meteorological Data

1	Was NMED provided meteorological data used? If so select the station used.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Desert View 2015-2019		
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		
	N/A		

16-T: Terrain			
1	Was complex terrain used in the modeling? If not, describe why below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	N/A		
2	What was the source of the terrain data?		
	USGS NED		

16-U: Modeling Files			
1	Describe the modeling files: Modeling was performed using Lakes AERMODView V9.9. Standard file suffix nomenclature was used. File directories are self-explanatory by requirement and pollutant		
	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
	*.ADI	all	AERMOD input files
	*.ADO	all	AERMOD output files

16-V: PSD New or Major Modification Applications			
1	A new PSD major source or a major modification to an existing PSD major source requires additional analysis.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?		
2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
	N/A		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
	N/A		

5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A			

16-W: Modeling Results										
1		If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.					Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>	
		N/A								
2		Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.								
Pollutant, Time Period and Standard	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (ft)

16-X: Summary/conclusions

1	A statement that modeling requirements have been satisfied and that the permit can be issued.
	Modeling methodology and results are provided in the attached report. Modeling shows that all regulatory requirements are satisfactorily met, and a permit should be issued.

Air Dispersion Modeling Analysis

Stampede Meat, Inc. Santa Teresa, New Mexico El Paso Load Management Program

Submitted to:

New Mexico Environmental Department
Harold L. Runnels Building
1190 St. Francis Drive, Suite N4050
Santa Fe, New Mexico 87505

Submitted by:

Stampede Meat, Inc.
5700 McNutt Road
Santa Teresa, New Mexico 88008

Prepared by:

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August 4, 2020

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1 INTRODUCTION

Stampede Meat, Inc. operates a meat processing facility located at 5700 McNutt Road in Santa Teresa (the Facility). The Facility is in the process applying to the New Mexico Environment Department (NMED) to allow the use of their two (2) 2000 kilowatt (ekW) diesel generator-engine sets to participate in the El Paso Load Management Program. This program is an emergency demand response program that meets the five conditions of 40 CFR 60.6640(f)(4)(ii)(A) thru (E) that allows up to 50 hours per year of the 100 hours per year allowed for testing/maintenance of emergency engines under the EPA's Reciprocating Internal Combustion Engine (RICE) National Emission Standards for Hazardous Air Pollutants (NESHAP). The DR Program only operates from June 1 through September 30 from 1 pm to 7 pm on non-weekends/holidays. The engines are each compression ignition (CI), commenced construction prior to June 12, 2006, and the site is an area source of hazardous air pollutants. Thus, the engines will continue to operate as emergency engines under the RICE NESHAP. Because the NMAC definition of emergency does not include emergency demand response, a New Source Review (NSR) permit is required. A streamline permit cannot be obtained because the site is near a school. Thus, an air quality modeling analysis is required for the NSR permit application.

There are also two small natural gas fired boilers and an exempt hot water boiler at the Facility. The air quality impact analysis was performed to include the two 2000 kW units and the boilers.

This report outlines the procedures that were used in and the results of the air quality analysis.

1.1 Regulatory Applicability

The requirements to perform air dispersion modeling are detailed in New Mexico Administrative Code (NMAC) 20.2.70.300.D.10 NMAC (Operating Permits), 20.2.72.203.A.4 NMAC (Construction Permits), and 20.2.74.305 NMAC (Permits - Prevention of Significant Deterioration), and 20.2.79 NMAC (Nonattainment).

For new minor source permits, a demonstration of compliance with air quality standards, PSD increments, and toxic air pollutants subject to 20.2.72.403.A(2) is required for all pollutants emitted by the Facility.

1.2 Modeling Waivers

In some cases, the demonstration that ambient air quality standards and PSD increments will not be violated can be satisfied with a discussion of previous modeling, or if emissions are significantly small. NMED has performed generic modeling to demonstrate that small sources do not need modeling. If either applies, then the modeling waiver form may be submitted to request approval of a modeling waiver. NMED will determine on a case-by-case basis if the modeling waiver can be granted. The waiver discussion and written waiver approval should be included in the modeling section of the application.

Based on calculated emissions, a waiver requesting that modeling of CO, SO₂, Lead, and most toxics need not be performed was submitted. The waiver form has been approved by NMED. Therefore, only NO₂,

PM10, PM2.5, and benzene are addressed in this analysis. The approved waiver is included as an attachment.

2 NATIONAL AMBIENT AIR QUALITY STANDARDS AND BACKGROUND CONCENTRATIONS

Background air quality concentrations and federal air quality standards were utilized to conduct the air quality impact analyses. Specifically, the emissions associated with the Project were added to monitored background values and compared to the Federal or New Mexico National Ambient Air Quality Standards (NAAQS/NMAAQS). These standards were developed by to protect the human health against adverse health effects with a margin of safety. The modeling methodologies are developed in accordance with the latest NMED modeling guidance¹ and Federal modeling guidelines.² The following sections outline the NAAQS standards and detail the sources of background air quality data.

2.1 National Ambient Air Quality Standards

The 1970 Clean Air Act was enacted by the U.S. Congress to protect the health and welfare of the public from the adverse effects of air pollution. As required by the Clean Air Act, U.S. EPA promulgated National Ambient Air Quality Standards (NAAQS) for the following criteria pollutants: nitrogen dioxide (NO₂) and particulate matter (PM₁₀ and PM_{2.5}). The NAAQS are listed in **Table 1**. NMED also reports its own standards for various pollutants in its modeling guidelines to account for the conversion of standards in ppm to µg/m³ due to the decreased surface pressure of its elevated terrain.

Table 1 National and New Mexico Ambient Air Quality Standards

Pollutant	Averaging Period	NAAQS (µg/m ³)		NMAAQS (µg/m ³) Primary
		Primary	Secondary	
NO ₂	Annual ⁽¹⁾	100	Same	94.02
	24-Hr ⁽⁵⁾	None	None	188.03
	1-Hr ⁽²⁾	188	None	188.03
PM _{2.5}	Annual ⁽¹⁾	12	15	12
	24-Hr ⁽³⁾	35	Same	35
PM ₁₀	24-Hr ⁽⁴⁾	150	Same	150

⁽¹⁾ Not to be exceeded.

⁽²⁾ 98th percentile of one-hour daily maximum concentrations, averaged over three years.

⁽³⁾ 98th percentile, averaged over three years.

⁽⁴⁾ Not to be exceeded more than once per year on average over three years. Also shown as the H6H when modeling 5 years of meteorological data.

⁽⁵⁾ Demonstration of compliance with the 1-hour standard is automatically a demonstration of compliance with the 24-hour NMAAQS.

Source: <http://www.epa.gov/ttn/naaqs/criteria.html> and NMED Air Dispersion Modeling Guidelines

¹ New Mexico Air Quality Bureau. Air Dispersion Modeling Guidelines; Revised June 6, 2019

² 40 CFR 51 Appendix W, Guideline on Air Quality Models, 70 FR 68228, Jan 17, 2017

NAAQS specify concentration levels for various averaging times and include both “primary” and “secondary” standards. Primary standards are intended to protect human health, whereas secondary standards are intended to protect public welfare from any known or anticipated adverse effects associated with the presence of air pollutants, such as damage to vegetation. The most stringent of the standards were applied when comparing to the modeling results for this Project.

2.2 Prevention of Significant Deterioration

Prevention of Significant Deterioration (PSD) applicability determination is based on whether a source is a new major stationary source or if a modification to an existing source is considered a major modification. However, the PSD program also requires an assessment of minor source growth on increment consumption. An increment is the maximum allowed increase in SO₂, NO₂, PM₁₀, and PM_{2.5} concentrations above the baseline concentration in an area. New Mexico’s approach to tracking increment consumption from minor sources is to require every permitted source to demonstrate compliance with the existing increments regardless of its level of annual emissions. The PSD increments are listed in **Table 2**.

Table 2 Class II PSD Increments

<i>POLLUTANT</i>	<i>AVERAGING TIME</i>	<i>Form</i>	<i>Class II PSD Increment (µg/m³)</i>
PM10	24 HOUR ⁽²⁾	H2H	30
	ANNUAL ⁽¹⁾	H	17
PM2.5	24 HOUR ⁽²⁾	H2H	9
	ANNUAL ⁽¹⁾	H	4
NO₂	ANNUAL ⁽¹⁾	H	25
⁽¹⁾ Not to be exceeded			
⁽²⁾ Not to be exceeded more than once per year			

2.3 Significant Impact Levels

Significant Impact Levels (SILs) are used to determine if a new or modified stationary source may cause or contribute to a violation of the NAAQS or PSD increments. If a new or modified stationary source’s predicted impacts are greater than or equal to the SIL values listed in **Table 3**, then a cumulative impact analysis is required. A cumulative impact analysis considers other nearby sources within the Significant Impact Area (SIA) of the proposed or modified stationary source as well as existing ambient pollution background levels. Modeled impacts from a source of air pollution are considered significant if they equal or exceed the SIL values listed in **Table 3**.

Table 3 Significant Impact Levels

<i>POLLUTANT</i>	<i>AVERAGING TIME</i>	<i>Form of Value</i>	<i>Significant Impact Level ($\mu\text{g}/\text{m}^3$)</i>
PM10	24 HOUR ⁽²⁾	H	5.0
	ANNUAL ⁽³⁾	H	1.0
PM2.5	24 HOUR ⁽⁴⁾	H	1.2
	ANNUAL ⁽⁵⁾	H	0.2
NO₂	1 HOUR ⁽¹⁾	H	7.52
	24 HOUR ⁽⁵⁾	H	5.0
	ANNUAL	H	1.0

⁽¹⁾ Maximum 1st-Highest Maximum Daily 1-Hr Concentration Averaged Over 5 Years
⁽²⁾ Highest Concentration Over 5 Years
⁽³⁾ Highest Annual Concentration Over 5 Years
⁽⁴⁾ Maximum 1st-Highest 24-Hour Concentration Averaged Over 5 Years
⁽⁵⁾ Demonstration of compliance with the 1-hour is automatically a demonstration of compliance with the 24-hour NMAAQs.

2.4 Toxic Air Pollutants

Modeling must be provided for any toxic air pollutant sources that may emit any toxic pollutant in excess of the emission levels specified in 20.2.72.502 NMAC - Permits for Toxic Air Pollutants. Based on the emissions calculations of toxics from the Facility, it is determined that benzene is the only compound that exceeds the emission limits set forth in NMAC 20.2.72.502. Therefore, modeling of benzene is included in the analysis.

If modeling shows that the maximum eight-hour average concentration of all toxics is less than one percent of the Occupational Exposure Level (OEL) for that toxic, then the analysis of that toxic pollutant is finished.

The OEL for benzene is 0.200 mg/m³. Therefore, the modeled source concentration must be below 0.002 mg/m³ for the source to comply with the air toxics modeling requirements. There are no background values of toxic air pollutants to be added to the modeled concentration.

2.5 Background Air Quality

Ambient background concentrations are added to the source impacts to obtain total concentrations, which, in turn, are compared to the AAQS. Background concentrations are not used in SIL, PSD, or toxics comparisons.

Background concentrations were determined from the closest available monitoring stations to the project. The closest monitor to the Facility is at 5935A Valle Vista in Sunland Park, NM (PM10, PM2.5 and NO₂). All sites are managed by the NMED.

A summary of the background air quality concentrations is presented in **Table 4**.

Table 4 Observed Ambient Background Levels and Design Values

<i>POLLUTANT</i>	<i>AVERAGING TIME</i>	<i>Form</i>	<i>Location</i>	<i>NMED Background Concentration (µg/m³)</i>
PM10	24-Hour	H2H	5935A Valle Vista, Sunland Park, NM	73
PM2.5	24-Hour	98th %	5935A Valle Vista, Sunland Park, NM	24.3
	Annual	H	5935A Valle Vista, Sunland Park, NM	7.3
NO ₂	1-Hour	98th %	5935A Valle Vista, Sunland Park, NM	85.7
	Annual	H	5935A Valle Vista, Sunland Park, NM	12.5
Notes: From New Mexico Air Quality Bureau. Air Dispersion Modeling Guidelines; Revised June 6, 2019				

3 AIR QUALITY ANALYSIS

For new permits, a demonstration of compliance with air quality standards, PSD increments, and toxic air pollutants subject to 20.2.72.403.A(2) is required for all pollutants emitted by the Facility. The modeling options and inputs to be used are described herein.

3.1 Air Quality Model Selection

The U.S. EPA's AERMOD model (Version 19191) is selected to predict concentrations from the stationary sources related to the project. AERMOD is the U.S. EPA's preferred model for regulatory applications. The use of AERMOD provides the benefits of using the most current algorithms available for steady state dispersion modeling.

The AERMOD View graphical user interface (GUI) Version 9.9, created by Lakes Environmental, was used to facilitate model setup and post-processing of data. The AERMOD model is selected for this analysis because it:

- ◆ is the required U.S. EPA model for all refined regulatory analyses for receptors within 50 km of a source;
- ◆ is a refined model for facilities with multiple sources, source types, and building-induced downwash;
- ◆ uses actual representative hourly meteorological data;
- ◆ incorporates direction-specific building parameters which can be used to predict impacts within the wake region of nearby structures;
- ◆ allows the modeling of multiple sources together to predict cumulative downwind impacts, if needed;
- ◆ provides for variable emission rates;
- ◆ provides options to select multiple averaging periods between one-hour and one year (scaling factors can be applied to adjust the one-hour impact to a peak impact less than one-hour); and,
- ◆ allows the use of large Cartesian and polar receptor grids, as well as discrete receptor locations.

3.2 Modeling Options

Modeling was performed with all regulatory options set. Regulatory default options adopted for the model include:

Use stack-tip downwash (except for building downwash). Stack-tip downwash is an adjustment of the actual stack release height for conditions when the gas exit velocity is less than 1.5 times the wind speed. For these conditions, the effective release height is reduced a bit, based on the diameter of the stack and the wind and gas exit velocity. This option applies to point sources only, such as emergency generators.

Use the missing data and calms processing routines. The model treats missing meteorological data in the same way as the calms processing routine, i.e., it sets the concentration values to zero for that hour, and calculates the short term averages according to U.S. EPA's calms policy, as set forth in the Guideline on Air Quality Models (Appendix W to 40 CFR 51).

A complete description of the AERMOD dispersion model may be found in the AERMOD User's guide³ and the AERMOD model implementation guide.⁴

3.3 NO_x to NO₂ Conversion

Though the National Ambient Air Quality Standards (NAAQS) are based on NO₂ concentrations, most nitrogen oxides (NO_x) emissions are in the form of nitric oxide (NO) rather than NO₂. Oxides of nitrogen undergo chemical conversion with atmospheric ozone to form NO₂. U.S. EPA allows the use of the Ambient Ratio Method (ARM2) without prior approval from the regulatory agency. For this analysis, ARM2 with minimum and maximum NO₂/NO_x values of 0.5 and 0.9, respectively, were used.

3.4 Source Data

3.4.1 Emissions and Stack Parameters

The two Caterpillar generators are rated at 2000 kW electrical output at full standby load. The generator includes a turbocharged and intercooled 69L, V-16, 4-stroke-cycle diesel Model 3516 engine rated at 2,876 gross horsepower at full standby.

The two boilers are relatively small natural gas fired heating units. A Cleaver Brooks model CB-700-250 boiler is capable at running at 10.16 MMBtu/hr heat input while a Sellars 150 hp boiler is capable of 6.28

³ U.S. EPA, 2019: User's Guide for the AMS/EPA Regulatory Model – AERMOD. EPA-454/B-19-027. U.S. Environmental Protection Agency, Research Triangle Park, NC 27711.

⁴ U.S. EPA, 2019: AERMOD Implementation Guide. EPA-454/B-19-035. U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711.

MMBtu/hr heat input. Both units are in the main Facility building, roughly 450 feet (137 meters) from the Caterpillar generators.

The modeled IDs corresponding to the sources are shown in **Table 5**. Physical stack height and diameter were obtained via discussions with the client and are presented in **Table 6**.

Table 5 Modeled Source Descriptions

<i>ID</i>	<i>Description</i>	<i>Power Rating</i>
EG1 & EG2	Caterpillar 3516DITA Diesel RICE	2000 ekW output
B1	Cleaver Brooks CB-700-250 Natural Gas Boiler	10.16 MMBtu/hr input
B2	Sellars 150 hp Natural Gas Boiler	6.28 MMBtu/hr input

Table 6 Source Stack Physical Data

<i>Source ID</i>	<i>UTME ⁽¹⁾ [m]</i>	<i>UTMN⁽¹⁾ [m]</i>	<i>Base Elevation [m]</i>	<i>Release Height [m]</i>	<i>Gas Exit Temperature [K]</i>	<i>Gas Exit Velocity [m/s]</i>	<i>Inside Diameter [m]</i>
EG1	344631.9	3526237	1156.62	7.46	790.3	62.045	0.406
EG2	344635.9	3526229	1156.59	7.46	790.3	62.045	0.406
B1	344619.1	3526375	1154.85	9.27	449.8	5.7	0.597
B2	344619.1	3526372	1154.92	8.84	505.4	5.12	0.495

⁽¹⁾UTM zone 13R, WGS84

Emissions data were obtained from manufacturer performance data sheets and AP-42 for the engines and boilers. A summary of source parameter calculations including modeled emission rates is included in an Attachment.

Modeled emission rates which would be expected to comply with the operation and testing requirements in 40 CFR 60 Subpart IIII. However, for a minor source permit, the applicant can propose emission rates based on reputable data and sound engineering practice. The applicant would be required to meet all emission limits granted in the permit, regardless of manufacturer’s guaranteed limits or other regulatory limits.

The modeled emission rates are presented in **Table 7**.

Table 7 Per Unit Emission Rates

<i>Source ID</i>	<i>EG1 & EG2</i>		<i>B1</i>	<i>B2</i>
<i>Pollutant</i>	<i>Short Term (g/s)</i>	<i>Annual ⁽¹⁾ (g/s)</i>	<i>Short Term & Annual (g/s)</i>	<i>Short Term & Annual (g/s)</i>
NOx (as NO ₂)	4.9406	0.2820	0.12552	0.07755
PM10/PM2.5	0.1400	0.0080	0.00954	0.00589

Benzene	1.96E-03	N/A	2.64E-06	1.63E-06
Source: Manufacturer's data sheet, AP-42 (1) Based on 500 hours per year limit				

Figure 1 presents the Facility sources and receptor locations, as well as the buildings used in the GEP stack height/downwash analysis described below.

3.4.2 Proposed Restrictions

This permit application is for use that will allow the two generator-engine sets up to 500 hours of emergency use which includes 100 hours of testing/maintenance that will include up to 50 hours of emergency demand response use from June 1 through September 30 from 1 pm to 7 pm on non-weekends/holidays. Additionally, while the generators are being run, only one of the boilers will be run concurrently.

Modeling reflects the generator hours limit by using "EMISFACT" keyword in AERMOD by MONTH/HOUR/DAY OF WEEK. Using this option, modeling has essentially "turned off" the engines for all hours other than identified above. The boilers continue to run for 8760 hours per year.

To assess running only one boiler at a time with the generators, source groupings showing the two generators with each of the boilers were modeled. The higher of the two groups, the engines plus boiler #1, were conservatively compared to standards.

Annual concentrations were obtained using the generators' maximum hourly emission rate factored by 500/8760 with all hours modeled. This is slightly more conservative than modeling the maximum hourly rate for the permitted hours, since the schedule (6 hours per day, 5 days per week, for 16 weeks) provides for 480 hours, slightly less than 500.

3.4.3 Building Downwash

AERMOD requires direction specific building parameters to adequately incorporate the aerodynamic effects of buildings on plume dispersion. The most recent version (04274) of the Building Profile Input Program with the Prime downwash algorithms (BPIP-Prime) is used to calculate these parameters. BPIP-Prime uses the stack information, as well as the height information of nearby buildings to calculate the required heights, widths, and setbacks required to account for building downwash.

The property consists of a single large building. However, the generator enclosures, as well as the nearby fire station could influence dispersion. The generators are in the southeast corner of the property nearest to the fire station. It is expected that the building or enclosures could subject the stacks to aerodynamic influences that would affect the dispersion of the stack exhausts. Thus, the nearby buildings and the engine stacks are input into the BPIP Prime program to create direction-specific dimension inputs for the AERMOD model. Building tiers are shown in **Figure 1**.

3.4.4 Urban/Rural Determination

The AERMOD model is able to assign sources to a rural or urban category to allow specified urban sources to use the effects of increased surface heating under stable atmospheric conditions. The rural dispersion classification was selected based on a subjective visual inspection of the area within a three-kilometer radius of the Project site. The area within 3 km of the site is shown in **Figure 2**.

3.5 Receptors

A total of 3,396 receptors were modeled. All are in a nested grid encompassing 100 square kilometers and extending 5.5 kilometers in cardinal directions from the Facility. Receptor locations are shown in **Figure 3**.

To determine the Significant Impact Area of the 1-hour NO₂ SIL, the grid needed to be expanded. A total of 8,316 receptors extending out 35km in cardinal directions was used.

Receptor terrain elevations were included in the refined analysis, as is required for regulatory refined modeling. One-third arc-second terrain data were obtained from the U.S.G.S. National Map Seamless Server according to guidance set forth by U.S. EPA.⁵ Source, building, and receptor elevations were processed using the AERMAP (version 18081) processor by way of the Lakes AERMOD View interface.

3.6 Meteorological Data

On their website, NMED provides pre-processed meteorological data for input into the AERMOD model. The meteorological data required to run AERMOD includes five years of representative surface and upper air observations. The files labeled Desert View Elementary School in Sunland Park, located roughly 5.9 miles southeast of the Facility site were obtained.

According to a review of the provided files, surface data from El Paso International Airport (NWS Station number 23044) and twice-daily upper air soundings from the NWS office in Santa Teresa, NM for the years 2015 through 2019 have been processed into AERMOD-ready input files using version 19191 of AERMET. The U-star adjustment was used. A 0.3 m/s threshold was used in the processing.

Testing of the processed meteorological data found that the five-year period of 43,824 total hours, 27 calm hours (0.06%) were identified, and 854 (1.95%) missing hours were identified. Thus, these data should be deemed complete and representative for air quality modeling of the project site. Winds are

⁵ U.S. EPA, 2018: AERMOD Implementation Guide. EPA-454/B-18-003. U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711.

generally out of the south. A base elevation of 1176 meters, as provided on the NMED website for this data was used in the modeling.

A wind rose showing the distribution of wind speed and direction is presented in **Figure 4**.

3.7 Cumulative Source PSD Analysis Inputs

Any facility that is required to provide an air dispersion modeling analysis with its construction permit application is required to submit a PSD increment consumption analysis unless none of its sources consume PSD increment.

PSD analyses are required for any new emissions or increase in emissions after the PSD Minor Source Baseline date (for that AQCR and pollutant). The Facility is in Air Pollution Control Region #153. The minor source baseline dates are August 2, 1995 for NO₂, June 16, 2000 for PM₁₀, and has not been established for PM_{2.5}. All sources installed or modified after this date must be included in the analyses.

NMED provides a list of these sources, their modeling parameters, and emission rates. Modeling details are provided as an attachment.

4 RESULTS

4.1 SIL Results

The SIL modeling results are presented in **Table 8**. The SIL modeling includes only the demand response engines. Results of the modeling against the significant impact levels showed that the high 1-hr NO₂ value of 213.6 µg/m³ exceeds the SIL of 7.5 µg/m³. The extent at which the SIL is exceeded (SIA) is 29.7 km from the Facility demand response sources. The 1-hour NO₂ SIA is shown in **Figure 5**. The Annual NO₂ SIL of 1.0 µg/m³ is also exceeded at 1.41 µg/m³ with an SIA of 0.26 km as is the 24-hour PM2.5 SIL of 1.2 µg/m³ at 1.35 µg/m³ with an SIA of 0.18 km.

The Annual and 24-hour PM10 and annual PM2.5 SILs are not exceeded.

Table 8 SIL Modeling Results

<i>POLLUTANT</i>	<i>AVERAGING TIME</i>	<i>Form of Value</i>	<i>MAXIMUM MODELED CONCENTRATION (µg/m³)</i>	<i>Significant Impact Level (µg/m³)</i>	<i>% of SIL</i>	<i>Radius of Significant Impact Area (km)</i>
PM10	24-Hour ⁽²⁾	H	2.06	5.0	41%	N/A
	ANNUAL ⁽³⁾	H	0.04	1.0	4%	N/A
PM2.5	24-Hour ⁽⁴⁾	H	1.35	1.2	113%	0.182
	ANNUAL ⁽⁵⁾	H	0.04	0.2	18%	N/A
NO₂	1-Hour ⁽¹⁾	H	213.61	7.52	2841%	29.671
	24-Hour ⁽⁶⁾	H	N/A	5.0	0%	N/A
	ANNUAL	H	1.41	1.0	141%	0.264

Notes:
⁽¹⁾ Maximum 1st-Highest Maximum Daily 1-Hr Concentration Averaged Over 5 Years
⁽²⁾ Highest Concentration Over 5 Years
⁽³⁾ Highest Annual Concentration Over 5 Years
⁽⁴⁾ Maximum 1st-Highest 24-Hour Concentration Averaged Over 5 Years
⁽⁵⁾ Highest 5 year average annual concentration.
⁽⁶⁾ Demonstration of compliance with the 1-hour is automatically a demonstration of compliance with the 24-hour NMAAQS.

Based on the results of the SIL modeling, cumulative source impact analyses for 24-hour PM2.5 and 1-hour and annual NO₂ is required, combining modeled concentrations plus background and comparing to NAAQS. NMED allows the applicant to either use monitored background data or to include nearby sources as background. Since the PM10 and annual PM2.5 results are all below their respective SIL, they are considered to have no significant impact and are presumed to comply with the NAAQS/NMAAQS.

4.2 NAAQS Results

Modeled concentrations from Facility sources plus background concentrations must be less than the NAAQS/NMAAQS. Monitored background concentrations were used, rather than including nearby sources.

The highest 8th-highest 1-hour NO₂ concentration is at 98% of the standard.

The appropriate form of the 1-hour NO₂ standard is the 3-year average of the 98th percentile of the annual distribution of daily maximum 1-hour average concentrations. U.S. EPA guidance dictates the use of a single 5-year concurrent meteorological file in lieu of using three rolling 3-year files.⁶

The modeled 1-hour NO₂ value in the required form is 99.1 µg/m³, combined with a monitored background value of 85.7, produces a total concentration of 184.8, below the 1-hour NO₂ NMAAQs of 188.03 µg/m³.

The highest concentration Annual NO₂ modeled concentration is 13.03 µg/m³. With a monitored background value of 12.5 µg/m³ added, a total concentration of 25.5 µg/m³ is obtained, or 27% of the NMAAQs standard of 94.02 µg/m³.

The 24-hour PM_{2.5} modeled concentration is 1.8 µg/m³. Combined with a monitored background value of 24.3 µg/m³ a total concentration of 26.1 µg/m³ is obtained, or 75% of the applicable NAAQS.

The results of NAAQS modeling using AERMOD are presented in **Table 9**. These results include the two demand response engines and the larger of the two boilers. Results of the two engines and the smaller boiler are lower and not shown here.

Therefore, the Stampede generators and larger boiler, by themselves, do not cause an exceedance of the NAAQS or NMAAQs.

Table 9 NAAQS Results

<i>POLL.</i>	<i>AVERAGING TIME</i>	<i>Form of Value</i>	<i>MAXIMUM MODELED CONC. (µg/m³)</i>	<i>BACKGROUND CONC. (µg/m³)</i>	<i>TOTAL CONC. (µg/m³)</i>	<i>NAAQS or NMAAQs (µg/m³)</i>	<i>% of Standard</i>
PM_{2.5}	24 HOUR ⁽⁴⁾	H8H	1.80	24.3	26.1	35	75%
NO₂	1 HOUR ⁽²⁾	H8H	99.06	85.7	184.8	188.03	98%
	24 HOUR ⁽³⁾	H2H	N/A	0.0	0.0	188.03	0%
	ANNUAL ⁽¹⁾	H	13.03	12.5	25.5	94.02	27%

Notes:
⁽¹⁾ Highest Individual Annual Concentration Over 5 Years
⁽²⁾ Maximum 8th-Highest Maximum Daily 1-Hour Concentration Averaged Over 5 Years
⁽³⁾ Demonstration of compliance with the 1-hour standard is automatically a demonstration of compliance with the 24-hour NMAAQs.

⁶ U.S. EPA, 2011; Memorandum - Additional Clarification Regarding Application of Appendix W Modeling Guidance for the NO₂ National Ambient Air Quality Standard. U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711. March 1, 2011.

4.3 PSD Increment Results

To prevent relatively clean areas from degrading to levels just barely in compliance with the air quality standards, limits on the change have been established in the form of PSD increments. Compliance demonstrations for PSD increments demonstrate that the deterioration is less than the allowable increment.

Table 10 presents the results of the PSD modeling. The PSD modeling includes the two demand response engines, the larger of the boilers, and the PSD source inventory provided by NMED. Results of the modeling against the PSD increments showed that no modeled concentration exceeds the Class II PSD increment. Therefore, the source does not adversely affect increment consumption in the area.

Table 10 PSD Modeling Results

POLLUTANT	AVERAGING TIME	Form	MAXIMUM	Class II PSD	% of Increment
			MODELED CONCENTRATION (mg/m ³)		
PM10	24 HOUR ⁽²⁾	H2H	25.02	30	83.4%
	ANNUAL ⁽¹⁾	H	5.70	17	33.6%
PM2.5	24 HOUR ⁽²⁾	H2H	2.69	9	29.9%
	ANNUAL ⁽¹⁾	H	1.10	4	27.4%
NO ₂	ANNUAL ⁽¹⁾	H	12.38	25	49.5%

Note that the Annual NO₂ concentration for all PSD sources shown in **Table 10** (12.38 µg/m³) is smaller than the annual result for the Stampede sources alone shown in **Table 9** (13.03 µg/m³). This is due to three El Paso Electric sources in the PSD inventory obtained from NMED that have been decommissioned since the baseline trigger date. This allows the modeling of negative emission rates from these sources as “credit” to the PSD increment.

4.4 Toxics Results

As stated, the only toxic air pollutant that exceeds the emission limits set forth in NMAC 20.2.72.502 is Benzene. Using the emission rates stated in Section 3.4.1 for the facility sources, a maximum predicted 8-hour average concentration of 2.4e-4 mg/m³ is predicted. This concentration is less than 1% of the occupational exposure limit. Therefore, the Project is expected to comply with the requirements of the NMED for modeling of toxic air pollutants to support permit applications. The results of the comparison are presented in **Table 11**.

Table 11 Toxic Modeling Results

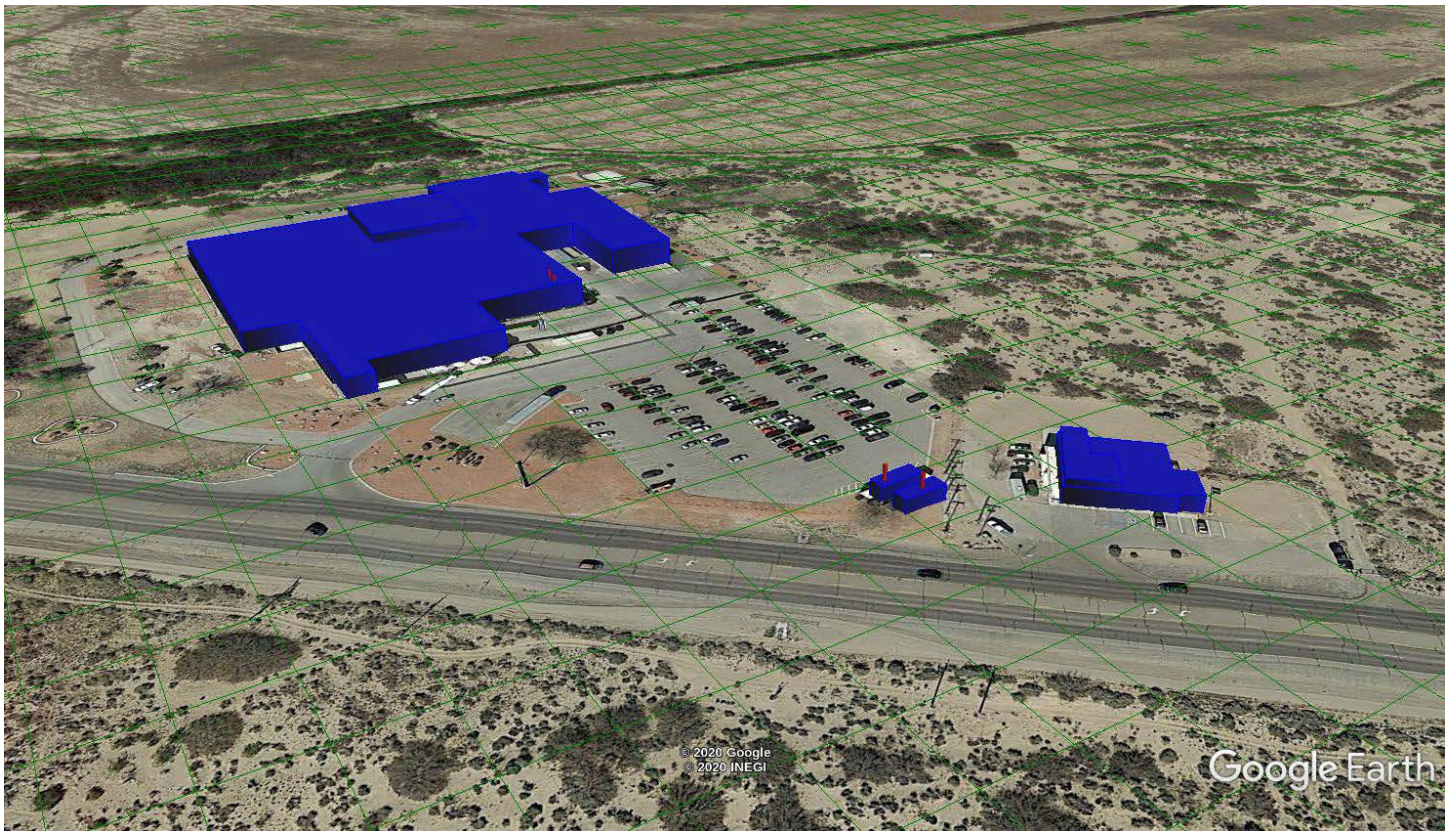
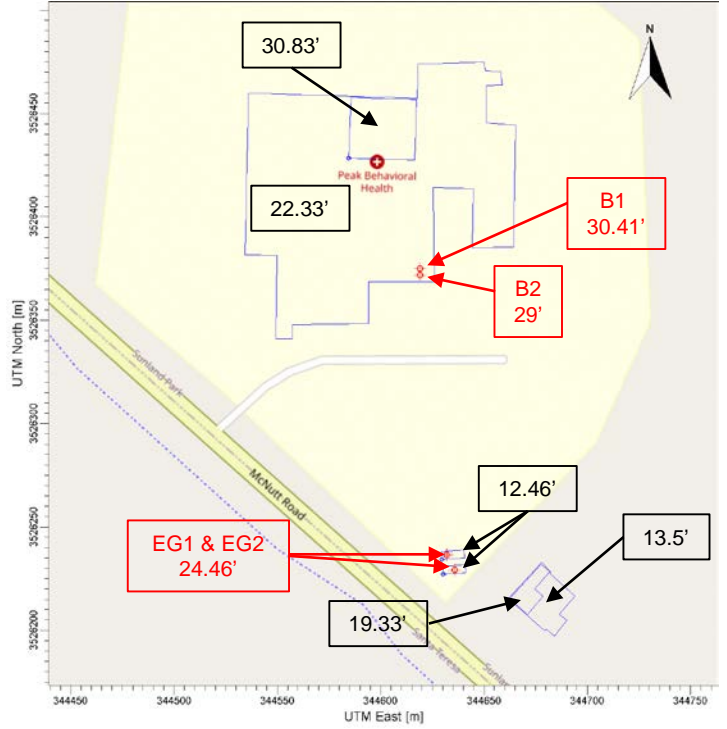
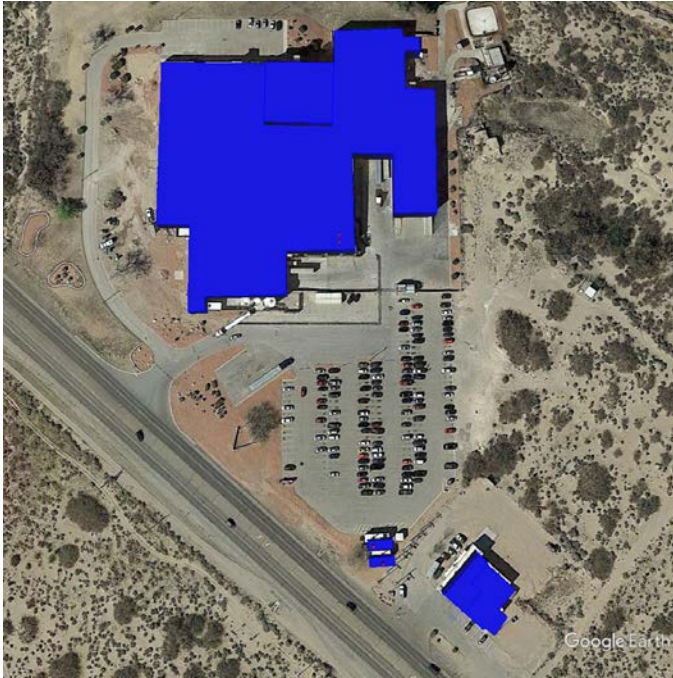
POLLUTANT	AVERAGING TIME	Form	MAXIMUM MODELED CONCENTRATION (mg/m³)	Occupational Exposure Limit (mg/m³)	1 % of Occupational Exposure Limit (mg/m³)	Less Than Limit?
Benzene ⁽²⁾	8 HOUR ⁽¹⁾	H	0.00024	0.200	0.002	Yes
⁽¹⁾ Not to be exceeded ⁽²⁾ Hazardous Air Pollutant						

5 CONCLUSIONS

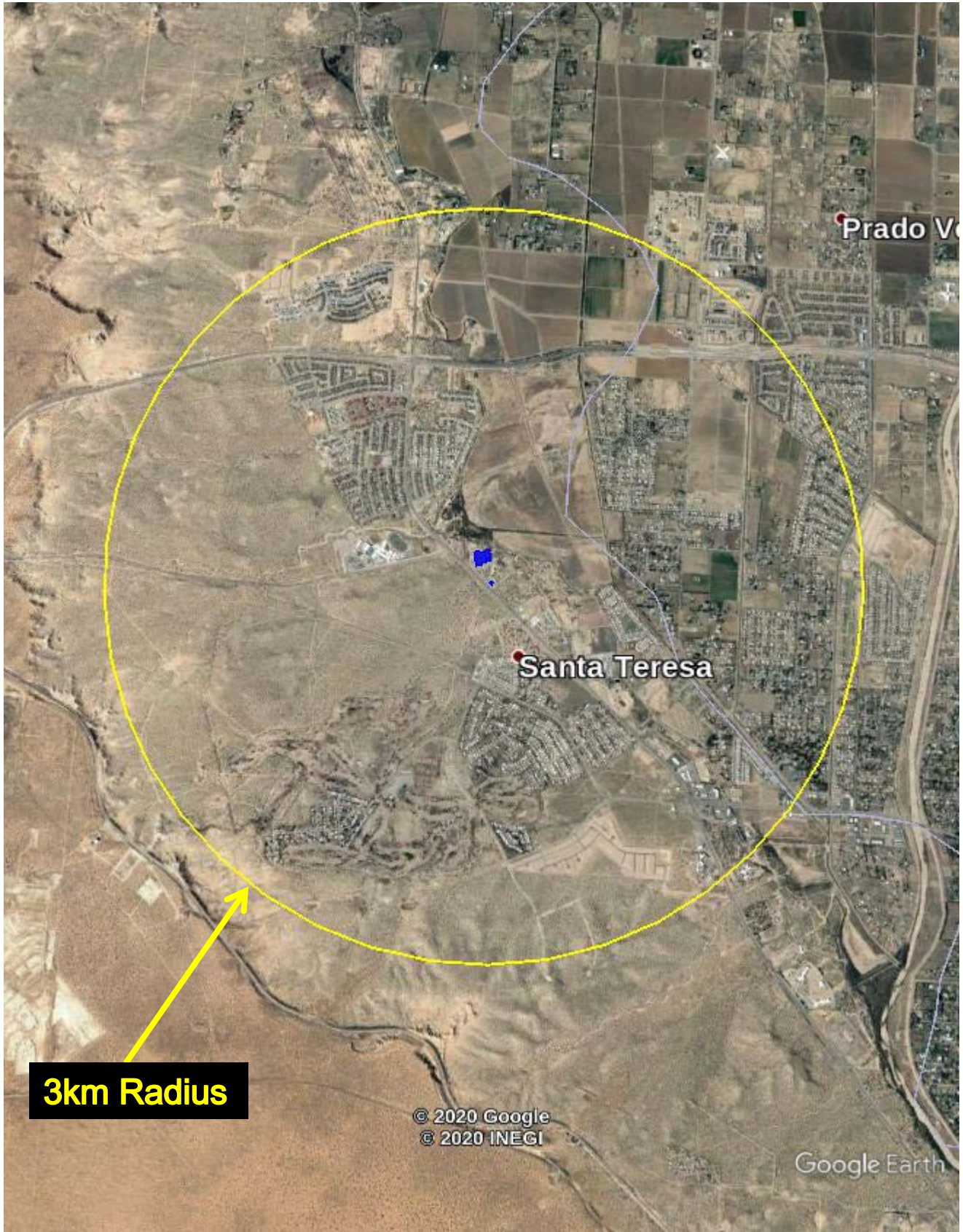
As required as part of a minor source air permit application in New Mexico, an air quality impact analysis utilizing dispersion modeling was required. This analysis was executed using methodology and data approved by NMED and outlined in both NMED and U.S. EPA modeling guidelines.

At full loads and with the restrictions presented in Section 3.4.2, the predicted pollutant concentrations are below the applicable PSD Increments and National Ambient Air Quality Standards using the U.S. EPA regulatory AERMOD model and acceptable modeling practices. Therefore, it can be concluded that the generators meet the requirements stated in New Mexico Administrative Code (NMAC) 20.2.70.300.D.10 NMAC (Operating Permits), 20.2.72.203.A.4 NMAC (Construction Permits), and 20.2.74.305 NMAC (Permits - Prevention of Significant Deterioration), and 20.2.79 NMAC (Nonattainment).

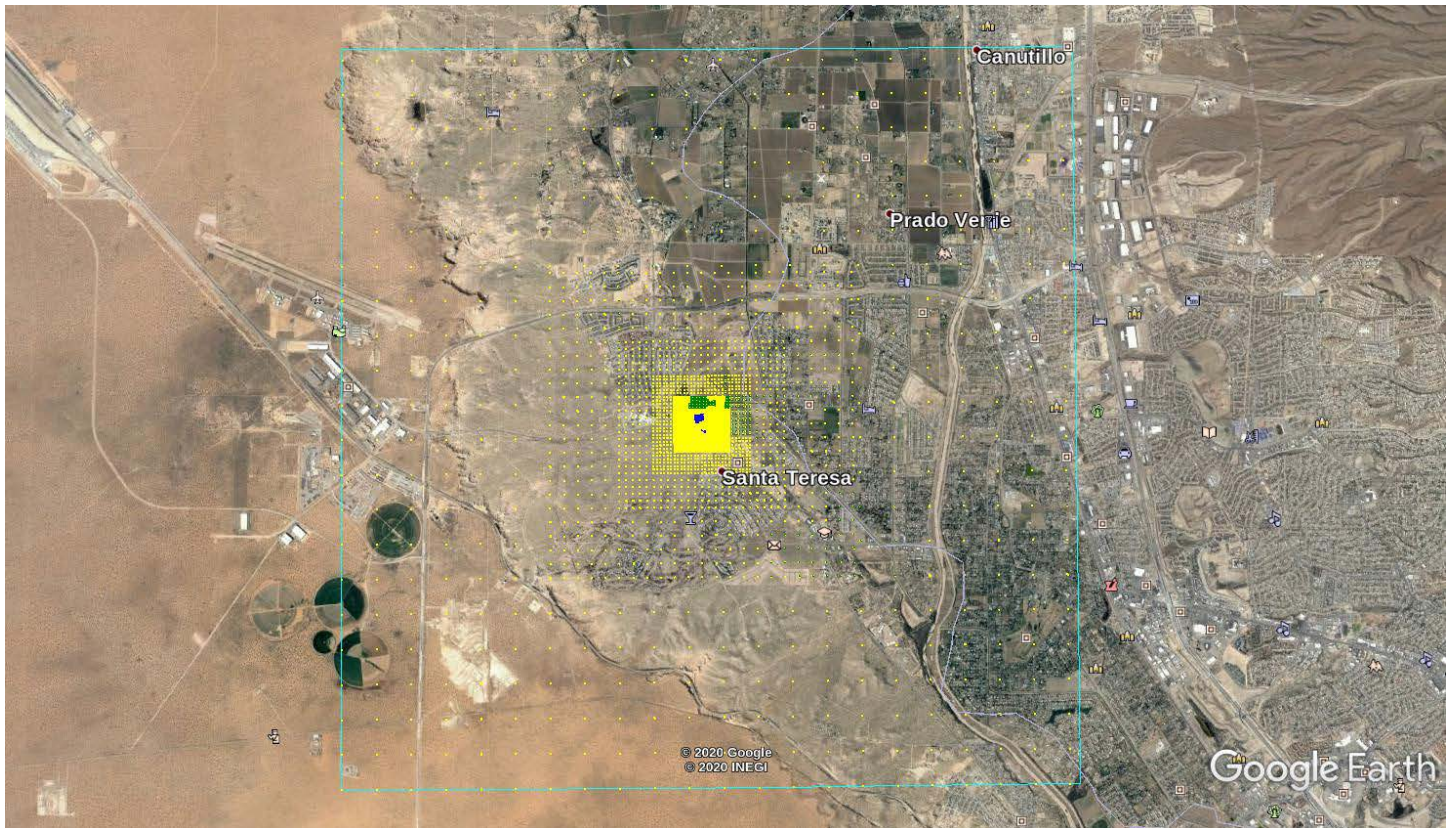
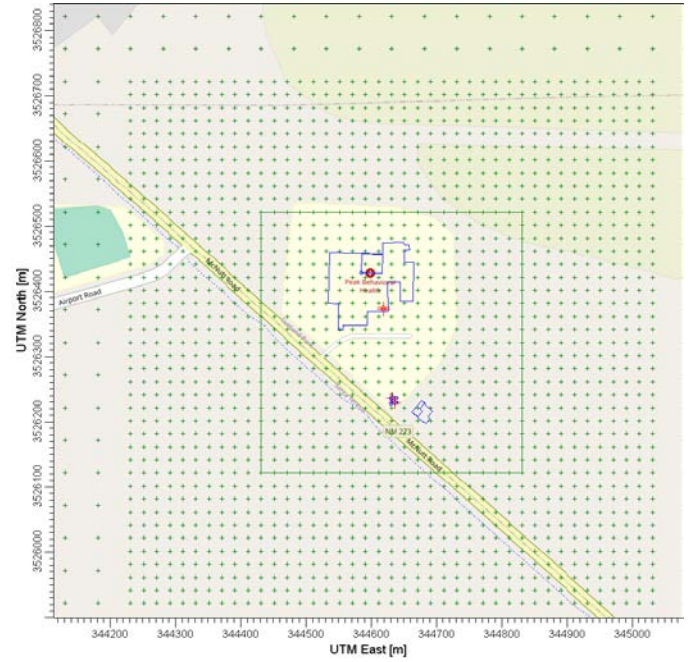
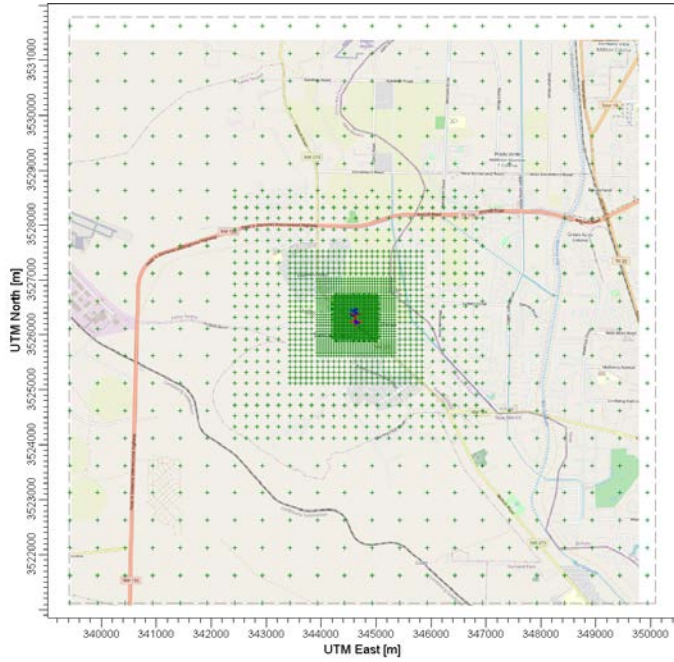
6 FIGURES



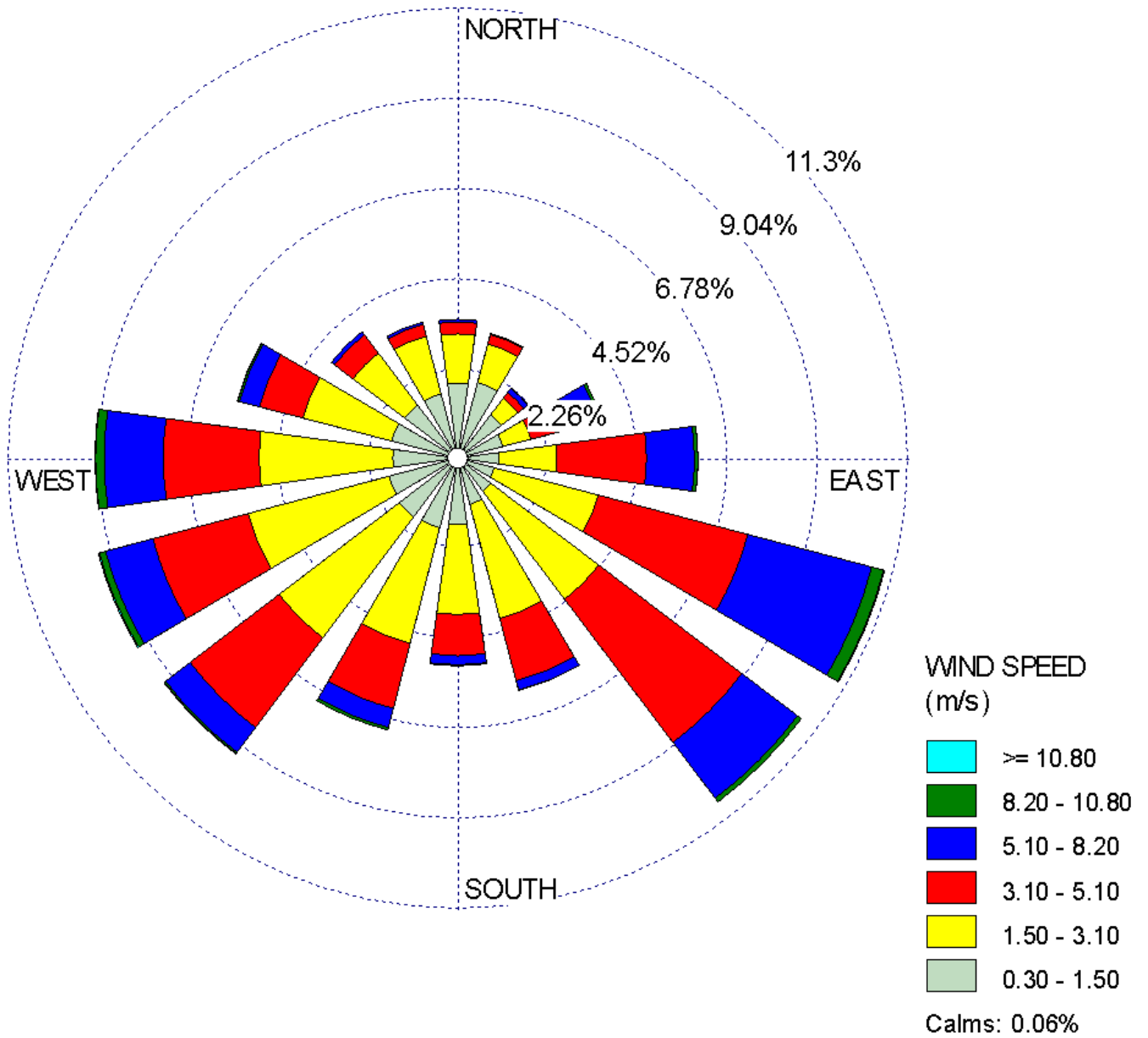
Stampede Meat – St. Teresa, NM



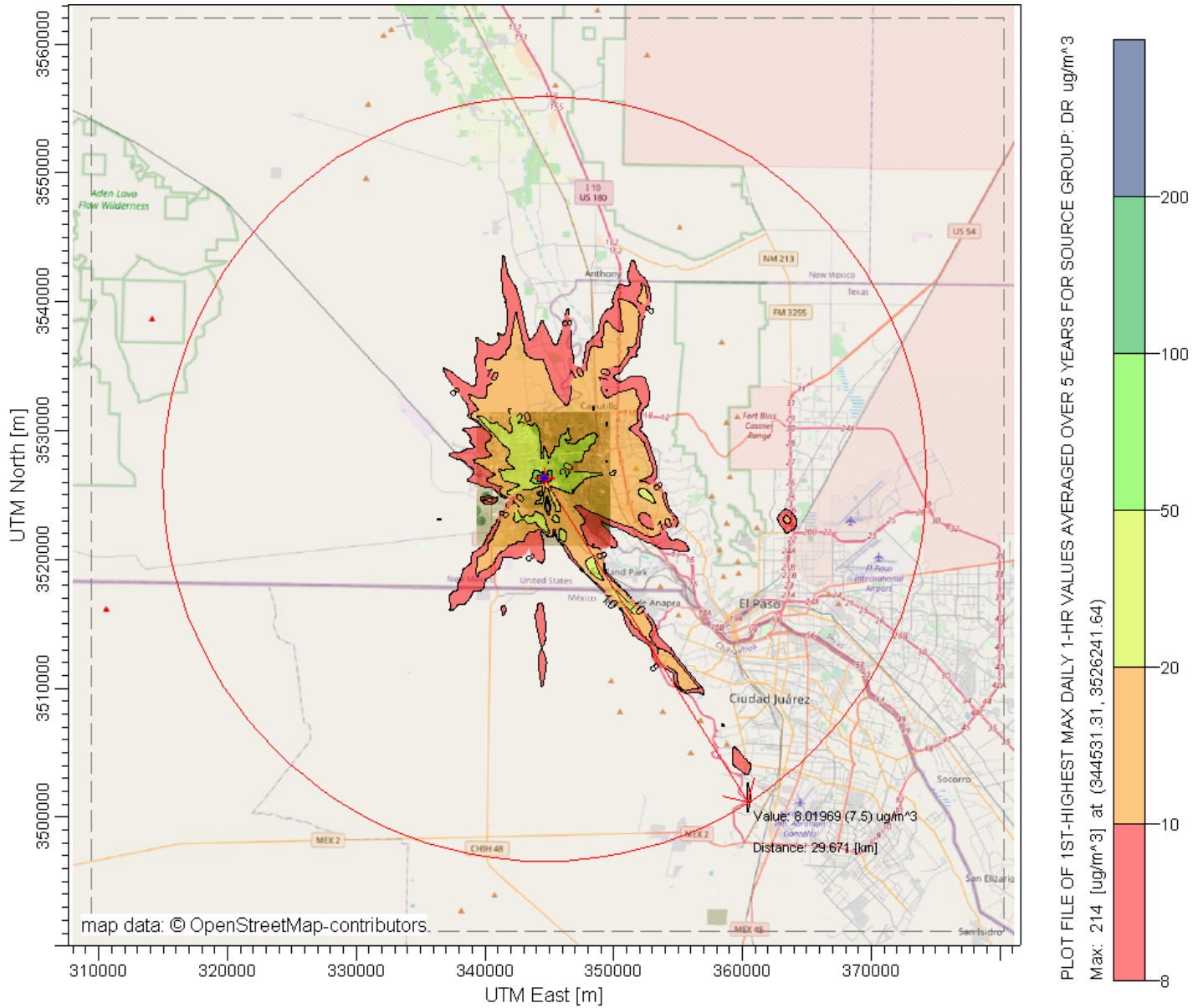
Stampede Meat – St. Teresa, NM



Stampede Meat – St. Teresa, NM



Stampede Meat – St. Teresa, NM



Stampede Meat – St. Teresa, NM

ATTACHMENTS

Universal Application 4

Air Dispersion Modeling Report

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

16-A: Identification		
1	Name of facility:	Stampede Meat, Inc
2	Name of company:	Stampede Meat, Inc
3	Current Permit number:	
4	Name of applicant's modeler:	Vincent Tino, CCM. Epsilon Associates, Inc. Maynard, MA
5	Phone number of modeler:	978-897-7100 (774-306-6046 cell)
6	E-mail of modeler:	vtino@epsilonassociates.com

16-B: Brief		
1	Was a modeling protocol submitted and approved?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2	Why is the modeling being done?	Other (describe below)
3	Describe the permit changes relevant to the modeling. Permit to allow up to 50 hours per year from June 1 to September 30 from 1 pm to 7 pm on non-weekend/holidays out of the allowed 100 hours for testing/maintenance for emergency demand response use of the two emergency generators	
4	What geodetic datum was used in the modeling?	WGS84
5	How long will the facility be at this location?	Indefinitely
6	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Identify the Air Quality Control Region (AQCR) in which the facility is located	153

8	List the PSD baseline dates for this region (minor or major, as appropriate).		
	NO2	8/2/1995	
	SO2	Not established	
	PM10	7/12/2000 per E. Peters (website says 6/16/2000)	
	PM2.5	Not Established	
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).		
	N/A		
10	Is the facility located in a non-attainment area? If so describe below	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Sunland Park Ozone Nonattainment area		
11	Describe any special modeling requirements, such as streamline permit requirements.		
	N/A		

16-C: Modeling History of Facility

1	Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQs), and PSD increments modeled. (Do not include modeling waivers).			
	Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
	CO			
	NO ₂			
	SO ₂			
	H ₂ S			
	PM2.5			
	PM10			
	TSP			
	Lead			
	Ozone (PSD only)			
NM Toxic Air Pollutants (20.2.72.402 NMAC)				

16-D: Modeling performed for this application

1	For each pollutant, indicate the modeling performed and submitted with this application. Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.					
	Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
	CO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	NO ₂	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	SO ₂	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

H ₂ S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PM _{2.5}	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PM ₁₀	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TSP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ozone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State air toxic(s) (20.2.72.402 NMAC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

16-E: New Mexico toxic air pollutants modeling

1	List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application. Benzene					
2	List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.					
	Pollutant	Emission Rate (pounds/hour)	Emission Rate Screening Level (pounds/hour)	Stack Height (meters)	Correction Factor	Emission Rate/Correction Factor
	N/A					
	N/A					

16-F: Modeling options

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	N/A		

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	6/10/2020
2	If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.	
	AQB Source ID	Description of Corrections
	10056	NOX emissions based on actual emissions, not permitted allowable
	10070	NOX emissions based on 50TPY permit limit
	10056	PM10 emissions based on actual emissions, not permitted allowable
	10057	PM10 emissions based on actual emissions, not permitted allowable
	10009	PM10 emissions based on 71.25 TPY as shown in NMED Modeling guidance
10070	PM10 emissions based on 71.25 TPY as shown in NMED Modeling guidance	

16-H: Building and structure downwash

1	How many buildings are present at the facility?	3		
2	How many above ground storage tanks are present at the facility?	0		
3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	N/A			
4	Building comments	Generator enclosures included as buildings. Also nearby fire station included as generator stacks are possibly within 5L of fire station.		

16-I: Receptors and modeled property boundary

1	<p>“Restricted Area” is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility.</p> <p>Describe the fence or other physical barrier at the facility that defines the restricted area.</p>					
	No Fence					
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
3	Are restricted area boundary coordinates included in the modeling files?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
4	Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.					
	Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments
	Nested Cartesian		Varies	0	5km to 30km	See description in report
5	Describe receptor spacing along the fence line.					
N/A						
6	Describe the PSD Class I area receptors.					
N/A						

16-J: Sensitive areas

1	Are there schools or hospitals or other sensitive areas near the facility? If so describe below. This information is optional (and purposely undefined) but may help determine issues related to public notice.		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Santa Teresa High School is roughly 0.5 miles west of the Facility			

3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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16-K: Modeling Scenarios											
1	Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).										
	Single case - maximum engine load										
2	Which scenario produces the highest concentrations? Why?										
	Highest emission rate										
3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)								Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
4	If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.) Sources:EG1, EG2										
5	Hour of Day	Factor	Hour of Day	Factor							
	1	0.00	13	1.00							
	2	0.00	14	1.00							
	3	0.00	15	1.00							
	4	0.00	16	1.00							
	5	0.00	17	1.00							
	6	0.00	18	1.00							
	7	0.00	19	1.00							
	8	0.00	20	0.00							
	9	0.00	21	0.00							
	10	0.00	22	0.00							
	11	0.00	23	0.00							
	12	0.00	24	0.00							
	If hourly, variable emission rates were used that were not described above, describe them below.										
	The above schedule is only used for the months of June, July, August, and September. All other months were set to all 0.00.										
6	Were different emission rates used for short-term and annual modeling? If so describe below.								Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	Annual emissions rates were based on a 500 hour per year operating restriction										

16-L: NO₂ Modeling	
1	Which types of NO ₂ modeling were used? Check all that apply.

	<input checked="" type="checkbox"/>	ARM2	
	<input type="checkbox"/>	100% NO _x to NO ₂ conversion	
	<input type="checkbox"/>	PVMRM	
	<input type="checkbox"/>	OLM	
	<input type="checkbox"/>	Other:	
2	Describe the NO ₂ modeling. ARM2 default		
3	Were default NO ₂ /NO _x ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	N/A		
4	Describe the design value used for each averaging period modeled. 1-hour: High eighth high Annual: One Year Annual Average		

16-M: Particulate Matter Modeling

1	Select the pollutants for which plume depletion modeling was used.		
	<input type="checkbox"/>	PM2.5	
	<input type="checkbox"/>	PM10	
	<input checked="" type="checkbox"/>	None	
2	Describe the particle size distributions used. Include the source of information. N/A		
3	Does the facility emit at least 40 tons per year of NO _x or at least 40 tons per year of SO ₂ ? Sources that emit at least 40 tons per year of NO _x or at least 40 tons per year of SO ₂ are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4	Was secondary PM modeled for PM2.5?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.		
	NO _x (ton/yr)	SO ₂ (ton/yr)	[PM2.5] _{annual}
	N/A	N/A	N/A
			[PM2.5] _{24-hour}
			N/A

16-N: Setback Distances

1	Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.
---	--

	N/A
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.
	N/A

16-O: PSD Increment and Source IDs

1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Unit Number in UA-2	Unit Number in Modeling Files	
2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4	Which units consume increment for which pollutants?		
	Unit ID	NO ₂	SO ₂
5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).		
6	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

16-P: Flare Modeling

1	For each flare or flaring scenario, complete the following			
	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)
	N/A	N/A	N/A	N/A

16-Q: Volume and Related Sources

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
---	---	------------------------------	--

	If not please explain how increment consumption status is determined for the missing installation dates below.		
	N/A		
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
	N/A		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		
	N/A		
4	Describe any open pits.		
	N/A		
5	Describe emission units included in each open pit.		
	N/A		

16-R: Background Concentrations

1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	CO: N/A		
	NO ₂ : Sunland Park (350130021)		
	PM2.5: Sunland Park (350130021)		
	PM10: Sunland Park (350130021)		
	SO ₂ : N/A		
	Other:		
	Comments:		
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	N/A		

16-S: Meteorological Data

1	Was NMED provided meteorological data used? If so select the station used.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Desert View 2015-2019		
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		
	N/A		

16-T: Terrain			
1	Was complex terrain used in the modeling? If not, describe why below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	N/A		
2	What was the source of the terrain data?		
	USGS NED		

16-U: Modeling Files			
1	Describe the modeling files: Modeling was performed using Lakes AERMODView V9.9. Standard file suffix nomenclature was used. File directories are self-explanatory by requirement and pollutant		
	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
	*.ADI	all	AERMOD input files
	*.ADO	all	AERMOD output files

16-V: PSD New or Major Modification Applications			
1	A new PSD major source or a major modification to an existing PSD major source requires additional analysis.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?		
2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
	N/A		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
	N/A		

5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
N/A			

16-W: Modeling Results										
1		If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.					Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>	
		N/A								
2		Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.								
Pollutant, Time Period and Standard	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (ft)

16-X: Summary/conclusions

1	A statement that modeling requirements have been satisfied and that the permit can be issued.
	Modeling methodology and results are provided in the attached report. Modeling shows that all regulatory requirements are satisfactorily met, and a permit should be issued.

<p>New Mexico Environment Department Air Quality Bureau Modeling Section 525 Camino de Los Marquez - Suite 1 Santa Fe, NM 87505</p> <p>Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb/</p>		<p>For Department use only:</p> <p>Approved by: Eric Peters</p> <p>Date: July 6, 2020</p>
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Air Dispersion Modeling Waiver Request Form

This form must be completed and submitted with all air dispersion modeling waiver requests.

If an air permit application requires air dispersion modeling, in some cases the demonstration that ambient air quality standards and Prevention of Significant Deterioration (PSD) increments will not be violated can be satisfied with a discussion of previous modeling. The purpose of this form is to document and streamline requests to certify that previous modeling satisfies all or some of the current modeling requirements. The criteria for requesting and approving modeling waivers is found in the Air Quality Bureau Modeling Guidelines. Typically, only construction permit applications submitted per 20.2.72, 20.2.74, or 20.2.79 NMAC require air dispersion modeling. However, modeling is sometimes also required for a Title V permit application.

A waiver may be requested by e-mailing this completed form in **MS Word** format to the modeling manager, sufi.mustafa@state.nm.us.

This modeling waiver is not valid if the emission rates in the application are higher than those listed in the approved waiver request.

Section 1 and Table 1: Contact and facility information:

Contact name	Don DiCristofaro
E-mail Address:	don@blueskyenviro.com
Phone	617-834-8408
Facility Name	Stampede Meats
Air Quality Permit Number(s)	N/A
Agency Interest Number (if known)	
Latitude and longitude of facility (decimal degrees)	31.862747N; 106.426722W

General Comments: (Add introductory remarks or comments here, including the purpose of and type of permit application.)

A New Source Review (NSR) Minor Source Construction Permit is required to allow two 2,000 kW generator-engine sets to operate for up to 50 hours per year for the El Paso Electric emergency demand response (DR) program which meets the 5 conditions of 40 CFR 63.6640(f)(4)(ii) for emergency engines in the RICE NESHAP. The generators will also be used for emergency use and testing/maintenance. Since the NMED definition of emergency use does not include emergency DR, a construction permit is required. Based on a pre-application call with Rhonda Romero on 12/23/19, since the site is less than 1 km from a school, a streamline permit is not applicable. Thus, an air quality modeling analysis is required for the construction permit. The emissions shown below also include two natural gas-fired boilers (only one operates at a time) which will be included in the air modeling.

Section 2 – List All Regulated Pollutants from the Entire Facility - Required

In Table 2, below, list all regulated air pollutants emitted from your facility, except for New Mexico Toxic Air Pollutants, which are listed in Table 6 of this form. All pollutants emitted from the facility must be listed regardless if a modeling waiver is requested for that pollutant or if the pollutant emission rate is subject to the proposed permit changes.

Table 2: Air Pollutant summary table (Check all that apply. Include all pollutants emitted by the facility):

Pollutant	Pollutant is not emitted at the facility and modeling or waiver are not required.	Pollutant does not increase in emission rate at any emission unit (based on levels currently in the permit) and stack parameters are unchanged. Modeling or waiver are not required.	Stack parameters or stack location has changed.	Pollutant is new to the permit, but already emitted at the facility.	Pollutant is increased at any emission unit (based on levels currently in the permit).	A modeling waiver is being requested for this pollutant.	Modeling for this pollutant will be included in the permit application.
CO				X		X	
NO ₂				X			X
SO ₂				X		X	
PM10				X			X
PM2.5				X			X
H ₂ S	X					X	
Reduced S	X					X	
O ₃ (PSD only)							
Pb	X					X	

Section 3: Facility wide pollutants, other than NMTAPs, with very low emission rates

The Air Quality Bureau has performed generic modeling to demonstrate that small sources, as listed in Appendix 2 of this form, do not need computer modeling. After comparing the facility’s emission rates for various pollutants to Appendix 2, please list in Table 3 the pollutants that do not need to be modeled because of very low emission rates.

Section 3 Comments. (If you are not requesting a waiver for any pollutants based on their low emission rate, then note that here. You do not need to complete the rest of Section 3 or Table 3.)

<Add comments here>

Table 3: List of Pollutants with very low facility-wide emission rates

Pollutant	Requested Allowable Emission Rate From Facility (pounds/hour)	Release Type (select “all from stacks >20 ft” or “other”)	Waiver Threshold (from appendix 2) (lb/hr)
CO	15.23	All From Stacks > 20 ft	50
SO ₂	0.08	All From Stacks > 20 ft	2
Dichlorobenzene	0.00002	All From Stacks > 20 ft	20
Barium	0.00007	All From Stacks > 20 ft	0.0333
Cadmium	0.00002	All From Stacks > 20 ft	0.00333
Chromium	0.00002	All From Stacks > 20 ft	0.0333
Cobalt	0.000001	All From Stacks > 20 ft	0.00667
Copper	0.00001	All From Stacks > 20 ft	0.0133
Manganese	0.00001	All From Stacks > 20 ft	0.0667
Molybdenum	0.00002	All From Stacks > 20 ft	0.333
Nickel	0.00003	All From Stacks > 20 ft	0.0667
Selenium	0.0000004	All From Stacks > 20 ft	0.0133
Vanadium	0.00004	All From Stacks > 20 ft	0.00333

Section 4: Pollutants that have previously been modeled at equal or higher emission rates

List the pollutants and averaging periods in Table 4 for which you are requesting a modeling waiver based on previous modeling for this facility. The previous modeling reports that apply to the pollutant must be submitted with the modeling waiver request. Request previous modeling reports from the Modeling Section of the Air Quality Bureau if you do not have them and believe they exist in the AQB modeling file archive or in the permit folder.

Section 4 Comments. (If you are not asking for a waiver based on previously modeled pollutants, note that here. You do not need to complete the rest of section 4 or table 4.)

No previous modeling has been conducted.

Table 4: List of previously modeled pollutants (facility-wide emission rates)

Pollutant	Averaging period	Proposed emission rate (pounds/hour)	Previously modeled emission rate (pounds/hour)	Proposed minus modeled emissions (lb/hr)	Modeled percent of standard or increment	Year modeled

Section 4, Table 5: Questions about previous modeling:

Question	Yes	No
Was AERMOD used to model the facility?		
Did previous modeling predict concentrations less than 95% of each air quality standard and PSD increment?		
Were all averaging periods modeled that apply to the pollutants listed above?		
Were all applicable startup/shutdown/maintenance scenarios modeled?		
Did modeling include all sources within 1000 meters of the facility fence line that now exist?		
Did modeling include background concentrations at least as high as current background concentrations?		
If a source is changing or being replaced, is the following equation true for all pollutants for which the waiver is requested? (Attach calculations if applicable.)		
$\frac{[(g) \times (h1)] + [(v1)^2/2] + [(c) \times (T1)]}{q1} \leq \frac{[(g) \times (h2)] + [(v2)^2/2] + [(c) \times (T2)]}{q2}$ <p style="text-align: center;">Where</p> <p>g = gravitational constant = 32.2 ft/sec²</p> <p>h1 = existing stack height, feet</p> <p>v1 = exhaust velocity, existing source, feet per second</p> <p>c = specific heat of exhaust, 0.28 BTU/lb-degree F</p> <p>T1 = absolute temperature of exhaust, existing source = degree F + 460</p> <p>q1 = emission rate, existing source, lbs/hour</p> <p>h2 = replacement stack height, feet</p> <p>v2 = exhaust velocity, replacement source, feet per second</p> <p>T2 = absolute temperature of exhaust, replacement source = degree F + 460</p> <p>q2 = emission rate, replacement source, lbs/hour</p>		

If you checked “no” for any of the questions, provide an explanation for why you think the previous modeling may still be used to demonstrate compliance with current ambient air quality standards.

Section 5: Modeling waiver using scaled emission rates and scaled concentrations

At times it may be possible to scale the results of modeling one pollutant and apply that to another pollutant. If the analysis for the waiver gets too complicated, then it becomes a modeling review rather than a modeling waiver, and applicable modeling fees will be charged for the modeling. Plume depletion, ozone chemical reaction modeling, post-processing, and unequal pollutant ratios from different sources are likely to invalidate scaling.

If you are not scaling previous results, note that here. You do not need to complete the rest of section 5.
 Not scaling previous modeling results.

To demonstrate compliance with standards for a pollutant describe scenarios below that you wish the modeling section to consider for scaling results.

Section 6: New Mexico Toxic air pollutants – 20.2.72.400 NMAC

Modeling must be provided for any New Mexico Toxic Air Pollutant (NMTAP) with a facility-wide controlled emission rate in excess of the pound per hour emission levels specified in Tables A and B at **20.2.72.502 NMAC - Toxic Air Pollutants and Emissions**. An applicant may use a stack height correction factor based on the release height of the stack for the purpose of determining whether modeling is required. See Table C - Stack Height Correction Factor at 20.2.72.502 NMAC. Divide the emission rate for each release point of a NMTAP by the correction factor for that release height and add the total values together to determine the total adjusted pound per hour emission rate for that NMTAP. If the total adjusted pound per hour emission rate is lower than the emission rate screening level found in Tables A and B, then modeling is not required.

In Table 6, below, list the total facility-wide emission rates for each New Mexico Toxic Air Pollutant emitted by the facility. The table is pre-populated with common examples. Extra rows may be added for NMTAPS not listed or for NMTAPS emitted from multiple stack heights. NMTAPS not emitted at the facility may be deleted, left blank, or noted as 0 emission rate. Toxics previously modeled may be addressed in Section 5 of this waiver form. For convenience, we have listed the stack height correction factors in Appendix 1 of this form.

Section 6 Comments. (If you are not requesting a waiver for any NMTAPs then note that here. You do not need to complete the rest of section 6 or Table 6.)

[<Add comments here>](#)

Table 6: New Mexico Toxic Air Pollutants emitted at the facility

If requesting a waiver for any NMTAP, all NMTAPs from this facility must be listed in Table 3 regardless if a modeling waiver is requested for that pollutant or if the pollutant emission rate is subject to the proposed permit changes.

Pollutant	Requested Allowable Emission Rate (pounds/hour)	Release Height (Meters)	Correction Factor	Allowable Emission Rate Divided by Correction Factor	Emission Rate Screening Level (pounds/hour)
Ammonia	0				1.20
Asphalt (petroleum) fumes	0				0.333
Carbon black	0				0.233
Chromium metal	0				0.0333
Glutaraldehyde	0				0.0467
Nickel Metal	0				0.0667
Wood dust (certain hard woods as beech & oak)	0				0.0667
Wood dust (soft wood)	0				0.333

(add additional toxics if they are present)					
Dichlorobenzene	0.00002	7.5	1	0.00002	20
Barium	0.00007	7.5	1	0.00007	0.0333
Cadmium	0.00002	7.5	1	0.00002	0.00333
Chromium	0.00002	7.5	1	0.00002	0.0333
Cobalt	0.000001	7.5	1	0.000001	0.00667
Copper	0.00001	7.5	1	0.00001	0.0133
Manganese	0.00001	7.5	1	0.00001	0.0667
Molybdenum	0.00002	7.5	1	0.00002	0.333
Nickel	0.00003	7.5	1	0.00003	0.0667
Selenium	0.0000004	7.5	1	0.0000004	0.0133
Vanadium	0.00004	7.5	1	0.00004	0.00333

Section 7: Approval or Disapproval of Modeling Waiver

The AQB air dispersion modeler should list each pollutant for which the modeling waiver is approved, the reasons why, and any other relevant information. If not approved, this area may be used to document that decision.

This waiver is granted for CO and SO₂ because the Department has modeling on file to demonstrate that the emission rates of CO and SO₂ emitted by this facility will not cause or contribute to any violations of air quality standards or PSD increments, as detailed in Appendix 2. The toxic air pollutants described above do not require modeling because they are emitted at rates below the screening levels.

Appendix 1: Stack Height Release Correction Factor (adapted from 20.2.72.502 NMAC)

Release Height in Meters	Correction Factor
0 to 9.9	1
10 to 19.9	5
20 to 29.9	19
30 to 39.9	41
40 to 49.9	71
50 to 59.9	108
60 to 69.9	152
70 to 79.9	202
80 to 89.9	255
90 to 99.9	317
100 to 109.9	378
110 to 119.9	451
120 to 129.9	533
130 to 139.9	617
140 to 149.9	690
150 to 159.9	781
160 to 169.9	837
170 to 179.9	902
180 to 189.9	1002
190 to 199.9	1066
200 or greater	1161

Appendix 2. Very small emission rate modeling waiver requirements

Modeling is waived if emissions of a pollutant for the entire facility (including haul roads) are below the amount:

Pollutant	If all emissions come from stacks 20 feet or greater in height and there are no horizontal stacks or raincaps (lb/hr)	If not all emissions come from stacks 20 feet or greater in height, or there are horizontal stacks, raincaps, volume, or area sources (lb/hr)
CO	50	2
H ₂ S (Pecos-Permian Basin)	0.1	0.02
H ₂ S (Not in Pecos-Permian Basin)	0.01	0.002
Lead	No waiver	No waiver
NO ₂	2	0.025
PM _{2.5}	0.3	0.015
PM ₁₀	1.0	0.05
SO ₂	2	0.025
Reduced sulfur (Pecos-Permian Basin)	0.033	No waiver
Reduced sulfur (Not in Pecos-Permian Basin)	No waiver	No waiver

Stampede Meat, Inc. Santa Teresa, New Mexico

Heating Boilers

Source Name		B1	B2	Notes
Make		Cleaver Brooks	Sellars	From client
Model		CB-700-250	150HP	From client
Qty.		1	1	From client
Boiler Heat Input	MMBTU/hr (ea.):	10.161	6.278	
Boiler Emission Rates	lb/MMBTU	g/s	g/s	
NOx	0.098	0.12552	0.07755	AP-42, Table 1.4-1 and 1.4-2 (assuming 1020 Btu/scf)
CO	0.082	0.10543	0.06514	AP-42, Table 1.4-1 and 1.4-2 (assuming 1020 Btu/scf)
VOC	0.005	0.00690	0.00427	AP-42, Table 1.4-1 and 1.4-2 (assuming 1020 Btu/scf)
PM-2.5	0.007	0.00954	0.00589	AP-42, Table 1.4-1 and 1.4-2 (assuming 1020 Btu/scf)
PM-10	0.007	0.00954	0.00589	AP-42, Table 1.4-1 and 1.4-2 (assuming 1020 Btu/scf)
SO2	0.0006	0.00075	0.00047	AP-42, Table 1.4-1 and 1.4-2 (assuming 1020 Btu/scf)
CO2	117.647	150.61856	93.06007	AP42 Table 1.4-2 (assuming 1020 Btu/scf)
Lead	4.90E-07	6.28E-07	3.88E-07	AP42 Table 1.4-2 (assuming 1020 Btu/scf)
Gas Exit Temp	°F	350	450	assumed (CB is a 4 pass firetube, Sellars is 1 pass firetube)
Gas Exit Temp	°K	449.8	505.4	calculated
Exhaust air (CFM)	CFM	3381.06	2089.00	assumed (10 cfm/1hp) +3%/1000 ft for 1157m elevation
Gas Exit Velocity	fps	18.71	16.79	calculated
Gas Exit Velocity	mps	5.70	5.12	calculated
Roof Height	feet	22.33	22.33	Email D. DiCristofaro (5/18/20)
Stack height	feet above roofline	8.08	6.667	assumed
Stack height	feet	30.41	28.997	calculated
Stack height	meters	9.269	8.838	calculated
Stack Diameter	feet	1.958	1.625	Email D. DiCristofaro (5/20/20)
Stack Diameter	meters	0.597	0.495	calculated

Emergency Generator

Designation		EG1-2		Notes
Description		Diesel generator		
Number		2		Email D. DiCristofaro (5/14/20)
Electrical output	kilowatts	2000		Email D. DiCristofaro (5/14/20)
Make		Caterpillar		Email D. DiCristofaro (5/14/20)
model		3516DITA		Email D. DiCristofaro (5/14/20)
Engine Horsepower	BHP	2876		Email D. DiCristofaro (5/14/20)
Engine power	kilowatts	2144.63		calculated
Fuel consumption @full load	gph	145.40		Email D. DiCristofaro (5/14/20)
Heat Input	MMBTU/hr:	20.0652		calculated
Stack Parameters				
Exhaust Temperature	°F	962.78		GEN SET PACKAGE PERFORMANCE DATA [6HN01208] MARCH 27, 2020
Exhaust Temperature	°K	790.3		calculated
Total Exhaust Flow	ACFM	17,053.47		GEN SET PACKAGE PERFORMANCE DATA [6HN01208] MARCH 27, 2020
Flange Diameter	in.	NA		not necessary for calculation
Maximum Backpressure	in. H2O	27		CAT sheet LEHE1232-00
Maximum velocity	fpm	16637.60		calculated
Exhaust area required	sq. ft	1.025		calculated
Number of exhausts (typ. 1 or 2)	#	1		Visual via Google Earth Streetview
Selected exhaust diameter	in	16		GEN SET PACKAGE PERFORMANCE DATA [6HN01208] MARCH 27, 2020
Actual exhaust opening area	sq. ft each	1.396		calculated
Actual velocity	fpm each	12213.648		calculated
Actual velocity	fps each	203.561		calculated
Single Stack Effective Diameter	ft	1.333		calculated
Single Stack Effective Diameter	m	0.406		calculated
Single Stack Effective Velocity	fps	203.561		calculated
Single Stack Effective Velocity	mps	62.045		calculated
Primary Building Height	ft	12.46		Clint Helms via D. DiCristofaro (5/13/20)
Stack Height (above roofline)	ft	12.00		
Stack height (above ground)	ft	24.46		calculated
Stack Height	m	7.46		calculated
Pollutant	Emission factor unit	Emission factor		
NOx	g/BHP-hr	6.18	as 38.83 lb/hr @ 2848 bhp	GEN SET PACKAGE PERFORMANCE DATA [6HN01208] MARCH 27, 2020
PM10	g/BHP-hr	0.18	as 1.1 lb/hr @ 2848 bhp	GEN SET PACKAGE PERFORMANCE DATA [6HN01208] MARCH 27, 2020
PM2.5	g/BHP-hr	0.18	as 1.1 lb/hr @ 2848 bhp	GEN SET PACKAGE PERFORMANCE DATA [6HN01208] MARCH 27, 2020
Short Term Emission Rate				
NOx	g/s	4.9406		calculated
PM10	g/s	0.1400		calculated
PM2.5	g/s	0.1400		calculated
Long Term Emission Rate				
NOx	g/s	0.2820		calculated
PM10	g/s	0.0080		calculated
PM2.5	g/s	0.0080		calculated

Stampede Meat, Inc. Santa Teresa, New Mexico
AERMOD Dispersion Modeling Analysis
SIL Results - DR RICE units only

POLLUTANT	AVERAGING TIME	Form of Value	MAXIMUM MODELED CONCENTRATION ($\mu\text{g}/\text{m}^3$)	PERIOD of MODELED MAX (Year or YYMMDDHH)	Location (UTME, UTMN, Elev., Hill, Flag)	Significant Impact Level ($\mu\text{g}/\text{m}^3$)	% of SIL	Radius of Significant Impact Area (km)
PM ₁₀	24 HOUR ⁽²⁾	H	2.06185	17092624	344511.31, 3526261.64, 1158.54, 1158.54, 0.00	5.0	41%	N/A
	ANNUAL ⁽³⁾	H	0.04452	2017	344511.31, 3526301.64, 1157.50, 1157.50, 0.00	1.0	4%	N/A
PM _{2.5}	24 HOUR ⁽⁴⁾	H	1.35295	2015-2019	344511.31, 3526241.64, 1159.00, 1159.00, 0.00	1.2	113%	0.182
	ANNUAL ⁽⁵⁾	H	0.03616	2015-2019	344511.31, 3526301.64, 1157.50, 1157.50, 0.00	0.2	18%	N/A
NO ₂	1 HOUR ⁽¹⁾	H	213.61458	2015-2019	344531.31, 3526241.64, 1158.80, 1158.80, 0.00	7.52	2841%	29.671
	24 HOUR ⁽⁶⁾	H	N/A	N/A	N/A	5.0	0%	N/A
	ANNUAL	H	1.41235	2017	344511.31, 3526301.64, 1157.50, 1157.50, 0.00	1.0	141%	0.264

Notes:

- ⁽¹⁾ Maximum 1st-Highest Maximum Daily 1-Hr Concentration Averaged Over 5 Years
- ⁽²⁾ Highest Concentration Over 5 Years
- ⁽³⁾ Highest Annual Concentration Over 5 Years
- ⁽⁴⁾ Maximum 1st-Highest 24-Hour Concentration Averaged Over 5 Years
- ⁽⁵⁾ Highest 5 year average annual concentration.
- ⁽⁶⁾ Demonstration of compliance with the 1-hour is automatically a demonstration of compliance with the 24-hour NMAAQs.

Stampede Meat, Inc. Santa Teresa, New Mexico
AERMOD Dispersion Modeling Analysis
NMAAQs/NAAQs Results - DR Generators and Larger Boiler Only

POLLUTANT	AVERAGING TIME	Form of Value	MAXIMUM MODELED CONCENTRATION ($\mu\text{g}/\text{m}^3$)	PERIOD of MODELED MAX (Year or YYMMDDHH)	Location (UTME, UTMN, Elev., Hill, Flag)	BACKGROUND CONCENTRATION ($\mu\text{g}/\text{m}^3$)	TOTAL CONCENTRATION ($\mu\text{g}/\text{m}^3$)	NAAQS or NMAAQs ($\mu\text{g}/\text{m}^3$)	% of Standard
PM _{2.5}	24 HOUR ⁽²⁾	H8H	1.80220	2015-2019	344651.31, 3526361.64, 1154.93, 1154.93, 0.00	24.3	26.1	35	75%
NO ₂	1 HOUR ⁽³⁾	H8H	99.07953	2015-2019	344511.31, 3526281.64, 1157.89, 1157.89, 0.00	85.7	184.8	188.03	98%
	24 HOUR ⁽⁴⁾	H2H	N/A	N/A	N/A	0.0	0.0	188.03	0%
	ANNUAL ⁽¹⁾	H	13.03160	2017	344611.31, 3526382.64, 1154.72, 1154.72, 0.00	12.5	25.5	94.02	27%

Notes:

- ⁽¹⁾ Highest Individual Annual Concentration Over 5 Years
- ⁽²⁾ Maximum 8th-Highest 24-Hour Concentration Averaged Over 5 Years
- ⁽³⁾ Maximum 8th-Highest Maximum Daily 1-Hour Concentration Averaged Over 5 Years
- ⁽⁴⁾ Demonstration of compliance with the 1-hour standard is automatically a demonstration of compliance with the 24-hour NMAAQs.

Stampede Meat, Inc. Santa Teresa, New Mexico
AERMOD Dispersion Modeling Analysis

Class II PSD Results - DR Generators and Large Boiler Only Plus All PSD Inventory Sources

POLLUTANT	AVERAGING TIME	Form	MAXIMUM MODELED CONCENTRATION (µg/m³)	PERIOD of MODELED MAX (Year or YYYYMMDDHH)	Location (UTME, UTMN, Elev., Hill, Flag)	Class II PSD Increment	% of Increment
PM₁₀	24 HOUR ⁽²⁾	H2H	25.02469	17110624	341431.31, 3525621.64, 1214.49, 1247.73, 0.00	30	83.4%
	ANNUAL ⁽¹⁾	H	5.70441	2017	341431.31, 3525622.64, 1214.49, 1247.73, 0.00	17	33.6%
PM_{2.5}	24 HOUR ⁽²⁾	H2H	2.69483	19093024	344511.31, 3526381.64, 1155.34, 1155.34, 0.00	9	29.9%
	ANNUAL ⁽¹⁾	H	1.09696	2017	344611.31, 3526382.64, 1154.72, 1154.72, 0.00	4	27.4%
NO₂	ANNUAL ⁽¹⁾	H	12.38230	2017	344611.31, 3526381.64, 1154.72, 1154.72, 0.00	25	49.5%

⁽¹⁾ Not to be exceeded

⁽²⁾ Not to be exceeded more than once per year

Stampede Meat, Inc. Santa Teresa, New Mexico
 AERMOD Dispersion Modeling Analysis
 Toxics Results

POLLUTANT	AVERAGING TIME	Form	MAXIMUM MODELED CONCENTRATION (mg/m ³)	PERIOD of MODELED MAX (Year or YYMMDDHH)	Location (UTME, UTMN, Elev., Hill, Flag)	Occupational Exposure Limit (mg/m ³)	Source % of Limit	1 % of Occupational Exposure Limit (mg/m ³)	Less Than?
Benzene ⁽²⁾	8 HOUR ⁽¹⁾	H	0.00024	18021208	344571.31, 3526321.64, 1156.35, 1156.35, 0.00	0.200	0.1%	0.002	Yes

⁽¹⁾ Not to be exceeded

⁽²⁾ Hazardous Air Pollutant

Stampede Meat, Inc. Santa Teresa, New Mexico
Background Data

POLLUTANT	AVERAGING TIME	Form	Location	NMED Background Concentration
PM-10	24-Hour	H2H	5935A Valle Vista, Sunland Park, NM	73
PM-2.5	24-Hour	98th %	5935A Valle Vista, Sunland Park, NM	24.3
	Annual	H	5935A Valle Vista, Sunland Park, NM	7.3
NO ₂	1-Hour	98th %	5935A Valle Vista, Sunland Park, NM	85.7
	Annual	H	5935A Valle Vista, Sunland Park, NM	12.5

Notes:

From New Mexico Air Modeling Guidance, 2019

Stampede Meat, Inc. Santa Teresa, New Mexico
PSD Cumulative Source Modeling Inputs

NO ₂ Point Sources									
Source ID	X Coord. [m]	Y Coord. [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Gas Exit Temperature [K]	Gas Exit Velocity [m/s]	Inside Diameter [m]	Description
EG1	344631.86	3526236.5	1156.62	7.46	0.282	790.3	62.045	0.406	3516DITA
EG2	344635.9	3526229.23	1156.59	7.46	0.282	790.3	62.045	0.406	3516DITA
B1	344619.05	3526374.98	1154.85	9.27	0.1255	449.8	5.7	0.597	Cleaver Brooks Boiler
B2	344619.05	3526371.71	1154.92	8.84	0.07755	505.4	5.12	0.495	Sellers Boiler
10011	341186.2	3525583.8	1242.8	6.1	0.1638	516.48	8.388	0.396	28823E1, New Mexico SunTower LLC - NM Sun Tower Project, Auxiliary Boiler
10012	341186.2	3525588.8	1242.8	6.1	0.0252	787.54	111.286	0.152	28823E2, New Mexico SunTower LLC - NM Sun Tower Project, Emergency Generator Engine
10028	339677.2	3526761.8	1252.7	7.28	0.2646	355.37	6.949	0.61	154E10, Georgia Pacific Corrugated - Vista Corrugated Paper Plant, 12.6 MMBtu/hr boiler
10029	339692.2	3526761.8	1252.7	12.19	0.315	355.37	6.34	0.506	154E3, Georgia Pacific Corrugated - Vista Corrugated Paper Plant, 14.6 MMBtu/hr boiler
10035	338773.3	3525911.7	1252.5	12.8	0.0504	316.48	9.705	0.305	28218E2, Johnson Plate and Tower - Santa Teresa Facility, Paint Cure Oven 1
10036	338773.3	3525911.7	1252.5	12.8	0.0504	316.48	9.705	0.305	28218E3, Johnson Plate and Tower - Santa Teresa Facility, Paint Cure Oven 2
10037	338773.3	3525906.7	1252.5	12.8	0.0504	572.6	9.705	0.305	28218E4, Johnson Plate and Tower - Santa Teresa Facility, Paint Cure Oven 3
10044	349018.2	3518200.8	1186.1	9.14	0.189	1273	20	0.294	167E5, Camino Real Landfill, Landfill Gas Utility Flare
10045	349899.2	3518201.1	1186.1	9.14	0.567	757.04	40.843	0.427	24483E2, Four Peaks Energy Plant No1, Landfill Gas Fired Engine (Caterpillar G3520C)
10046	349899.2	3518206.1	1186.1	9.14	0.567	757.04	40.813	0.43	24483E3, Four Peaks Energy Plant No1, Landfill Gas Fired Engine (Caterpillar G3520C)
50050	353613	3519500.8	1133.2	35.97	-20.04	403.15	8.047	2.844	122E10, El Paso Electric - Rio Grande Generating Station, removed Boiler#7 (scenario 2, gas portion)
50051	353613	3519505.8	1133.2	41.15	-45.77	399.26	10.302	4.063	122E12, El Paso Electric - Rio Grande Generating Station, removed Boiler #8 (1345 Mmbtu/hr Limit, scenario 2, gas portion)
50052	353618	3519505.8	1133.2	35.97	-20.75	394.82	8.992	2.844	122E7, El Paso Electric - Rio Grande Generating Station, removed Boiler#6 (scenario 2)
10056	353529.1	3519845.9	1136.1	7	0.0329	588	10	0.7	122E22, El Paso Electric - Rio Grande Generating Station, Natural gas-fired turbine, Unit #9
10061	332005	3524004.1	1255.6	8.53	0.2394	355.37	1.524	0.305	127E11, Sterigenics - Santa Teresa Facility, Natural Gas Fired Boiler - includes emissions for B1, B2, B3

Volume Sources									
Source ID	X Coord. [m]	Y Coord. [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Side Length [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]	Description
40009	346474.8	3526657.3	1145.6	10	2.0496	932.648	216.89	9.3	26582@1, Rinker Materials - Rinker Santa Teresa Pipe, GCP5-3602, Concrete Batch Plant
10013	341191.2	3525588.8	1242.8	6.1	0.2646	2.021	0.47	0.93	28823E3, New Mexico SunTower LLC - NM Sun Tower Project, Diesel Fire Pump
10016	341186.2	3525578.8	1242.8	6.1	0.1512	2.021	0.47	0.93	28823R1, New Mexico SunTower LLC - NM Sun Tower Project, Cleaning Vehicles (10)
10018	340122.4	3526445	1251.4	13.11	0.0378	12.9	3	5.58	133A2, FXI - Santa Teresa Plant, Liberty Laminator
10034	338773.3	3525906.7	1252.5	15.24	0.1134	12.9	3	5.58	28218E1, Johnson Plate and Tower - Santa Teresa Facility, Paint Booths 1, 2, and 3
10068	331995	3524009.1	1255.6	1	0.0504	2.021	0.47	0.93	127C8, Sterigenics - Santa Teresa Facility, Catalytic Oxidizer control for AR-08, 09, BV8.9,10,13, includes emissions
10070	332024.3	3521067.8	1250.9	10	1.4383	1865.297	433.79	9.3	38354@1, Miniconcrete - Plant No7 - GCP5 - 7756, Concrete Batch Plant

The Rinker Materials source was removed for NO₂ modeling. Discussions with NMED confirmed that although the source is permitted for 95 tpy of NO_x, the actual Rinker sources are far smaller and emit insignificant NO_x.

24hr PM10 POINT SOURCES									
Source ID	X Coord. [m]	Y Coord. [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Gas Exit Temperature [K]	Gas Exit Velocity [m/s]	Inside Diameter [m]	Description
EG1	344631.86	3526236.5	1156.62	7.46	0.14	790.3	62.045	0.406	3516DITA
EG2	344635.9	3526229.23	1156.59	7.46	0.14	790.3	62.045	0.406	3516DITA
B1	344619.05	3526374.98	1154.85	9.27	0.00954	449.8	5.7	0.597	Cleaver Brooks Boiler
B2	344619.05	3526371.71	1154.92	8.84	0.00589	505.4	5.12	0.495	Sellers Boiler
10012	341186.2	3525588.8	1242.8	6.1	0.2142	787.54	111.286	0.152	28823E1, New Mexico SunTower LLC - NM Sun Tower Project, Auxiliary Boiler
10015	341191.2	3525578.8	1242.8	6.1	0.2772	0	7	0.6	28823E2, New Mexico SunTower LLC - NM Sun Tower Project, Emergency Generator Engine
10045	349899.2	3518206.1	1186.1	9.14	0.1134	757.04	40.843	0.427	24483E2, Four Peaks Energy Plant No1, Landfill Gas Fired Engine (Caterpillar G3520C)
10046	349899.2	3518206.1	1186.1	9.14	0.1134	757.04	40.813	0.43	24483E3, Four Peaks Energy Plant No1, Landfill Gas Fired Engine (Caterpillar G3520C)
50050	353613	3519500.8	1133.2	35.97	-0.09205	403.15	8.047	2.844	122E10, El Paso Electric - Rio Grande Generating Station, removed Boiler#7 (scenario 2, gas portion)
50051	353613	3519505.8	1133.2	41.15	-0.224	399.26	10.302	4.063	122E12, El Paso Electric - Rio Grande Generating Station, removed Boiler #8 (1345 Mmbtu/hr Limit, scenario 2, gas portion)
50052	353618	3519505.8	1133.2	35.97	-0.4032	394.82	8.992	2.844	122E7, El Paso Electric - Rio Grande Generating Station, removed Boiler#6 (scenario 2)
10055	353529.1	3519850.9	1136.1	9	0.04027	0	7	0.6	122E17, El Paso Electric - Rio Grande Generating Station, Cooling Tower for Turbine GT-9 dup
10056	353529.1	3519845.9	1136.1	7	0.0322	588	10	0.7	122E22, El Paso Electric - Rio Grande Generating Station, Natural gas-fired turbine, Unit #9
10057	353529.1	3519840.9	1136.1	9	0.0007	0	7	0.6	122E23, El Paso Electric - Rio Grande Generating Station, Cooling Tower 9

VOLUME SOURCES									
Source ID	X Coord. [m]	Y Coord. [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Side Length [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]	Description
10009	346474.8	3526657.3	1145.6	10	2.0496	932.648	216.89	9.3	26582@1, Rinker Materials - Rinker Santa Teresa Pipe, GCP5-3602, Concrete Batch Plant
10027	339677.2	3526758.8	1252.7	16.76	0.374	127.626	29.68	9.3	154A1, Georgia Pacific Corrugated - Vista Corrugated Paper Plant, Corrugated Process Line
10034	338773.3	3525906.7	1252.5	15.24	0.0378	12.9	3	5.58	28218E1, Johnson Plate and Tower - Santa Teresa Facility, Paint Booths 1, 2, and 3
10038	338773.3	3525901.7	1252.5	15.24	0.0819	27.95	6.5	9.3	28218E8, Johnson Plate and Tower - Santa Teresa Facility, Blast Booths 1, 2, and 3
10039	338773.3	3525901.7	1252.5	6	0.0378	12.9	3	5.58	28218R1, Johnson Plate and Tower - Santa Teresa Facility, Fugitive Emissions from touchup coating outside
10040	338768.3	3525901.7	1252.5	6	0.0378	12.9	3	5.58	28218R2, Johnson Plate and Tower - Santa Teresa Facility, Welding Emissions
10042	339013	3519205.8	1216.3	10	0.6174	210.7	49	9.3	167A2, Camino Real Landfill, General Landfill Operations
10070	332024.3	3521067.8	1250.9	10	2.0496	1865.297	433.79	9.3	38354@1, Miniconcrete - Plant No7 - GCP5 - 7756, Concrete Batch Plant
10071	346502	3546887.4	1158.2	1	0.00126	2.021	0.47	0.93	35725E3, Jobe Materials - Harding Road Rail Yard, Truck Loading Spout 1, Cement
10072	346502	3546892.4	1158.2	1	0.00126	2.021	0.47	0.93	35725E4, Jobe Materials - Harding Road Rail Yard, Truck Loading Spout 2, Flyash
10073	346507	3546892.4	1158.2	2.2	0.01386	4.73	1.1	2.05	35725R3, Jobe Materials - Harding Road Rail Yard, Paved In-Plant Truck Roadway

Annual PM10 Point Sources									
Source ID	X Coord. [m]	Y Coord. [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Gas Exit Temperature [K]	Gas Exit Velocity [m/s]	Inside Diameter [m]	Description
EG1	344631.86	3526236.5	1156.62	7.46	0.008	790.3	62.045	0.406	3516DITA
EG2	344635.9	3526229.23	1156.59	7.46	0.008	790.3	62.045	0.406	3516DITA
B1	344619.05	3526374.98	1154.85	9.27	0.00954	449.8	5.7	0.597	Cleaver Brooks Boiler
B2	344619.05	3526371.71	1154.92	8.84	0.00589	505.4	5.12	0.495	Sellers Boiler
10012	341186.2	3525588.8	1242.8	6.1	0.2142	787.54	111.286	0.152	28823E1, New Mexico SunTower LLC - NM Sun Tower Project, Auxiliary Boiler
10015	341191.2	3525578.8	1242.8	6.1	0.2772	0	7	0.6	28823E2, New Mexico SunTower LLC - NM Sun Tower Project, Emergency Generator Engine
10045	349899.2	3518206.1	1186.1	9.14	0.1134	757.04	40.843	0.427	24483E2, Four Peaks Energy Plant No1, Landfill Gas Fired Engine (Caterpillar G3520C)
10046	349899.2	3518206.1	1186.1	9.14	0.1134	757.04	40.813	0.43	24483E3, Four Peaks Energy Plant No1, Landfill Gas Fired Engine (Caterpillar G3520C)
50050	353613	3519500.8	1133.2	35.97	-0.09205	403.15	8.047	2.844	122E10, El Paso Electric - Rio Grande Generating Station, removed Boiler#7 (scenario 2, gas portion)
50051	353613	3519505.8	1133.2	41.15	-0.224	399.26	10.302	4.063	122E12, El Paso Electric - Rio Grande Generating Station, removed Boiler #8 (1345 Mmbtu/hr Limit, scenario 2, gas portion)
50052	353618	3519505.8	1133.2	35.97	-0.4032	394.82	8.992	2.844	122E7, El Paso Electric - Rio Grande Generating Station, removed Boiler#6 (scenario 2)
10055	353529.1	3519850.9	1136.1	9	0.04027	0	7	0.6	122E17, El Paso Electric - Rio Grande Generating Station, Cooling Tower for Turbine GT-9 dup
10056	353529.1	3519845.9	1136.1	7	0.0322	588	10	0.7	122E22, El Paso Electric - Rio Grande Generating Station, Natural gas-fired turbine, Unit #9
10057	353529.1	3519840.9	1136.1	9	0.0007	0	7	0.6	122E23, El Paso Electric - Rio Grande Generating Station, Cooling Tower 9

VOLUME SOURCES									
Source ID	X Coord. [m]	Y Coord. [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Side Length [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]	Description
10009	346474.8	3526657.3	1145.6	10	2.0496	932.648	216.89	9.3	26582@1, Rinker Materials - Rinker Santa Teresa Pipe, GCP5-3602, Concrete Batch Plant
10027	339677.2	3526758.8	1252.7	16.76	0.374	127.626	29.68	9.3	154A1, Georgia Pacific Corrugated - Vista Corrugated Paper Plant, Corrugated Process Line
10034	338773.3	3525906.7	1252.5	15.24	0.0378	12.9	3	5.58	28218E1, Johnson Plate and Tower - Santa Teresa Facility, Paint Booths 1, 2, and 3
10038	338773.3	3525901.7	1252.5	15.24	0.0819	27.95	6.5	9.3	28218E8, Johnson Plate and Tower - Santa Teresa Facility, Blast Booths 1, 2, and 3
10039	338773.3	3525901.7	1252.5	6	0.0378	12.9	3	5.58	28218R1, Johnson Plate and Tower - Santa Teresa Facility, Fugitive Emissions from touchup coating outside
10040	338768.3	3525901.7	1252.5	6	0.0378	12.9	3	5.58	28218R2, Johnson Plate and Tower - Santa Teresa Facility, Welding Emissions
10042	339013	3519205.8	1216.3	10	0.6174	210.7	49	9.3	167A2, Camino Real Landfill, General Landfill Operations
10070	332024.3	3521067.8	1250.9	10	2.0496	1865.297	433.79	9.3	38354@1, Miniconcrete - Plant No7 - GCP5 - 7756, Concrete Batch Plant
10071	346502	3546887.4	1158.2	1	0.00126	2.021	0.47	0.93	35725E3, Jobe Materials - Harding Road Rail Yard, Truck Loading Spout 1, Cement
10072	346502	3546892.4	1158.2	1	0.00126	2.021	0.47	0.93	35725E4, Jobe Materials - Harding Road Rail Yard, Truck Loading Spout 2, Flyash
10073	346507	3546892.4	1158.2	2.2	0.01386	4.73	1.1	2.05	35725R3, Jobe Materials - Harding Road Rail Yard, Paved In-Plant Truck Roadway

Emission Rates in **Bold Italic** were adjusted from NMED provided rates based on either actual emission inventory values or NMED modeling guidance.

Stampede Meat, Inc. Santa Teresa, New Mexico
Toxic Emission Rates

Large Diesel Generators		Emission Factor	AP-42	EG1 & EG2	Combined
Toxic/Metal	HAP?	lb/mmBtu	Source	g/s (each)	lb/hr
Acenaphthene	No	4.68E-06	Table 3.4-4.	1.18E-05	1.88E-04
Acenaphthylene	No	9.23E-06	Table 3.4-4.	2.33E-05	3.70E-04
Acetaldehyde	Yes	2.52E-05	Table 3.4-3.	6.37E-05	1.01E-03
Acrolein	Yes	7.88E-06	Table 3.4-3.	1.99E-05	3.16E-04
Anthracene	No	1.23E-06	Table 3.4-4.	3.11E-06	4.94E-05
Benz(a)anthracene	No	6.22E-07	Table 3.4-4.	1.57E-06	2.50E-05
Benzene	Yes	7.76E-04	Table 3.4-3.	1.96E-03	3.11E-02
Benzo(a)pyrene	No	2.57E-07	Table 3.4-4.	6.50E-07	1.03E-05
Benzo(b)fluoranthene	No	1.11E-06	Table 3.4-4.	2.81E-06	4.45E-05
Benzo(g,h,i)perylene	No	5.56E-07	Table 3.4-4.	1.41E-06	2.23E-05
Benzo(k)fluoranthene	No	2.18E-07	Table 3.4-4.	5.51E-07	8.75E-06
Chrysene	No	1.53E-06	Table 3.4-4.	3.87E-06	6.14E-05
Dibenz(a,h)anthracene	No	3.46E-07	Table 3.4-4.	8.75E-07	1.39E-05
Fluoranthene	No	4.03E-06	Table 3.4-4.	1.02E-05	1.62E-04
Fluorene	No	1.28E-05	Table 3.4-4.	3.24E-05	5.14E-04
Formaldehyde	Yes	7.89E-05	Table 3.4-3.	1.99E-04	3.17E-03
Indeno(1,2,3-cd)pyrene	No	4.14E-07	Table 3.4-4.	1.05E-06	1.66E-05
Naphthalene	Yes	1.30E-04	Table 3.4-4.	3.29E-04	5.22E-03
Phenanthrene	No	4.08E-05	Table 3.4-4.	1.03E-04	1.64E-03
Propylene	No	2.79E-03	Table 3.4-3.	7.05E-03	1.12E-01
Pyrene	No	3.71E-06	Table 3.4-4.	9.38E-06	1.49E-04
Toluene	Yes	2.81E-04	Table 3.4-3.	7.10E-04	1.13E-02
Xylenes	Yes	1.93E-04	Table 3.4-3.	4.88E-04	7.75E-03

Natural Gas Combustion		Emission Factor	AP-42	Boiler 1	Boiler 2	Combined Boiler	Combined EG	Total	NMAC 20.2.72.502 Limit	Over Limit?
Toxic/Metal	HAP?	lb/10⁶ scf	Source	g/s	g/s	lb/hr	lb/hr	lb/hr	lb/hr	
2-Methylnaphthalene	Yes	2.40E-05	Table 1.4.3	3.01E-08	1.86E-08	3.87E-07		3.87E-07		
3-Methylcholanthrene	Yes	1.80E-06	Table 1.4.3	2.26E-09	1.40E-09	2.90E-08		2.90E-08		
7,12-Dimethylbenz(a)anthracene	Yes	1.60E-05	Table 1.4.3	2.01E-08	1.24E-08	2.58E-07		2.58E-07		
Acenaphthene	Yes	1.80E-06	Table 1.4.3	2.26E-09	1.40E-09	2.90E-08	1.88E-04	1.88E-04		
Acenaphthylene	Yes	1.80E-06	Table 1.4.3	2.26E-09	1.40E-09	2.90E-08	3.70E-04	3.70E-04		
Anthracene	Yes	2.40E-06	Table 1.4.3	3.01E-09	1.86E-09	3.87E-08	4.94E-05	4.94E-05		
Benz(a)anthracene	Yes	1.80E-06	Table 1.4.3	2.26E-09	1.40E-09	2.90E-08	2.50E-05	2.50E-05		
Benzene	Yes	2.10E-03	Table 1.4.3	2.64E-06	1.63E-06	3.38E-05	3.11E-02	3.12E-02	0.0133	yes
Benzo(a)pyrene	Yes	1.20E-06	Table 1.4.3	1.51E-09	9.31E-10	1.93E-08	1.03E-05	1.03E-05		
Benzo(b)fluoranthene	Yes	1.80E-06	Table 1.4.3	2.26E-09	1.40E-09	2.90E-08	4.45E-05	4.46E-05		
Benzo(g,h,i)perylene	Yes	1.20E-06	Table 1.4.3	1.51E-09	9.31E-10	1.93E-08	2.23E-05	2.23E-05		
Benzo(k)fluoranthene	Yes	1.80E-06	Table 1.4.3	2.26E-09	1.40E-09	2.90E-08	8.75E-06	8.78E-06		
Butane	No	2.10E+00	Table 1.4.3	2.64E-03	1.63E-03	3.38E-02		3.38E-02		
Chrysene	Yes	1.80E-06	Table 1.4.3	2.26E-09	1.40E-09	2.90E-08	6.14E-05	6.14E-05		
Dibenzo(a,h)anthracene	Yes	1.20E-06	Table 1.4.3	1.51E-09	9.31E-10	1.93E-08	1.39E-05	1.39E-05		
Dichlorobenzene	Yes	1.20E-03	Table 1.4.3	1.51E-06	9.31E-07	1.93E-05		1.93E-05	20	no
Ethane	No	3.10E+00	Table 1.4.3	3.89E-03	2.40E-03	5.00E-02		5.00E-02		
Fluoranthene	Yes	3.00E-06	Table 1.4.3	3.77E-09	2.33E-09	4.84E-08	1.62E-04	1.62E-04		
Fluorene	Yes	2.80E-06	Table 1.4.3	3.51E-09	2.17E-09	4.51E-08	5.14E-04	5.14E-04		
Formaldehyde	Yes	7.50E-02	Table 1.4.3	9.41E-05	5.82E-05	1.21E-03	3.17E-03	4.38E-03		
Hexane	Yes	1.80E+00	Table 1.4.3	2.26E-03	1.40E-03	2.90E-02		2.90E-02		
Indeno(1,2,3-cd)pyrene	Yes	1.80E-06	Table 1.4.3	2.26E-09	1.40E-09	2.90E-08	1.66E-05	1.66E-05		
Naphthalene	Yes	6.10E-04	Table 1.4.3	7.66E-07	4.73E-07	9.83E-06	5.22E-03	5.23E-03		
Pentane	No	2.60E+00	Table 1.4.3	3.26E-03	2.02E-03	4.19E-02		4.19E-02		
Phenanthrene	Yes	1.70E-05	Table 1.4.3	2.13E-08	1.32E-08	2.74E-07	1.64E-03	1.64E-03		
Propane	No	1.60E+00	Table 1.4.3	2.01E-03	1.24E-03	2.58E-02		2.58E-02		
Pyrene	Yes	5.00E-06	Table 1.4.3	6.28E-09	3.88E-09	8.06E-08	1.49E-04	1.49E-04		
Toluene	Yes	3.40E-03	Table 1.4.3	4.27E-06	2.64E-06	5.48E-05	1.13E-02	1.13E-02		
Arsenic	Yes	2.00E-04	Table 1.4.4	2.51E-07	1.55E-07	3.22E-06		3.22E-06		
Barium	No	4.40E-03	Table 1.4.4	5.52E-06	3.41E-06	7.09E-05		7.09E-05	0.0333	no
Beryllium	Yes	1.20E-05	Table 1.4.4	1.51E-08	9.31E-09	1.93E-07		1.93E-07		
Cadmium	Yes	1.10E-03	Table 1.4.4	1.38E-06	8.53E-07	1.77E-05		1.77E-05	0.00333	no
Chromium	Yes	1.40E-03	Table 1.4.4	1.76E-06	1.09E-06	2.26E-05		2.26E-05	0.0333	no
Cobalt	Yes	8.40E-05	Table 1.4.4	1.05E-07	6.51E-08	1.35E-06		1.35E-06	0.00667	no
Copper	No	8.50E-04	Table 1.4.4	1.07E-06	6.59E-07	1.37E-05		1.37E-05	0.0133	no
Manganese	Yes	3.80E-04	Table 1.4.4	4.77E-07	2.95E-07	6.12E-06		6.12E-06	0.0667	no
Mercury	Yes	2.60E-04	Table 1.4.4	3.26E-07	2.02E-07	4.19E-06		4.19E-06		
Molybdenum	No	1.10E-03	Table 1.4.4	1.38E-06	8.53E-07	1.77E-05		1.77E-05	0.333	no
Nickel	Yes	2.10E-03	Table 1.4.4	2.64E-06	1.63E-06	3.38E-05		3.38E-05	0.0667	no
Selenium	Yes	2.40E-05	Table 1.4.4	3.01E-08	1.86E-08	3.87E-07		3.87E-07	0.0133	no
Vanadium	No	2.30E-03	Table 1.4.4	2.89E-06	1.78E-06	3.71E-05		3.71E-05	0.00333	no
Zinc	No	2.90E-02	Table 1.4.4	3.64E-05	2.25E-05	4.67E-04		4.67E-04		