



Intrepid Potash – New Mexico, LLC
Post Office Box 101
Carlsbad, NM 88221
575.234.3881

September 9, 2024

New Mexico Environment Department - Air Quality Bureau
New Source Review
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
Attn: Ms. Julia Kuhn

Re: Intrepid Potash – New Mexico, LLC
East Plant AI#208; Eddy County
Application Requesting Significant Modification of Permit 755-M14

Dear Ms. Kuhn:

Intrepid Potash – New Mexico, LLC (“Intrepid”) respectfully submits this New Source Review Significant Permit Modification Application for the East Plant. Intrepid is submitting this application per 20.2.72.200.A.(2) to update and add portable non-road engines in the facility permit (NSR Permit 755-M14).

Tailings production is an inherent part of the mining process. Tailings are pumped from the process plant as a slurry to the tailings pile. Water draining from the tailings pile is managed through ponds which recirculate the water for reuse. The rental pump engines are to be used to manage water throughout the tailings pond system as needed.

Existing engines are GEN3 and ENG1 through ENG10. New engines being added are ENG11 through ENG13. Engines ENG4 through ENG7 and ENG9 through ENG13 will be rental diesel pump engines and will be required by contract to meet Tier 3 or greater exhaust standards of 40 CFR 89.112. ENG8 comprises a group of engines totaling no more than 825 horsepower (HP) and will be a Tier 2 or greater engine. GEN3 is an existing Tier 2 generator engine that is used periodically at the East Plant.

Intrepid is requesting an increase in the HP capacity for ENG5, ENG6, and ENG7. Additionally, Intrepid requests the flexibility to utilize all engines, except GEN3, up to 3,230 hours of operation per year per engine. For GEN3, Intrepid is requesting a limit of 1,500 hours per year of operation. Each of these engines will be tracked for operation and the hours will be recorded to show the hours for the month and on a rolling 12-month total basis.

Intrepid has performed the required public notice for this application. Documentation is included as Attachment C of the enclosed application. Additionally, a check in the amount of \$500 to cover the application processing fee is enclosed. If you have any questions or

Ms. Julia Kuhn, NMED

Page 2

September 9, 2024

require further information, please contact Jason Jones at 575.725.3043
(jason.jones@intrepidpotash.com) or me at 575.499.4611
(conrad.parrish@intrepidpotash.com).

Sincerely,

A handwritten signature in blue ink that reads "Conrad Parrish". The signature is written in a cursive style with a large, stylized "P" and a checkmark-like flourish at the end.

Conrad Parrish
Environmental Manager

Enclosure: Intrepid Potash East Plant NSR 755M14 Permit Modification Application

cc: Jason Jones, Environmental Supervisor
Ken Faulkner, PE, FC&E Engineering, LLC

INTREPID POTASH – NEW MEXICO, LLC EAST PLANT



NSR Air Permit 755-M14 Modification Application UNIVERSAL APPLICATION FORMS UA1 – UA3

Carlsbad, New Mexico
Eddy County

Submittal Date: September 2024

PREPARED BY:

FC&E ENGINEERING, LLC
807 COLONIAL COURT
CARLSBAD, NM 88220

(601) 824-1860



Table of Contents

Form UA-1

Section 1: General Facility Information –

Form UA-2

Section 2: Tables

Form UA-3

Section 3: Application Summary

Section 4: Process Flow Sheet

Section 5: Plot Plan Drawn to Scale

Section 6: All Calculations

Section 7: Information Used to Determine Emissions

Section 8: Map(s)

Section 9: Proof of Public Notice

Section 10: Written Description of the Routine Operations of the Facility

Section 11: Source Determination

Section 12: PSD Applicability Determination for All Sources & Special Requirements for a PSD Application

Section 13: Discussion Demonstrating Compliance with Each Applicable State & Federal Regulation

Section 14: Operational Plan to Mitigate Emissions

Section 15: Alternative Operating Scenarios

Section 16: Air Dispersion Modeling

Section 17: Compliance Test History

Section 18: Addendum for Streamline Applications (streamline applications only) – *Not Required*

Section 19: Requirements for the Title V (20.2.70 NMAC) Program (Title V applications only) – *Not Required*

Section 20: Other Relevant Information

Section 21: Addendum for Landfill Applications – *Not Required*

Section 22: Certification Page

Form UA-4

Modeling Documentation

Attachment A – Intrepid East Facility Wide Emission Calculations

Attachment B – Intrepid East Emission Supporting Documentation

Attachment C – Proof of Public Notice

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

Universal Air Quality Permit Application

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

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

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

Acknowledgements:

☐ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.
☒ \$500 NSR application Filing Fee enclosed **OR** ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).
☒ Check No.: [REDACTED] in the amount of [REDACTED]
☒ 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 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

1	Facility Name: EAST Plant	AI # if known (see 1 st 3 to 5 #s of permit IDEA ID No.): 208	Updating Permit/NOI #: 0755-M14
	Plant primary SIC Code (4 digits): 1400 Plant NAIC code (6 digits): 212391		
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): 210 Red Cloud Road, Carlsbad, NM 88220		
2	Plant Operator Company Name: Intrepid Potash – New Mexico, LLC	Phone/Fax: (575) 234-3856	
a	Plant Operator Address: P.O. Box 101, Carlsbad, NM 88221		
b	Plant Operator's New Mexico Corporate ID or Tax ID: 26-1501877		

3	Plant Owner(s) name(s): Intrepid Potash – New Mexico, LLC	Phone/Fax: (575) 234-3856
a	Plant Owner(s) Mailing Address(s): P.O. Box 101, Carlsbad, NM 88221	
4	Bill To (Company): Intrepid Potash – New Mexico, LLC	Phone/Fax: (575) 234-3856
a	Mailing Address: P.O. Box 101, Carlsbad, NM 88221	E-mail: amber.huber@intrepidpotash.com
5	<input checked="" type="checkbox"/> Preparer: <input type="checkbox"/> Consultant:	Phone/Fax: (601) 259-5217
a	Mailing Address: 807 Colonial Court, Carlsbad NM 88220	E-mail: kfaulkner@fce-engineering.com
6	Plant Operator Contact: Roy Torres, General Manager IPNM (Mining & Minerals)	Phone/Fax: (575) 234-3701
a	Address: P.O. Box 101, Carlsbad, NM 88221	E-mail: roy.torres@intrepidpotash.com
7	Air Permit Contact: Conrad Parrish	Title: Environmental Manager
a	E-mail: conrad.parrish@intrepidpotash.com	Phone/Fax: (575) 499-4611
b	Mailing Address: P.O. Box 101, Carlsbad, NM 88221	
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Is the facility currently shut down? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: P009-R3
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: 0755-M14
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: 450 Tons Ore Feed	Daily: 10,800 Tons Ore Feed	Annually: 3.942 MM Tons Ore Feed
b	Proposed	Hourly: No change	Daily: No change	Annually: No change
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: 75 TPH Lang; 80 TPH Potash	Daily: 1800 dry tons Lang; 1920 tons Potash	Annually: 657,000 dry tons Lang; 708,800 tons Potash
b	Proposed	Hourly: No change	Daily: No change	Annually: No change

Section 1-D: Facility Location Information

1	Section: 4	Range: 31E	Township: 21S	County: Eddy	Elevation (ft): 3,650
2	UTM Zone: <input type="checkbox"/> 12 or <input checked="" type="checkbox"/> 13			Datum: <input checked="" type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83 <input type="checkbox"/> WGS 84	
a	UTM E (in meters, to nearest 10 meters): 614,386			UTM N (in meters, to nearest 10 meters): 3,596,934	
b	AND Latitude (deg., min., sec.): 32°30'19.88"N			Longitude (deg., min., sec.): 103°46'57.0633"W	
3	Name and zip code of nearest New Mexico town: Carlsbad 88220				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Carlsbad, New Mexico, take US Highway 62 /180 East for approximately 30 miles. The EAST facility is on the right hand side, 2 miles from US Hwy 62/180.				
5	The facility is 32 (distance) miles ENE (direction) of Carlsbad, NM (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: N/A				
8	20.2.72 NMAC applications only : Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.env.nm.gov/aqb/modeling/classIareas.html)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers:				
9	Name nearest Class I area: Carlsbad Caverns National Park				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 52 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: 52 km				
12	Method(s) used to delineate the Restricted Area: "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 ($\frac{\text{hours}}{\text{day}}$): 24	($\frac{\text{days}}{\text{week}}$): 7	($\frac{\text{weeks}}{\text{year}}$): 52	($\frac{\text{hours}}{\text{year}}$): 8,760
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$)? Start: N/A		<input type="checkbox"/> AM <input type="checkbox"/> PM	End: N/A <input type="checkbox"/> AM <input type="checkbox"/> PM
3	Month and year of anticipated start of construction: Plant is in operation			
4	Month and year of anticipated construction completion: N/A			
5	Month and year of anticipated startup of new or modified facility: Plant is an existing operation			
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: N/A		NOV Tracking No: N/A
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: N/A	Date: N/A	Requirement # (or page # and paragraph #): N/A
d	Provide the required text to be inserted in this permit: N/A		
2	Is air quality dispersion modeling or modeling waiver being submitted with this application? <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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
a	If yes, include the name of company providing commercial electric power to the facility: <u>Excel Energy</u> Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

Section 1-G: Streamline Application

(This section applies to 20.2.72.300 NMAC Streamline applications only)

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

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

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

1	Responsible Official (R.O.) Roy Torres (20.2.70.300.D.2 NMAC):		Phone: (575) 234-3701
a	R.O. Title: General Manager IPNM (Mining & Minerals)	R.O. e-mail: roy.torres@intrepidpotash.com	
b	R. O. Address: P.O. Box 101, Carlsbad, NM 88221		
2	Alternate Responsible Official N/A (20.2.70.300.D.2 NMAC):		Phone: N/A
a	A. R.O. Title: N/A	A. R.O. e-mail: N/A	
b	A. R. O. Address: N/A		
3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship): N/A		
4	Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.): Intrepid Potash Inc.		
a	Address of Parent Company: 1001 17th Street, Suite 1050, Denver, CO 80202		
5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.): N/A		
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: (575) 499-4611		
7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: N/A		

Table 2-A: Regulated Emission Sources

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

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/Reconstruction ²	Emissions vented to Stack #				
1B	Boiler	Keeler Co.	PK-54	14262-1	50,000 pph	50,000-Max; 33,333-Avg (pph)	6/1/1965	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20NMAC 2.19	N/A
								1B		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
3B	Boiler	Keeler Co.	PK-54	14262-3	50,000 pph	50,000-Max; 33,333-Avg (pph)	6/1/1965	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20NMAC 2.19	N/A
								3B		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
5B	Boiler	Zurn	--	99682	64,800 pph	64,800 pph	8/1/1995	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20NMAC 2.19	N/A
								5B		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
7B	Boiler	Rentech Boiler Systems, Inc.	D-Type	2012-27	70,000 pph	70,000 pph	2012	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20NMAC 2.19	N/A
							Sep-13	7B		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
8B	Boiler	Rentech Boiler Systems, Inc.	D-Type	2012-28	70,000 pph	70,000 pph	2012	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20NMAC 2.19	N/A
							estimated Dec. 2013 / Jan. 2014	8B		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
1D	Rotary Dryer	Standard Steel Corp.	--	N/A	30 mmmbtu/hr	30 - Max; 24 Avg (mmmbtu/hr)	6/1/1965	1D		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20NMAC 2.19	N/A
								1D		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
10D	FLUIDIZED BED DRYER	Custom Design	Barr Rosin	75 tph	75 tph		9/2012	10S, 10cyc		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20 NMAC 2.19.109(A)(1)	N/A
								EP-10		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
10B	BURNER - FBD	Custom Design	Barr Rosin	20 mmmbtu/hr	20 mmmbtu/hr		9/2012	10S, 10cyc		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20 NMAC 2.19.109(A)(1)	N/A
								EP-10		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
10Conv	CONVEYOR - FBD DISCHARGE	Custom Design	AMEC Americas	75 tph	75 tph		9/2012	10S, 10cyc		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20 NMAC 2.19.7.A; 110.B	N/A
								EP-10		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
5	Product Load-out Screen Plant	various	various	N/A	N/A	N/A	6/1/1965	5		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20NMAC 2.19	N/A
							2010 (scrubber)	5		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
7	Raw Ore Crusher	Pennsylvania	various	N/A	N/A	N/A	6/1/1965	7		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20NMAC 2.19	N/A
								7		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
8	Sylvite Compactors #2 and #3	various	custom	N/A	N/A	N/A	6/1/1965	8		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20 NMAC 2.19.109(A)(2)	N/A
							6-16-2006(scrubber)	8		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
9	BURNER / COMBUSTION CHAMBER - DRYER	Custom built	N/A	N/A	20 mmmbtu/hr	20 mmmbtu/hr	1/2005	9		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	20 NMAC 2.19.109(A)(1)	N/A
								15		<input type="checkbox"/> To Be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #				
11 / F40 thru F67	Stack for F40-F46, F50-F56, F58-F67 Pelletizing Process	various	various	various	75 tph	75 tph	various	11		<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	20 NMAC 2.19.109(A)(1)	N/A
							9/2012	11				
F1 thru F7	Feeders, Belts, Screens, Crusher, Rotary	various	various	various	404 tph	404 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							1964	Fugitives				
F8 thru F15	Feeders, Belts, Screens, Mix Screws	various	various	various	89 tph	89 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							1964	Fugitives				
F16 thru F18	Belts	various	various	various	89 tph	89 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							1964	Fugitives				
F-19 thru F-20	Belts, Screens	various	various	various	89 tph	89 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							1964	Fugitives				
F21 thru F24	Feeders, Belts, Screens, Mix Screws	various	various	various	89 tph	89 tph	various	EP-05		<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	20 NMAC 2.19.7.A; 110.B	N/A
							1964	EP-05				
F-25	Paved Road Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A		<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	20 NMAC 2.19.7.A; 110.B	N/A
							N/A	Fugitives				
F-26	Unpaved Road Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A		<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	20 NMAC 2.19.7.A; 110.B	N/A
							N/A	Fugitives				
F-27 thru F-29	Belts, Diverters	various	various	various	250 tph	250 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							1964	Fugitives				
F-30 thru F-31	Belts, Diverter	various	various	various	250 tph	250 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							2008	Fugitives				
F-32	Belt, Screw	various	various	various	250 tph	250 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							1964	Fugitives				
F-33	Belt	various	various	various	250 tph	250 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							1964 / 2008	Fugitives				
F-34 thru F-37	Belts, Diverter	various	various	various	250 tph	250 tph	various	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
							2008	Fugitives				
F-38	HOPPER - MAGNETITE	Custom Design	AMEC Americas		0.1 tph	0.1 tph	9/2012	N/A		<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	20 NMAC 2.19.7.A; 110.B	N/A
								Fugitive				

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 #				
F-39	CONVEYOR - MAGNETITE	Custom Design	AMEC Americas		0.1 tph	0.1 tph	9/2012	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	20 NMAC 2.19.7.A; 110.B	N/A
								Fugitive				
F68	Material Handling (Operational Flexibility - combined activity unit)	N/A	various	various	NA	Emissions Cap	N/A	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	20 NMAC 2.19.7.A	N/A
							N/A	Fugitive				
F69	Material Handling (Operational Flexibility - combined activity unit)	N/A	N/A	N/A	N/A	Emissions Cap	N/A	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	20 NMAC 2.19.7.A	N/A
							N/A	Fugitive				
12	SALT DRYER WITH BAGHOUSE	Tarmac	6x30-PFD	BD448-DR1071	50 tph	50 tph	TBD	12		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	20 NMAC 2.19.109(A)(1)	N/A
								12				
ENG8	Various Diesel Engine(s)	TBD	TBD	TBD	TBD	825 HP	Varies due to Demand	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	CI	N/A
ENG10	Diesel Pump Engine	TBD	TBD	TBD	TBD	210 HP	Varies due to Demand	N/A		X Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	CI	N/A
ENG11	Catch Basin Backup Pump - Diesel Water Pump Engine	TBD	TBD	TBD	TBD	199 HP	Varies due to Demand	N/A		<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	CI; These units are listed in Section 2A since they are proposed. They will be insignificant activities under Title V.	N/A
ENG12	South Seal Backup Pump - Diesel Water Pump Engine	TBD	TBD	TBD	TBD	199 HP	Varies due to Demand	N/A		<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		
ENG13	New SW Seep - Water Pump Engine	TBD	TBD	TBD	TBD	199 HP	Varies due to Demand	N/A		<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced		N/A

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 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <http://www.env.nm.gov/aqb/forms/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction ²	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction ²	
GEN-1	Emergency Backup Diesel-fired Generator	John Deere	6068HF475E	200	20.2.72.202.B(1)(3) NMAC	2006	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
			N/A	HP	Item #7	2006/07	
GEN-2	Emergency Backup Diesel-fired Generator	Caterpillar	C27 ACERT	1,214	20.2.72.202.B(1)(3) NMAC	2010	<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
			MJE02184	HP	Item #7	2010	
FWP	Emergency Diesel-fired Fire Water Pump	John Deere	PE6068L276565	197	20.2.72.202.A(4) NMAC	2015	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
			N/A	HP	Item #7	2015	
Weed Flamer	Test trial of weed burner for drying salt	Red Dragon	N/A	N/A	20.2.72.202.B.(4)(5) NMAC	2017	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
			N/A	N/A	Item #7	2017	
ENG1	Mobile Salt Screen Diesel Engine	Caterpillar	CAT C4.4 AGERT	65 HP	Insignificant Activity List Item #6		<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
GEN3	Generator	TBD	TBD	49 HP	Insignificant Activity List Item #6		<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
ENG2	Air Compressor Gasoline Engine	TBD	TBD	13 HP	Insignificant Activity List Item #6		<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
ENG3	Light Tower Diesel Engine	TBD	TBD	25 HP	Insignificant Activity List Item #6		<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
ENG4	Diesel Pump Engine	TBD	TBD	99 HP	Insignificant Activity List Item #6		<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
ENG5	Diesel Pump Engine	TBD	TBD	199 HP	Insignificant Activity List Item #6		<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
ENG6	Diesel Pump Engine	TBD	TBD	199 HP	Insignificant Activity List Item #6		<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
ENG7	Diesel Pump Engine	TBD	TBD	199 HP	Insignificant Activity List Item #6		<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
ENG9	Diesel Pump Engine	TBD	TBD	99 HP	Insignificant Activity List Item #6		<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

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.

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	
ENG11	Catch Basin Backup Pump - Diesel Water Pump Engine	TBD	TBD	199 HP	Insignificant Activity List Item #6		<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
ENG12	South Seal Backup Pump - Diesel Water Pump Engine	TBD	TBD	199 HP	Insignificant Activity List Item #6		<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
ENG13	New SW Seep - Water Pump Engine	TBD	TBD	199 HP	Insignificant Activity List Item #6		<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced

Table 2-C: Emissions Control Equipment

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (c) 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
9	VENTURI SCRUBBER - EXISTING LANBEINITE	~ Jan. 2005	TSP/PM10/PM2.5	EP-09 (dryer only)	0.01 gr/dscf	Design
11S	VENTURI SCRUBBER - PELLETIZING	9/1/2012	TSP/PM10/PM2.5	F40 thru F67	0.01 gr/dscf	Design
11Cycl	CYCLONE - PELLETIZING	9/1/2012	TSP/PM10/PM2.5	F40 thru F67	99%>PM10	Design
12	Cyclone followed by Baghouse	TBD	TSP/PM10/PM2.5	12	99.97	Design
1D	Venturi Scrubber	1965	TSP/PM10/PM2.5	1D	99.8	Vendor Data
5	Wet Chamber Sprays	1965/2010	TSP/PM10/PM2.5	5	98	Typical Design
7	Wet Chamber Sprays	1965	TSP/PM10/PM2.5	7	99.8	Typical Design
8	1	2004	TSP/PM10/PM2.5	8	0.04 gr/dscf	Custom Design
10S	VENTURI SCRUBBER - FBD	9/1/2012	TSP/PM10/PM2.5	10D, 10Conv	> 99% (0.01 gr/dscf)	Design
10Cycl	CYCLONE - FBD DUST (No direct vent to the atmosphere. Cyclone vents to the Venturi Scrubber - 10S)	9/1/2012	TSP/PM10/PM2.5	10D, 10Conv	99.4	Design

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		TSP ²		PM10 ²		PM2.5 ²		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
1D	2.51	11.01	12.04	52.72	0.16	0.71	0.08	0.37	5376.00	23546.88	5416.00	23722.08	1276.48	5590.98	0.00	0.00	0.00	0.00
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	125.00	547.50	125.00	547.50	31.25	136.88	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	540.00	2365.20	540.00	2365.20	135.00	591.30	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	370.00	1620.50	370.00	1620.50	92.50	405.50	N/A	N/A	N/A	N/A
9	2.94	12.88	7.88	34.52	0.132	0.57	0.06	0.25	4950.90	21684.93	2147.69	9406.87	909.96	3985.63	0.00	0.00	0.00	0.00
Tanks	N/A	N/A	N/A	N/A	0.34	1.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B	7.15	31.31	6.01	26.3	0.39	1.72	0.17	0.75	0.54	2.38	0.54	2.38	0.54	2.38	0.00	0.00	0.00	0.00
3B	7.15	31.31	6.01	26.3	0.39	1.72	0.17	0.75	0.54	2.38	0.54	2.38	0.54	2.38	0.00	0.00	0.00	0.00
5B	9.55	39	7.82	31.96	0.51	2.09	0.27	1.09	0.71	2.89	0.71	2.89	0.71	2.89	0.00	0.00	0.00	0.00
10D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4950.90	21684.93	2182.24	9558.20	944.51	4136.97	N/A	N/A	N/A	N/A
10B	2.35	10.31	1.98	8.66	0.132	0.57	0.06	0.25	0.15	0.67	0.15	0.67	0.15	0.67	N/A	N/A	N/A	N/A
10Conv	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.23	0.99	0.08	0.36	0.02	0.10	N/A	N/A	N/A	N/A
F1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.57	N/A	N/A	N/A	N/A
F2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.57	N/A	N/A	N/A	N/A
F3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.57	N/A	N/A	N/A	N/A
F4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.57	N/A	N/A	N/A	N/A
F5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.57	N/A	N/A	N/A	N/A
F6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.57	N/A	N/A	N/A	N/A
F7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.57	N/A	N/A	N/A	N/A
F8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F15 - F19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F22	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	70.57	258.28	17.99	65.83	1.80	6.58	N/A	N/A	N/A	N/A

Unit No.	NOx		CO		VOC		SOx		TSP ²		PM10 ²		PM2.5 ²		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
F26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	171.14	195.10	43.62	49.72	4.36	4.97	N/A	N/A	N/A	N/A
F27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A
F38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
F39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
7B	3.36	14.73	3.46	15.14	0.37	1.64	0.12	0.53	0.71	3.11	0.71	3.11	0.71	3.11	0.00	0.00	4.7E-05	0.0002
8B	3.36	14.73	3.46	15.14	0.37	1.64	0.12	0.53	0.71	3.11	0.71	3.11	0.71	3.11	0.00	0.00	4.7E-05	0.0002
EP-11 (F40-F67)	-	-	-	-	-	-	-	-	38571.00	168941.00	1157.10	5068.00	154.30	676.00	-	-	-	-
EP-12	2.25	5.63	2.38	5.94	0.00	0.00	0.00	0.00	10208.00	44712.00	4083.00	17885.00	1021.00	4471.00	0.00	0.00	0.00	0.00
F68	-	-	-	-	-	-	-	-	4.66	5.81	2.24	2.78	0.33	0.41	-	-	-	-
F69	-	-	-	-	-	-	-	-	5.87	2.94	2.92	1.46	0.33	0.16	-	-	-	-
GEN1	6.20	1.55	1.34	0.33	0.49	0.00	0.41	0.10	0.44	0.11	0.44	0.11	0.44	0.11	0.00	0.00	0.00	0.00
GEN2	28.80	7.20	6.60	1.65	0.85	0.00	0.01	0.00	0.84	0.21	0.84	0.21	0.84	0.21	0.00	0.00	0.00	0.00
FWP	6.11	1.53	1.32	0.33	0.49	0.00	0.40	0.10	0.43	0.11	0.43	0.11	0.43	0.11	0.00	0.00	0.00	0.00
ENG1	2.02	8.83	0.43	1.90	0.16	0.72	0.13	0.58	0.14	0.63	0.14	0.63	0.14	0.63	0.00	0.00	0.00	0.00
GEN3	0.61	2.68	0.65	2.86	0.12	0.55	0.10	0.45	0.07	0.29	0.07	0.29	0.07	0.29	0.00	0.00	0.00	0.00
ENG2	0.14	0.63	0.09	0.40	0.28	1.23	0.01	0.03	0.01	0.04	0.01	0.04	0.01	0.04	0.00	0.00	0.00	0.00
ENG3	0.78	3.39	0.17	0.73	0.06	0.28	0.05	0.22	0.06	0.24	0.06	0.24	0.06	0.24	0.00	0.00	0.00	0.00
ENG4	0.73	1.09	0.81	1.22	0.25	0.37	0.20	0.30	0.07	0.29	0.07	0.10	0.07	0.10	0.00	0.00	0.00	0.00
ENG5	1.46	2.19	1.64	2.45	0.50	0.75	0.41	0.61	0.07	0.29	0.13	0.20	0.13	0.20	0.00	0.00	0.00	0.00
ENG6	1.46	2.19	1.64	2.45	0.50	0.75	0.41	0.61	0.07	0.29	0.13	0.20	0.13	0.20	0.00	0.00	0.00	0.00
ENG7	1.46	2.19	1.64	2.45	0.50	0.75	0.41	0.61	0.07	0.29	0.13	0.20	0.13	0.20	0.00	0.00	0.00	0.00
ENG8	9.67	14.50	10.85	16.28	2.07	3.11	1.69	2.54	1.09	4.75	1.09	1.63	1.09	1.63	0.00	0.00	0.00	0.00
ENG9	0.73	1.09	0.81	1.22	0.25	0.37	0.20	0.30	0.07	0.29	0.07	0.10	0.07	0.10	0.00	0.00	0.00	0.00
ENG10	1.54	2.31	1.73	2.59	0.53	0.79	0.43	0.65	0.07	0.30	0.14	0.21	0.14	0.21	0.00	0.00	0.00	0.00
ENG11	1.46	2.19	1.64	2.45	0.50	0.75	0.41	0.61	N/A	N/A	0.13	0.20	0.13	0.20	N/A	N/A	N/A	N/A
ENG12	1.46	2.19	1.64	2.45	0.50	0.75	0.41	0.61	N/A	N/A	0.13	0.20	0.13	0.20	N/A	N/A	N/A	N/A
ENG13	1.46	2.19	1.64	2.45	0.50	0.75	0.41	0.61	N/A	N/A	0.13	0.20	0.13	0.20	N/A	N/A	N/A	N/A
Totals	106.71	228.87	85.66	260.92	11.36	24.05	7.14	13.47	65371.33	285677.28	16102.81	70345.31	4581.51	20035.26	0.00	0.00	0.00	0.00

Unit No.	NOx		CO		VOC		SOx		TSP ²		PM10 ²		PM2.5 ²		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

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

Table 2-E: Requested Allowable Emissions

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

Unit No.	NO _x		CO		VOC		SO _x		TSP 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
1D	2.51	11.01	12.04	52.72	0.16	0.71	0.08	0.37	50.00	219.00	29.70	130.22	10.00	43.62	0.00	0.00	0.00	0.00
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.50	10.95	1.40	6.31	1.40	6.31	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00	5.00	1.00	5.00	1.00	5.00	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.40	32.41	0.30	1.32	0.07	0.31	N/A	N/A	N/A	N/A
Tanks	N/A	N/A	N/A	N/A	0.34	1.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B	7.15	31.31	6.01	26.3	0.39	1.72	0.17	0.75	0.54	2.38	0.54	2.38	0.54	2.38	0.00	0.00	0.00	0.00
3B	7.15	31.31	6.01	26.3	0.39	1.72	0.2	0.89	0.54	2.38	0.54	2.38	0.54	2.38	0.00	0.00	0.00	0.00
5B	9.55	39	7.82	31.96	0.51	2.09	0.14	0.56	0.76	2.94	0.76	2.94	0.76	2.94	0.00	0.00	0.00	0.00
10D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.02	26.50	6.02	26.50	6.02	26.50	N/A	N/A	N/A	N/A
10B	2.35	10.31	1.98	8.66	0.13	0.57	0.06	0.25	*	*	*	*	*	*	0.00	0.00	0.00	0.00
10Conv	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	N/A	N/A	N/A	N/A
									* Particulate emissions from 10B and 10Conv are included in the emissions for 10D									
F1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.56	N/A	N/A	N/A	N/A
F2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.56	N/A	N/A	N/A	N/A
F3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.56	N/A	N/A	N/A	N/A
F4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.56	N/A	N/A	N/A	N/A
F5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.56	N/A	N/A	N/A	N/A
F6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.56	N/A	N/A	N/A	N/A
F7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21	5.31	0.44	1.95	0.13	0.56	N/A	N/A	N/A	N/A
F8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
F13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
F14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F15 - F19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
F20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	1.17	0.10	0.43	0.03	0.12	N/A	N/A	N/A	N/A
F21 - F24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
F-25/F-26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.64	17.94	3.73	4.47	0.39	0.48	N/A	N/A	N/A	N/A
F27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
F28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	3.29	0.28	1.20	0.08	0.35	N/A	N/A	N/A	N/A

Unit No.	NOx		CO		VOC		SOx		TSP 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
F29-F37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
F-38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
F-39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
7B	3.36	12.22	3.46	12.56	0.37	1.36	0.12	0.44	0.71	2.58	0.71	2.58	0.71	2.58	0.00	0.00	4.7E-05	0.00017
8B	3.36	12.22	3.46	12.56	0.37	1.36	0.12	0.44	0.71	2.58	0.71	2.58	0.71	2.58	0.00	0.00	4.7E-05	0.00017
EP-09	2.94	12.88	7.88	34.52	0.13	0.57	0.06	0.25	2.88	12.63	2.88	12.63	2.88	12.63	0.00	0.00	0.00	0.00
EP-11 (F40-F67)	-	-	-	-	-	-	-	-	2.59	11.35	0.26	1.14	0.26	1.14	-	-	-	-
EP-12	2.25	5.63	2.38	5.94	0.00	0.00	0.00	0.00	3.06	7.70	3.06	7.70	3.06	7.70	0.00	0.00	0.00	0.00
F-68/F-69	-	-	-	-	-	-	-	-	8.17	5.37	4.13	2.63	0.48	0.28	-	-	-	-
GEN1	6.20	1.55	1.34	0.33	0.49	0.00	0.41	0.10	0.44	0.11	0.44	0.11	0.44	0.11	0.00	0.00	0.00	0.00
GEN2	28.80	7.20	6.60	1.65	0.85	0.00	0.01	0.00	0.84	0.21	0.84	0.21	0.84	0.21	0.00	0.00	0.00	0.00
FWP	6.11	1.53	1.32	0.33	0.49	0.00	0.40	0.10	0.43	0.11	0.43	0.11	0.43	0.11	0.00	0.00	0.00	0.00
ENG1	2.02	3.25	0.43	0.70	0.16	0.26	0.13	0.22	0.14	0.23	0.14	0.23	0.14	0.23	0.00	0.00	0.00	0.00
GEN3	0.58	0.44	0.65	0.49	0.12	0.09	0.10	0.08	0.07	0.05	0.07	0.05	0.07	0.05	0.00	0.00	0.00	0.00
ENG2	0.14	0.23	0.09	0.15	0.28	0.45	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.00	0.00	0.00	0.00
ENG3	0.79	1.28	0.17	0.28	0.06	0.10	0.05	0.08	0.06	0.09	0.06	0.09	0.06	0.09	0.00	0.00	0.00	0.00
ENG4	0.73	1.17	0.81	1.31	0.25	0.40	0.20	0.33	0.07	0.11	0.07	0.11	0.07	0.11	0.00	0.00	0.00	0.00
ENG5	1.46	2.36	1.64	2.64	0.50	0.81	0.41	0.66	0.13	0.21	0.13	0.21	0.13	0.21	0.00	0.00	0.00	0.00
ENG6	1.46	2.36	1.64	2.64	0.50	0.81	0.41	0.66	0.13	0.21	0.13	0.21	0.13	0.21	0.00	0.00	0.00	0.00
ENG7	1.46	2.36	1.64	2.64	0.50	0.81	0.41	0.66	0.13	0.21	0.13	0.21	0.13	0.21	0.00	0.00	0.00	0.00
ENG8	9.67	15.61	10.85	17.53	2.07	3.35	1.69	2.73	1.09	1.75	1.09	1.75	1.09	1.75	0.00	0.00	0.00	0.00
ENG9	0.73	1.17	0.81	1.31	0.25	0.40	0.20	0.33	0.07	0.11	0.07	0.11	0.07	0.11	0.00	0.00	0.00	0.00
ENG10	1.54	2.49	1.73	2.79	0.53	0.85	0.43	0.70	0.14	0.22	0.14	0.22	0.14	0.22	0.00	0.00	0.00	0.00
ENG11	1.46	2.36	1.64	2.64	0.50	0.81	0.41	0.66	0.13	0.21	0.13	0.21	0.13	0.21	N/A	N/A	N/A	N/A
ENG12	1.46	2.36	1.64	2.64	0.50	0.81	0.41	0.66	0.13	0.21	0.13	0.21	0.13	0.21	N/A	N/A	N/A	N/A
ENG13	1.46	2.36	1.64	2.64	0.50	0.81	0.41	0.66	0.13	0.21	0.13	0.21	0.13	0.21	N/A	N/A	N/A	N/A
Totals	106.70	215.96	85.66	254.22	11.36	22.33	7.04	12.59	116.48	413.46	63.81	232.49	34.11	126.09	0.00	0.00	0.00	0.00

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

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.

Printed 9/9/2024 12:01 PM

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

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

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

[illegible]

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

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

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)			
EP-09	EP-09 dryer only	V	No	100	136	333	333	20.6	47.157	3.00
EP-11	F40 thru F67	V	No	100	~ 70	750	640	~ 1.4	106.10	3.00
EP-12	12	V	No	36	230	102	102	61	75	1.33
EP-1D	1D	V	No	96	145	353	353	24.5	82.867	2.33
EP-05	5	V	No	70	70	209.89	209.89	0.6	42.70	2.50
EP-07	7	V	No	46	80	78.3	78.3	1	15.958	2.5
EP-08	8	V	No	100	81	527.17	527.17	3.6	52.3	3.58
EP-10	10D, 10B, 10Conv	V	No	114.6	106	335	240.82	24.3	59.98	2.67
1B	1B	V	No	35	390	345.18	345.18	N/A	33.4	3.625
3B	3B	V	No	35	390	345.18	345.18	N/A	33.4	3.625
5B	5B	V	No	35	345	471.12	471.12	N/A	48.9	3.5
7B	7B	V	No	45	300	420.45	420.45	N/A	48.2	3.33
8B	8B	V	No	45	300	420.45	420.45	N/A	48.2	3.33
RICE-1	GEN-1	H	No	9	200	Data not Available	Data not Available	<1	2-3	0.5
RICE-2	GEN-2	V	No	9	1000	Data not Available	Data not Available	<1	8-9	0.9
RICE-3	FWP	H	No	5	200	Data not Available	Data not Available	<1	2-3	0.5
ENG1	ENG1	H	No	3.28	900	6.82	6.00	~12%	276	0.18
GEN3	GEN3	H	No	3.28	900	5.20	4.58	~12%	276	0.15
ENG2	ENG2	H	No	3.28	1200	1.67	1.47	~12%	276	0.09
ENG3	ENG3	H	No	3.28	900	2.62	2.31	~12%	276	0.11
ENG4	ENG4	V	No	8.0	1085	11.05	9.72	~12%	126.62	0.33
ENG5	ENG5	V	No	8.0	1085	11.05	9.72	~12%	126.62	0.33
ENG6	ENG6	V	No	8.0	1085	11.05	9.72	~12%	126.62	0.33
ENG7	ENG7	V	No	8.0	1085	11.05	9.72	~12%	126.62	0.33

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)			
ENG8	ENG8	H	No	6.0	900	86.57	76.19	~12%	276	0.63
ENG9	ENG9	H	No	8	1085	11.05	9.724	~12%	126.62	0.33
ENG10	ENG10	V	No	6.0	900	22.04	19.39	~12%	276	0.32
ENG11	ENG11	V	No	8	900	20.88	18.3744	~12%	276	0.31
ENG12	ENG12	V	No	8	900	20.88	18.3744	~12%	276	0.31
ENG13	ENG13	V	No	8	900	20.88	18.3744	~12%	276	0.31

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		n-Hexane ^x 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
Entire Facility	Entire Facility	1.1	4.3	0.9	3.7														
Eng1 thru 13		0.03	0.04	0.00	0.00														
Gen 3		0.00	0.00	0.00	0.00														
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
1B	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.059 MMSCF *	615 MMSCF *	N/A	
3B	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.059 MMSCF *	615 MMSCF *	N/A	
5B	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.093 MMSCF *	761 MMSCF *	N/A	
EP-1D	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.028 MMSCF *	50 MMSCF *	N/A	
EP-10	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.019 MMSCF/hr	166 MMSCF	N/A	
EP-12	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.012 MMSCF	57.5 MMSCF	N/A	
7B	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.0849 MMSCF *	Combined 1,234 MMSCF *	N/A	
8B	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.0849MMSCF *		N/A	
EP-09	Natural Gas (Sweet)	Purchased commercial	1050 Btu/ft3	0.019 MMSCF/hr	166 MMSCF	N/A	
GEN-1	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	10 gallons/hour	4,925 gallons/year	N/A	
FWP	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	10 gallons/hour	5,000 gallons/year	N/A	
ENG1	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	3.99	9978	N/A	N/A
GEN3	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	3.05	7614	N/A	N/A
ENG2	Gasoline	Purchased commercial	115 MMBTU/1,000 Gallons	0.79	1978	N/A	N/A
ENG3	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	1.54	3838	N/A	N/A
ENG4	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	6.08	15197	N/A	N/A
ENG5	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	12	30548	N/A	N/A
ENG6	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	12	30548	N/A	N/A
ENG7	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	12	30548	N/A	N/A

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
ENG8	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	50.66	126645	N/A	N/A
ENG9	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	6.08	15197	N/A	N/A
ENG10	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	12.89	32237	N/A	N/A
ENG11	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	12	30548	N/A	N/A
ENG12	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	12	30548	N/A	N/A
ENG13	Diesel	Purchased commercial	140 MMBTU/1,000 Gallons	12	30548	N/A	N/A
				Fuel used based on an average brake-specific fuel consumption (BSFC) of 7,000 Btu/hp-hr	Annual use based on 3,230 hrs/yr, except for GEN-3 which is based on 1,500 hrs/yr.		
	* These values are stated as maximums. ** No more than 1 grains of sulfur / 100 scf. These are typical of sweet pipeline quality nat. gas. Intrepid will restrict annual natural gas combustion in the new boilers to no greater than 1234 million cubic feet on a						
	***Annual fuel consumption for the backup emergency generator and fire water pump is based on no more than 500 annual hours of operation for each unit. Actual operations are anticipated to be much less.						

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)
3A	2325050000	Armeen HT97	Formerly Tallowalkylamine (now empty)	6.65	ND	145	0.004	150	0.002
35	2325050000	Chemtreat CT-931A	Oleic Acid Sulfonate	9.42	ND	Ambient	ND	Ambient	ND
36	2325050000	Chemtreat CT-931B	Oleic Acid Sulfonate	9.42	ND	Ambient	ND	Ambient	ND
33	2325050000	Chemtreat CT-932A	Dispersant	9.35	ND	Ambient	17	Ambient	N/A
34	2325050000	Chemtreat CT-932B	Dispersant	9.35	ND	Ambient	17	Ambient	N/A
14	2325050000	Gasoline	Mixed Petroleum Hydrocarbons	6.2	66	Ambient	5.68	Ambient	7.22
1	2325050000	Diesel	Mixed Petroleum Hydrocarbons	6.8	130	Ambient	0.0108	Ambient	0.0178
4	2325050000	Diesel	Mixed Petroleum Hydrocarbons	6.8	130	Ambient	0.0108	Ambient	0.0178
39	2325050000	Diesel	Mixed Petroleum Hydrocarbons	6.8	130	Ambient	0.0108	Ambient	0.0178
41	2325050000	Diesel	Mixed Petroleum Hydrocarbons	6.8	130	Ambient	0.0108	Ambient	0.0178
46	2325050000	Diesel	Mixed Petroleum Hydrocarbons	6.8	130	Ambient	0.0108	Ambient	0.0178
28	2325050000	Diesel	Mixed Petroleum Hydrocarbons	6.8	130	Ambient	0.0108	Ambient	0.0178
2	2325050000	Hydraulic Oil	Petroleum Hydrocarbons & Additives	N/A	130	Ambient	0.002	Ambient	0.0021
3	2325050000	Gear Oil	Mixed Petroleum & Additives	N/A	130	Ambient	0.002	Ambient	0.0021
43	2325050000	Pale Oil	Mixed Petroleum Hydrocarbons	7.6	ND	Ambient	0.002	Ambient	0.0021
7	2325050000	Used Oil	Mixed Petroleum & Additives	N/A	130	Ambient	0.002	Ambient	0.0021
45	2325050000	Dust Controller (Nalco 82211)	Mixed Petroleum Hydrocarbons	7.3	ND	Ambient	0.002	Ambient	0.0021
37	2325050000	Dust Controller (Nalco 82208)	Mixed Petroleum Hydrocarbons	7.3	ND	Ambient	0.002	Ambient	0.0021

Table 2-L: Tank Data

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

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M ³)			Roof	Shell			
1	1970s	Diesel Fuel	N/A	FX	214	34	2.4384	N/A	OT	OT	Poor	110,485	12.28
2	1970s	Hydraulic Oil	N/A	FX	214	34	2.4384	N/A	OT	OT	Poor	145,495	16.17
3	1970s	Gear Oil	N/A	FX	214	34	2.4384	N/A	WH	WH	Poor	7,712	0.86
4	1980s	Diesel Fuel	N/A	FX	14	2	1	N/A	OT	OT	Good	7,200	12.00
5	1980s	Hydraulic Oil	N/A	FX	14	2	1	N/A	OT	OT	Good	7,200	12.00
6	1980s	Gear Oil	N/A	FX	14	2	1	N/A	OT	OT	Good	600	1.00
7	1980s	Used Oil Tank	N/A	FX	12	2	1	N/A	OT	OT	Good	6,179	10.30
14	1989	Gasoline	N/A	FX	48	8	1.8288	N/A	WH	WH	Poor	24,076	12.04
32	1998	Chemtreat BL-197	N/A	FX	12	2	1.9812	N/A	WH	WH	Good	110	1.00
33	1998	Chemtreat CT-932A	N/A	FX	145	23	2.4384	N/A	WH	WH	Good	13,302	2.22
34	1998	Chemtreat CT-932B	N/A	FX	95	15	2.4384	N/A	WH	WH	Good	13,302	3.33
35	1998	Chemtreat CT-931A	N/A	FX	145	23	2.4384	N/A	WH	WH	Good	11,105	1.85
36	1998	Chemtreat CT-931B	N/A	FX	95	15	2.4384	N/A	WH	WH	Good	11,105	2.78
45	2008	Dust Controller (Nalco 82211)	N/A	FX	310	49	4	N/A	OT	OT	Good	28,092	2.16
39	2008	Diesel Fuel	N/A	FX	6	1	1	N/A	OT	OT	Good	3,000	12.00
41	2008	Diesel Fuel	N/A	FX	6	1	1	N/A	OT	OT	Good	3,000	12.00
43	1989	Former Pale Oil	N/A	FX	238	38	34	N/A	OT	OT	Poor	0	0.00
37	2008	Dedust Oil (Nalco 82208)	N/A	FX	357	57	3	N/A	OT	OT	Poor	371,960	24.80
46	2008	Diesel Fuel	N/A	FX	13	2	1.2192	N/A	WH	WH	Good	6,300	12.00
28	unknown	Diesel Fuel	N/A	FX	7	1	1	N/A	WH	WH	Good	3,600	12.00

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

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

Note: 1.00 bbl = 0.159 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)
Langbeinite	2MgSO4, K2SO4	Solid	25.64 TPH	Pelletized Langbeinite	2MgSO4, K2SO4	Solid	75 TPH
Potash Ore	Typical Analysis: 20% KCl; 24.8% K2Mg2(SO4)3; 47% NaCl; 7% Clay; 1.2% Water	Solid	450 tons per hour (Max.)	Langbeinite: Standard and Granular	2MgSO4, K2SO4	Solid	75 dry TPH (monthly average basis); 657,000 TPY
				Soluble Potash (Sylvite) Standard or Compacted	2MgSO4, K2SO4	Solid	80 dry TPH (monthly average basis); 700,800 TPY
				Coarse Salt	2MgSO4, K2SO4	Solid	125 dry TPH

Table 2-N: CEM Equipment

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

[illegible]

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
EP-05	Pressure Drop	Across Scrubber	inches of WC	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-07	Pressure Drop	Across Scrubber	inches of WC	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-08	Pressure Drop	Across Scrubber	inches of WC	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-09	Pressure Drop	Across Scrubber	inches of WC	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-10D	Pressure Drop	Across Scrubber	inches of WC	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-11	Pressure Drop	Across Scrubber	inches of WC	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-05	Liquid Flowrate through scrubber	Scrubber influent	GPM	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-07	Liquid Flowrate through scrubber	Scrubber influent	GPM	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-08	Liquid Flowrate through scrubber	Scrubber influent	GPM	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-09	Liquid Flowrate through scrubber	Scrubber influent	GPM	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-10D	Liquid Flowrate through scrubber	Scrubber influent	GPM	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-11	Liquid Flowrate through scrubber	Scrubber influent	GPM	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-05	Fan amperage	Scrubber fan	amps	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-07	Fan amperage	Scrubber fan	amps	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-08	Fan amperage	Scrubber fan	amps	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-09	Fan amperage	Scrubber fan	amps	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-10D	Fan amperage	Scrubber fan	amps	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan
EP-11	Fan amperage	Scrubber fan	amps	see CAM Plan, or based on stack test	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan	Refer to CAM Plan

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											
1B	mass GHG	32915.09	0.06	0.62	0	0										32916	N/A
	CO ₂ e	32915.09	19.24	13.04	0	0										N/A	32947
3B	mass GHG	32915.09	0.06	0.62	0	0										32916	N/A
	CO ₂ e	32915.09	19.24	13.04	0	0										N/A	32947
5B	mass GHG	45708.72	0.09	0.86	0	0										45710	N/A
	CO ₂ e	45708.72	28.65	18.06	0	0										N/A	45755
7B	mass GHG	37059.50	0.07	0.70	0	0										37060	N/A
	CO ₂ e	37059.50	21.67	14.68	0	0										N/A	37096
8B	mass GHG	37059.50	0.07	0.70	0	0										37060	N/A
	CO ₂ e	37059.50	21.67	14.68	0	0										N/A	37096
9	mass GHG	10024.69	0.02	0.19	0	0										10025	N/A
	CO ₂ e	10024.69	5.86	3.97	0	0										N/A	10035
10	mass GHG	10024.69	0.02	0.19	0	0										10025	N/A
	CO ₂ e	10024.69	5.86	3.97	0	0										N/A	10035
12	mass GHG	6315.55	0.01	0.12	0	0										6316	N/A
	CO ₂ e	6315.55	3.69	2.50	0	0										N/A	6322
1D	mass GHG	15034.03	0.03	0.28	0	0										15034	N/A
	CO ₂ e	15034.03	8.79	5.95	0	0										N/A	15049
ENG1	mass GHG	120.72	0.0009	0.0048	0	0										120.7257	N/A
	CO ₂ e	120.72	0.27	0.12	0	0										N/A	121
GEN3	mass GHG	42.78	0.0003	0.0017	0	0										42.7820	N/A
	CO ₂ e	42.78	0.09	0.04	0	0										N/A	43
ENG2	mass GHG	22.67	0.0002	0.0010	0	0										22.6712	N/A
	CO ₂ e	22.67	0.0536936	0.025	0	0										N/A	23
ENG3	mass GHG	47.36	0.0004	0.0019	0	0										47.3623	N/A
	CO ₂ e	47.36	0.12	0.05	0	0										N/A	48
ENG4	mass GHG	183.87	0.0015	0.0074	0	0										183.8789	N/A
	CO ₂ e	183.87	0.45	0.19	0	0										N/A	185
ENG5	mass GHG	369.59	0.0030	0.0148	0	0										369.6078	N/A
	CO ₂ e	369.59	0.89	0.37	0	0										N/A	371
ENG6	mass GHG	369.59	0.0030	0.0148	0	0										369.6078	N/A
	CO ₂ e	369.59	0.89	0.37	0	0										N/A	371
ENG7	mass GHG	369.59	0.0030	0.0148	0	0										369.6078	N/A
	CO ₂ e	369.59	0.89	0.37	0	0										N/A	371
ENG8	mass GHG	1532.23	0.0123	0.0616	0	0										1532.3039	N/A
	CO ₂ e	1532.23	3.67	1.54	0	0										N/A	1537

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
ENG9	mass GHG	183.87	0.0015	0.0074	0	0									183.8789	N/A
	CO ₂ e	183.87	0.45	0.19	0	0									N/A	185
ENG10	mass GHG	390.02	0.0031	0.0157	0	0									390.0388	N/A
	CO ₂ e	390.02	0.92	0.39	0	0									N/A	391
ENG11	mass GHG	369.59	0.0030	0.0148	0	0									369.6078	N/A
	CO ₂ e	369.59	0.89	0.37	0	0									N/A	371
ENG12	mass GHG	369.59	0.0030	0.0148	0	0									369.6078	N/A
	CO ₂ e	369.59	0.89	0.37	0	0									N/A	371
ENG13	mass GHG	369.59	0.0030	0.0148	0	0									369.6078	N/A
	CO ₂ e	369.59	0.89	0.37	0	0									N/A	371
Total	mass GHG	231797.91	0.47	4.47	0.00	0.00									231803	N/A
	CO ₂ e	231797.91	146.06	94.65	0.00	0.00									N/A	232039

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

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

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

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

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

Section 3

Application Summary

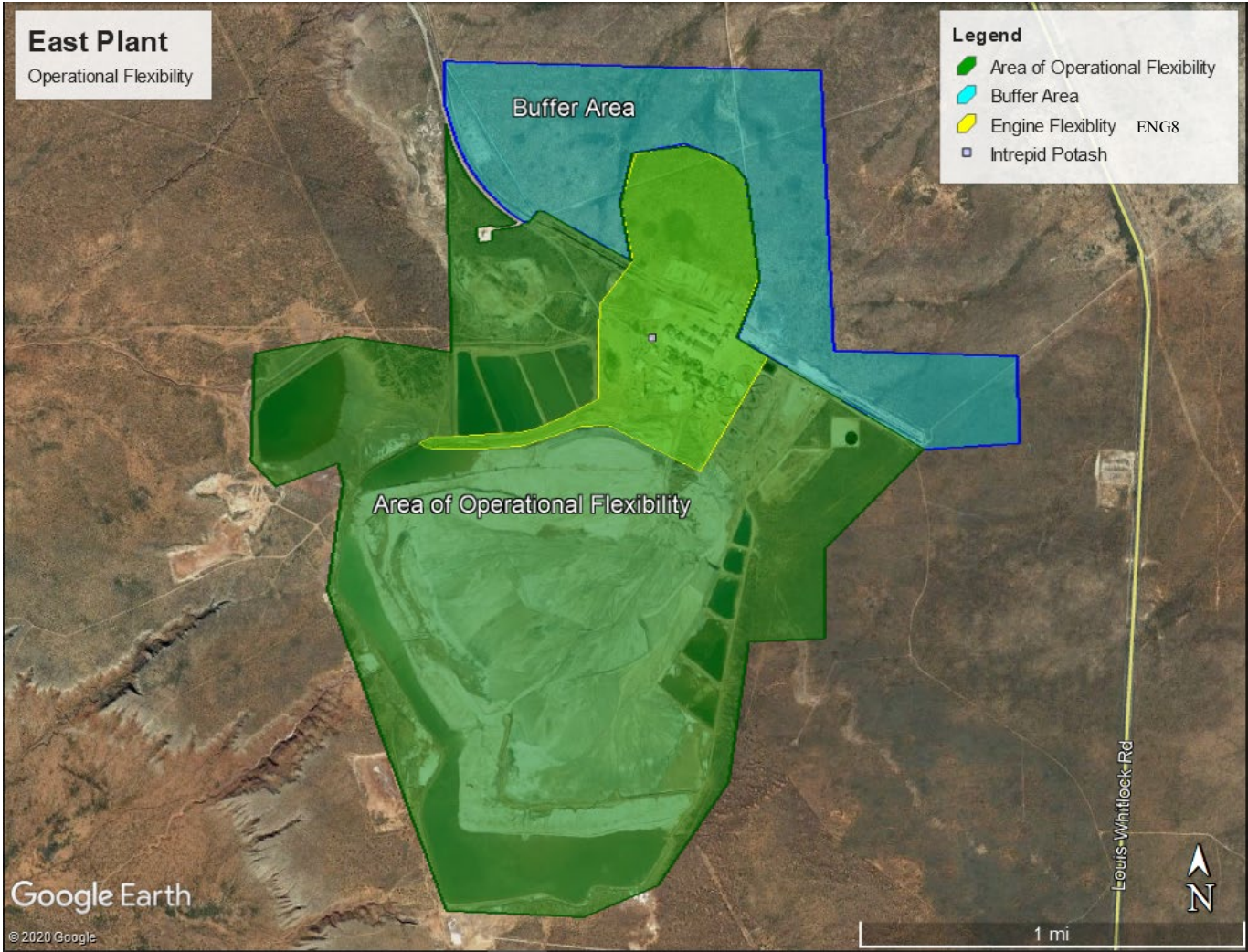
The **Application Summary** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. 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.

Intrepid Potash – New Mexico, LLC (“Intrepid”) is submitting this application per 20.2.72.200.A.(2) to update and add portable non-road engines in the facility permit (NSR Permit 755-M14). Existing engines are GEN3 and ENG1 through ENG10. New engines being added are ENG11 through ENG13. Engines ENG4 through ENG7 and ENG9 through ENG13 will be rental diesel pump engines and will be required by contract to meet Tier 3 or greater exhaust standards of 40 CFR 89.112. ENG8 comprises a group of engines totaling no more than 825 horsepower (HP) and will be a Tier 2 or greater engine. GEN3 is an existing Tier 2 generator engine that is used periodically at the East Plant. As an inherent part of the mining process, tailings are produced and are pumped as a slurry to the tailings pile. Water draining from the tailings pile is managed by ponds which recirculate the water for reuse. The rental pump engines are to be used to manage water throughout the tailings pond system as needed.

Intrepid is requesting an increase in the HP capacity for ENG5, ENG6, and ENG7. Additionally, Intrepid requests the flexibility to utilize all engines, with the exception of GEN3, up to 3,230 hours of operation per year per engine. For GEN3, Intrepid is requesting a limit of 1,500 hours per year of operation. Each of these engines will be tracked for operation and the hours will be recorded in log format to show the hours for the month and on a rolling 12-month total basis. ENG8 has a defined area of operational flexibility as shown in the yellow portion of the graphic on the next page.



Section 4

Process Flow Sheet

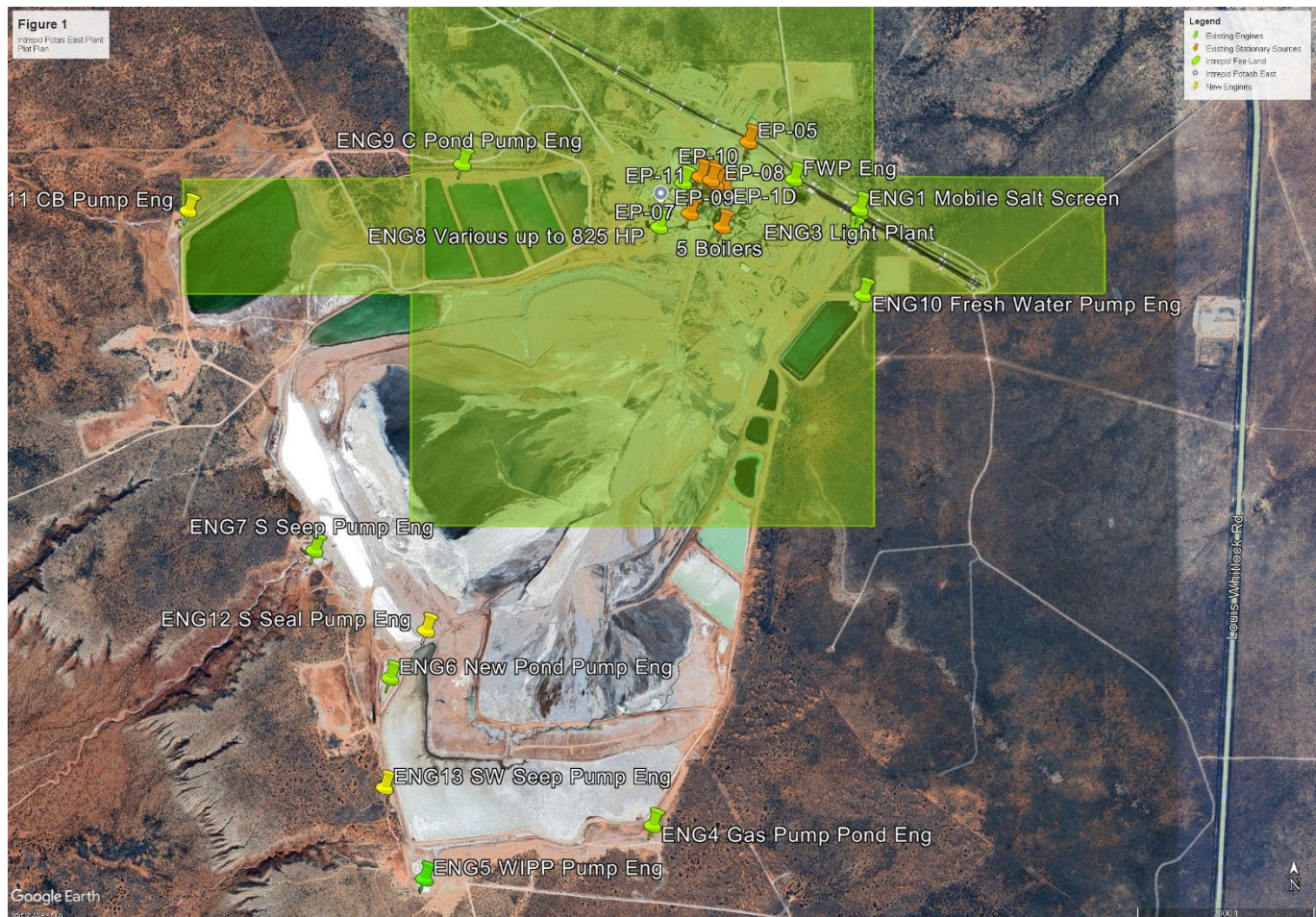
A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

The equipment to be permitted are portable non-road engines, a process flow is not applicable.

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.

See next page and Attachment A. A live Excel version of the emission calculations are being provided to NMED AQB for review as well.

Portable Non-road Engines

September 2024

AP-42 Table 3.3-1. Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines					EPA-420-B-16-022																																	Total			
Gasoline Fuel		Diesel Fuel		EMISSION FACTOR RATING	Emissions																																				
Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)		Max Tier 2 Engine (g/kw-hr)	Max Tier 3 Engine (g/kw-hr)	130skw@50 (g/kw-hr)	56 ≤ kw <75 (g/kw-hr)	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY					
NO _x	0.011	1.63	0.031	4.41	D	7.5	4.7	6.6	7.5	2.02	3.25	0.58	0.44	0.14	0.23	0.79	1.28	0.73	1.17	1.46	2.36	1.46	2.36	1.46	2.36	9.67	15.61	0.73	1.17	1.54	2.49	1.46	2.36	1.46	2.36	1.46	2.36	24.96	39.81		
CO	0.007	0.99	0.007	0.95	D	8	5	3.5	5	0.43	0.70	0.65	0.49	0.09	0.15	0.17	0.28	0.81	1.31	1.64	2.64	1.64	2.64	1.64	2.64	10.85	17.53	0.81	1.31	1.73	2.79	1.64	2.64	1.64	2.64	1.64	2.64	25.38	40.42		
SO _x	0.001	0.08	0.002	0.29	D					0.13	0.22	0.10	0.08	0.01	0.01	0.05	0.08	0.20	0.33	0.41	0.66	0.41	0.66	0.41	0.66	1.69	2.73	0.20	0.33	0.43	0.70	0.41	0.66	0.41	0.66	0.41	0.66	5.27	8.42		
PM ₁₀	0.001	0.10	0.002	0.31	D	0.8	0.4	0.2	0.4	0.14	0.23	0.07	0.05	0.01	0.02	0.06	0.09	0.07	0.11	0.13	0.21	0.13	0.21	0.13	0.21	1.09	1.75	0.07	0.11	0.14	0.22	0.13	0.21	0.13	0.21	0.13	0.21	2.41	3.84		
CO ₂	1.080	154.00	1.150	164	EPA 404 GHG factors					74.75	120.57	57.04	42.78	14.04	22.67	29.33	47.36	113.85	183.87	228.36	369.59	228.36	369.59	228.36	369.59	948.75	1532.23	113.85	183.87	241.50	390.02	228.36	369.59	228.36	369.59	228.36	369.59	2,966.20	4,741.08		
CH ₄		0.0066		0.0066							0.0030	0.0048	0.0023	0.0017	0.0006	0.0010	0.0012	0.0019	0.0046	0.0074	0.0092	0.0148	0.0092	0.0148	0.0092	0.0148	0.0381	0.0616	0.0046	0.0074	0.0097	0.0157	0.0092	0.0148	0.0092	0.0148	0.0092	0.0148	0.12	0.19	
N ₂ O		0.0013		0.0013							0.0006	0.0010	0.0005	0.0003	0.0001	0.0002	0.0002	0.0004	0.0009	0.0015	0.0018	0.0030	0.0018	0.0030	0.0018	0.0030	0.0076	0.0123	0.0009	0.0015	0.0019	0.0031	0.0018	0.0030	0.0018	0.0030	0.0018	0.0030	0.02	0.04	
Total CO ₂ e (short tons)																																									
Total CO ₂ e (metric tons)																																									
Aldehydes	0.000	0.07	0.000	0.07	D																																				
TOC										0.03	0.05	0.02	0.02	0.01	0.01	0.01	0.02	0.05	0.07	0.09	0.15	0.09	0.15	0.09	0.15	0.38	0.62	0.05	0.07	0.10	0.16	0.09	0.15	0.09	0.15	0.09	0.15	1.19	1.91		
Exhaust	0.015	2.10	0.002	0.35	D					0.16	0.26	0.12	0.09	0.20	0.31	0.06	0.10	0.24	0.39	0.49	0.79	0.49	0.79	0.49	0.79	2.04	3.29	0.24	0.39	0.52	0.84	0.49	0.79	0.49	0.79	0.49	0.79	6.54	10.45		
Exhaustive	0.001	0.09	0.000	0.00	E					0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Crankcase	0.005	0.69	0.000	0.01	E					0.00	0.00	0.00	0.00	0.06	0.10	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.06	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.18	0.28
Refueling	0.001	0.15	0.000	0.00	E					0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02

	Emissions based on AP-42 factor for gasoline	Annual operation limited to	3,230	hrs per engine limit
	Emissions based on AP-42 factor for diesel (GHG CO2e emissions are shown with GWP of 25 for CH4 and 298 for N2O included in calc)	GEN3 only	1500	hrs limit
	Emissions based on Tiered Compression Engine 56 ≤ kw <75			
	Emissions based on maximum Tier 2 emission rates			
	Emissions based on maximum emission standard for a Tiered Compression Engine greater than or equal to 75 kw			

Hourly Emissions

lb/hr = (EF lb/hp-hr) x (Capacity hp) or
lb/hr = (EF g/kw-hr) x (Capacity kw) x (lb/453.59 g)

TPY = (lb/hr) x (3230 hr/yr) x (ton/2000 lb)

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.

See Attachment B

AP-42, Chapter 3.3-1, Gasoline and Diesel Industrial Engines, October 1996.

Non-road engines proposed in the salt drying area and around the tailings pond are based upon the sizes that may be needed for the anticipated functions. The existing and proposed non-road engine emissions were based on the rental engines being a Tier 2 (GEN3 and ENG8) and Tier 3 or greater engine for all other portable non-road engines. Based on the size category, the engines will have a maximum emissions factor as summarized below.

Rated Power (kW)	Upper (kW)	HP	Tier	Model Year	NMHC (g/kW-hr)	NMHC + NOx (g/kW-hr)	NOx (g/kW-hr)	PM (g/kW-hr)	CO (g/kW-hr)
kW< 8	8	10.7	2	2005-2007	-	7.5	-	0.80	8.0
8≤kW<19	19	25.5	2	2005-2007	-	7.5	-	0.80	6.6
3 ≤kW<56	56	75.1	3	2008-2011	-	4.7	-	0.40	5.0
56≤kW< 5	75	100.5	3	2008-2011	-	4.7	-	0.40	5.0
75≤kW<130	130	174.3	3	2007-2011	-	4.0	-	0.30	5.0
130≤kW<225	225	301.6	3	2006-2010	-	4.0	-	0.20	3.5
225≤kW<450	450	603.2	3	2006-2010	-	4.0	-	0.20	3.5
450≤kW<560	560	750.7	3	2006-2010	-	4.0	-	0.20	3.5
560≤kW<900	746	1000.0	2	2006-2010	-	6.4	-	0.20	3.5

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	

See figure on next page.

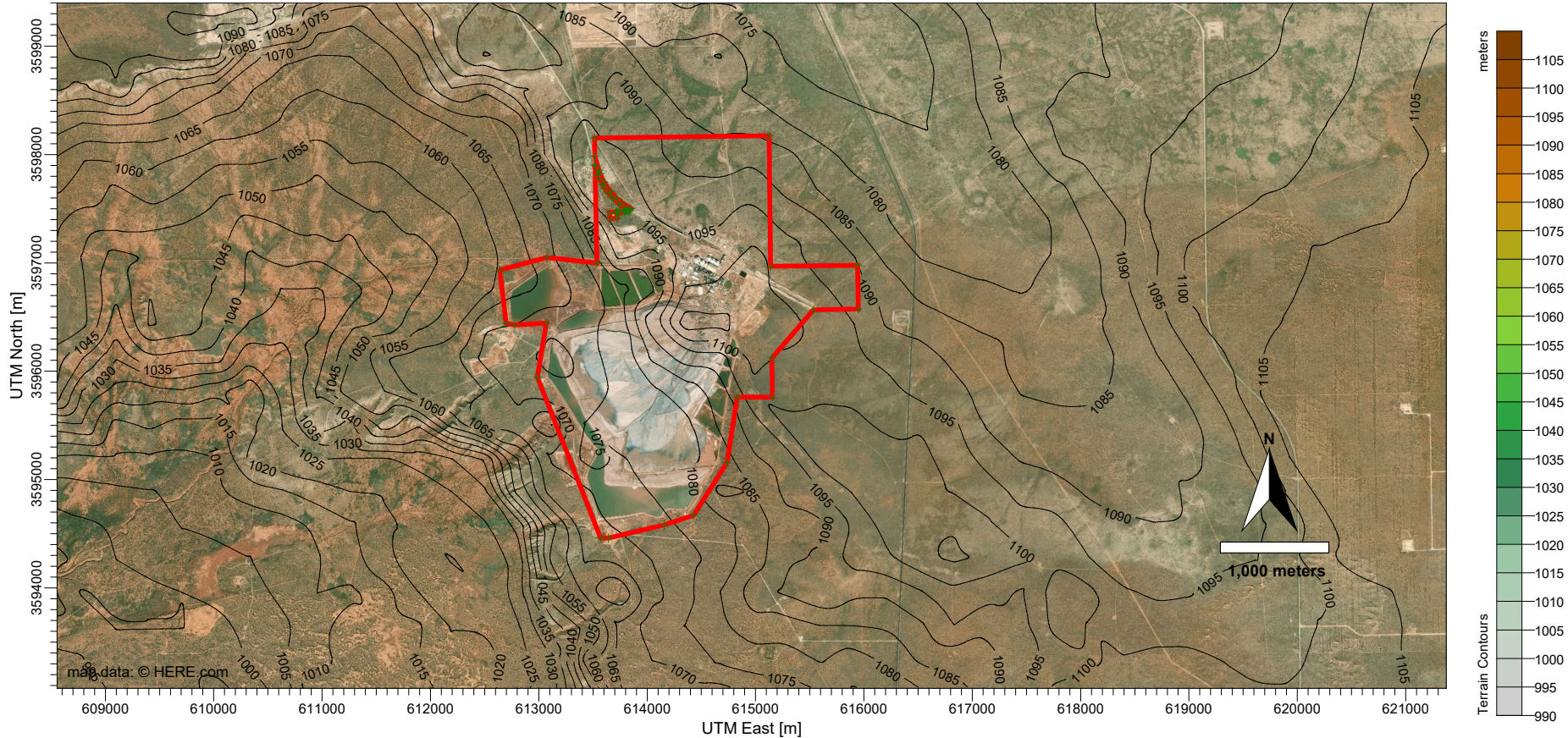


Figure 1 - Intrepid East Plant Boundaries. UTM Coordinates in NAD83 Zone 13. Elevation in meters, NED 1 deg.

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.
-

See attachment C

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.

Intrepid operates a potash, langbeinite, and salt production plant. In this process, ore is mined from an underground shaft mine, hoisted to the surface, and is put through parallel initial screens and a raw ore crusher, which is permitted as Unit 7. The crushed ore is mixed with brine: from this point, until the material is dried, the process occurs in solution.

The deslimed langbeinite is screened on a “Prep Screen”:

- The undersize material from the Prep Screen undergoes separation by hydrocyclone.
 - From the hydrocyclone, the more dense underflow undergoes further refining for recovery of fine langbeinite. The fine langbeinite is dewatered, then dried in a Rotary Dryer (Unit 1D), then conveyed to product storage domes or warehouse.
 - From the hydrocyclone, the less dense overflow is discharged as waste to the tailings impoundment.
- The oversize material from the Prep Screen is then combined with a magnetite slurry and sent to cyclones as part of a dense media separation (“DMS”).
 - From the DMS cyclone, more dense langbeinite and magnetite are discharged in cyclone underflow. The magnetite is separated from the langbeinite for reuse in the DMS circuit. Brine is removed from langbeinite, which is then dried in the Fluidized Bed Dryer (Unit 10). The dried langbeinite is screened into appropriate product size fractions (Unit 8), then conveyed to product storage domes or warehouse.
 - From the DMS cyclone, the less dense salt is discharged in cyclone overflow, which is screened on a “Float Screen.” The oversized material from the Float Screen may be recovered as a coarse salt product or pumped as waste to the tailings impoundment.

Fine langbeinite may be combined with a proprietary binder, as part of a proprietary process to produce a pelletized product. The fugitive emissions from the pelletizing process are collected in a dust control scrubber (Unit 11). The produced pellet is dried in a rotary dryer (Unit 9). The dried pellets are then conveyed to product storage domes or warehouse.

From product storage domes or warehouse, products may be dispatched via conveyor to a series of screens for final sizing, then discharged to truck or rail cars for offsite shipment. The fugitive emissions from the conveyors and screens are collected in a dust control scrubber (Unit 5).

NSR Permit 755-M14 authorized the installation and operation of the following units: In the salt drying area of the East Plant, Intrepid has portable diesel fired non-road engines for a diesel fired generator (GEN3) used to power equipment in the salt drying area, diesel fired mobile salt screen engine (ENG1), light tower gasoline engine (ENG2), and diesel fired air compressor engine (ENG3). Engine 4 through Engine 7 (ENG4 through ENG7) are diesel fired portable water pump engines used to pump seep water that is collected in pumpback ponds back into the tailings system. Engine 9 (ENG9) is a diesel fired water pump engine located near Intrepid’s Pond C area to facilitate as needed pumping for water management; Engine 10 (ENG10) is a diesel fired water pump engine located near the fresh water pond pump area to provide critical backup pump capability should our existing electric pumps go out. Additionally, Intrepid has the flexibility to bring various non-road engines (Noted in NSR Permit 755-M14 as ENG8) on-site totaling no more than 825 HP to perform various tasks that may be required around the plant area. This application requests a modification to NSR permit 755-M14 to allow additional hours of operation, increased HP for some engines, and the addition of three new portable non-road engines. Intrepid’s consultant performed ambient air quality modeling to determine compliance with the state and national ambient air quality standards. Forms UA-2 through UA-4 provide more detail on the requested changes.

Section 11

Source Determination

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

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

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

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

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

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

☐ Yes ☒ No

C. Make a determination:

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

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

Section 12

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

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

A. This facility is:

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

B. This facility **is** one of the listed 20.2.74.501 Table I – PSD Source Categories. The “project” emissions for this modification are **not significant. East Plant meets 20.2.74.501.F NMAC, fossil fuel boilers totaling more than 250 million BTU/hr heat input.** The “project” emissions listed below **do** only result from changes described in this permit application, thus no emissions from other **revisions or modifications, past or future** to this facility. Also, specifically discuss whether this project results in “de-bottlenecking”, or other associated emissions resulting in higher emissions. The project emissions (before netting) for this project are as follows [see Table 2 in 20.2.74.502 NMAC for a complete list of significance levels]:

- a. NOx: **39.81 TPY**
- b. CO: **40.42 TPY**
- c. VOC: **10.77 TPY**
- d. SOx: **8.42 TPY**
- e. PM: **3.84 TPY**
- f. PM10: **3.84 TPY**
- g. PM2.5: **3.84 TPY**
- h. Fluorides: **0 TPY**
- i. Lead: **0 TPY**
- j. Sulfur compounds (listed in Table 2): **0 TPY**
- k. GHG: **4,757.20 TPY**

C. Netting **is not required; the project is not significant.**

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

E. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered. **This modification supersedes NSR permit 755-M14, and re-establishes all emissions from the sources described in NSR permit 755-M14 specific to the portable non-road engines.**

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/>

Table for STATE REGULATIONS:

STATE REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 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	This applies to the entire facility.
20.2.19 NMAC	Potash	Yes	Units	Referenced regulation applies to 1D, 5, 7, 8, 9, 10, 11, F1-F24, F27-F37, F38-F39, F40-F67, & F68/69.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	Units	Units covered by this Permit do not have gas burning equipment with heat input of greater than 1,000,000 million British Thermal Units per year per unit.
20.2.34 NMAC	Oil Burning Equipment: NO ₂	No	Units	Units covered by this Permit do not have gas burning equipment with 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	N/A	This facility does not have natural gas processing plants that use a Sulfur Recovery Unit to reduce sulfur emissions.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.
20.2.38 NMAC	Hydrocarbon Storage Facility	No	N/A	Units covered by this Permit do not contain storage tanks that meet the criteria of the referenced regulation.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	Facility does not contain any affected equipment or activity referenced by this regulation.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	Units	GEN-1, GEN-2, FWP, ENG1 through ENG10, GEN3 and the proposed units ENG11 through ENG13 are subject to the referenced regulation.
20.2.70 NMAC	Operating Permits	Yes	Facility	Facility's potential to emit (PTE) exceeds 100 tpy or more of any regulated air pollutant other than HAPs.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	Facility is subject to operating permit fees.
20.2.72 NMAC	Construction Permits	Yes	Facility	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).
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	Facility is permitted for greater than 10 tpy of TSP, PM10, PM2.5, nitrogen oxides, and carbon monoxide; and is subject to emissions inventories.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	Facility	Limits on the annual operation of the existing and proposed equipment results in increases below the significant emission rates.

<u>STATE REGU- LATIONS</u> 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.)
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	Facility is subject to construction permit fees.
20.2.77 NMAC	New Source Performance	Yes	GEN-1, GEN-2, FWP	Permitted units, GEN-1, GEN-2, & FWP, are subject to 40 CFR 60 Subpart IIII. Proposed units ENG11 – ENG13, are proposed portable non-road engines. Portable or transportable (has wheels, skids, carrying handles, dolly, trailer or platform) engines are not covered by NSPS, i.e., nonroad engine as defined at 40 CFR 1068.30 are not stationary sources.
20.2.78 NMAC	Emission Standards for HAPS	Yes	General provisions only. No Units are Subject to 40 CFR 61	This facility emits hazardous air pollutants in minor amounts. The facility is subject to the General Provisions of 40 CFR 61. However, no individual units are subject to the requirements of 40 CFR Part 61.
20.2.79 NMAC	Permits – Nonattainment Areas	No	Facility	Facility is not located in a Non-Attainment Area.
20.2.80 NMAC	Stack Heights	No	N/A	Facility does not contain equipment subject to referenced regulation.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	GEN-1, GEN-2, FWP	This facility emits hazardous air pollutants in minor amounts. The facility is subject to the General Provisions of 40 CFR 63. Units GEN-1, GEN-2, and FWP are subject to the requirements of 40 CFR Part 63.

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

<u>FEDERAL REGU- LATIONS</u> CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	If subject, this would normally apply to the entire facility. This applies if you are subject to 20.2.70, 20.2.72, 20.2.74, and/or 20.2.79 NMAC.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	GEN-1, GEN-2, FWP	Permitted units, GEN-1, GEN-2, & FWP, are subject to the referenced regulation. Proposed units ENG11 – ENG13, are proposed portable non-road engines. Portable or transportable (has wheels, skids, carrying handles, dolly, trailer or platform) engines are not covered by NSPS, i.e., nonroad engine as defined at 40 CFR 1068.30 are not stationary sources.
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for Electric Utility Steam Generating Units	No	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR60.40b Subpart Db	Electric Utility Steam Generating Units	No	N/A	Facility does not contain equipment subject to referenced regulation.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial- Commercial- Institutional Steam Generating Units	Yes	5B, 7B, 8B	40 CFR 60 Subparts A & Dc applies to Boilers 5B, 7B, & 8B. 40 CFR 60 Subparts A & Dc do not apply to Boilers 1B and 3B since they were constructed prior to the effective date of this NSPS.
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	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for	No	N/A	Facility does not contain equipment subject to referenced regulation.

FEDERAL REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
	Which Construction, Reconstruction, or Modification Commenced After July 23, 1984			
NSPS 40 CFR 60.330 Subpart GG	Stationary Gas Turbines	No	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from Onshore Gas Plants	No	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for Onshore Natural Gas Processing: SO₂ Emissions	No	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60 Subpart OOO	Standards of Performance for NonMetallic Mineral Processing Plants	Potentially applicable	Coarse Salt crusher, screens, conveyors	Triple O applies to non-metallic mineral processing plants. EPA intentionally left out potash facilities from being subject to NSPS OOO; and potash processing operations do not meet the definitions within 40 CFR 60.671. Certain operations associated with sodium chloride compounds, such as those operations for coarse salt, may be subject to 40 CFR 60 Subpart OOO.
NSPS 40 CFR Part 60 Subpart OOOO	NSPS for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after August 23, 2011 and before September 18, 2015	No	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR Part 60 Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015	No	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	Yes	GEN-1, GEN-2, FWP	Permitted units, GEN-1, GEN-2, & FWP, are subject to the referenced regulation. Proposed units ENG11 – ENG13, are proposed portable non-road engines. Portable or transportable (has wheels, skids, carrying handles, dolly, trailer or platform) engines are not covered by NSPS, i.e., nonroad engine as defined at 40 CFR 1068.30 are not stationary sources.

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	No	Units	ENG2 is a spark engine that is a portable non-road engine not covered by NSPS.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No	N/A	Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No	N/A	Facility does not contain equipment subject to referenced regulation.
NESHAP 40 CFR 61 Subpart A	General Provisions	Yes	General provisions only. No Units are Subject to 40 CFR 61	This facility emits hazardous air pollutants in minor amounts. The facility is subject to the General Provisions of 40 CFR 61. However, no individual units are subject to the requirements of 40 CFR Part 61.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for Mercury	No	N/A	The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge. N/A. Intrepid does not perform these processes or operations.
NESHAP 40 CFR 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	No	N/A	Facility does not contain equipment subject to referenced regulation.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	GEN-1, GEN-2, FWP	This facility emits hazardous air pollutants in minor amounts. The facility is subject to the General Provisions of 40 CFR 63. However, only Units GEN-1, GEN-2, and FWP are subject to the requirements of 40 CFR Part 63.
MACT 40 CFR 63.760 Subpart HH	Oil and Natural Gas Production Facilities	No	N/A	N/A. Not in this source category.
MACT 40 CFR 63 Subpart HHH		No	N/A	N/A. Not in this source category.

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
MACT 40 CFR 63 Subpart DDDDD	NESHAP for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	Not in this source category. Intrepid is not a major source of HAPs.
MACT 40 CFR 63 Subpart JJJJJ	NESHAP for Area Sources Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	Intrepid's boilers are natural gas fired only units meeting the definition of "gas fired boiler" and thus are not subject to the Subpart JJJJJ. See 40 CFR 63.11237 and 63.11195(e).
MACT 40 CFR 63 Subpart UUUUU	NESHAP Coal & Oil Fire Electric Utility Steam Generating Unit	No	N/A	N/A. Not in this source category.
MACT 40 CFR 63 Subpart ZZZZ	NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Yes	GEN-1, GEN-2, FWP	GEN-1, GEN-2, and FWP are subject to the requirements of 40 CFR 63 Subpart ZZZZ, but fully comply by complying with the requirements of 40 CFR 60 Subpart IIII. See 40 CFR 63.6590(c). Proposed units ENG11 – ENG13, are portable non-road engines. Portable or transportable (has wheels, skids, carrying handles, dolly, trailer or platform) engines are not covered by NSPS, i.e., nonroad engine as defined at 40 CFR 1068.30 are not stationary sources.
40 CFR 64	Compliance Assurance Monitoring	Yes	Units 1D, 5, 7, 8, 9, 10, 11	Units that utilize a control device for control of air emissions subject to an emission limit or standard are subject to 40 CFR 64 if the pre-control emissions are greater than 100 tons per year. Intrepid has an approved CAM plan in use at the East Plant.
40 CFR 68	Chemical Accident Prevention	No	N/A	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	N/A	N/A. Not in this source category.
Title IV – Acid Rain 40 CFR 73	Sulfur Dioxide Allowance Emissions	No	N/A	N/A. Not in this source category.
Title IV-Acid Rain 40 CFR 75	Continuous Emissions Monitoring	No	N/A	N/A. Not in this source category.
Title IV – Acid Rain 40 CFR 76	Acid Rain Nitrogen Oxides Emission Reduction Program	No	N/A	N/A. Not in this source category.
Title VI – 40 CFR 82	Protection of Stratospheric Ozone	Yes	Facility, when performing MVAC or small appliance servicing	EPA Guidance Page for 40 CFR 82: https://www.epa.gov/section608 N/A (40 CFR 82.1 and 82.100) produce, transform, destroy, import or export a controlled substance or import or export a controlled product; Potentially Applicable (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; N/A (40 CFR 82.80) if you are a department, agency, and instrumentality of the United States subject to Federal procurement requirements;

FEDERAL REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
				<p>Potentially Applicable (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.
-

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).

No alternative operating scenarios are requested.

Section 16

Air Dispersion Modeling

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

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. Note: Neither modeling nor a modeling waiver is required for VOC emissions.	
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	X (SO ₂)
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
EP-1D, EP-5, EP-7, EP-8	Tested in accordance with Title V Permit No. P009 / NSR Permit No. 755	2009, and annually thereafter
EP-9, EP-10, and EP-11	Tested in accordance with Title V Permit No. P009 / NSR Permit No. 755	2012, and annually thereafter
Boilers 1B through 8B	Tested in accordance with Title V Permit No. P009 / NSR Permit No. 755	4/2013 and semi-annually thereafter

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.

Non-road engines proposed in the salt drying area and around the tailings pond are based upon the sizes that may be needed for the anticipated functions. Within the non-road engine flexibility area proposed the emissions were based on the engines being a Tier 3 engine or above to be included in the rental contract. Based on the size category, the engines will have a maximum emissions factor as summarized below.

Rated Power (kW)	Upper (kW)	HP	Tier	Model Year	NMHC (g/kW-hr)	NMHC + NOx (g/kW-hr)	NOx (g/kW-hr)	PM (g/kW-hr)	CO (g/kW-hr)
kW < 8	8	10.7	2	2005-2007	-	7.5	-	0.80	8.0
8 ≤ kW < 19	19	25.5	2	2005-2007	-	7.5	-	0.80	6.6
37 ≤ kW < 56	56	75.1	3	2008-2011	-	4.7	-	0.40	5.0
56 ≤ kW < 75	75	100.5	3	2008-2011	-	4.7	-	0.40	5.0
75 ≤ kW < 130	130	174.3	3	2007-2011	-	4.0	-	0.30	5.0
130 ≤ kW < 225	225	301.6	3	2006-2010	-	4.0	-	0.20	3.5
225 ≤ kW < 450	450	603.2	3	2006-2010	-	4.0	-	0.20	3.5
450 ≤ kW < 560	560	750.7	3	2006-2010	-	4.0	-	0.20	3.5
560 ≤ kW < 900	746	1000.0	2	2006-2010	-	6.4	-	0.20	3.5

Section 22: Certification

Company Name: Intrepid Potash – New Mexico, LLC

I, Roy Torres, 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 9th day of SEPTEMBER, 2024, upon my oath or affirmation, before a notary of the State of New Mexico.

*Signature



Roy Torres

Printed Name

Date

9-9-2024

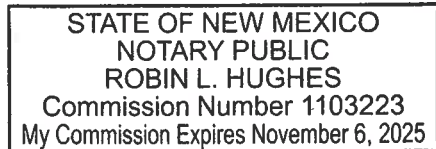
General Manager IPNM (Mining & Minerals)

Title

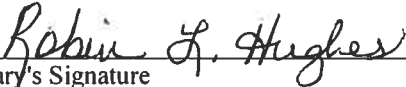
Scribed and sworn before me on this 9th day of SEPTEMBER, 2024.

My authorization as a notary of the State of NEW MEXICO expires on the

6th day of NOVEMBER, 2025.



Notary's Signature

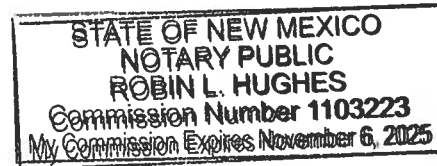


Date

9/9/2024

Notary's Printed Name

ROBIN L. HUGHES



*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:	East Plant
2	Name of company:	Intrepid Potash – New Mexico, LLC
3	Current Permit number:	0755-M14
4	Name of applicant's modeler:	Tyler McIntyre
5	Phone number of modeler:	601-665-2662
6	E-mail of modeler:	tmcintyre@fce-engineering.com

16-B: Brief

1	Was a modeling protocol submitted and approved?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2	Why is the modeling being done?	Adding New Equipment	
3	Describe the permit changes relevant to the modeling.		
	Addition of portable non-road engines		
4	What geodetic datum was used in the modeling?	NAD83	
5	How long will the facility be at this location?	Indefinite	
6	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

7	Identify the Air Quality Control Region (AQCR) in which the facility is located	155
8	List the PSD baseline dates for this region (minor or major, as appropriate).	
	NO2	February 8, 1988
	SO2	January 6, 1975
	PM10	January 6, 1975
	PM2.5	October 20, 2010
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).	
	None	
10	Is the facility located in a non-attainment area? If so describe below	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
11	Describe any special modeling requirements, such as streamline permit requirements.	
	None	

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	755-M14	July 6, 2021	
	NO ₂	755-M14	July 6, 2021	
	SO ₂	755-M14	July 6, 2021	
	H ₂ S			
	PM2.5	755-M14	July 6, 2021	
	PM10			
	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	NO ₂	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	SO ₂	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	H ₂ S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	PM _{2.5}	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PM ₁₀	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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. None					
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

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"/>

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	1-19-2024 Most current MergeMaster File
2	If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.	
	AQB Source ID	Description of Corrections

16-H: Building and structure downwash

1	How many buildings are present at the facility?	61 structures were included in the historical BPIP analysis. Proposed engines are not within the influence of buildings.	
2	How many above ground storage tanks are present at the facility?	4	
3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
4	Building comments	Cumulative analysis included the downwash parameters for the Intrepid East plant included in historical modeling.	

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>					
	Access to the East Plant is restricted by fencing, gates, signage, and/or rugged undeveloped terrain.					
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 checked="" type="checkbox"/>	No <input 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
	Discrete	Circle	100 m	0	6 km	
	Discrete	Circle	250 m	6 km	11.5 km	
	Describe receptor spacing along the fence line.					

5	50 m
6	Describe the PSD Class I area receptors. N/A

16-J: Modeling Scenarios

1	Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).											
2	Which scenario produces the highest concentrations? Why?											
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 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:											
5	Hour of Day	Factor	Hour of Day	Factor								
	1		13									
	2		14									
	3		15									
	4		16									
	5		17									
	6		18									
	7		19									
	8		20									
	9		21									
	10		22									
	11		23									
	12		24									
If hourly, variable emission rates were used that were not described above, describe them below.												
6	Were different emission rates used for short-term and annual modeling? If so describe below.										Yes <input type="checkbox"/>	No <input type="checkbox"/>

16-K: 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.		
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"/>
4	Describe the design value used for each averaging period modeled.		
	1-hour: High eighth high Annual One Year Annual Average:		

16-L: Ozone Analysis

1	<p>NMED has performed a generic analysis that demonstrates sources that are minor with respect to PSD do not cause or contribute to any violations of ozone NAAQS. The analysis follows.</p> <p>The basis of the ozone SIL is documented in Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program, EPA, April 17, 2018 and associated documents. NMED accepts this SIL basis and incorporates it into this permit record by reference. Complete documentation of the ozone concentration analysis using MERPS is included in the New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines.</p>			
2	<p>The MERP values presented in Table 10 and Table 11 of the NM AQB Modeling Guidelines that produce the highest concentrations indicate that facilities emitting no more than 250 tons/year of NO_x and no more than 250 tons/year of VOCs will cause less formation of O₃ than the O₃ significance level.</p> $[O_3]_{8-hour} = \left(\frac{250 \frac{ton}{yr}}{340_{MERP_{NOX}}} + \frac{250 \frac{ton}{yr}}{4679_{MERP_{VOC}}} \right) \times 1.96 \mu g/m^3$ <p>=1.546 μg/m³, which is below the significance level of 1.96 μg/m³.</p> <p>Sources that produce ozone concentrations below the ozone SIL do not cause or contribute to air contaminant levels exceeding the ozone NAAQS.</p>			
3	Does the facility emit at least 250 tons per year of NO _x or at least 250 tons per year of VOCs? Sources that emit at least 250 tons per year of NO _x or at least 250 tons per year of VOCs are covered by the analysis above and require an individual analysis.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
5	For new PSD Major Sources or PSD major modifications, if MERPs were used to account for ozone fill out the information below. If another method was used describe below.			
	NO _x (ton/yr)	MERP _{NOX}	VOCs (ton/yr)	MERP _{VOC}
				[O ₃] _{8-hour}

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.				
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 checked="" type="checkbox"/>	No <input 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.				
	Pollutant	NO _x	SO ₂		[PM2.5] _{24-hour}
	MERP _{annual}				
	MERP _{24-hour}				[PM2.5] _{annual}
	Emission rate (ton/yr)				

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

16-O: PSD Increment and Source IDs

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 checked="" 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 checked="" 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 checked="" type="checkbox"/>
4	Which units consume increment for which pollutants?				
	Unit ID	NO ₂	SO ₂	PM10	PM2.5
	8			X	
	7B			X	X
	8B			X	X
	10D			X	X
	EP-09			X	
	EP-11			X	X
	(F40-F67)			X	
	Dryer	X	X	X	X
	F-38 & F-39			X	X
	F-25/26			X	X
	F-68/69			X	X
	ENG1-ENG13	X	X	X	X
GEN3	X	X	X	X	
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 checked="" 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)

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 checked="" type="checkbox"/>	No <input type="checkbox"/>
	If not please explain how increment consumption status is determined for the missing installation dates below.		
	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		

2	
3	Describe how the volume sources are related to unit numbers. Or say they are the same.
4	Describe any open pits.
5	Describe emission units included in each open pit.

16-R: Background Concentrations

1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	CO: Del Norte High School (350010023)			
	NO ₂ : Outside Carlsbad (350151005)			
	PM _{2.5} : Hobbs-Jefferson (350450019)			
	PM ₁₀ : Hobbs-Jefferson (350250008)			
	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"/>

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"/>
	Artesia 2018		
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.		

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"/>
	What was the source of the terrain data?		

2	http://www.webgis.com/ , downloaded through Lakes Environmental AERMOD-View GUI.
---	-----------------------------------------------------------------------------------------------------------------------

16-U: Modeling Files

1	Describe the modeling files:		
	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
	SIA/CO.zip	CO	ROI/SIA
	SIA/NOX.zip	NOx	ROI/SIA
	SIA/PM25.zip	PM _{2.5}	ROI/SIA
	SIA/SO2.zip	SO ₂	ROI/SIA
	CIA/NOx.zip	NOx	Cumulative NAAQS and PSD
	CIA/PM25.zip	PM _{2.5}	Cumulative NAAQS
	CIA/SOx.zip	SO ₂	Cumulative NAAQS and PSD
	NOx.bpi	Building	Historical file, proposed sources are not within building influence.

16-V: PSD New or Major Modification Applications – N/A

1	A new PSD major source or a major modification to an existing PSD major source requires additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
5	If required, have ozone and secondary PM _{2.5} ambient impacts analyses been completed? If so describe below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

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"/>	
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)
SO ₂ 3-hr PSD	40.25	43.55	N/A	N/A	36.53	512	7.14	613552.00	3594494.00	1070.48
SO ₂ 24-hr PSD	18.30	23.93	N/A	N/A	16.69	91	18.34	613552.51	3594508.22	1070.73
SO ₂ Annual PSD	3.75	4.25	N/A	N/A	3.55	20	17.75	613552.51	3594508.22	1070.73
SO ₂ 1-hr NAAQS	60.71	60.74	N/A	N/A	60.80	196.4	30.96	613552.00	3594494.00	1070.48
CO 1-hr SIL	243.61	N/A	N/A	N/A	243.61	2000	12.18	615139.06	3597017.54	1099.83
CO 8-hr SIL	141.65	N/A	N/A	N/A	141.65	500	28.33	613552.51	3594508.22	1070.73
**PM ₁₀ 24-hr NAAQS	8.11	8.26	N/A	37.3	45.19	150	30.13	615135.91	3597258.32	1097.80
**PM ₁₀ 24-hr PSD	8.11	8.26	N/A	N/A	7.89	30	26.30	615139.69	3596969.38	1100.23
**PM ₁₀ Annual PSD	1.32	2.07	N/A	N/A	2.07	17	12.18	615139.69	3596969.38	1100.23
PM _{2.5} 24-hr NAAQS	8.11	8.26	N/A	13.4	21.302	35	60.86	615139.69	3596969.38	1100.23
PM _{2.5} Annual NAAQS	1.32	2.07	N/A	5.9	7.9706	12	66.42	615139.69	3596969.38	1100.23
*PM _{2.5} 24-hr PSD	8.11	8.26	N/A	N/A	7.902	9	87.80	615139.06	3597017.54	1099.83
*PM _{2.5} Annual PSD	1.32	2.07	N/A	N/A	2.0706	4	51.77	615139.69	3596969.38	1100.23
*NO ₂ Annual PSD	21.24	14.90	N/A	N/A	14.90	25	59.60	613552.51	3594508.22	1070.73
NO ₂ Annual NMAAQs	21.24	14.90	N/A	N/A	14.90	94.02	15.85	613552.51	3594508.22	1070.73
NO ₂ 1-hr NAAQS	276.97	141.70	N/A	N/A	141.70	188.03	75.36	615139.69	3596969.38	1100.23

*High first High passed model; therefore, used in place of PSD. **Assume PM₁₀=PM_{2.5}.

16-X: Summary/conclusions

	A statement that modeling requirements have been satisfied and that the permit can be issued.
1	The facility was modeled following the NMED Air Quality Modeling Guideline, revised June 2024. The significance analysis for CO, SO ₂ , and NO ₂ included the new proposed sources. All the impacts were found to be compliant with the NMAAQs, NAAQS and PSD increment. The proposed sources will, therefore, not cause or contribute to a violation of the ambient standards and the permit can be issued.

ATTACHMENT A

INTREPID EAST PLANT AIR EMISSIONS CALCULATIONS SPECIFIC TO THE REQUESTED CHANGES

Intrepid Potash East Plant

Portable Non-road Engines

September 2024

AP-42 Table 3.3-1. Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines					EPA 420-R-16-022		Emissions																																Total			
Gasoline Fuel		Diesel Fuel		EMISSION FACTOR RATING	Diesel Fuel				Emissions																																lb/hr	TPY
Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)		Max Tier 2 Engine (g/kw-hr)	Max Tier 3 Engine (g/kw-hr)	Max Tier 4 Engine 130g/kw@450 (g/kw-hr)	Emission Standard 56 g/kw <75 (g/kw-hr)	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY		
NO _x	0.011	1.63	0.031	4.41	D	7.5	4.7	6.6	7.5	2.02	3.25	0.58	0.44	0.14	0.23	0.79	1.28	0.73	1.17	1.46	2.36	1.46	2.36	1.46	2.36	9.67	15.61	0.73	1.17	1.54	2.49	1.46	2.36	1.46	2.36	1.46	2.36	1.46	2.36	24.96	39.81	
CO	0.007	0.99	0.007	0.95	D	8	5	3.5	5	0.43	0.70	0.65	0.49	0.09	0.15	0.17	0.28	0.81	1.31	1.64	2.64	1.64	2.64	1.64	2.64	10.85	17.53	0.81	1.31	1.73	2.79	1.64	2.64	1.64	2.64	1.64	2.64	1.64	2.64	25.38	40.42	
SO _x	0.004	0.08	0.002	0.29	D	0.8	0.4	0.2	0.4	0.13	0.22	0.10	0.08	0.01	0.01	0.08	0.20	0.33	0.41	0.66	0.41	0.66	0.41	0.66	1.69	2.73	0.20	0.33	0.43	0.70	0.41	0.66	0.41	0.66	0.41	0.66	0.41	0.66	5.27	8.42		
PM ₁₀	0.001	0.10	0.002	0.31	D	0.14	0.21	0.05	0.01	0.02	0.06	0.09	0.07	0.11	0.13	0.13	0.21	0.13	0.21	0.21	0.33	0.21	0.33	0.21	0.33	0.11	0.14	0.11	0.14	0.22	0.13	0.21	0.13	0.21	0.13	0.21	0.13	0.21	2.41	3.84		
CO ₂	1.080	154.00	1.150	164		74.75	120.72	57.04	42.78	14.04	22.67	29.33	47.36	113.85	183.87	228.85	369.59	228.85	369.59	228.85	369.59	228.85	369.59	228.85	369.59	948.75	1532.29	113.85	183.87	241.50	390.02	228.85	369.59	228.85	369.59	228.85	369.59	2,966.20	4,741.08			
CH ₄	0.0066		0.0066			0.0030	0.0048	0.0023	0.0017	0.0006	0.0012	0.0019	0.0046	0.0074	0.0092	0.0148	0.0381	0.0616	0.0046	0.0074	0.0097	0.0148	0.0381	0.0616	0.0046	0.0074	0.0097	0.0148	0.0381	0.0616	0.0046	0.0074	0.0097	0.0148	0.0381	0.0616	0.0046	0.0074	0.0097	0.0148	0.12	0.19
N ₂ O	0.0013		0.0013			0.0006	0.0010	0.0005	0.0003	0.0001	0.0002	0.0003	0.0004	0.0009	0.0015	0.0018	0.0030	0.0018	0.0030	0.0018	0.0030	0.0018	0.0030	0.0018	0.0030	0.0076	0.0123	0.0009	0.0015	0.0019	0.0031	0.0018	0.0030	0.0018	0.0030	0.0018	0.0030	0.0018	0.0030	0.02	0.04	
Total CO ₂ e (short tons)						---	121.13	---	42.92	---	22.76	---	47.52	---	184.49	---	370.85	---	1537.44	---	184.49	---	370.85	---	1537.44	---	184.49	---	370.85	---	391.35	---	370.85	---	370.85	---	370.85	---	370.85	-	4,757.20	
Total CO ₂ e (metric tons)						---	109.89	---	38.94	---	20.64	---	43.11	---	167.37	---	336.43	---	336.43	---	336.43	---	336.43	---	336.43	---	336.43	---	167.37	---	355.03	---	336.43	---	336.43	---	336.43	---	336.43	-	4,315.73	
Aldehydes	0.000	0.07	0.000	0.07	D					0.03	0.05	0.02	0.02	0.01	0.01	0.01	0.02	0.05	0.07	0.09	0.15	0.09	0.15	0.09	0.15	0.38	0.62	0.05	0.07	0.10	0.16	0.09	0.15	0.09	0.15	0.09	0.15	1.19	1.91			
TOC						0.16	0.26	0.12	0.09	0.28	0.45	0.06	0.10	0.25	0.40	0.50	0.81	0.50	0.81	0.50	0.81	0.50	0.81	0.50	0.81	2.05	3.35	0.25	0.40	0.53	0.85	0.50	0.81	0.50	0.81	0.50	0.81	6.73	10.77			
Exhaust	0.015	2.10	0.002	0.35	D	0.23	0.26	0.12	0.09	0.28	0.45	0.06	0.10	0.25	0.40	0.50	0.81	0.50	0.81	0.50	0.81	0.50	0.81	0.50	0.81	2.05	3.35	0.25	0.40	0.53	0.85	0.50	0.81	0.50	0.81	0.50	0.81	6.54	10.45			
Evaporative	0.001	0.09	0.000	0.01	E	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
Crankcase	0.005	0.69	0.000	0.01	E	0.00	0.00	0.00	0.06	0.10	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.18	0.28		
Refueling	0.001	0.15	0.000	0.00	E	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02			

Emissions based on AP-42 factor for gasoline

Emissions based on AP-42 factor for diesel (GHG CO₂e emissions are shown with GWP of 25 for CH₄ and 298 for N₂O included in calc)

Emissions based on Tiered Compression Engine 56 ≤ kW <75

Emissions based on maximum Tier 2 emission rates

Emissions based on maximum emission standard for a Tiered Compression Engine greater than or equal to 75 kw

Annual operation limited to
GENS only
hrs per engine limit
3,230
1500

Hourly Emissions

$$\begin{aligned}\text{lb/hr} &= (\text{EF lb/hp-hr}) \times (\text{Capacity hp}) \text{ or} \\ \text{lb/hr} &= (\text{EF g/kw-hr}) \times (\text{Capacity kw}) \times (\text{lb/453.59 g})\end{aligned}$$
$$\text{TPY} = (\text{lb/hr}) \times (3230 \text{ hr/yr}) \times (\text{ton}/2000 \text{ lb})$$

ATTACHMENT B

**INTREPID EAST EMISSION SUPPORTING
DOCUMENTATION**

Table 3.3-1. EMISSION FACTORS FOR UNCONTROLLED GASOLINE AND DIESEL INDUSTRIAL ENGINES^a

Pollutant	Gasoline Fuel (SCC 2-02-003-01, 2-03-003-01)		Diesel Fuel (SCC 2-02-001-02, 2-03-001-01)		EMISSION FACTOR RATING
	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	
NO _x	0.011	1.63	0.031	4.41	D
CO	6.96 E-03 ^d	0.99 ^d	6.68 E-03	0.95	D
SO _x	5.91 E-04	0.084	2.05 E-03	0.29	D
PM-10 ^b	7.21 E-04	0.10	2.20 E-03	0.31	D
CO ₂ ^c	1.08	154	1.15	164	B
Aldehydes	4.85 E-04	0.07	4.63 E-04	0.07	D
TOC					
Exhaust	0.015	2.10	2.47 E-03	0.35	D
Evaporative	6.61 E-04	0.09	0.00	0.00	E
Crankcase	4.85 E-03	0.69	4.41 E-05	0.01	E
Refueling	1.08 E-03	0.15	0.00	0.00	E

^a References 2,5-6,9-14. When necessary, an average brake-specific fuel consumption (BSFC) of 7,000 Btu/hp-hr was used to convert from lb/MMBtu to lb/hp-hr. 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. TOC = total organic compounds.


^b PM-10 = particulate matter less than or equal to 10 µm aerodynamic diameter. All particulate is assumed to be ≤ 1 µm in size.

^c Assumes 99% conversion of carbon in fuel to CO₂ with 87 weight % carbon in diesel, 86 weight % carbon in gasoline, average BSFC of 7,000 Btu/hp-hr, diesel heating value of 19,300 Btu/lb, and gasoline heating value of 20,300 Btu/lb.

^d Instead of 0.439 lb/hp-hr (power output) and 62.7 lb/mmBtu (fuel input), the correct emissions factors values are 6.96 E-03 lb/hp-hr (power output) and 0.99 lb/mmBtu (fuel input), respectively. This is an editorial correction. March 24, 2009

Table 3.3-2. SPECIATED ORGANIC COMPOUND EMISSION
FACTORS FOR UNCONTROLLED DIESEL ENGINES^a

EMISSION FACTOR RATING: E

Pollutant	Emission Factor (Fuel Input) (lb/MMBtu)
Benzene ^b	9.33 E-04
Toluene ^b	4.09 E-04
Xylenes ^b	2.85 E-04
Propylene 	2.58 E-03
1,3-Butadiene ^{b,c}	<3.91 E-05
Formaldehyde ^b	1.18 E-03
Acetaldehyde ^b	7.67 E-04
Acrolein ^b	<9.25 E-05
Polycyclic aromatic hydrocarbons (PAH)	
Naphthalene ^b	8.48 E-05
Acenaphthylene	<5.06 E-06
Acenaphthene	<1.42 E-06
Fluorene	2.92 E-05
Phenanthrene	2.94 E-05
Anthracene	1.87 E-06
Fluoranthene	7.61 E-06
Pyrene	4.78 E-06
Benzo(a)anthracene	1.68 E-06
Chrysene	3.53 E-07
Benzo(b)fluoranthene	<9.91 E-08
Benzo(k)fluoranthene	<1.55 E-07
Benzo(a)pyrene	<1.88 E-07
Indeno(1,2,3-cd)pyrene	<3.75 E-07
Dibenz(a,h)anthracene	<5.83 E-07
Benzo(g,h,i)perylene	<4.89 E-07
TOTAL PAH	1.68 E-04

^a Based on the uncontrolled levels of 2 diesel engines from References 6-7. Source Classification Codes 2-02-001-02, 2-03-001-01. To convert from lb/MMBtu to ng/J, multiply by 430.

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

^c Based on data from 1 engine.

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

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.

Table 3.4-2. PARTICULATE AND PARTICLE-SIZING
EMISSION FACTORS FOR LARGE UNCONTROLLED STATIONARY DIESEL ENGINES^a

EMISSION FACTOR RATING: E

Pollutant	Emission Factor (lb/MMBtu) (fuel input)
Filterable particulate ^b	
< 1 µm	0.0478
< 3 µm	0.0479
< 10 µm	0.0496
Total filterable particulate	0.0620
Condensable particulate	0.0077
Total PM-10 ^c	0.0573
Total particulate ^d	0.0697

^a Based on 1 uncontrolled diesel engine from Reference 6. Source Classification Code 2-02-004-01. The data for the particulate emissions were collected using Method 5, and the particle size distributions were collected using a Source Assessment Sampling System. To convert from lb/MMBtu to ng/J, multiply by 430. PM-10 = particulate matter ≤ 10 micrometers (µm) aerometric diameter.

^b Particle size is expressed as aerodynamic diameter.

^c Total PM-10 is the sum of filterable particulate less than 10 µm aerodynamic diameter and condensable particulate.

^d Total particulate is the sum of the total filterable particulate and condensable particulate.

Nonroad Compression-Ignition Engines: Exhaust Emission Standards

	Rated Power (kW)	Tier	Model Year	NMHC (g/kW-hr)	NMHC + NOx (g/kW-hr)	NOx (g/kW-hr)	PM (g/kW-hr)	CO (g/kW-hr)	Smoke ^a (Percentage)	Useful Life (hours /years) ^b	Warranty Period (hours /years) ^b
Federal	kW < 8	1	2000-2004	-	10.5	-	1.0	8.0	20/15/50	3,000/5	1,500/2
		2	2005-2007	-	7.5	-	0.80	8.0			
		4	2008+	-	7.5	-	0.40 ^c	8.0			
	8 ≤ kW < 19	1	2000-2004	-	9.5	-	0.80	6.6		3,000/5	1,500/2
		2	2005-2007	-	7.5	-	0.80	6.6			
		4	2008+	-	7.5	-	0.40	6.6			
	19 ≤ kW < 37	1	1999-2003	-	9.5	-	0.80	5.5		5,000/7 ^d	3,000/5 ^e
		2	2004-2007	-	7.5	-	0.60	5.5			
		4	2008-2012	-	7.5	-	0.30	5.5			
			2013+	-	4.7	-	0.03	5.5			
	37 ≤ kW < 56	1	1998-2003	-	-	9.2	-	-		8,000/10	3,000/5
		2	2004-2007	-	7.5	-	0.40	5.0			
		3 ^f	2008-2011	-	4.7	-	0.40	5.0			
		4 (Option 1) ^g	2008-2012	-	4.7	-	0.30	5.0			
		4 (Option 2) ^g	2012	-	4.7	-	0.03	5.0			
		4	2013+	-	4.7	-	0.03	5.0			
	56 ≤ kW < 75	1	1998-2003	-	-	9.2	-	-			
		2	2004-2007	-	7.5	-	0.40	5.0			
		3	2008-2011	-	4.7	-	0.40	5.0			
		4	2012-2013 ^h	-	4.7	-	0.02	5.0			
			2014+ ⁱ	0.19	-	0.40	0.02	5.0			
	75 ≤ kW < 130	1	1997-2002	-	-	9.2	-	-			
		2	2003-2006	-	6.6	-	0.30	5.0			
		3	2007-2011	-	4.0	-	0.30	5.0			
		4	2012-2013 ^h	-	4.0	-	0.02	5.0			
			2014+	0.19	-	0.40	0.02	5.0			

Continued

	Rated Power (kW)	Tier	Model Year	NMHC (g/kW-hr)	NMHC + NOx (g/kW-hr)	NOx (g/kW-hr)	PM (g/kW-hr)	CO (g/kW-hr)	Smoke ^a (Percentage)	Useful Life (hours /years) ^b	Warranty Period (hours /years) ^b
Federal	130 ≤ kW < 225	1	1996-2002	1.3 ^j	-	9.2	0.54	11.4	20/15/50	8,000/10	3,000/5
		2	2003-2005	-	6.6	-	0.20	3.5			
		3	2006-2010	-	4.0	-	0.20	3.5			
		4	2011-2013 ^h	-	4.0	-	0.02	3.5			
			2014+ ⁱ	0.19	-	0.40	0.02	3.5			
	225 ≤ kW < 450	1	1996-2000	1.3 ^j	-	9.2	0.54	11.4			
		2	2001-2005	-	6.4	-	0.20	3.5			
		3	2006-2010	-	4.0	-	0.20	3.5			
		4	2011-2013 ^h	-	4.0	-	0.02	3.5			
			2014+ ⁱ	0.19	-	0.40	0.02	3.5			
	450 ≤ kW < 560	1	1996-2001	1.3 ^j	-	9.2	0.54	11.4			
		2	2002-2005	-	6.4	-	0.20	3.5			
		3	2006-2010	-	4.0	-	0.20	3.5			
		4	2011-2013 ^h	-	4.0	-	0.02	3.5			
			2014+ ⁱ	0.19	-	0.40	0.02	3.5			
	560 ≤ kW < 900	1	2000-2005	1.3 ^j	-	9.2	0.54	11.4			
		2	2006-2010	-	6.4	-	0.20	3.5			
		4	2011-2014	0.40	-	3.5	0.10	3.5			
			2015+ ⁱ	0.19	-	3.5 ^k	0.04 ^l	3.5			
	kW > 900	1	2000-2005	1.3 ^j	-	9.2	0.54	11.4			
		2	2006-2010	-	6.4	-	0.20	3.5			
		4	2011-2014	0.40	-	3.5 ^k	0.10	3.5			
			2015+ ⁱ	0.19	-	3.5 ^k	0.04 ^l	3.5			

Notes on following page.

Notes:

- For Tier 1, 2, and 3 standards, exhaust emissions of nitrogen oxides (NO_x), carbon monoxide (CO), hydrocarbons (HC), and non-methane hydrocarbons (NMHC) are measured using the procedures in 40 Code of Federal Regulations (CFR) Part 89 Subpart E. For Tier 1, 2, and 3 standards, particulate matter (PM) exhaust emissions are measured using the California Regulations for New 1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines.
- For Tier 4 standards, engines are tested for transient and steady-state exhaust emissions using the procedures in 40 CFR Part 1039 Subpart F. Transient standards do not apply to engines below 37 kilowatts (kW) before the 2013 model year, constant-speed engines, engines certified to Option 1, and engines above 560 kW.
- Tier 2 and later model naturally aspirated nonroad engines shall not discharge crankcase emissions into the atmosphere unless these emissions are permanently routed into the exhaust. This prohibition does not apply to engines using turbochargers, pumps, blowers, or superchargers.
- In lieu of the Tier 1, 2, and 3 standards for NO_x, NMHC + NO_x, and PM, manufacturers may elect to participate in the averaging, banking, and trading (ABT) program described in 40 CFR Part 89 Subpart C.
- a** Smoke emissions may not exceed 20 percent during the acceleration mode, 15 percent during the lugging mode, and 50 percent during the peaks in either mode. Smoke emission standards do not apply to single-cylinder engines, constant-speed engines, or engines certified to a PM emission standard of 0.07 grams per kilowatt-hour (g/kW-hr) or lower. Smoke emissions are measured using procedures in 40 CFR Part 86 Subpart I.
- b** Useful life and warranty period are expressed hours and years, whichever comes first.
- c** Hand-startable air-cooled direct injection engines may optionally meet a PM standard of 0.60 g/kW-hr. These engines may optionally meet Tier 2 standards through the 2009 model years. In 2010 these engines are required to meet a PM standard of 0.60 g/kW-hr.
- d** Useful life for constant speed engines with rated speed 3,000 revolutions per minute (rpm) or higher is 5 years or 3,000 hours, whichever comes first.
- e** Warranty period for constant speed engines with rated speed 3,000 rpm or higher is 2 years or 1,500 hours, whichever comes first.
- f** These Tier 3 standards apply only to manufacturers selecting Tier 4 Option 2. Manufacturers selecting Tier 4 Option 1 will be meeting those standards in lieu of Tier 3 standards.
- g** A manufacturer may certify all their engines to either Option 1 or Option 2 sets of standards starting in the indicated model year. Manufacturers selecting Option 2 must meet Tier 3 standards in the 2008-2011 model years.
- h** These standards are phase-out standards. Not more than 50 percent of a manufacturer's engine production is allowed to meet these standards in each model year of the phase out period. Engines not meeting these standards must meet the final Tier 4 standards.
- i** These standards are phased in during the indicated years. At least 50 percent of a manufacturer's engine production must meet these standards during each year of the phase in. Engines not meeting these standards must meet the applicable phase-out standards.
- j** For Tier 1 engines the standard is for total hydrocarbons.
- k** The NO_x standard for generator sets is 0.67 g/kW-hr.
- l** The PM standard for generator sets is 0.03 g/kW-hr.

Citations: Code of Federal Regulations (CFR) citations:

- 40 CFR 89.112 = Exhaust emission standards
- 40 CFR 1039.101 = Exhaust emission standards for after 2014 model year
- 40 CFR 1039.102 = Exhaust emission standards for model year 2014 and earlier
- 40 CFR 1039 Subpart F = Exhaust emissions transient and steady state test procedures
- 40 CFR 86 Subpart I = Smoke emission test procedures
- 40 CFR 1065 = Test equipment and emissions measurement procedures

ATTACHMENT C

INTREPID EAST PLANT PROOF OF PUBLIC NOTICE DOCUMENTATION

Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)

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

X I have read the AQB “Guidelines for Public Notification for Air Quality Permit Applications”

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

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

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

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

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

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

Section 9
Proof of Public Notice
Item 1
Copy of Certified Letter Receipts

9589 0710 5270 0461 2316 44

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

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

OFFICIAL USE

Certified Mail Fee

\$

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

☒ Return Receipt (hardcopy)

☐ Return Receipt (electronic)

☐ Certified Mail Restricted Delivery

☐ Adult Signature Required

☐ Adult Signature Restricted Delivery

Postage

\$

Total Postage and Fees

\$

Sent To

Street

City, St

**NM State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501**



ENSR755M14PN SLD

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

9589 0710 5270 0461 2316 20

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

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

OFFICIAL USE

Certified Mail Fee

\$

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

☒ Return Receipt (hardcopy)

☐ Return Receipt (electronic)

☐ Certified Mail Restricted Delivery

☐ Adult Signature Required

☐ Adult Signature Restricted Delivery

Postage

\$

Total Postage and Fees

\$

Sent To

St

City

**Eddy County Clerk's Office
325 S. Main
Carlsbad, NM 88220**



ENSR755M14PN Eddy Clerk

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

9589 0710 5270 0461 2316 51

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

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

OFFICIAL USE

Certified Mail Fee

\$

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

☒ Return Receipt (hardcopy)

☐ Return Receipt (electronic)

☐ Certified Mail Restricted Delivery

☐ Adult Signature Required

☐ Adult Signature Restricted Delivery

Postage

\$

Total Postage and Fees

\$

Sent To

St

City

**BLM - Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220**



ENSR755M14PN BLM

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

9589 0710 5270 0461 2316 13

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

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

OFFICIAL USE

Certified Mail Fee

\$

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

☒ Return Receipt (hardcopy)

☐ Return Receipt (electronic)

☐ Certified Mail Restricted Delivery

☐ Adult Signature Required

☐ Adult Signature Restricted Delivery

Postage

\$

Total Postage and Fees

\$

Sent To

St

City

**City of Carlsbad
Clerk's Office
101 N. Halagueno
Carlsbad, NM 88220**



ENSR755M14PN City Clerk

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

Section 9
Proof of Public Notice
Item 2
List of Public Notice Posting Locations

List of Public Notice Posting Locations

Intrepid Potash – New Mexico, LLC has posted public notices containing the geographic locations of the facilities and describing the proposed modification at the following locations:

- The Intrepid Potash East Plant Entrance
- Brewer Shell, located at 713 North Canal in Carlsbad, NM
- The Carlsbad Public Library, at 101 South Halagueno in Carlsbad, NM
- La Tienda Thriftway, at 1301 S. Canal Street in Carlsbad, NM

Section 9

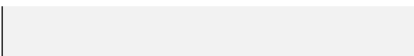
Proof of Public Notice

Item 3

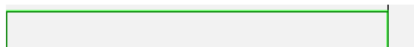
Copy of Property Tax Record (20.2.72.203.B NMAC)

East Plant Tax Records

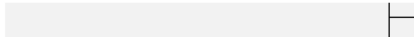
Account: R101107 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location		Owner Information	Assessment History
Account Number R101107		Owner Name INTREPID POTASH NEW MEXICO LLC	Actual Value (2015) \$0
Situs Address RED CLOUD ROAD		Owner Address 1001 17TH STREET SUITE 1050	No taxable value types
Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)		DENVER, CO 80202	
Parcel Number 4-184-121-134-737			
Legal Summary Quarter: SW S: 3 T: 21S R: 31E S2SW (PATENT# 30-2014-0010) MP# 208-3-2			
LOC-E OF 210 RED CLOUD RD STATE ASSESSED			
Map Number			
Parcel Size			
Tax History		Images	
Tax Year	Taxes	GIS	
*2026	\$0.00		
2025	No Tax Values		
* Estimated			

Account: R101108 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location		Owner Information	Assessment History
Account Number R101108		Owner Name INTREPID POTASH NEW MEXICO LLC	Actual Value (2015) \$0
Situs Address RED CLOUD ROAD		Owner Address 1001 17TH STREET SUITE 1050	No taxable value types
Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)		DENVER, CO 80202	
Parcel Number 4-183-121-396-398			
Legal Summary Quarter: NE S: 4 T: 21S R: 31E LOTS 9,10,15,16 (E2S2N2) PATENT# 30-2014-0010 MAP# 208-4-2 LOC-E OF 171 RED CLOUD RD STATE ASSESSED			
Map Number			
Parcel Size			
Tax History		Images	
Tax Year	Taxes	GIS	
*2026	\$0.00		
2025	No Tax Values		
* Estimated			

Account: R101111 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location		Owner Information		Assessment History	
Account Number R101111		Owner Name INTREPID POTASH NEW MEXICO LLC		Actual Value (2015)	
Situs Address LOUIS WHITLOCK		Owner Address 1001 17TH STREET SUITE 1050		No taxable value types	
Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)		DENVER, CO 80202			
Parcel Number 4-183-122-261-134					
Legal Summary Quarter: NE S: 9 T: 21S R: 31E Quarter: NW S: 9 T: 21S R: 31E N2 (PATENT# 30-2014-0010) MAP# 208-9-1 LOC W OF LOUIS WHITLOCK ROAD STATE ASSESSED					
Map Number					
Parcel Size					
Tax History			Images		
Tax Year		Taxes	GIS		
*2026		\$0.00			
2025		No Tax Values			
* Estimated					

East Plant Tax Records (Continued)

Account: R101109 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location		Owner Information	Assessment History
Account Number R101109		Owner Name INTREPID POTASH NEW MEXICO LLC	Actual Value (2015) \$0
Situation Address 171 RED CLOUD ROAD		Owner Address 1001 17TH STREET SUITE 1050	No taxable value types
Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)		DENVER, CO 80202	
Parcel Number 4-183-121-131-398			
Legal Summary Quarter: NW S: 4 T: 21S R: 31E LOTS 11,12,13,14 (W2S2N2) PATENT# 30-2014-0010 MAP# 208-4-3 LOC 171 RED CLOUD RD STATE ASSESSED			
Map Number			
Parcel Size			
Tax History		Images	
Tax Year	Taxes	GIS	
*2026	\$0.00		
2025	No Tax Values		
* Estimated			

Account: R101110 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location		Owner Information	Assessment History
Account Number R101110		Owner Name INTREPID POTASH NEW MEXICO LLC	Actual Value (2015) \$0
Situation Address RED CLOUD ROAD		Owner Address 1001 17TH STREET SUITE 1050	No taxable value types
Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)		DENVER, CO 80202	
Parcel Number 4-182-121-391-728			
Legal Summary Quarter: SE S: 5 T: 21S R: 31E S2SE (PATENT #30-2014-0010) MAP# 208-5-2 LOC W OF 210 RED CLOUD RD STATE ASSESSED			
Map Number			
Parcel Size			
Tax History		Images	
Tax Year	Taxes	GIS	
*2026	\$0.00		
2025	No Tax Values		
* Estimated			

Account: C200353 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location		Owner Information	Assessment History
Account Number C200353		Owner Name INTREPID POTASH NEW MEXICO LLC	Actual Value (2021) \$0
Situs Address 210 RED CLOUD ROAD		Owner Address 1001 17TH STREET SUITE 1050	No taxable value types
Tax Area CO_NR - CARLSBAD-OUT (Nonresidential)		DENVER, CO 80202	
Parcel Number 4-183-121-264-666			
Legal Summary Quarter: SW S: 4 T: 21S R: 31E Quarter: SE S: 4 T: 21S R: 31E S2			
Map Number 208-4-5			
Parcel Size			
Tax History		Images	
Tax Year	Taxes		
*2026	\$0.00		
2025	No Tax Values		
* Estimated			

Section 9

Proof of Public Notice

Items 4 & 5

Sample of Letter Sent to Owners of Record, Counties, and Municipalities



Intrepid Potash – New Mexico, LLC
Post Office Box 101
Carlsbad, NM 88221

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

9589-0710-5270-0461-2316-51

August 15, 2024

Cody Layton
BLM-CFO
620 E. Greene St.
Carlsbad, NM 88220

Dear Cody Layton:

Intrepid Potash – New Mexico, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its East Plant facility. The expected date of application submittal to the Air Quality Bureau is August 30, 2024.

The exact location for the proposed facility known as, Intrepid East Plant, is at 210 Red Cloud Road, Carlsbad New Mexico, 88220. The approximate location of this facility is 29 miles East of the intersection of Canal Street and Greene Street (State Highway 62/180) in Carlsbad, New Mexico in Eddy County.

The proposed modification consists of adding more operational flexibility to use non road diesel engines for water management and other various uses at the Intrepid East Plant process area and tailings area.

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

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	105 pph	405 tpy
PM ₁₀	63 pph	232 tpy
PM _{2.5}	35 pph	130 tpy
Sulfur Dioxide (SO ₂)	7 pph	11 tpy
Nitrogen Oxides (NO _x)	110 pph	215 tpy
Carbon Monoxide (CO)	85 pph	245 tpy
Volatile Organic Compounds (VOC)	12 pph	24 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	1.5 pph	6.6 tpy
Toxic Air Pollutant (TAP)	0.5 pph	1.5 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	231,000 tpy

The standard and maximum operating schedule of the facility will be from 12:00 a.m. to 11:59 p.m. 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include Intrepid Potash – New Mexico, LLC, East Plant.

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

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

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.

Sincerely,



Jason Jones
Environmental Supervisor

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

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: Kathryn Becker, 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.

Section 9

Proof of Public Notice

Item 6

**Sample of Public Notice Posted
Verification of the Local Postings**

NOTICE

Intrepid Potash – New Mexico, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its East Plant facility. The expected date of application submittal to the Air Quality Bureau is August 30, 2024.

The exact location for the proposed facility known as, Intrepid East Plant, is at 210 Red Cloud Road, Carlsbad New Mexico, 88220. The approximate location of this facility is 29 miles East of the intersection of Canal Street and Greene Street (State Highway 62/180) in Carlsbad, New Mexico in Eddy County.

The proposed modification consists of adding more operational flexibility to use non road diesel engines for water management and other various uses at the Intrepid East Plant process area and tailings area.

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

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	105 pph	405 tpy
PM ₁₀	63 pph	232 tpy
PM _{2.5}	35 pph	130 tpy
Sulfur Dioxide (SO ₂)	7 pph	11 tpy
Nitrogen Oxides (NO _x)	110 pph	215 tpy
Carbon Monoxide (CO)	85 pph	245 tpy
Volatile Organic Compounds (VOC)	12 pph	24 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	1.5 pph	6.6 tpy
Toxic Air Pollutant (TAP)	0.5 pph	1.5 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	231,000 tpy

The standard and maximum operating schedule of the facility will be from 12:00 a.m. to 11:59 p.m. 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include Intrepid Potash – New Mexico, LLC, East Plant.

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

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

Atención

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

Notice of Non-Discrimination

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

General Posting of Notices – Certification

I, Jason Jones, the undersigned, certify that on **August 15 and 16, 2024**, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the City of Carlsbad of Eddy County, State of New Mexico on the following dates:

1. Intrepid East Plant entrance August 16, 2024
2. Brewer Shell, located at 713 North Canal August 15, 2024
3. Carlsbad Public Library, at 101 South Halagueno August 15, 2024
4. La Tienda Thriftway, at 1301 S. Canal Street August 15, 2024

Signed this 16th day of August, 2024.


Signature

8/16/2024
Date

Jason Jones
Printed Name

IPNM Environmental Supervisor
Title

East Plant Entrance Public Notice Posted 8/16/2024



Section 9
Proof of Public Notice
Item 7
List of Notified Parties

LIST OF NOTIFIED PARTIES

PUBLIC NOTICE LETTERS

Addressee	Date of Certified Mail Posting
Eddy County Clerk's Office 325 S. Main Carlsbad, NM 88220	August 16, 2024
Bureau of Land Management-CFO Attn: Cody Layton 620 E. Greene St. Carlsbad, NM 88220	August 16, 2024
NM State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501	August 16, 2024
City Clerk's Office City of Carlsbad 101 N. Halagueno Carlsbad, NM 88220	August 16, 2024

Section 9

Proof of Public Notice

Item 8

Copy of Public Service Announcement

Documentary Proof of Submittal

Submittal of Public Service Announcement - Certification

PUBLIC SERVICE ANNOUNCEMENT

Intrepid Potash Notice of Application for Modification of Air Quality Permit

Intrepid Potash – New Mexico, LLC announces its intent to apply to the New Mexico Environment Department for an application to modify the East Plant New Source Review Permit No. 755-M14. The modification would allow the addition of more operational flexibility to use non road diesel engines for water management and other various uses at the Intrepid East Plant process area and tailings area.

The East Plant is located at 210 Red Cloud Road, in Eddy County, approximately 29 miles east-northeast of Carlsbad, NM by US Highway 62 East / US Highway 180.

Intrepid has posted complete notices containing the geographic locations of the facilities and describing the proposed modification at the following locations:

- The Intrepid Potash East Plant
- Brewer Shell located at 713 North Canal
- The Carlsbad Public Library at 101 South Halagueno
- La Tienda Thriftway at 1301 S Canal Street in Carlsbad

If you have any comments about this proposed modification and you want your comments to be made as part of the permit review process, you must submit your comments in writing to:

New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505-1816

The Department may be contacted by telephone at (505) 476-4300 or (800) 224-7009.

CARLSBAD RADIO, INC
PO Box 1538
CARLSBAD, NM 88221

Order #: **2573-00066**
Description: Potash East NSR Permit 755-M14 Modification Application
Date Entered: 8/21/2024
P.O.#:
Salesperson: Thomas, Debbie
Invoice Frequency:

Intrepid Potash - New Mexico, LLC
Accounts Payable
P O Box 101
Carlsbad, NM 88221

Other (Non-Spot) Charges

<u>Start Date</u>	<u>End Date</u>	<u>Station</u>	<u>Description of Charge</u>	<u>Repeated</u>	<u>Qty</u>	<u>Rate</u>	<u>Total</u>
1 8/21/2024	8/21/2024	KCDY-FM	PSA	Monthly	1	550.00	550.00

On-Air Schedule

<u>Start Date</u>	<u>End Date</u>	<u>Station</u>	<u>Scheduled Time/Event</u>	<u>Repeated</u>	<u>Length</u>	<u>Qty</u>	<u>Rate</u>	<u>Total</u>	<u>M</u>	<u>Tu</u>	<u>W</u>	<u>Th</u>	<u>F</u>	<u>Sa</u>	<u>Su</u>
1 8/26/2024	8/26/2024	KAMQ/TheQ	11:00:00a to 01:00:00p	Weekly	1:30	1	0.00	0.00	1	0	0	0	0	0	0
2 8/26/2024	8/26/2024	KATK-FM	11:00:00a to 01:00:00p	Weekly	1:30	1	0.00	0.00	1	0	0	0	0	0	0
3 8/26/2024	8/26/2024	KCDY-FM	11:00:00a to 01:00:00p	Weekly	1:30	1	0.00	0.00	1	0	0	0	0	0	0
4 8/26/2024	8/26/2024	KATK-AM	11:00:00a to 01:00:00p	Weekly	1:30	1	0.00	0.00	1	0	0	0	0	0	0

Order Start Date: 8/21/2024

Order End Date: 8/26/2024

Spots: 4

Total Charges: \$550.00

Total Sales Tax \$40.68

Total Net: \$590.68

Projected Calendar Month Billing Totals for Intrepid Potash - New Mexico, LLC / 2573-00066 :

		<u>Spot Count</u>	<u>Net Billing</u>
August	2024	4	\$550.00

Confirmed & Accepted for CARLSBAD RADIO, INC By:

Accepted for Intrepid Potash - New Mexico, LLC By:

Please Sign and Return One Copy

Submittal of Public Service Announcement – Certification

I, Robin Hughes, the undersigned, certify that on August 21, 2024 submitted a public service announcement to **Carlsbad Radio Station** that serves the City of Carlsbad, Eddy County, New Mexico, in which the source is or is proposed to be located and that **Carlsbad Radio Station RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT.**

Signed this 21st day of AUGUST, 2024.

Robin Hughes
Signature

8/21/2024
Date

Robin Hughes
Printed Name

Environment Technician III
Title

Section 9

Proof of Public Notice

Items 9 & 10

Copy of Legal Ad & Copy of Display Ad

Carlsbad Current Argus 8-22-2024

AFFIDAVIT OF PUBLICATION

County of Eddy, State of New Mexico

Carlsbad Current-Argus	
102 S. Canyon Street Carlsbad, NM 88220	AD#10250 Intrepid Notice Legal

I, the publisher/agent of Carlsbad Current-Argus of Eddy County, in the State of New Mexico. States that this newspaper is a qualified newspaper, published and of general circulation in said county, was published in regular edition of said paper, and that the notice of which the annexed is a copy was published on the following dates:

PUBLICATION DATES
August 22, 2024

N Bitton

Nicole Bitton, Customer Service Rep

Signed and sworn to before me on this 23 Day August Month 2024 Year



KELLI METZGER
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES OCTOBER 19, 2024

Signature above, NOTARY NAME, Notary Public

My commission expires: Oct. 19, 2024
Commission#

Seal

Publication Fee \$ 567.05

Calculation Measurement

Words	Tab lines	Columns	Insertions
-------	-----------	---------	------------

CherryRoad Media

NOTICE

Intrepid Potash – New Mexico, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its East Plant facility. The expected date of application submittal to the Air Quality Bureau is August 30, 2024.

The exact location for the proposed facility known as, Intrepid East Plant, is at 210 Red Cloud Road, Carlsbad New Mexico, 88220. The approximate location of this facility is 29 miles East of the intersection of Canal Street and Greene Street (State Highway 62/180) in Carlsbad, New Mexico in Eddy County.

The proposed modification consists of adding more operational flexibility to use non road diesel engines for water management and other various uses at the Intrepid East Plant process area and tailings area.

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

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	105 pph	405 tpy
PM ₁₀	63 pph	232 tpy
PM _{2.5}	35 pph	130 tpy
Sulfur Dioxide (SO ₂)	7 pph	11 tpy
Nitrogen Oxides (NO _x)	110 pph	215 tpy
Carbon Monoxide (CO)	85 pph	245 tpy
Volatile Organic Compounds (VOC)	12 pph	24 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	1.5 pph	6.6 tpy
Toxic Air Pollutant (TAP)	0.5 pph	1.5 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	231,000 tpy

The standard and maximum operating schedule of the facility will be from 12:00 a.m. to 11:59 p.m. 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include Intrepid Potash – New Mexico, LLC, East Plant.

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

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

Atención

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

Notice of Non-Discrimination

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

AFFIDAVIT OF PUBLICATION

County of Eddy, State of New Mexico

Carlsbad Current-Argus	
102 S. Canyon Street Carlsbad, NM 88220	AD#10240 Intrepid Notice Main

I, the publisher/agent of Carlsbad Current-Argus of Eddy County, in the State of New Mexico. States that this newspaper is a qualified newspaper, published and of general circulation in said county, was published in regular edition of said paper, and that the notice of which the annexed is a copy was published on the following dates:

PUBLICATION DATES
August 22, 2024

N Bitton

Nicole Bitton, Customer Service Rep

Signed and sworn to before me on this 23 Day August Month 2024 Year



KELLI METZGER

NOTARY PUBLIC, STATE OF OHIO

MY COMMISSION EXPIRES OCTOBER 19, 2024

Signature above, NOTARY NAME, Notary Public

My commission expires: Oct. 19, 2024

Commission#

Seal

Publication Fee \$ 567.05

Calculation Measurement

Words	Tab lines	Columns	Insertions

CherryRoad Media

NOTICE

Intrepid Potash - New Mexico, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its East Plant facility. The expected date of application submittal to the Air Quality Bureau is August 30, 2024.

The exact location for the proposed facility known as, Intrepid East Plant, is at 210 Red Cloud Road, Carlsbad New Mexico, 88220. The approximate location of this facility is 29 miles East of the intersection of Canal Street and Greene Street (State Highway 62/180) in Carlsbad, New Mexico in Eddy County.

The proposed modification consists of adding more operational flexibility to use non road diesel engines for water management and other various uses at the Intrepid East Plant process area and tailings area.

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

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	105 pph	405 tpy
PM ₁₀	63 pph	232 tpy
PM _{2.5}	35 pph	130 tpy
Sulfur Dioxide (SO ₂)	7 pph	11 tpy
Nitrogen Oxides (NO _x)	110 pph	215 tpy
Carbon Monoxide (CO)	85 pph	245 tpy
Volatile Organic Compounds (VOC)	12 pph	24 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	1.5 pph	6.6 tpy
Toxic Air Pollutant (TAP)	0.5 pph	1.5 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	231,000 tpy

The standard and maximum operating schedule of the facility will be from 12:00 a.m. to 11:59 p.m. 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include Intrepid Potash - New Mexico, LLC, East Plant.

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

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

Atención

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

Notice of Non-Discrimination

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

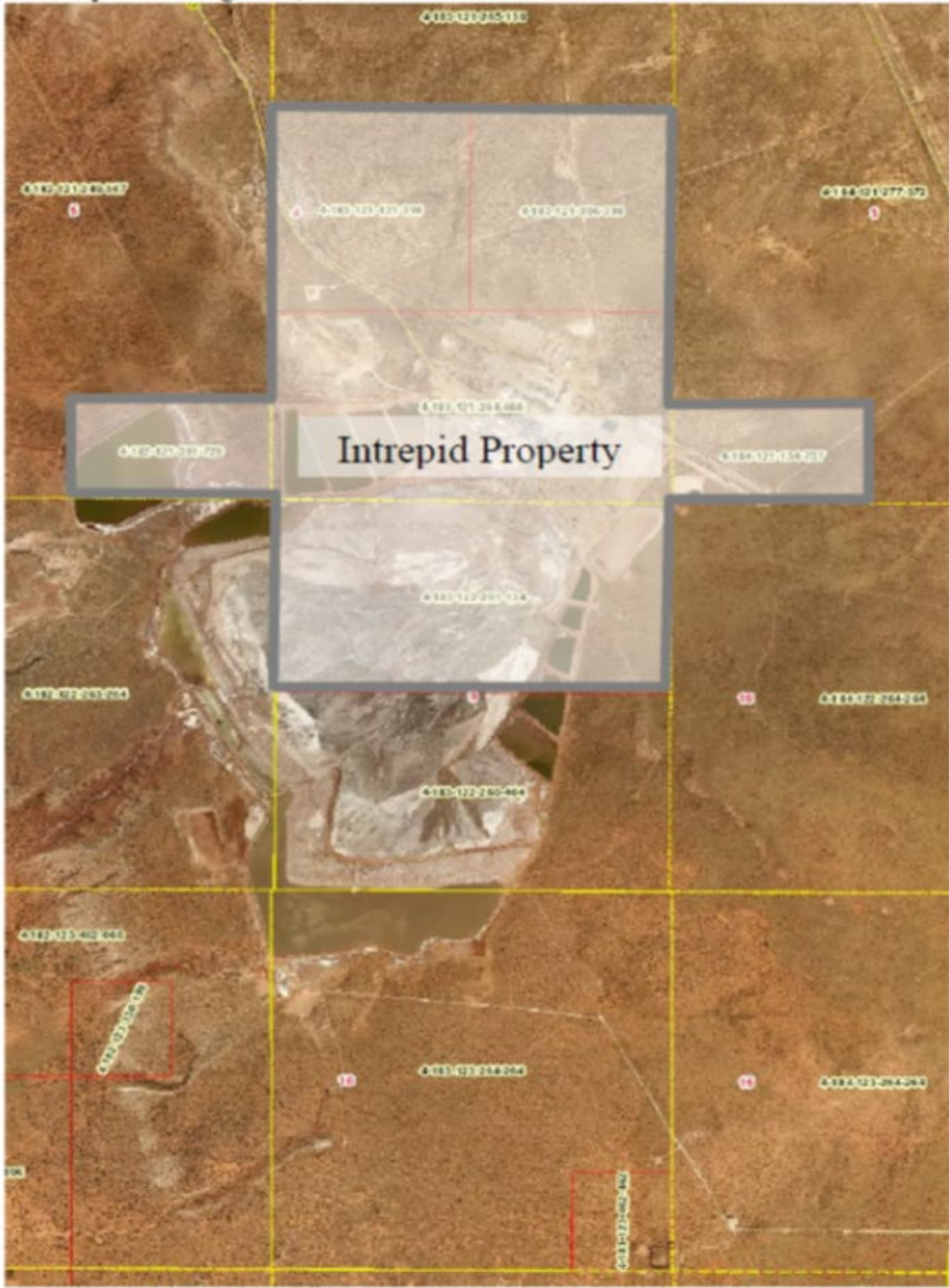
Section 9

Proof of Public Notice

Item 11

Map Showing Facility & Surrounding Area

Intrepid East Map



Note, from State of New Mexico, Department of Finance and Administration, Eddy County is a “Class B-Over” county, and as such, property owners located within one-half mile from Intrepid East property boundary were notified. Map Generated from Eddy County Assessor Database (<http://www.co.eddy.nm.us/184/County-Assessor>)

Parcel No. within One-Half Mile of Intrepid Property	Property Owner
4-183-121-265-130	Bureau of Land Management ("BLM")
4-184-121-277-372	BLM
4-184-122-264-264	BLM
4-184-123-264-264	BLM
4-183-122-260-404	BLM
4-183-123-264-264	State Land Office ("SLO")
4-182-123-462-066	BLM
4-182-123-330-198	SLO
4-182-122-263-264	BLM
4-182-121-249-367	BLM