



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

July 29, 2026

NMED Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
Attn: Ms. Julia Kuhn

Re: Significant Revision for Engines and Generators
Intrepid Potash-New Mexico LLC, West Plant – AI#29939
Title V Operating Permit No. P261-R2 / NSR Permit No. 421-M5R1

Intrepid Potash - New Mexico, LLC ("Intrepid") is submitting a permit modification for the following change at our West Plant:

- Significant Revision to add equipment – Generator Engine.

In accordance with the submittal requirements, we are submitting the following:

- For Significant Revision:
 - One original, signed, and notarized application package; printed double-sided, head-to-toe, 2-hole punched, and using numbered tab separators.
 - One double-sided working copy.
 - Two flash drives containing the permit application:
 - PDF of the entire application
 - Microsoft Word document files for Universal Application Forms 1, 3, and 4, as appropriate
 - Microsoft Excel files for Universal Application Form 2, and calculations
 - Modeling input and output files
 - A check for \$500 to cover the application fee.

Please contact me if you have any questions (dusten.russell@intrepidpotash.com / 575-307-9977).

Sincerely,

Dusten Russell
Environmental Manager

Intrepid Potash
1001 17th Street
Suite 1050
Denver, CO 80202



INTREPID
Essential Minerals for Success

Date: 7/15/2026
Check #: 00821747
Payment Amount: 500.00
Vendor#: 001618

NM ENVIRONMENT DEPT AQB

AIR QUALITY BUREAU
525 CAMINO DE LOS MARQUEZ STE 1
SANTA FE NM87505

Remittance Advice

Invoice Date	Invoice #	Related PO #	Invoice Gross Amt	Discount Amount	Invoice Net Amt
2026-07-15	CKREQ 070726		500.00	0.00	500.00

FOR SECURITY PURPOSES, THE FACE OF THIS DOCUMENT CONTAINS A TWO-TONED COLORED BACKGROUND AND MICROPRINTING IN THE BORDER

Intrepid Potash
1001 17th Street
Suite 1050
Denver, CO 80202



INTREPID
Essential Minerals for Success

00821747
70-1558/719

Date: 7/15/2026

Pay Exactly ***Five Hundred and 00/100 Dollars***

TO THE ORDER OF NM ENVIRONMENT DEPT AQB

AIR QUALITY BUREAU
525 CAMINO DE LOS MARQUEZ STE 1
SANTA FE NM 87505

Amount
\$ *****500.00

VOID AFTER 180 DAYS

BMO HARRIS CENTRAL N.A.
ROSELLE, ILLINOIS

Authorized Signatures

SECURITY FEATURES INCLUDED. DETAILS ON BACK

00821747 071915580 042946564

INTREPID POTASH – NEW MEXICO, LLC EAST PLANT



NSR Air Permit 421-M5R1 Modification Application UNIVERSAL APPLICATION FORMS UA1 – UA3

Carlsbad, New Mexico
Eddy County

Submittal Date: June 2026

PREPARED BY:

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

(601) 824-1860



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Attachment A – NSR Permit P421-M5R1



Air Permit Application Compliance History Disclosure Form

Pursuant to Subsection 74-2-7(S) of the New Mexico Air Quality Control Act ("AQCA"), NMSA §§ 74-2-1 to -17, the New Mexico Environment Department ("Department") may deny any permit application or revoke any permit issued pursuant to the AQCA if, within ten years immediately preceding the date of submission of the permit application, the applicant met any one of the criteria outlined below. In order for the Department to deem an air permit application administratively complete, or issue an air permit for those permits without an administrative completeness determination process, the applicant must complete this Compliance History Disclosure Form as specified in Subsection 74-2-7(P). An existing permit holder (permit issued prior to June 18, 2021) shall provide this Compliance History Disclosure Form to the Department upon request.

Permittee/Applicant Company Name		Expected Application Submittal Date
Intrepid Potash – New Mexico, LLC		7/30/2026
Permittee/Company Contact	Phone	Email
Dusten Russell	575-307-9977	dusten.russell@intrepidpotash.com
Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:		
1	Knowingly misrepresented a material fact in an application for a permit?	☐ Yes ☒ No
2	Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act?	☐ Yes ☒ No
3	Been convicted of a felony related to environmental crime in any court of any state or the United States?	☐ Yes ☒ No
4	Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States?	☐ Yes ☒ No
5a	Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC?	☐ Yes ☒ No
5b	If "No" to question 5a, go to question 6. If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions: a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or b. The operator of the facility estimated that the facility's emissions would not require an air permit, and the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility.	☐ Yes ☐ No
6	Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States?	☐ Yes ☒ No
7	For each "yes" answer, please provide an explanation and documentation.	

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

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

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

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

Acknowledgements:

- ☒ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.
- ☒ \$500 NSR application Filing Fee enclosed **OR** ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).
- ☒ Check No.: **821747** in the amount of **\$500**
- ☒ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.
- ☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.
- ☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full \$500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

Citation: Please provide the **low level citation** under which this application is being submitted: **20.2. 72.200.A(2) NMAC**
 (e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

Section 1 – Facility Information

Section 1-A: Company Information

		Updating
		Permit/NOI #:
		421-M5R1
		AI # if known: 29939
1	Facility Name: West Plant	Plant primary SIC Code (4 digits): 1474
		Plant NAIC code (6 digits): 212391
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): 1996 Potash Mines Road, Carlsbad, NM 88220	
2	Plant Operator Company Name: Intrepid Potash – New Mexico, LLC	Phone/Fax: (575) 234-3646

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) 234-3700
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: (303) 996-6670
a	Mailing Address: P.O. Box 101, Carlsbad, NM 88221	E-mail: accounts.payable@intrepidpotash.com
5	☐ Preparer: ☒ Consultant: Ken Faulkner	Phone/Fax: (601) 259-5217
a	Mailing Address: 807 Colonial Court, Carlsbad NM 88220	E-mail: ken.faulkner@intrepidpotash.com
6	Plant Operator Contact: Dusten Russell	Phone/Fax: 575-307-9977
a	Address: 1996 Potash Mines Road, Carlsbad, NM 88220	E-mail: dusten.russell@intrepidpotash.com
7	Air Permit Contact: Dusten Russell	Title: Environmental Manager
a	E-mail: dusten.russell@intrepidpotash.com	Phone/Fax: 575-307-9977
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? ☒ Yes ☐ No	1.b If yes to question 1.a, is it currently operating in New Mexico? ☒ Yes ☐ No
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? ☐ Yes ☒ No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? ☒ Yes ☐ No
3	Is the facility currently shut down? ☐ Yes ☒ No	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? ☐ Yes ☒ No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? ☐ Yes ☐ No ☒ N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? ☒ Yes ☐ No	If yes, the permit No. is: P261-R2-
7	Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☒ No	If yes, the NPR No. is:
8	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ☒ No	If yes, the NOI No. is:
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☒ Yes ☐ No	If yes, the permit No. is:
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ☒ No	If yes, the register No. is: 0421

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 (monthly avg basis): 500 tph	Daily (monthly avg basis): 12,000 tpd	Annually: 4,380,000 tpy
b	Proposed	Hourly: N/A	Daily: N/A	Annually: N/A
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 (monthly avg basis): 150 tph	Daily (monthly avg basis): 3,600 tpd	Annually: 1,314,000 tpy
b	Proposed	Hourly: N/A	Daily: N/A	Annually: N/A

Section 1-D: Facility Location Information

1	Latitude (decimal degrees):	Longitude (decimal degrees):	County:	Elevation (ft):
2	UTM Zone: ☐ 12 or ☒ 13		Datum: ☒ NAD 83 ☐ WGS 84	
a	UTM E (in meters, to nearest 10 meters): 599,710 m		UTM N (in meters, to nearest 10 meters): 359,520 m	
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 / US Highway 180 East for approximately 17 miles. Take New Mexico State Highway 31 in southerly direction for approximately 3 miles. The West/HB facility is on the left-hand side.			
5	The facility is 17 (distance) miles ENE (direction) of Carlsbad (nearest town).			
6	Land Status of facility (check one): ☒ Private ☐ Indian/Pueblo ☐ Government ☒ BLM ☐ Forest Service ☐ Military			
7	List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: 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/air-quality/modeling-publications/)? ☐ Yes ☒ No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers:			
9	Name nearest Class I area: 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): 51 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: 15 km			
12	Method(s) used to delineate the Restricted Area: Rugged undeveloped terrain with some fencing and gates utilized in developed areas.			
13	“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. Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? ☐ Yes ☒ No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.			
14	Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes If yes, what is the name and permit number (if known) of the other facility?			

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

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

Section 1-F: Other Facility Information

1	Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? ☐ Yes ☒ No If yes, specify:		
a	If yes, NOV date or description of issue: N/A	NOV Tracking No: N/A	
b	Is this application in response to any issue listed in 1-F, 1 or 1a above? ☐ Yes ☒ No If Yes, provide the 1c & 1d info below:		
c	Document Title: N/A	Date: N/A	Requirement # (or page # and paragraph #): N/A
d	Provide the required text to be inserted in this permit:		
2	Is air quality dispersion modeling or modeling waiver being submitted with this application? ☒ Yes ☐ No		
3	Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? ☐ Yes ☒ No		
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? ☒ Yes ☐ No		
a	If Yes, what type of source? ☐ Major (☐ ≥10 tpy of any single HAP OR ☐ ≥25 tpy of any combination of HAPS) OR ☒ Minor (☒ <10 tpy of any single HAP AND ☒ <25 tpy of any combination of HAPS)		
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? ☒ Yes ☐ No		
a	If yes, include the name of company providing commercial electric power to the facility: <u>Xcel 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	☐ I have filled out Section 18, "Addendum for Streamline Applications." ☒ N/A (This is not a Streamline application.)
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Section 1-H: Current Title V Information - Required for all applications from TV Sources

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

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC): Dusten Russell		Phone: 575-307-9977
a	R.O. Title: Environmental Manager	R.O. e-mail: dusten.russell@intrepidpotash.com	
b	R. O. Address: P.O. Box 101, Carlsbad, NM 88221		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): N/A		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: 707 17th Street, Suite 4200, 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:		

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:
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Section 1-I – Submittal Requirements

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

Hard Copy Submittal Requirements:

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

Electronic files sent by (check one):

☒ CD/DVD attached to paper application

☐ Secure electronic transfer. Air Permit Contact Name _____, Email _____ Phone number _____.

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

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

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

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

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

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Section 22:	Certification Page

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 #				
W-EP-01	Rotary Dryer	Hauck Dryer with Ducon Scrubber		NA	40 MMBTUH	40 MMBTUH	prior to 1981	W-EP-01		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
W-EP-02	Hydronics Boiler	Eclipse	Model GOL	NA	6.3 MMBTUH	6.3 MMBTUH	1976	N/A		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
W-G-1	Emergency Backup Diesel-fired Generator	John Deere	6068HF275 L	NA	225 HP	225 HP	post June 2006	N/A		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
W-G-2	Backup Diesel-fired Generator	Isuzu	BQ-6WG1X	3996826	512 HP	512 HP	2016	N/A		☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☒ Replacement Unit ☐ To be Replaced	
W-F1	Fugitive Tanks (17)	Requested as insignificant activity. See Table 2-B.					prior to 1981	Various		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
W-F2	Fugitive Truck Loadout	N/A	N/A	N/A	150 TPH; 1,000,000 TPY	150 TPH; 1,000,000 TPY	prior to 1981	N/A		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
W-F3	Fugitive Unpaved Haul Road	N/A	N/A	N/A	N/A	N/A	prior to 1981	N/A		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
W-F4	Fugitive Paved Haul Road	N/A	N/A	N/A	N/A	N/A	prior to 1981	N/A		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
W-F5-F17	Fugitive Material Transfer	N/A	N/A	N/A	500 TPH and 4,380,000 TPY	500 TPH and 4,380,000 TPY	prior to 1981	N/A		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
W-F18-F23	Fugitive Material Transfer	N/A	N/A	N/A	150 TPH & 1,314,000	150 TPH & 1,314,000	prior to 1981	N/A		☒ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
										☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
										☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
										☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	
										☐ Existing (unchanged) ☐ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced	

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

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

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

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction ²	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		
West Plant W-F1	Various tanks of flotation oil, hydraulic oil, gasoline, diesel, used oil, etc.	Various	N/A	Various	20.2.72.202.B.2.a	Various	☒ Existing (unchanged)	☐ To Be Removed
			N/A	bbl	20.2.72.202.B.5 IA List Item #1.a, 5 IA List Item #8	Various	☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ To Be Replaced
							☐ Existing (unchanged)	☐ To Be Removed
							☐ New/Additional	☐ 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 and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

[illegible]

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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/agb/permit/agb_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).

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

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

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

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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:

[illegible]

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

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

Stack No.	Unit No.(s)	Total HAPs		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
W-S-1	W-EP-01	0.09	0.40																
W-S-2	W-EP-02	0.01	0.06																
West Emerg Gen Eng 1	W-G-1	0.00	0.00																
West Bkup Gen Eng 2	W-G-2	0.01	0.02																
Tanks	W-F1	0.03	0.00																
Totals:		0.14	0.48																

Table 2-J: Fuel

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

[illegible]

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.

[illegible]

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

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

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

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

[illegible]

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.

[illegible]

Table 2-P: Greenhouse Gas Emissions

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

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

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr ²									Total GHG Mass Basis ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWPs ¹	1	265	28	23,500	footnote 3										
W-EP-01	mass GHG	20,494	0	0	0	0									20,495	
	CO ₂ e	20,494	0	0												20,495
W-EP-02	mass GHG	3,228	0	0	0	0									3,228	
	CO ₂ e	3,228	0	0												3,228
W-G-2	mass GHG	883	0	0	0	0									883	
	CO ₂ e	883	0	0												883
	mass GHG															
	CO ₂ e															
	mass GHG															
	CO ₂ e															
	mass GHG															
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	CO ₂ e															
	mass GHG															
	CO ₂ e															
	mass GHG															
	CO ₂ e															
Total	mass GHG	24,605	0	0	0	0									24,605	
	CO ₂ e	24,605	0	0	0	0										24,605

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.

In a previous source determination, Intrepid North Plant, West Plant, and HB Plants are considered one source. Overall, the purpose of the West Plant, HB Plant, and North Plant is to process potash for third party sales. A brief description of each plant is described below:

West Plant

Operations at West Plant are permitted under New Source Review Permit No. 0421. Ore is extracted from an underground mine then lifted to the surface for potash extraction by flotation. Potash from West Plant is transported by truck to North Plant.

HB Plant

Operations at HB Plant are permitted under New Source Review Permit No. 4332. Feed stock for HB Plant is derived from solution mining, which is not subject to air permitting, but described here for completeness. Potash-enriched brine is extracted from former underground mines and discharged into solar ponds. Solids from solar evaporation are harvested for potash extraction by flotation. The resulting product consists of potash which is transported by truck to North Plant. Byproducts of potash flotation at HB Plant consist of salt and brine: both byproducts are sold to third-party customers at the HB Plant.

North Plant

Operations at HB Plant are permitted under New Source Review Permit No. 0321. Potash is transported to North Plant for compaction, sizing, and sales to third party customers by truck or rail.

PURPOSE OF PERMIT APPLICATION

This application is a request for the modification of the NSR Permit P421-M5R1 under 20.2.72.219 D.(1) of the New Mexico Administrative Code.

The facility is requesting to replace the 468-hp emergency generator (W-G-2) with a 512-hp generator engine. It also requests authorization to operate the replacement unit during voluntary power outages, so the unit will no longer be classified as an emergency generator. The unit will no longer be limited to 500 hours of operation, and the new unit will be subject to NSPS Subpart IIII. The facility is requesting a limit on the hour of operation of the replacement generator to be 3,000 hrs/yr. The replacement unit will have lower emissions on an hourly basis for all pollutants except for CO which will be approximately the same. At the requested hours of operation, the annual emissions for the replacement generator are lower than the current emissions for all pollutants except for CO. The combined annual potential emissions from the North Plant, West Plant and HB Mill will remain below the PSD major source threshold for all criteria pollutants and the source will remain minor regarding PSD.

STARTUP, SHUTDOWN, AND MAINTENANCE (SSM) ROUTINE OR PREDICTABLE EMISSIONS:

Diesel generator engines typically reach operating conditions within 5 to 30 seconds of startup. Startup emissions will be negligible.

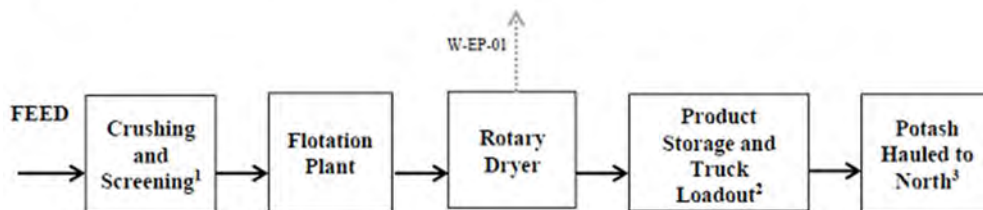
Section 4

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 proposed generator unit provides power and is not part of the process. A process flow diagram is not applicable. The facility block flow diagram is shown below:

Figure 4.1 - Block Diagram of West Plant Operations



Note (1) - Crushing and screening consists of Permitted Units W-F5 to W-F16.

Note (2) - Product storage and truck loadout consists of W-F2, W-F18 to W-F23.

Note (3) - Emissions from hauling are permitted under W-F3 and W-F4.

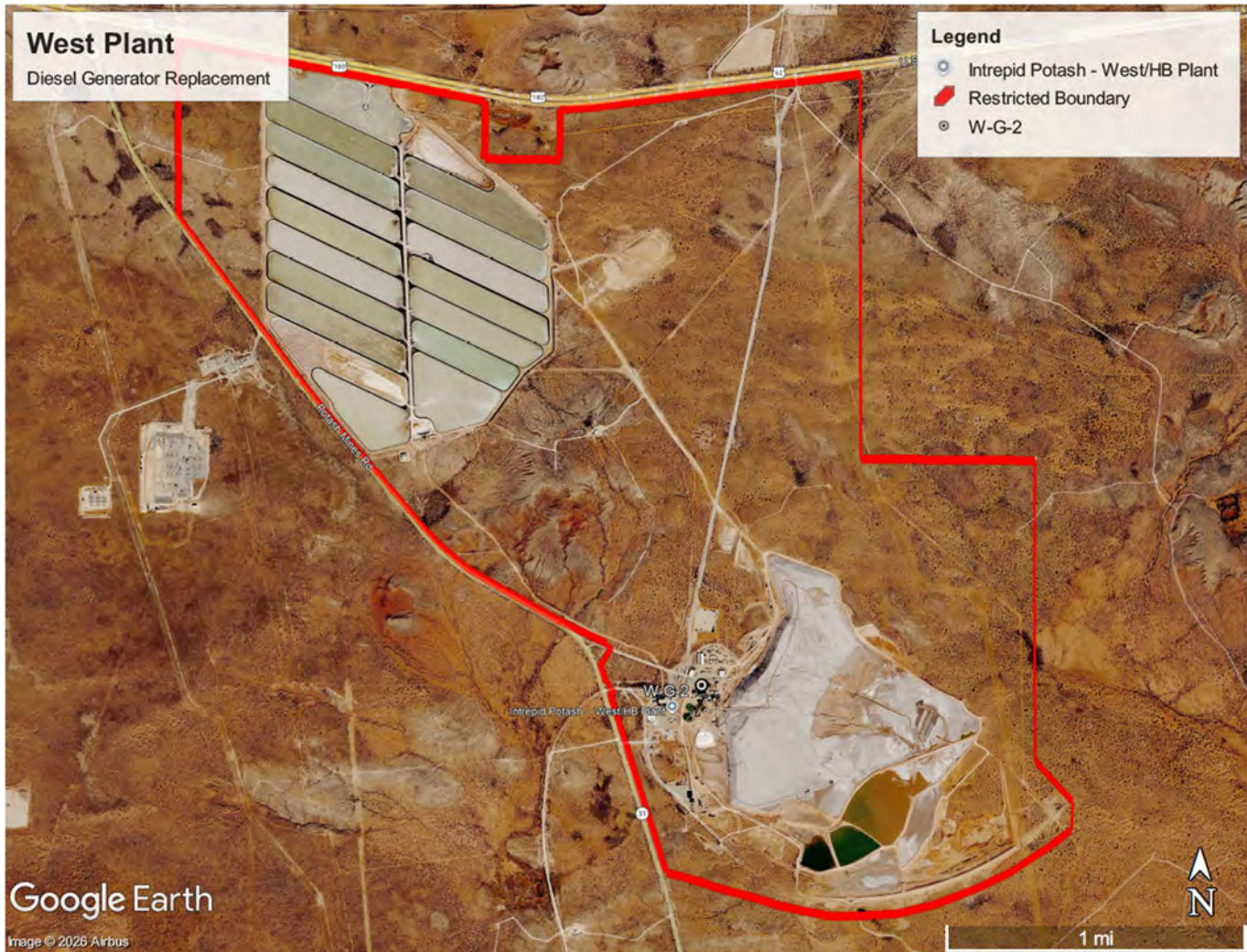
Note (4) - Operations also include emissions from Emergency Backup Diesel Fired Generators (W-G-1 and W-G-2) and Hydronics Boiler (W-EP-02); these units are not shown on the block diagram.

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.

Only the unit being replaced is identified in the plot plan.



Section 6

All Calculations

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

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

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

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

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

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

Significant Figures:

- A. All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.
- B. At least 5 significant figures shall be retained in all intermediate calculations.
- C. In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

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

Control Devices: In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

Intrepid Potash - Estimated Emissions from Backup Power Generator Engine
Whisperwatt Genset with Isuzu / BQ-6WG1X Engine

Diesel Backup Power		512.0 HP			
Engine:		382 KW		Tier 4	
Emission Point	Emission Factors (lb/hp-hr)		grams/kw-hr	Estimated Emissions	
W-G-2		AP-42 (a)	(b)	Hourly (lb/hr)	Yearly (tpy)
NOx	(c)		0.400	0.337	0.505
CO			3.500	2.948	4.422
SOx				0.005	0.007
NMHC (VOC)			0.190	0.160	0.240
PM			0.020	0.017	0.025
CO2	1.15E+00			588.800	883.200

Notes

(a) Cited emission factors were taken from Table 3.3-1 of AP-42, dated October 1996.

(b) Cited emission factors are Tier 4 engine requirements based on EPA Standards.

(c) SO2 determined from maximum fuel flow and fuel sulfur requirements of 15 ppm

Assumptions for Emissions Calculations

Hours of Operation

Standby	3000 hours/yr
Fuel Consumptions @ full load	22.5 gal/hr
Diesel density	7.2 lb/gallon
Fuel Sulfur Content	15 ppm
Sulfur MW	32.06 lb/lb-mol
SO2 MW	64.07 lb/lb-mol
S + O ₂ = SO ₂ , 1 mol S = 1 mol SO ₂ ,	2.00 lb SO ₂ /lb S

$$\text{lb-S/hr} = (98.8 \text{ gal/hr})(7.2 \text{ lb/gal})(15 \text{ parts}/10^6 \text{ parts}) = 0.0024 \text{ lb/hr}$$

$$\text{lb-SO}_2 = (2 \text{ lb SO}_2/\text{lb S}) = 0.0049 \text{ lb/hr}$$

Table 3.3-2.SPECIATED ORGANIC COMPOUND EMISSION
EMISSION FACTOR RATING:E

Pollutant	EmissionFactor (Fuel Input) (lb/MMBtu)	Input (MMBtu/hr)	lb/hr	TPY
Benzene ^b	9.33E-04	3.1275	2.92E-03	4.38E-03
Toluene ^b	4.09E-04		1.28E-03	1.92E-03
Xylenes ^b	2.85E-04		8.91E-04	1.34E-03
1,3-Butadiene ^{b,c}	3.91E-05		1.22E-04	1.83E-04
Formaldehyde ^b	1.18E-03		3.69E-03	5.54E-03
Acetaldehyde ^b	7.67E-04		2.40E-03	3.60E-03
Acrolein ^b	9.25E-05		2.89E-04	4.34E-04
TOTAL PAH	1.68E-04		5.25E-04	7.88E-04
<i>Naphthalene^b</i>	<i>8.48E-05</i>			
<i>Acenaphthylene</i>	<i>5.06E-06</i>			
<i>Acenaphthene</i>	<i>1.42E-06</i>			
<i>Fluorene</i>	<i>2.92E-05</i>			
<i>Phenanthrene</i>	<i>2.94E-05</i>			
<i>Anthracene</i>	<i>1.87E-06</i>			
<i>Fluoranthene</i>	<i>7.61E-06</i>			
<i>Pyrene</i>	<i>4.78E-06</i>			
<i>Benzo(a)anthracene</i>	<i>1.68E-06</i>			
<i>Chrysene</i>	<i>3.53E-07</i>			
<i>Benzo(b)fluoranthene</i>	<i>9.91E-08</i>			
<i>Benzo(k)fluoranthene</i>	<i>1.55E-07</i>			
<i>Benzo(a)pyrene</i>	<i>1.88E-07</i>			
<i>Indeno(1,2,3-cd)pyrene</i>	<i>3.75E-07</i>			
<i>Dibenz(a,h)anthracene</i>	<i>5.83E-07</i>			
<i>Benzo(g,h,i)perylene</i>	<i>4.89E-07</i>			
Total HAPs				

^aBased 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.

^bHazardous air pollutant listed in the Clean Air Act.

^cBased on data from 1 engine.

^dFuel input MMBtu/hr = (22.5 gal/hr)(0.139 MMBtu/gal)

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.
-

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

Pollutant	Gasoline Fuel (SCC 20200301, 20300301) Emission Factor (lb/hp-hr) (power output)	Gasoline Fuel (SCC 20200301, 20300301) Emission Factor (lb/MMBtu) (fuel input)	Diesel Fuel (SCC 20200102, 20300101) Emission Factor (lb/hp-hr) (power output)	Diesel Fuel (SCC 20200102, 20300101) Emission Factor (lb/MMBtu) (fuel input)	Emission Factor Rating
NO _x	0.011	1.63	0.031	4.41	D
CO	6.96 E-03 ^c	0.99 ^c	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 ^d	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
TOC - Evaporative	6.61 E-04	0.09	0.00	0.00	E
TOC - Crankcase	4.85 E-03	0.69	4.41 E-05	0.01	E
TOC - 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.

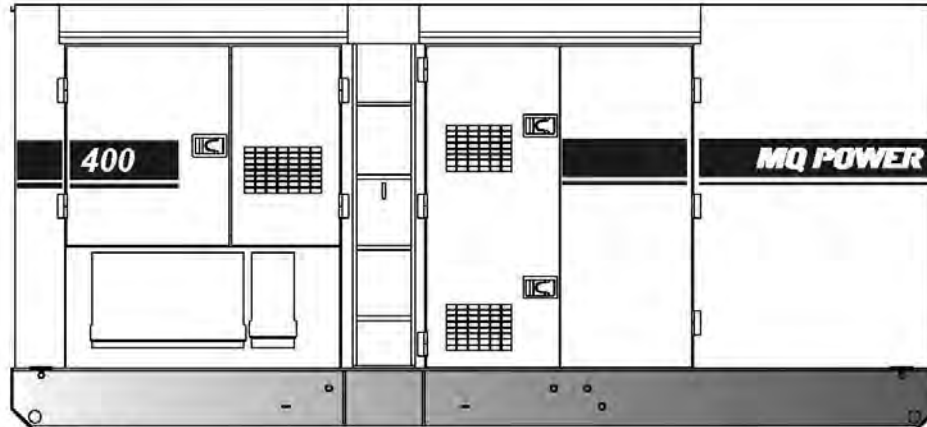
^d Instead of 0.439 lb/hp-hr (power output) and 62.7 lb/mmBtu (fuel input), the correct emissions factors values are 6.96 E-03 lb/hp-hr (power output) and 0.99 lb/mmBtu (fuel input), respectively. This is an editorial correction. March 24, 2009.


SUNBELT
 RENTALS

 POWER & HVAC
 SERVICES

DCA400SSI4F3PD GENERATOR
WhisperWatt™
Prime Rating — 320 kW (400 kVA)
Standby Rating — 336 kW (420 kVA)

3-Phase, 60 Hertz, 0.8 PF


STANDARD FEATURES

- Heavy duty, 4-cycle, direct injection, turbocharged, charge air cooled diesel engine provides maximum reliability.
- EPA emissions certified — Tier 4 Final emissions compliant.
- Microprocessor engine control system maintains frequency to $\pm 0.25\%$.
- Full load acceptance of standby nameplate rating in a single step.
- Fuel/water separator removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- Sound attenuated, weather resistant, steel housing provides operation at 69 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- E-coat with polyurethane enamel finish coat.
- Internal fuel tank with direct reading fuel gauges are standard.
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class F insulation systems.
 - Open delta alternator design provides virtually unlimited excitation for maximum motor starting capability.
 - Automatic voltage regulator (AVR) provides precise regulation.
- Fully covered power panel. Three-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. All are NEMA standard.
- AGC-4 microprocessor-based digital generator controller with integrated genset-to-genset (isolated bus) paralleling.
 - Onboard synchronization and kW load sharing.
 - Remote 2-wire start/stop control.
 - TDU107 high-visibility color touchscreen controller with visualization and graphical overviews. Includes oil pressure, water temperature, battery volts, engine speed, engine load, fuel level and DEF level.
 - Heated screen provides an operational temperature range of -20° to 60° C.
 - Engine monitoring data over J1939 Modbus.
- Controller provides automatic safety shutdown system monitors the water temperature, engine oil pressure, low coolant, low DEF, overspeed, and overcrank.
- Emergency stop switch — when manually activated, shuts down generator in the event of an emergency.
- Metered Power output parameters include:
 - Volts • Amperage
 - Kilowatts • Kilowatt Amps
 - Power Factor • Hertz

DCA400SSI4F3PD — GENERATOR — REV. #0 (10/10/19)


SUNBELT
 RENTALS

 POWER & HVAC
 SERVICES

DCA400SSI4F3PD GENERATOR
SPECIFICATIONS
Generator Specifications

Design	Revolving field, Self-ventilated Drip-proof, Single bearing
No. of Poles	4-pole
Excitation	Brushless with AVR
Standby Output	336 KW (420 kVA)
Prime Output	320 KW (400 kVA)
Generator RPM	1800
Voltage — 3Ø	208, 220, 240, 416, 440, 480V Reconnectable
Voltage — 1Ø	120, 127, 139, 240, 254, 277V Adjustable
Armature Connection	Star with neutral
Voltage Regulation (No load to full load)	±0.5%
Power Factor	0.8
Frequency	60 Hz
Winding Pitch	2/3
Frequency Regulation: No Load to Full Load	Isochronous under varying loads from no load to 100% rated load
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load.
Insulation	Class F
Sound Level dB(A) Full load at 23 feet	69

Engine Specifications

Make / Model	Isuzu / BQ-6WG1X
Emissions	EPA Tier 4 Final Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged, charge air cooled, EGR, DOC, and SCR.
Displacement	15681 cc
No. cylinders	6
Bore x Stroke	147 x 154 mm
Gross Engine Power Output	512.3 hp (382 kWm)
BMEP	236 psi (1624 kPa)
Piston Speed	1819 ft/min (9.24 m/s)
Compression Ratio	16.5 : 1
Engine Speed	1800 rpm
Overspeed Limit	2070 rpm
Oil Capacity	15.1 gallons (57 liters)
Battery	12V 200Ah x 2 (24 V Systems)

Fuel System

Recommended Fuel	ASTM-D975-No.1 & No.2-D*	
Maximum Fuel Flow (per hour)	98.8 gallons (374 liters)	
Maximum Inlet Restriction (Hg)	8.85 in (225 mm)	
Fuel Tank Capacity	55.5 gallons (210 liters)	
Fuel Consumption	gph	lph
	At full load	22.5 85.1
	At 3/4 load	17.3 65.5
	At 1/2 load	12.2 46.0
	At 1/4 load	7.7 29.0
DEF Tank Capacity	14.8 gallons (56 liters)	

* - Use ultra low sulfur diesel fuel.

Cooling System

Fan Load	17.8 hp (13.3 kW)
Coolant Capacity (with radiator)	19.4 gallons (73.6 liters)
Coolant Flow Rate (per minute)	111 gallons (420 liters)
Heat Rejection to Coolant (per minute)	12,606 Btu (13.3 MJ)
Maximum Coolant Friction Head	20.3 psi (140 kPa)
Maximum Coolant Static Head	29.5 feet (9.0 meters)
Ambient Temperature Rating	104°F (40°C)

Air

Combustion Air	872 cfm (24.7 m³/min)
Maximum Air Cleaner Restriction	25 in. H.O (6.2 kPa)
Alternator Cooling Air	2790 cfm (79.0 m³/min)
Radiator Cooling Air	14129 cfm (400 m³/min)

Exhaust System

Gas Flow (full load)	1635 cfm (46.3 m³/min)
Gas Temperature	968°F (520°C)
Maximum Back Pressure	180.7 in. H.O (45 kPa)

Amperage

Rated Voltage	Maximum Amps
1Ø 120 Volt	888.9 Amps (4 wire)
1Ø 240 Volt	444.4 Amps (4 wire)
3Ø 208 Volt	962.3 Amps
3Ø 240 Volt	962.3 Amps
3Ø 480 Volt	481.1 Amps
Main Line Circuit Breaker Rating	1000 Amps
Over Current Relay Trip Set Point	480 Amps

WARRANTY*
Isuzu Engine**

12 months from date of purchase with unlimited hours or 36 months from date of purchase with 3,000 hours (whichever comes first).

Generator

24 months from date of purchase or 2,000 hours (whichever occurs first).

Trailer

12 months excluding normal wear items.

*Refer to the express written, one-year limited warranty sheet for additional information.

**Refer to Isuzu Diesel Engine Limited Warranty for details.

NOTICE

Specifications sheet is subject to change and is not intended for use in installation design.

DCA400SSI4F3PD — GENERATOR — REV. #0 (10/10/19)

Table 1 of §1039.101—Tier 4 Exhaust Emission Standards After the 2014 Model Year, g/kW-hr^a

Maximum Engine Power	Application	PM	NOx	NMHC	NOx+NMHC	CO
kW < 19	All	0.40 ^b	-	-	7.5	6.6 ^c
19 < kW < 56	All	0.03	-	-	4.7	5.0 ^d
56 < kW < 130	All	0.02	0.40	0.19	-	5.0
130 < kW < 560	All	0.02	0.40	0.19	-	3.5
kW > 560	Generator sets	0.03	0.67	0.19	-	3.5
kW > 560	All except generator sets	0.04	3.5	0.19	-	3.5

^aNote that some of these standards also apply for 2014 and earlier model years. This table presents the full set of emission standards that apply after all the transition and phase-in provisions of §1039.102 expire.

^bSee paragraph (c) of this section for provisions related to an optional PM standard for certain engines below 8 kW.

^cThe CO standard is 8.0 g/kW-hr for engines below 8 kW.

^dThe CO standard is 5.5 g/kW-hr for engines below 37 kW.

Title 40 – Protection of Environment

Chapter I – Environmental Protection Agency

Subchapter C – Air Programs

Part 60 – Standards of Performance for New Stationary Sources

Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Fuel Requirements for Owners and Operators

Source: 71 FR 39172, July 11, 2006, unless otherwise noted.

Authority: 42 U.S.C. 7401 *et seq.*

Source: 36 FR 24877, Dec. 23, 1971, unless otherwise noted.

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

(a) [Reserved]

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

Title 40 –Protection of Environment**Chapter I –Environmental Protection Agency****Subchapter U –Air Pollution Controls****Part 1090 –Regulation of Fuels, Fuel Additives, and Regulated Blendstocks****Subpart D –Diesel Fuel and ECA Marine Fuel Standards**

Authority: 42 U.S.C. 7414, 7521, 7522-7525, 7541, 7542, 7543, 7545, 7547, 7550, and 7601.

Source: 85 FR 78469, Dec. 4, 2020, unless otherwise noted.

§ 1090.305 ULSD standards.

Link to an amendment published at 91 FR 16500, Apr. 1, 2026.

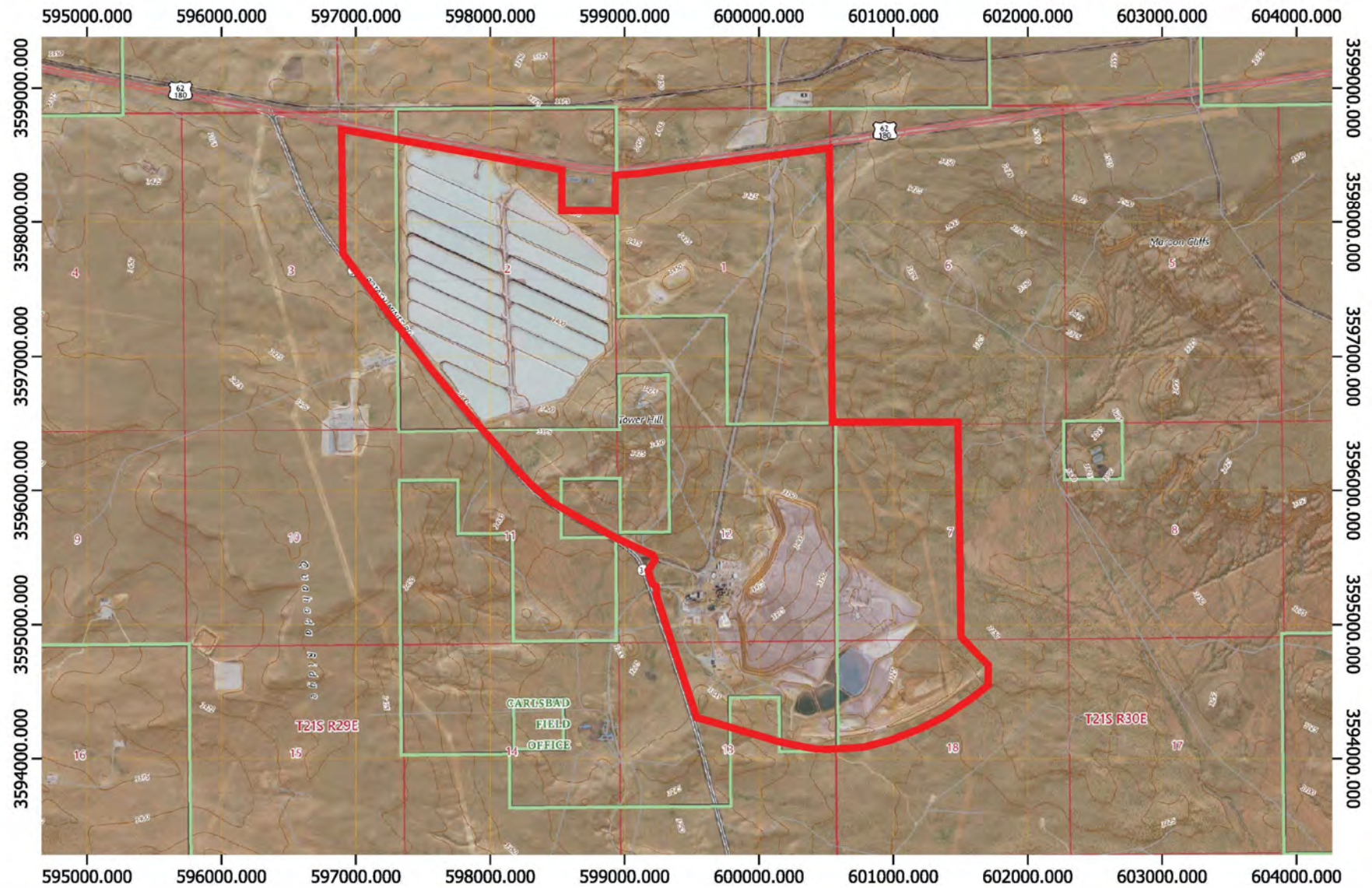
- (a) **Overview.** Except as specified in § 1090.300(a), diesel fuel must meet the ULSD per-gallon standards of this section.
- (b) **Sulfur standard.** Maximum sulfur content of 15 ppm.
- (c) **Cetane index or aromatic content.** Diesel fuel must meet one of the following standards:
 - (1) Minimum cetane index of 40.
 - (2) Maximum aromatic content of 35 volume percent.

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	



Source: USGS The National Map OnDemand
Topo 7.5-minute Quadrangle. Tower Hill North
and Tower Hill South.

0 750 1,500 m

Figure 8-1
Intrepid Potash NM
HB Mill/ West Plant
Topographic Map

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”)

✓ **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.
-

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

9589 0710 5270 1673 5994 54

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 \$ 5.55
Extra Services & Fees (check box, add fee as appropriate)
☒ Return Receipt (hardcopy) \$ 4.65
☐ Return Receipt (electronic) \$ _____
☐ Certified Mail Restricted Delivery \$ _____
☐ Adult Signature Required \$ _____
☐ Adult Signature Restricted Delivery \$ _____

Postage \$ 1.98
Total Postage and Fees \$ 12.18

Postmark Here
JUL 20 2026

Sent To Administration Complex Eddy County Clerk
Street and Apt. No., or PO Box No. 101 W. Greene Street
City, State, ZIP+4® Carlsbad, NM 88220

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

9589 0710 5270 1673 5994 23

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 \$ 5.55
Extra Services & Fees (check box, add fee as appropriate)
☒ Return Receipt (hardcopy) \$ 4.65
☐ Return Receipt (electronic) \$ _____
☐ Certified Mail Restricted Delivery \$ _____
☐ Adult Signature Required \$ _____
☐ Adult Signature Restricted Delivery \$ _____

Postage \$ 1.98
Total Postage and Fees \$ 12.18

Postmark Here
JUL 20 2026

Sent To Kenneth, Smith Inc.
Street and Apt. No., or PO Box No. 264 Smith Ranch Road
City, State, ZIP+4® Hobbs, NM 88240

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

9589 0710 5270 1673 5994 61

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 \$ 5.55
Extra Services & Fees (check box, add fee as appropriate)
☒ Return Receipt (hardcopy) \$ 4.65
☐ Return Receipt (electronic) \$ _____
☐ Certified Mail Restricted Delivery \$ _____
☐ Adult Signature Required \$ _____
☐ Adult Signature Restricted Delivery \$ _____

Postage \$ 1.98
Total Postage and Fees \$ 12.18

Postmark Here
JUL 20 2026

Sent To Lea County Clerk
Street and Apt. No., or PO Box No. 100 North Main
City, State, ZIP+4® Levinaton, NM 88260

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

9589 0710 5270 1673 5994 30

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 \$ 5.55
Extra Services & Fees (check box, add fee as appropriate)
☒ Return Receipt (hardcopy) \$ 4.65
☐ Return Receipt (electronic) \$ _____
☐ Certified Mail Restricted Delivery \$ _____
☐ Adult Signature Required \$ _____
☐ Adult Signature Restricted Delivery \$ _____

Postage \$ 1.98
Total Postage and Fees \$ 12.18

Postmark Here
JUL 20 2026

Sent To State of New Mexico
Street and Apt. No., or PO Box No. 310 Old Santa Fe Trail
City, State, ZIP+4® Santa Fe, NM 87504

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

9589 0710 5270 1673 5994 78

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	\$ 5.55
Extra Services & Fees (check box, add fee as appropriate)	
☒ Return Receipt (hardcopy)	\$ 4.65
☐ Return Receipt (electronic)	\$
☐ Certified Mail Restricted Delivery	\$
☐ Adult Signature Required	\$
☐ Adult Signature Restricted Delivery	\$
Postage	\$ 1.98
Total Postage and Fees	\$ 12.18
Sent To <u>BLM</u> Street and Apt. No., or PO Box No. <u>620 E. Greene Street</u> City, State, ZIP+4® <u>Carlsbad, NM 88220</u>	
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions	

Postmark
Here
JUL 20 2023
W-NSR PN LTR

9589 0710 5270 1673 5994 47

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	\$ 5.55
Extra Services & Fees (check box, add fee as appropriate)	
☒ Return Receipt (hardcopy)	\$ 4.65
☐ Return Receipt (electronic)	\$
☐ Certified Mail Restricted Delivery	\$
☐ Adult Signature Required	\$
☐ Adult Signature Restricted Delivery	\$
Postage	\$ 1.98
Total Postage and Fees	\$ 12.18
Sent To <u>Ballard, Harley Winston & Carol Jeanette</u> Street and Apt. No., or PO Box No. <u>P.O. Box 55</u> City, State, ZIP+4® <u>Carlsbad NM 88221</u>	
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions	

Postmark
Here
JUL 20 2023
W-NSR PN LTR

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:

- Intrepid Potash West Plant Entrance
- TimeWise 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)



EDDY COUNTY

New Mexico

[Help](#) | [Logout public](#) | [Assessor](#) | [Pay My Taxes](#)

Tax Account

Summary

Account Id R101090
Parcel Number 4177116134066
Owners INTREPID POTASH NEW MEXICO LLC
Address 1001 17TH STREET SUITE 1050
DENVER, CO 80202
Situs Address POTASH MINES ROAD
Legal Quarter: NW S. 9 T: 20S R: 30E N2NW (PATENT# 30-2014-0010) MAP# 173-9-2 LOC SW
OF 3071 POTASH MINES RD STATE ASSESSED

Inquiry

As Of 07/23/2026
Payment Type ☐ First
☒ Full
Total Due \$0.00

Value

The amounts of
taxes due on this
page are based on
last year's
property value
assessments.
For current year
values visit the
[Eddy County](#)
[Assessor's site](#).



EDDY COUNTY

New Mexico

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Tax Account

Summary

Account Id R101078
Parcel Number 4174123413108
Owners INTREPID POTASH NEW MEXICO LLC
Address 1001 17TH STREET SUITE 1050
DENVER, CO 80202
Situs Address POTASH MINES ROAD
Legal Quarter: NE S: 13 T: 21S R: 29E N2NE, SENE (PATENT# 30-2014-0010) MAP# 206-13.3
LOC-SE OF 1996 POTASH MINES RD STATE ASSESSED

Inquiry

As Of
Payment Type ☐ First
☒ Full
Total Due \$0.00

Value

The amounts of taxes due on this page are based on last year's property value assessments. For current year values visit the [Eddy County Assessor's site](#).



EDDY COUNTY

New Mexico

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Tax Account

Summary

Account Id R101075
Parcel Number 4174122135402
Owners INTREPID POTASH NEW MEXICO LLC
Address 1001 17TH STREET SUITE 1050
DENVER, CO 80202
Situs Address 1996 POTASH MINES ROAD
Legal Quarter: SW S: 12 T: 21S R: 29E SW (PATENT# 30-2014-0010) MAP# 206-12-5 LOC 1996
POTASH MINES RD STATE ASSESSED

Inquiry

As Of
Payment Type ☐ First
☒ Full
Total Due \$0.00

Value

The amounts of taxes due on this page are based on last year's property value assessments. For current year values visit the [Eddy County Assessor's site](#).



EDDY COUNTY

New Mexico

[Help](#) | [Logout public](#) | [Assessor](#) | [Pay My Taxes](#)

Tax Account

Summary

Account Id R101076
Parcel Number 4174122401136
Owners INTREPID POTASH NEW MEXICO LLC
Address 1001 17TH STREET SUITE 1050
DENVER, CO 80202
Situs Address POTASH MINES ROAD
Legal Quarter: NE S: 12 T: 21S R: 29E NE (PATENT# 30-2014-0010) MAP# 206-12-1 LOC-NE OF
1996 POTASH MINES RD

Inquiry

As Of
Payment Type ☐ First
☒ Full
Total Due \$0.00

Value

The amounts of taxes due on this page are based on last year's property value assessments. For current year values visit the [Eddy County Assessor's site](#).



EDDY COUNTY

New Mexico

[ip](#) | [Logout public](#) | [Assessor](#) | [Pay My Taxes](#)

Tax Account

Summary

Account Id R101077
Parcel Number 4174122202136
Owners INTREPID POTASH NEW MEXICO LLC
Address 1001 17TH STREET SUITE 1050
DENVER, CO 80202
Situs Address POTASH MINES ROAD
Legal Quarter: NW S: 12 T: 21S R: 29E E2NW (PATENT# 30-2014-0010) MAP# 206-12-2 LOC NE
1996 POTASH MINES RD STATE ASSESSED

Inquiry

As Of 07/23/2026
Payment Type ☐ First
☒ Full
Total Due \$0.00

Value

The amounts of taxes due on this page are based on **last year's** property value assessments. For current year values visit the [Eddy County Assessor's site](#).

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 9589 0710 5270 1673 5994 61
RETURN RECEIPT REQUESTED

Lea County Clerk
100 North Main
Lovington, NM 88260

Dear Lea County Official:

Intrepid Potash – New Mexico, West Plant announces its application submittal to the New Mexico Environment Department for an air quality permit for the construction/installation of a backup generator engine at the West Plant facility. The expected date of application submittal to the Air Quality Bureau is July 28, 2026.

The exact location for the facility known as, Intrepid Potash – New Mexico West Plant, is at 1996 Potash Mines Road, Carlsbad, NM 88220. The approximate location of this facility is 2.9 miles south of the intersection of US Hwy 62/180 and Potash Mines Road (State Road 31) in Eddy County.

The proposed modification consists of the replacement of an emergency generator engine with a new backup generator engine.

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

<u>Pollutant</u>	<u>Pounds per hour</u>	<u>Tons per year</u>
PM ₁₀	23	95
PM _{2.5}	17	75
Sulfur Dioxide (SO ₂)	1	5
Nitrogen Oxides (NO _x)	11	35
Carbon Monoxide (CO)	27	105
Volatile Organic Compounds (VOC)	1	5
Total sum of all Hazardous Air Pollutants (HAPs)	1	5
Green House Gas Emissions as Total CO ₂ e	6005	24,605

The standard operating schedule of the facility will be from 7 a.m. to 4 p.m. 5 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be 24 hrs a day, 7 days a week and a maximum of 52 weeks per year.

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

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



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

Sincerely,

A handwritten signature in black ink that reads "Dusten Russell".

Dusten Russell
Intrepid Potash NM
P.O. Box 101
Carlsbad, NM 88221

Notice of Non-discrimination
Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

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 6

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

NOTICE

Intrepid Potash – New Mexico West Plant announces its application to the New Mexico Environment Department for an air quality permit for the **construction/installation of a backup generator engine at the West Plant facility**. The expected date of application submittal to the Air Quality Bureau is **July 28, 2026**.

The exact location for the facility known as, Intrepid Potash – New Mexico West Plant, is at 1996 Potash Mines Road, Carlsbad, NM 88220. The approximate location of this facility is 2.9 miles south of the intersection of US Hwy 62/180 and Potash Mines Road (State Road 31) in Eddy County.

The proposed modification consists of the replacement of an emergency generator engine with a new backup generator engine.

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

<u>Pollutant</u>	<u>Pounds per hour</u>	<u>Tons per year</u>
PM ₁₀	23	95
PM _{2.5}	17	75
Sulfur Dioxide (SO ₂)	1	5
Nitrogen Oxides (NO _x)	11	35
Carbon Monoxide (CO)	27	105
Volatile Organic Compounds (VOC)	1	5
Total sum of all Hazardous Air Pollutants (HAPs)	1	5
Green House Gas Emissions as Total CO ₂ e	6005	24,605

The standard operating schedule of the facility will be from 7 a.m. to 4 p.m. 5 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be 24 hrs a day, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: Intrepid Potash – New Mexico West Plant, 1996 Potash Mines Road, Carlsbad, NM 88220.

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

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

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

Notice of Non-Discrimination

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

West NSR Permit 421-M5R1 Public Notice
West Plant Front Entrance
Proof of Posting



General Posting of Notices – Certification

I, **Patrick Long**, the undersigned, certify that on **July 20, 2026**, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the **Carlsbad** of **Eddy** County, State of New Mexico on the following dates:

1. Intrepid Potash West Plant Entrance 07/20/2026
2. TimeWise Shell, located at 713 North Canal in Carlsbad, NM 07/20/2026
3. The Carlsbad Public Library, at 101 South Halagueno in Carlsbad, NM 07/20/2026
4. La Tienda Thriftway, at 1301 S. Canal Street in Carlsbad, NM 07/20/2026

Signed this 23rd day of July, 2026.

Patrick Long 
Signature

07/23/2026
Date

Patrick Long Patrick R Long
Printed Name

Environmental Scientist
Title

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
Kenneth Smith, Inc. 267 Smith Ranch Road Hobbs, NM 88240	July 20, 2026
Ballard, Harley Winston & Carol Jeanette PO Box JJ Carlsbad, NM 88221	July 20, 2026
Eddy County Clerk Administration Complex 101 W Greene Street Carlsbad, NM 88220	July 20, 2026
Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220	July 20, 2026
State of New Mexico 310 Old Santa Fe Trail Santa Fe, NM 87504	July 20, 2026
Lea County Clerk 100 North Main, 2nd Floor Lovington, NM 88260	July 20, 2026

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 West Plant operates a Potash Mine at 1996 Potash Mines Road, Carlsbad, NM 88220. The principal owner is Intrepid Potash – New Mexico. The facility is applying to replace the emergency backup generator engine with a new backup generator engine.

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

- The Intrepid Potash West Plant Entrance
- TimeWise 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

From: [Robin Hughes](#)
To: [Deborah Thomas](#)
Cc: [Dusten Russell](#); [Lori Elsing](#); [Jen Andrews](#)
Subject: Request for Public Service Announcement for Intrepid Potash West Plant NSR Permit 421-M5R1 Modification Application
Date: Friday, July 17, 2026 12:22:00 PM
Attachments: [2026-07_West NSR 421-M5R1 Public Service Announcement.docx](#)

Hi Debbie,

Attached is the Public Service Announcement for Intrepid Potash West Plant NSR Permit 421-M5R1 Modification Application.

Please air the PSA in English and Spanish on Wednesday, July 22, 2026 if possible.

Can I please get a copy of the order for submittal with the application?

We will be submitting the application to NMED on July 28, 2026.

Please mail the final invoice to me at:

Intrepid Potash

Attn: Robin Hughes

PO Box 101

Carlsbad, NM 88221

Or you can email me the invoice at robin.hughes@intrepidpotash.com

Thank you for your help

Robin Hughes
Environmental Technician III



210 Red Cloud Road

Carlsbad, NM 88220

575-941-2212

robin.hughes@intrepidpotash.com

CARLSBAD RADIO, INC
PO Box 1538
CARLSBAD, NM 88221

Order #: **2573-00072**
Description: West Plant NSR Permit
Date Entered: 7/20/2026
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	7/20/2026	7/20/2026	KCDY-FM	West Plant NSR Permit	Monthly	1	600.00	600.00

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	7/22/2026	7/22/2026	KATK-AM	06:00:00a to 07:00:00p	Weekly	1:30	1	0.00	0.00	0	0	1	0	0	0	0
2	7/22/2026	7/22/2026	KATK-FM	06:00:00a to 07:00:00p	Weekly	1:30	1	0.00	0.00	0	0	1	0	0	0	0
3	7/22/2026	7/22/2026	KCDY-FM	06:00:00a to 07:00:00p	Weekly	1:30	1	0.00	0.00	0	0	1	0	0	0	0

Order Start Date: 7/20/2026

Order End Date: 7/22/2026

Spots: 3

Total Charges:

\$600.00

Total Sales Tax

\$44.37

Total Net:

\$644.37

Projected Calendar Month Billing Totals for Intrepid Potash - New Mexico, LLC / 2573-00072 :

		<u>Spot Count</u>	<u>Net Billing</u>
July	2026	3	\$600.00

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 **July 17, 2026**, submitted a public service announcement to **Carlsbad Radio** that serves the City\Town\Village of **Carlsbad, Eddy** County, New Mexico, in which the source is or is proposed to be located and that **Carlsbad Radio RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT.**

Signed this 20th day of July, 2026.

Robin Hughes

Signature

7/20/2026

Date

Robin Hughes

Printed Name

Environmental Technician III

Title

Section 9

Proof of Public Notice

Items 9 & 10

Copy of Legal Ad & Copy of Display Ad

Carlsbad Current Argus

07/22/2026

Affidavit of Publication

No. 118010

State of New Mexico

County of Eddy:

Adrian Hedden

being duly sworn, says that he is the **Publisher**

of the Carlsbad Current Argus, a weekly newspaper of

general circulation, published in English at Carlsbad,

said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said

Carlsbad Current Argus, a weekly newspaper duly qualified

for that purpose within the meaning of Chapter 167 of

the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication July 22, 2026

Second Publication

Third Publication

Fourth Publication

Fifth Publication

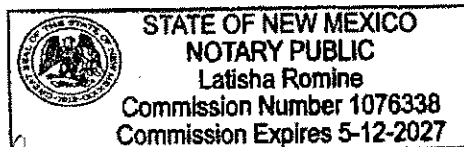
Sixth Publication

Seventh Publication

Eighth Publication

Subscribed and sworn before me this

22nd day of July 2026



Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

NOTICE OF AIR QUALITY PERMIT APPLICATION

Intrepid Potash - New Mexico West Plant announces its application submittal to the New Mexico Environment Department for an air quality permit for the **construction/installation of a backup generator engine at the West Plant facility**. The expected date of application submittal to the Air Quality Bureau is **July 28, 2026**.

The exact location for the facility known as, Intrepid Potash - New Mexico West Plant, is at 1996 Potash Mines Road, Carlsbad, NM 88220. The approximate location of this facility is 2.9 miles south of the intersection of US Hwy 62/180 and Potash Mines Road (State Road 31) in Eddy County.

The proposed modification consists of the replacement of an emergency generator engine with a new backup generator engine.

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

Pollutant	Pounds per hour	Tons per year
PM ₁₀	23	95
PM _{2.5}	17	75
Sulfur Dioxide (SO ₂)	1	5
Nitrogen Oxides (NO _x)	11	35
Carbon Monoxide (CO)	27	105
Volatile Organic Compounds (VOC)	1	5
Total sum of all Hazardous Air Pollutants (HAPs)	1	5
Green House Gas Emissions as Total CO ₂ e	6005	24,605

The standard operating schedule of the facility will be from 7 a.m. to 4 p.m. 5 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be 24 hrs a day, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: **Intrepid Potash - New Mexico West Plant, 1996 Potash Mines Road, Carlsbad, NM 88220**.

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

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

General information about air quality and the permitting process, and links to the regulations can be found at the Air Quality Bureau's website: www.env.nm.gov/air-quality/permitting-section-home-page/. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and reg-

First Publication

Second Publication

Third Publication

Fourth Publication

Fifth Publication

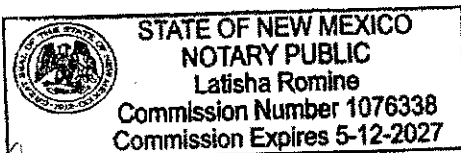
Sixth Publication

Seventh Publication

Eighth Publication

Subscribed and sworn before me this

22nd day of July 2026



Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

The standard operating schedule of the facility will be from 7 a.m. to 4 p.m. 5 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be 24 hrs a day, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: **Intrepid Potash - New Mexico West Plant, 1996 Potash Mines Road, Carlsbad, NM 88220.**

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

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

General information about air quality and the permitting process, and links to the regulations can be found at the Air Quality Bureau's website: www.env.nm.gov/air-quality/permitting-section-home-page/. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

Notice of Non-Discrimination

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

118010-Published in Carlsbad Current Argus July 22, 2026.

Affidavit of Publication

No. _____

State of New Mexico

County of Eddy:

Adrian Hedden

being duly sworn, says that he is the **Publisher**

of the Carlsbad Current Argus, a weekly newspaper of

general circulation, published in English at Carlsbad,

said county and state, and that the hereto attached

Display Ad

was published in a regular and entire issue of the said

Carlsbad Current Argus, a weekly newspaper duly qualified

for that purpose within the meaning of Chapter 167 of

the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication July 22, 2026

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

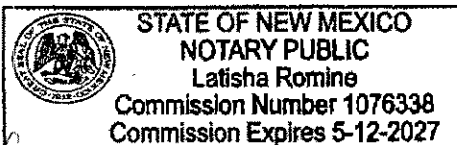
Sixth Publication _____

Seventh Publication _____

Eighth Publication _____

Subscribed and sworn before me this

22nd day of July 2026



Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

NOTICE OF AIR QUALITY PERMIT APPLICATION

Intrepid Potash - New Mexico West Plant announces its application submittal to the New Mexico Environment Department for an air quality permit for the **construction/installation of a backup generator engine at the West Plant facility**. The expected date of application submittal to the Air Quality Bureau is **July 28, 2026**.

The exact location for the facility known as, Intrepid Potash - New Mexico West Plant, is at 1996 Potash Mines Road, Carlsbad, NM 88220. The approximate location of this facility is 2.9 miles south of the intersection of US Hwy 62/180 and Potash Mines Road (State Road 31) in Eddy County.

The proposed modification consists of the replacement of an emergency generator engine with a new backup generator engine.

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

Pollutant	Pounds per hour	Tons per year
PM ₁₀	23	95
PM _{2.5}	17	75
Sulfur Dioxide (SO ₂)	1	5
Nitrogen Oxides (NO _x)	11	35
Carbon Monoxide (CO)	27	105
Volatile Organic Compounds (VOC)	1	5
Total sum of all Hazardous Air Pollutants (HAPs)	1	5
Green House Gas Emissions as Total CO ₂ e	6005	24,605

The standard operating schedule of the facility will be from 7 a.m. to 4 p.m. 5 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be 24 hrs a day, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: **Intrepid Potash - New Mexico West Plant, 1996 Potash Mines Road, Carlsbad, NM 88220**.

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

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Atención

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Fifth Publication

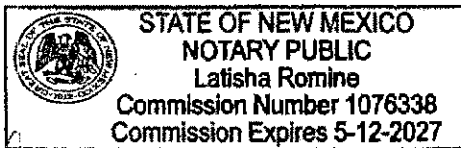
Sixth Publication

Seventh Publication

Eighth Publication

Subscribed and sworn before me this

22nd day of July 2026



Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

The owner and/or operator of the facility is: **Intrepid Potash**
New Mexico West Plant, 1996 Potash Mines Road, Carlsbad,
NM 88220.

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

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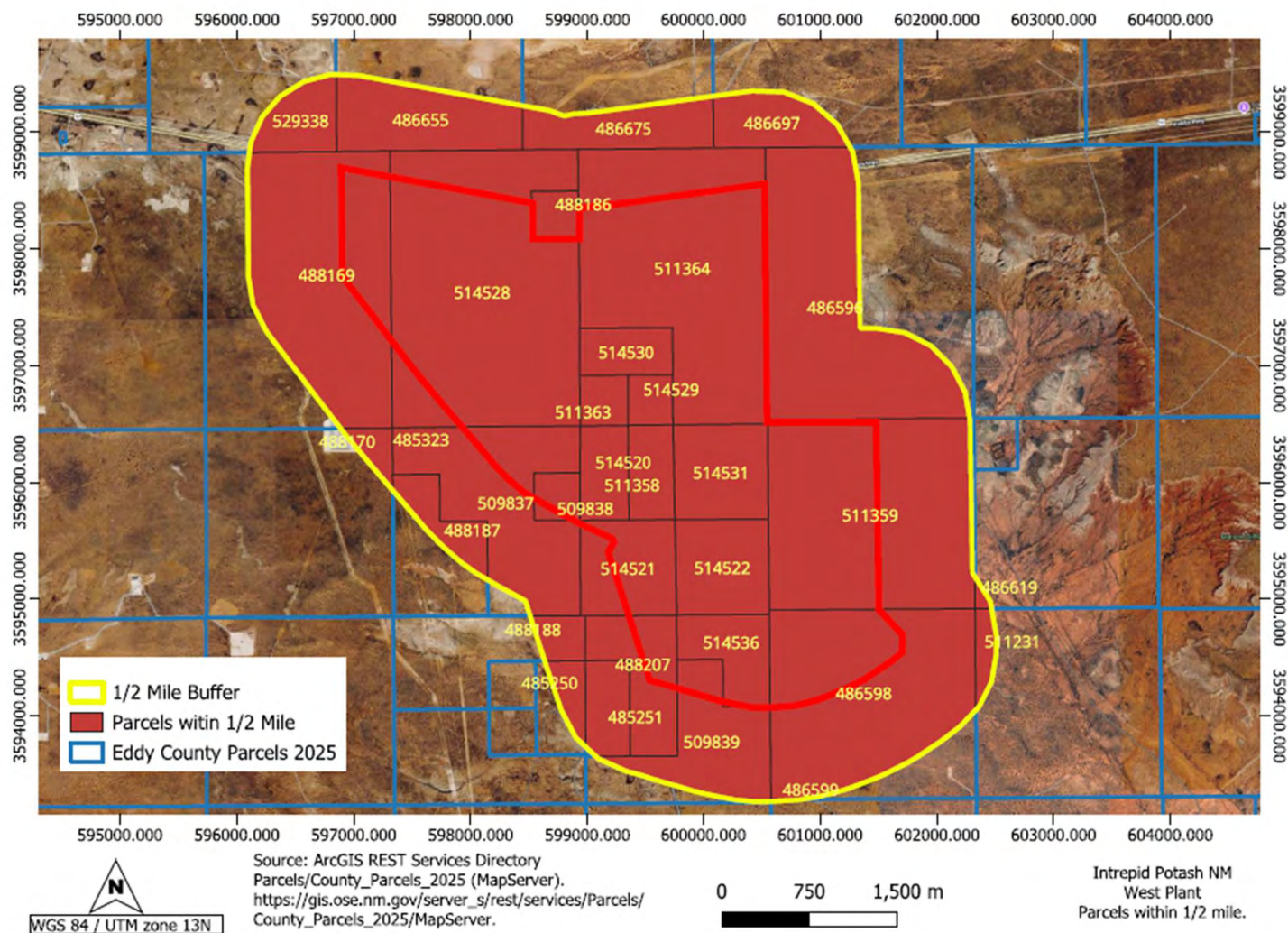
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination 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



AccountNum	County	CountyFIPS	PLSSID	UPC	ParcelOID	LegalDescr	OwnerAll	MailAddr_2
R094735	Eddy	35015	NM230210S0290E0SN140	4173123461264	485250	Quarter: NE S: 14 T: 21S R: 29E SENE Quarter: SE S: 14 T: 21S R: 29E NESE, ,	Ballard, Harley Winston & Carol Jeanette (It)	Po Box Jj Carlsbad, Nm 88221
R067498	Eddy	35015	NM230210S0290E0SN130	4174123066264	485251	Quarter: NW S: 13 T: 21S R: 29E SWNW Quarter: SW S: 13 T: 21S R: 29E NWSW	Ballard, Harley Winston & Carol Jeanette (It)	Po Box Jj Carlsbad, Nm 88221
R094626	Eddy	35015	NM230210S0300E0SN060	4175121285388	486596	Quarter: NE S: 6 T: 21S R: 30E Quarter: NW S: 6 T: 21S R: 30E Quarter: SW S: 6 T: 21S R: 30E Quarter: SE S: 6 T: 21S R: 30E ALL MAP# 207-6 LOC E OF CARLSBAD EXEMPT	Bureau Of Land Management	United States Of America ,
R094679	Eddy	35015	NM230210S0300E0SN180	4175123285264	486598	Quarter: NE S: 18 T: 21S R: 30E Quarter: NW S: 18 T: 21S R: 30E Quarter: SW S: 18 T: 21S R: 30E Quarter: SE S: 18 T: 21S R: 30E ALL MAP# 207-18 LOC E OF CARLSBAD EXEMPT	Bureau Of Land Management	United States Of America ,
R094680	Eddy	35015	NM230210S0300E0SN190	4175124285264	486599	Quarter: NE S: 19 T: 21S R: 30E Quarter: NW S: 19 T: 21S R: 30E Quarter: SW S: 19 T: 21S R: 30E Quarter: SE S: 19 T: 21S R: 30E ALL MAP# 207-19 LOC E OF CARLSBAD EXEMPT	Bureau Of Land Management	United States Of America ,
R094670	Eddy	35015	NM230210S0300E0SN080	4176122263264	486619	Quarter: NE S: 8 T: 21S R: 30E Quarter: NW S: 8 T: 21S R: 30E Quarter: SW S: 8 T: 21S R: 30E Quarter: SE S: 8 T: 21S R: 30E NE, E2NW, SWNW, S2 MAP# 207-8 LOC E OF CARLSBAD EXEMPT	Bureau Of Land Management	United States Of America ,
R051744	Eddy	35015	NM230200S0300E0SN340	4178120264263	486655	Quarter: NE S: 34 T: 20S R: 30E Quarter: NW S: 34 T: 20S R: 30E Quarter: SW S: 34 T: 20S R: 30E Quarter: SE S: 34 T: 20S R: 30E N2, SE LESS 16.97 AC, SW LESS 12.13 AC	Bureau Of Land Management	United States Of America ,
R051745	Eddy	35015	NM230200S0300E0SN350	4179120263263	486675	Quarter: NE S: 35 T: 20S R: 30E Quarter: NW S: 35 T: 20S R: 30E Quarter: SW S: 35 T: 20S R: 30E Quarter: SE S: 35 T: 20S R: 30E N2, SE LESS 12.17 AC, SW LESS 19.87 AC	Bureau Of Land Management	United States Of America ,
R051746	Eddy	35015	NM230200S0300E0SN360	4180120264264	486697	Quarter: NE S: 36 T: 20S R: 30E Quarter: NW S: 36 T: 20S R: 30E Quarter: SW S: 36 T: 20S R: 30E Quarter: SE S: 36 T: 20S R: 30E NE, S2NW, NENW LESS 20.53 AC, SE LESS 12.31 AC, SW LESS 42.57 AC	State Of New Mexico	310 Old Santa Fe Trail Santa Fe, Nm 87504
R074974	Eddy	35015	NM230210S0290E0SN030	4172121263388	488169	Quarter: NE S: 3 T: 21S R: 29E Quarter: NW S: 3 T: 21S R: 29E Quarter: SW S: 3 T: 21S R: 29E Quarter: SE S: 3 T: 21S R: 29E ALL EXEMPT	Bureau Of Land Management	United States Of America ,
R074981	Eddy	35015	NM230210S0290E0SN100	4172122263264	488170	Quarter: NE S: 10 T: 21S R: 29E Quarter: NW S: 10 T: 21S R: 29E Quarter: SW S: 10 T: 21S R: 29E Quarter: SE S: 10 T: 21S R: 29E ALL EXEMPT	Bureau Of Land Management	United States Of America ,
R052868	Eddy	35015	NM230210S0290E0SN020	4173121462182	488186	Quarter: NE S: 2 T: 21S R: 29E LT 8 (LESS 3.073 AC TO HWY)	Kenneth, Smith Inc	267 Smith Ranch Rd Hobbs, Nm 88240
R052250	Eddy	35015	NM230210S0290E0SN110	4173122131396	488187	Quarter: NW S: 11 T: 21S R: 29E Quarter: SW S: 11 T: 21S R: 29E SECTIONS 11, 13-14, 16, 18, 32, 36 LOC ALONG POTASH MINES ROAD SW, SWNW, SENE SEC 11 N/2NW, SENW, NESW SEC 13 NW, N/2NE, NWSW SEC 14 ALL SEC 16 SESW, W/2NW, NWSW SEC 18 ALL SEC 32 ALL SEC 36	State Of New Mexico	310 Old Santa Fe Trail Santa Fe, Nm 87504
R094729	Eddy	35015	NM230210S0290E0SN140	4173123263066	488188	Quarter: NE S: 14 T: 21S R: 29E N2NE, NW EXEMPT	State Of New Mexico	310 Old Santa Fe Trail Santa Fe, Nm 87504
R094727	Eddy	35015	NM230210S0290E0SN130	4174123197198	488207	Quarter: NW S: 13 T: 21S R: 29E Quarter: SW S: 13 T: 21S R: 29E N2NW, SENW, NESW EXEMPT	State Of New Mexico	310 Old Santa Fe Trail Santa Fe, Nm 87504
R074982	Eddy	35015	NM230210S0290E0SN110	4173122329264	509837	Quarter: NE S: 11 T: 21S R: 29E Quarter: NW S: 11 T: 21S R: 29E Quarter: SE S: 11 T: 21S R: 29E NENE, W2NE, NWNW, E2NW, SE EXEMPT	Bureau Of Land Management	United States Of America ,
R094726	Eddy	35015	NM230210S0290E0SN110	4173122461198	509838	Quarter: NE S: 11 T: 21S R: 29E SENE EXEMPT	State Of New Mexico	310 Old Santa Fe Trail Santa Fe, Nm 87504
R074984	Eddy	35015	NM230210S0290E0SN130	4174123396396	509839	Quarter: NE S: 13 T: 21S R: 29E Quarter: SW S: 13 T: 21S R: 29E Quarter: SE S: 13 T: 21S R: 29E SWNE, SE, S2SW EXEMPT	Bureau Of Land Management	United States Of America ,
R094678	Eddy	35015	NM230210S0300E0SN170	4176123263264	511231	Quarter: NE S: 17 T: 21S R: 30E Quarter: NW S: 17 T: 21S R: 30E Quarter: SW S: 17 T: 21S R: 30E Quarter: SE S: 17 T: 21S R: 30E ALL MAP# 207-17 LOC E OF CARLSBAD EXEMPT	Bureau Of Land Management	United States Of America ,
R074983	Eddy	35015	NM230210S0290E0SN120	4174122069136	511358	Quarter: NE S: 12 T: 21S R: 29E Quarter: NW S: 12 T: 21S R: 29E Quarter: SW S: 12 T: 21S R: 29E Quarter: SE S: 12 T: 21S R: 29E W2NW EXEMPT	Bureau Of Land Management	United States Of America ,
R094627	Eddy	35015	NM230210S0300E0SN070	4175122285264	511359	Quarter: NE S: 7 T: 21S R: 30E Quarter: NW S: 7 T: 21S R: 30E Quarter: SW S: 7 T: 21S R: 30E Quarter: SE S: 7 T: 21S R: 30E ALL MAP# 207-7 LOC E OF CARLSBAD EXEMPT	Bureau Of Land Management	United States Of America ,
R051823	Eddy	35015	NM230210S0290E0SN010	4174121263388	511363	Quarter: NE S: 1 T: 21S R: 29E Quarter: NW S: 1 T: 21S R: 29E Quarter: SW S: 1 T: 21S R: 29E Quarter: SE S: 1 T: 21S R: 29E SECTIONS 1, 3-15, 17-31, 33,35 ALL SECTIONS 1,3,4,5,6,7,8,9,10,12, 15,17,19,20,21,22,23,24,26,27,28,29 30,31,33,34,35 SE,E/2NW,NWN	Bureau Of Land Management	United States Of America ,
R051823	Eddy	35015	NM230210S0290E0SN010	4174121263388	511364	Quarter: NE S: 1 T: 21S R: 29E Quarter: NW S: 1 T: 21S R: 29E Quarter: SW S: 1 T: 21S R: 29E Quarter: SE S: 1 T: 21S R: 29E SECTIONS 1, 3-15, 17-31, 33,35 ALL SECTIONS 1,3,4,5,6,7,8,9,10,12, 15,17,19,20,21,22,23,24,26,27,28,29 30,31,33,34,35 SE,E/2NW,NWN	Bureau Of Land Management	United States Of America ,
R101077	Eddy	35015	NM230210S0290E0SN120	4174122202136	514520	Quarter: NW S: 12 T: 21S R: 29E E2NW (PATENT# 30-2014-0010) MAP# 206-12-2 LOC NE 1996 POTASH MINES RD STATE ASSESSED	Intrepid Potash New Mexico Llc	1001 17Th Street Suite 1050 Denver, Co 80202
R101075	Eddy	35015	NM230210S0290E0SN120	4174122135402	514521	Quarter: SW S: 12 T: 21S R: 29E SW (PATENT# 30-2014-0010) MAP# 206-12-5 LOC 1996 POTASH MINES RD STATE ASSESSED	Intrepid Potash New Mexico Llc	1001 17Th Street Suite 1050 Denver, Co 80202
R101074	Eddy	35015	NM230210S0290E0SN120	4174122401402	514522	Quarter: SE S: 12 T: 21S R: 29E SE (PATENT# 30-2014-0010) MAP# 202-12-4 LOC-NE OF 1996 POTASH MINES RD STATE ASSESSED	Intrepid Potash New Mexico Llc	1001 17Th Street Suite 1050 Denver, Co 80202
R055093	Eddy	35015	NM230210S0290E0SN020	4173121263388	514528	S: 2 T: 21S R: 29E ALL LESS LOT 8	Intrepid Potash New Mexico Llc	1001 17Th Street Suite 1050 Denver, Co 80202
R101072	Eddy	35015	NM230210S0290E0SN010	4174121201707	514529	Quarter: SW S: 1 T: 21S R: 29E SESW (PATENT# 30-2014-0010) MAP# 260-1-3 LOC-SE OF 5225 HOBBS HWY STATE ASSESSED	Intrepid Potash New Mexico Llc	1001 17Th Street Suite 1050 Denver, Co 80202
R101071	Eddy	35015	NM230210S0290E0SN010	4174121133570	514530	Quarter: SW S: 1 T: 21S R: 29E N2SW (PATENT# 30-2014-0010) MAP# 260-1-2 LOC-SE OF 5225 HOBBS HWY STATE ASSESSED	Intrepid Potash New Mexico Llc	1001 17Th Street Suite 1050 Denver, Co 80202
R101076	Eddy	35015	NM230210S0290E0SN120	4174122401136	514531	Quarter: NE S: 12 T: 21S R: 29E NE (PATENT# 30-2014-0010) MAP# 206-12-1 LOC-NE OF 1996 POTASH MINES RD	Intrepid Potash New Mexico Llc	1001 17Th Street Suite 1050 Denver, Co 80202
R101078	Eddy	35015	NM230210S0290E0SN130	4174123413108	514536	Quarter: NE S: 13 T: 21S R: 29E N2NE, SENE (PATENT# 30-2014-0010) MAP# 206-13.3 LOC-SE OF 1996 POTASH MINES RD STATE ASSESSED	Intrepid Potash New Mexico Llc	1001 17Th Street Suite 1050 Denver, Co 80202
R051743	Eddy	35015	NM230200S0300E0SN330	4177120264264	529338	Quarter: NE S: 33 T: 20S R: 30E Quarter: NW S: 33 T: 20S R: 30E Quarter: SW S: 33 T: 20S R: 30E Quarter: SE S: 33 T: 20S R: 30E N2, SE LESS 12.32 AC, SW LESS 12.38 AC	Bureau Of Land Management	United States Of America ,

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.

WEST PLANT

Ore is extracted from an underground mine then lifted to the surface for potash extraction. Mined ore is crushed, screened and conveyed to a fine ore bin: these emission are covered under fugitive emission Units W-F5 through W-F16. Crushed ore from the fine ore bin undergoes a wet flotation process. Refined potash is dried in a rotary dryer, permitted under W-EP-01. Materials handling of dried potash is permitted under Units W-F2, W-18 through W-F23. Fugitive emissions from hauling dried potash to North Plant are permitted under W-F3 and W-F4.

W-EP-01 refers to a rotary dryer that is fueled by natural gas for drying potash. Emissions are routed to a dust control cyclone and venturi scrubber.

W-EP-02 refers to a boiler that is fueled by natural gas. This boiler produces process steam.

W-F2, and W-F5 through W-F23 refer to fugitive emissions from materials handling equipment including a screen, crusher, raw ore bin, fine ore bin, five product loadout storage bins, truck loadout. Emissions are controlled with best engineering practices, such as covers and enclosures.

W-F3 and W-F4 refer to fugitive air emissions from the haul roads. Emissions are controlled with gravel and street sweeping.

W-G-1 and W-G-2 refer to two diesel-fired emergency backup electrical generator engines. Emissions are controlled with limits on hours of operation.

The application request the replacement of the emergency diesel fired generator W-G-2 with a diesel fired generator for use during voluntary power outage and, therefore, the emission would not be controlled with limits on hours.

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):

Intrepid Potash North Plant, West Plant and HB Mill.

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):

The Source for PSD and Title V purposes consists of the West, HB and North Plants. All three plants when considered together are not a PSD major source, but are considered a major source for Title V purposes.

Section 12

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

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

A. This facility is:

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

B. This facility **is not** one of the listed 20.2.74.501 Table I – PSD Source Categories. The “project” emissions for this modification are **not significant. The potential emissions of the replacement unit are less than the potential emissions of the existing unit.** 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 are relevant** to this facility. Also, specifically discuss whether this project results in “de-bottlenecking”, or other associated emissions resulting in higher emissions. **The unit being replaced has no impact on process emissions and the replacement will not debottleneck the process.** 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: **0.505** TPY
- b. CO: **4.422** TPY
- c. VOC: **0.240** TPY
- d. SOx: **0.007** TPY
- e. PM: **0.025** TPY
- f. PM10: **0.025** TPY
- g. PM2.5: **0.025** TPY
- h. Fluorides: **0.0**TPY
- i. Lead: **0.0** TPY
- j. Sulfur compounds (listed in Table 2): **0.0** TPY
- k. GHG: **883.2** 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.

Section 13

Determination of State & Federal Air Quality Regulations

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

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

Required Information for Specific Equipment:

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

Required Information for Regulations that Apply to the Entire Facility:

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

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

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

Regulatory Citations for Emission Standards:

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

Federally Enforceable Conditions:

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

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

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

To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.

Example of a Table for State Regulations:

<u>State Regulation Citation</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	Applies to NSR actions. NMAAQS do not apply to Title V applications, see exemption at 20.2.3.9 NMAC.
20.2.7 NMAC	Excess Emissions	Yes	Facility	This applies to the entire facility.
20.2.19 NMAC	Potash	Yes	Facility	Referenced regulation applies to W-EP-01, W-F2 through W-F23..
20.2.23 NMAC	Fugitive Dust Control	No	Facility	N/A for permitted facilities.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No		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 covered by this Permit do not have oil burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No		This 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		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		Facility does not contain any affected equipment or activity referenced by this regulation.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants			This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NO_x) for oil and gas production, processing, compression, and transmission sources. 20.2.50 NMAC subparts below: Check the box for the subparts that are applicable: ☐ 113 – Engines and Turbines ☐ 114 – Compressor Seals ☐ 115 – Control Devices and Closed Vent Systems ☐ 116 – Equipment Leaks and Fugitive Emissions ☐ 117 – Natural Gas Well Liquid Unloading ☐ 118 – Glycol Dehydrators ☐ 119 – Heaters ☐ 120 – Hydrocarbon Liquid Transfers ☐ 121 – Pig Launching and Receiving ☐ 122 – Pneumatic Controllers and Pumps ☐ 123 – Storage Vessels ☐ 124 – Well Workovers ☐ 125 – Small Business Facilities ☐ 126 – Produced Water Management Unit ☐ 127 – Flowback Vessels and Preproduction Operations

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	Unit	Permitted units, W-EP-02, W-G-1, W-G-2, 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 submit 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	Facility does not meet criteria for PSD major source.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	Facility is subject to construction permit fees.
20.2.77 NMAC	New Source Performance	Yes	Units subject to 40 CFR 60	Permitted units W-G-1 and replacement unit for W-G-2, are subject to the referenced regulation.
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	Facility does not contain units subject to this regulation.
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		Facility does not contain equipment subject to referenced regulation.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	Units Subject to 40 CFR 63	Permitted unit, W-G-1 and W-G-2 are subject to this regulation. The units comply with the regulation by complying with NSPS Subpart IIII.

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

Federal Regulation 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	Units subject to 40 CFR 60	Referenced regulation applies to W-G-1 and W-G-2.
NSPS 40 CFR 60.40a, Subpart Da	Subpart Da, Performance Standards for Electric Utility Steam Generating Units	No		Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60.40b Subpart Db	Electric Utility Steam Generating Units	No		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	No		Facility does not contain equipment subject to referenced regulation.
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		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 Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	No		Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60.330 Subpart GG	Stationary Gas Turbines	No		Facility does not contain equipment subject to referenced regulation.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from Onshore Gas Plants	No		Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for Onshore Natural Gas Processing: SO ₂ Emissions	No		Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR Part 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after August 23, 2011 and before September 18, 2015	No		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		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	Units	Permitted units W-G-1 and W-G-2, are subject to the referenced regulation.
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	No		Facility does not contain equipment subject to referenced regulation.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No		Facility does not contain equipment subject to referenced regulation.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No		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		Facility does not contain equipment subject to referenced regulation.
NESHAP 40 CFR 61 Subpart A	General Provisions	No	Units Subject to 40 CFR 61	Facility does not contain equipment subject to referenced regulation.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for Mercury	No		Facility does not contain equipment subject to referenced regulation.
NESHAP 40 CFR 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	No		Facility does not contain equipment subject to referenced regulation.
MACT 40 CFR 63, Subpart A	General Provisions	No	Units Subject to 40 CFR 63	Permitted unit, W-G-1 and W-G-2 are subject to this regulation. The units comply with the regulation by complying with NSPS Subpart IIII.
MACT 40 CFR 63.760 Subpart HH	Oil and Natural Gas Production Facilities	No		Facility does not contain equipment subject to referenced regulation.
MACT 40 CFR 63 Subpart HHH		No		Facility does not contain equipment subject to referenced regulation.
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No		Facility does not contain equipment subject to referenced regulation.
MACT 40 CFR 63 Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit	No		Facility does not contain equipment subject to referenced regulation.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Yes	Units	Units W-G-1, and W-G-2 are subject to this MACT standard and demonstrate compliance with 40 CFR 63 Subpart ZZZZ by complying with NSPS 40 CFR 60 Subpart IIII.
40 CFR 64	Compliance Assurance Monitoring	Yes	Units	The following units are subject to referenced regulation: W-EP-01.
40 CFR 68	Chemical Accident Prevention	No	Facility	Facility does not have chemicals in a covered process above the threshold. Therefore, this regulation is not applicable to Intrepid's HB/West/North plants.
Title IV – Acid Rain 40 CFR 72	Acid Rain	No	Facility	Facility does not contain equipment subject to referenced regulation.
Title IV – Acid Rain 40 CFR 73	Sulfur Dioxide Allowance Emissions	No	Facility	Facility does not contain equipment subject to referenced regulation.
Title IV-Acid Rain 40 CFR 75	Continuous Emissions Monitoring	No	Facility	Facility does not contain equipment subject to referenced regulation.
Title IV – Acid Rain 40 CFR 76	Acid Rain Nitrogen Oxides Emission Reduction Program	No	Facility	Facility does not contain equipment subject to referenced regulation.
Title VI – 40 CFR 82	Protection of Stratospheric Ozone	Yes	Facility	Facility is subject to Subparts B and F. Intrepid generally utilizes contractors to perform work on units containing refrigerants.

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.
-

Intrepid maintains and operates under a Startup, Shutdowns, and Maintenance Plan.

Section 15

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Alternative Operating Scenarios: Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

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

No new, additional alternative operating scenarios are applicable.

Section 16

Air Dispersion Modeling

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

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

Check each box that applies:

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

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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

Compliance Test History Table (Modify this sample table to suit your facility)

Unit No.	Test Description	Test Date
W-EP-01	PM, NO _x , CO PM PM	8/14/2014 12/14/2015 4/28/2016 Plant is in idle state since 2016 with no operation.

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.

The application request is to replace an existing pre-2004 emergency generator engine with a post-2014 generator engine. The use is requested to be changed from emergency to backup for voluntary power outages limited to 3,000 hrs/yr. The potential emissions will decrease with the change as the new engine is subject to Tier 4 standards, except for CO emissions.

The combined emissions from West Plant, North Plant and HB mill will remain below the PSD major source threshold as summarized below.

Intrepid Potash - West, North & HB														
Summary of Total Emissions w/o Fugitives - West, North & HB														
Emission Point	TSP		PM10		PM2.5		NOx		CO		SO2		VOC	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
West Plant	13.74	59.41	13.74	59.41	13.74	59.41	10.19	33.30	26.22	104.08	0.29	0.58	0.61	1.41
HB Plant	4.67	13.68	4.67	13.68	4.67	13.68	38.59	67.79	27.46	49.51	6.18	9.51	7.67	12.05
North Plant	24.35	104.90	25.65	106.81	25.65	106.78	23.29	41.00	31.34	93.88	2.60	3.80	3.41	5.69
Combined Totals	42.76	177.99	44.06	179.90	44.06	179.86	72.07	142.09	85.03	247.47	9.07	13.89	11.70	19.14
PSD Threshold		250.00		250.00		250.00		250.00		250.00		250.00		250.00
PSD Major Source (Y/N)		N		N		N		N		N		N		N

Section 22: Certification

Company Name: Intrepid Potash – New Mexico, LLC

I, Dusten Russell, 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 29th day of July, 2026, upon my oath or affirmation, before a notary of the State of

New Mexico.

Dusten Russell
*Signature

7/29/2026
Date

Dusten Russell
Printed Name

Environmental Manager
Title

Scribed and sworn before me on this 29th day of July, 2026.

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

20th day of NOVEMBER, 2029.

Robin L. Hughes
Notary's Signature

7/29/2026
Date

ROBIN L. HUGHES
Notary's Printed Name



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

Universal Application 4

Air Dispersion Modeling Report

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

16-A: Identification		
1	Name of facility:	West Plant
2	Name of company:	Intrepid Potash – New Mexico
3	Current Permit number:	0421-M5R1
4	Name of applicant's modeler:	Bruce Ferguson
5	Phone number of modeler:	601-824-1860
6	E-mail of modeler:	bferguson@fce-engineering.com

16-B: Brief

1	Was a modeling protocol submitted and approved? (protocol submitted, no response)	Yes ☐	No ☒
2	Why is the modeling being done?	Adding New Equipment	
3	Describe the permit changes relevant to the modeling. Replace emergency generator engine with new generator engine for use in voluntary power outages		
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 ☐	No ☒
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	3/16/1988	
	SO2	7/28/1978	
	PM10	2/20/1979	
	PM2.5	11/13/2013	
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 ☐	No ☒
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	0421-M5R1	12/23/2013	
	NO ₂	0421-M5R1	12/23/2013	
	SO ₂	0421-M5R1	12/23/2013	
	H ₂ S	N/A		
	PM2.5	4332-M2	7/29/2022	West Plant inclusive of emergency engine W-G-2 was included in cumulative analysis for adjacent HB Mill
	PM10	4332-M2	7/29/2022	
	Lead	N/A		
	Ozone (PSD only)	N/A		
NM Toxic Air Pollutants (20.2.72.402 NMAC)	N/A			

16-D: Modeling performed for this application

1	For each pollutant, indicate the modeling performed and submitted with this application. Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.					
	Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
	CO	☒	☐	☐	☐	☐
	NO ₂	☒	☒	☐	☐	☐
	SO ₂	☒	☐	☐	☐	☐
	H ₂ S	☐	☐	☐	☐	☒
	PM _{2.5}	☒	☐	☐	☐	☐
	PM ₁₀	☒	☐	☐	☐	☐
	Lead	☐	☐	☐	☐	☒
	Ozone	☐	☐	☐	☐	☒
State air toxic(s) (20.2.72.402 NMAC)	☐	☐	☐	☐	☒	

16-E: New Mexico toxic air pollutants modeling

1	List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application. None					
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 ☒	No ☐

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	6/9/2026
2	If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.	
	AQB Source ID	Description of Corrections
	29939	The surrounding source inventory as downloaded from the NMED website was used for the existing Intrepid sources. The location of the sources were corrected to the actual source location, but the remaining parameters were modeled as included in the NMED surrounding inventory File.
	29939E28	This is the source being replaced with a new engine. The new engine emissions and stack parameters were updated and the source included with the source id in the NMED surrounding inventory.

16-H: Building and structure downwash

1	How many buildings are present at the facility?		
2	How many above ground storage tanks are present at the facility?		
3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes ☒	No ☐
4	Building comments		

16-I: Receptors and modeled property boundary

1	“Restricted Area” is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility. Describe the fence or other physical barrier at the facility that defines the restricted area.
	Rugged undeveloped terrain with some fencing and gates utilized in developed areas

2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?					Yes ☐	No ☒
3	Are restricted area boundary coordinates included in the modeling files?					Yes ☐	No ☒
4	Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.						
	Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments	
5	Describe receptor spacing along the fence line. 50 meter						
6	Describe the PSD Class I area receptors. N/A						

16-J: Sensitive areas

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

16-K: Modeling Scenarios

1	Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3). Scenarios were not used.										
2	Which scenario produces the highest concentrations? Why? N/A										
3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)									Yes ☐	No ☒
4	If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.) Sources:										
5	Hour of Day	Factor	Hour of Day	Factor							
	1		13								
	2		14								

3		15										
4		16										
5		17										
6		18										
7		19										
8		20										
9		21										
10		22										
11		23										
12		24										
If hourly, variable emission rates were used that were not described above, describe them below.												
6	Were different emission rates used for short-term and annual modeling? If so describe below.									Yes ☐	No ☒	

16-L: NO₂ Modeling

1	Which types of NO ₂ modeling were used? Check all that apply.		
	☒	ARM2	
	☐	100% NO _x to NO ₂ conversion	
	☐	PVMRM	
	☐	OLM	
2	Describe the NO ₂ modeling.		
	ARM2 was using in significance and cumulative 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 ☒ No ☐
4	Describe the design value used for each averaging period modeled.		
	1-hour: High eighth high Annual: One Year Annual Average		

16-M: Particulate Matter Modeling

1	Select the pollutants for which plume depletion modeling was used.		
	☐	PM2.5	
	☐	PM10	
	☒	None	
Describe the particle size distributions used. Include the source of information.			

2	N/A				
3	Does the facility emit at least 40 tons per year of NO _x or at least 40 tons per year of SO ₂ ? Sources that emit at least 40 tons per year of NO _x or at least 40 tons per year of SO ₂ are considered to emit significant amounts of precursors and must account for secondary formation of PM _{2.5} .			Yes ☐	No ☒
4	Was secondary PM modeled for PM _{2.5} ?			Yes ☐	No ☒
5	If MERPs were used to account for secondary PM _{2.5} fill out the information below. If another method was used describe below.				
	NO _x (ton/yr)	SO ₂ (ton/yr)	[PM _{2.5}] _{annual}	[PM _{2.5}] _{24-hour}	

16-N: Setback Distances

1	Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.
	N/A
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.
	N/A

16-O: PSD Increment and Source IDs

1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below.			Yes ☒	No ☐
	Unit Number in UA-2		Unit Number in Modeling Files		
2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.			Yes ☒	No ☐
3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?			Yes ☐	No ☒
4	Which units consume increment for which pollutants?				
	Unit ID	NO ₂	SO ₂	PM ₁₀	PM _{2.5}
	All Facility Sources	X	X	X	
	W-G-2 (new)	X	X	X	X
5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).			The existing W-G-2 is being removed and would expand increment for PM _{2.5} . The new unit will consume increment for PM _{2.5} .	

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

16-P: Flare Modeling

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

16-Q: Volume and Related Sources

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines?	Yes ☐	No ☒
	If not please explain how increment consumption status is determined for the missing installation dates below.		
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
	Volume sources were not used in the analysis.		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		
	N/A		
4	Describe any open pits.		
	None		
5	Describe emission units included in each open pit.		
	N/A		

16-R: Background Concentrations

1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.	Yes ☒	No ☐
	CO: Choose an item.		
	NO ₂ : Choose an item.		
	PM _{2.5} : Choose an item.		
	PM ₁₀ : Choose an item.		
	SO ₂ : Choose an item.		

	Other:		
	Comments:	Analysis was insignificant for all pollutants except NO2. Surrounding sources were explicitly modeled in lieu of adding monitored background.	
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes ☐	No ☒

16-S: Meteorological Data

1	Was NMED provided meteorological data used? If so select the station used. Carlsbad Year 2020 was used in the analysis.	Yes ☒	No ☐
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		

16-T: Terrain

1	Was complex terrain used in the modeling? If not, describe why below.	Yes ☒	No ☐
2	What was the source of the terrain data?		
1/3 arc second NED files downloaded through the 3rd party GUI AERMOD-View			

16-U: Modeling Files

1	Describe the modeling files: Files are named using the convention within the 3rd party GUI AERMOD View. Runs were named by pollutant *.ADI – AERMOD input files, *.ADO – AERMOD output files. *.SUM – AERMOD summary output files *.API, *.ast – AERMAP input files, *.ROU & *.SOU – AERMAP output files *.bpi – BPIP input files, *.sup – BPIP processing file, *.pro – BPIP output file Files were named by pollutant. Significance analysis is in the SIA folder, cumulative analysis is in the CIA folder. Plot Files naming convention: [Avg Period]H[Rank]G[Source Group Number].PLT, Group number ALL for all, 001 for NAAQS, 002 for PSD and 003 for Intrepid sources.		
	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
	Modeling\SIA\CO\	CO	Significance Analysis
	Modeling\SIA\CO\CO.AD\		Significance Plot Files
	Modeling\SIA\NO2\	NO2	Significance Analysis
	Modeling\SIA\NO2\NO2.AD\		Significance Plot Files

Modeling\SIA\PM25\	PM2.5	Significance Analysis
Modeling\SIA\PM25\PM25.AD\		Significance Plot Files
Modeling\SIA\SO2\	SO2	Significance Analysis
Modeling\SIA\SO2\SO2.AD\		Significance Plot Files
Modeling\cIA\NO2\	NO2	Cumulative Analysis
Modeling\cIA\NO2\NO2.AD\		Cumulative Analysis Plot files
Modeling\cIA\NO2\NO2.AD\Contribution.dat		Identifies the source group contribution to impacts.
Modeling\cIA\NO2\NO2.AD\M*.dat		EPA Max contribution files

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 ☐	No ☐
2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes ☐	No ☐
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes ☐	No ☐

16-W: Modeling Results

1	If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.							Yes ☐	No ☒	
2										
Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.										
Pollutant, Time Period and Standard	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (m)
CO 1-hr SIL	174.21409	N/A	N/A	N/A	174.21409	2000	8.7	599222.60	3595481.76	1012.47
CO 8-hr SIL	38.42250	N/A	N/A	N/A	38.42250	500	7.7	599222.60	3595481.76	1012.47
PM _{2.5} 24-hr SIL	0.07769	N/A	N/A	N/A	0.07769	1.2	6.4	599174.59	3595402.09	1009.53
PM _{2.5} Annual SIL	0.00642	N/A	N/A	N/A	0.00642	0.13	4.9	599210.14	3595517.81	1013.80
SO ₂ 1-hr SIL	0.29548	N/A	N/A	N/A	0.29548	7.8	3.8	599222.60	3595481.76	1012.47
SO ₂ 3-hr SIL	0.09856	N/A	N/A	N/A	0.09855	25	0.4	599222.60	3595481.76	1012.47
SO ₂ 24-hr SIL	0.02285	N/A	N/A	N/A	0.02285	5	0.5	599174.59	3595402.09	1009.53
SO ₂ Annual SIL	0.00189	N/A	N/A	N/A	0.00189	1	0.2	599210.14	3595517.81	1013.80
NO ₂ 1-hr NAAQS	145.40688	146.76986	N/A	N/A	146.76986	188.03	78.1	599192.00	3595321.00	1007.14
NO ₂ Annual NMAAQS	3.99578	8.45992	N/A	N/A	8.45992	94.02	9.0	599222.60	3595481.76	1012.47
NO ₂ Annual PSD	3.99578	8.42507	N/A	N/A	8.42507	25	33.7	599222.60	3595481.76	1012.47

16-X: Summary/conclusions

1	A statement that modeling requirements have been satisfied and that the permit can be issued. The facility request is to replace the existing emergency generator engine (W-G-2) with a generator engine to operate during voluntary power outages and is limited to 3000 hours per year. The source was considered the new generator engine and the significance analysis was conducted with this source only. The maximum hourly emissions were used for all averaging periods. The new engine was found to have insignificant impacts for all pollutants except for NO₂. No further analysis was conducted for CO, SO₂ or PM_{2.5}. Receptors identified as having significant impacts were used in the cumulative analysis. The surrounding sources were explicitly modeled to determine the cumulative NO₂ impacts. The maximum impacts were found to be below the 1-hr NAAQS, the annual NMAAQs and the annual PSD increment. The modeling requirements have been satisfied and the requested change will not cause or contribute to an exceedance of any ambient air quality standard and the permit can be issued
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ATTACHMENT A

**INTREPID WEST PLANT
NSR Permit 0421-M5-R1**



SUSANA MARTINEZ
GOVERNOR

JOHN A. SANCHEZ
LIEUTENANT GOVERNOR

New Mexico
ENVIRONMENT DEPARTMENT

Air Quality Bureau

1525 Camino de los Marquez Suite 1

Santa Fe, NM 87505-1816

Phone (505) 476-4300

Fax (505) 476-4375

www.nmenv.state.nm.us



RYAN FLYNN
CABINET SECRETARY-Designate

BUTCH TONGATE
DEPUTY SECRETARY

CERTIFIED MAIL NO. 7004 0750 0001 3212 9177
RETURN RECEIPT REQUESTED

Permittee:

Intrepid Potash - New Mexico, LLC
PO Box 101
Carlsbad, NM 88220

Technical Permit Revision No. 0421M5R1
IDEA ID No. 29939 - PRN20130006
Intrepid Potash – West Flotation Plant
AIRS No. 350150563

Richard L. Goodyear, PE
Bureau Chief
Air Quality Bureau

DEC 23 2013
Date of Issuance

This permit is not effective until the Department receives the permit fee of \$1,415.00 as specified on the attached invoice. Please note that this permit fee is due regardless of the intended use or non-use of the permit or cancellation of the permit by the applicant or Department.

The Air Quality Bureau of the New Mexico Environment Department (Department) issues Technical Permit Revision No. 0421M5R1 to Intrepid Potash New Mexico LLC pursuant to the Air Quality Control Act (Act) and regulations adopted pursuant to the Act including Title 20, Chapter 2, Part 72 of the New Mexico Administrative Code (NMAC), (20.2.72 NMAC), Construction Permits, Section 219.B, Technical Permit Revisions. The Department will enforce this permit pursuant to the Act and the air quality control regulations applicable to this source.

Pursuant to 20.2.75.11 NMAC, the Department will assess an annual fee for this facility. This regulation set the fee amount at \$1,500 through 2004 and requires it to be adjusted annually for the Consumer Price Index on January 1. The current fee amount is available by contacting the Department or can be found on the Department's website. The AQB will invoice the permittee

for the annual fee amount at the beginning of each calendar year. This fee does not apply to sources which are assessed an annual fee in accordance with 20.2.71 NMAC. For sources that satisfy the definition of "small business" in subsection F of 20.2.75.7 NMAC, this annual fee will be divided by two.

All fees shall be remitted in the form of a corporate check, certified check, or money order made payable to the NM Environment Department, AQB and shall be accompanied by the enclosed remittance slip. Fees shall be submitted to: NM Environment Department, AQB at the address shown on the invoice.

This technical permit revision applies to Air Quality Permit No. 0421M5 issued June 28, 2013, which authorized the modification and operation of the Intrepid Potash – West Flotation Plant. The function of the facility is to produce Muriate of Potash using a flotation process applied to raw potash ore. The Potash is shipped to Intrepid's North Plant for further processing. This facility is located at 32°29'22.5" N and 103°56'19.4" W, approximately 28 miles east, northeast of Carlsbad, New Mexico in Eddy County.

All terms and conditions from Air Quality Permit No. 0421M5 are still in effect unless specifically superseded by this technical permit revision.

The Department has reviewed the technical permit revision application for the proposed changes to Air Quality Permit No. 0421M5 and has determined that the proposed changes meet the requirements of 20.2.72.219.B.1.g NMAC.

**SPECIFIC CONDITIONS A112.A and A114.A OF AIR QUALITY PERMIT NO. 0421M5
MODIFIED BY THIS TECHNICAL PERMIT REVISION**

Condition A112: Facility: Raw Ore Feed Rate Limit and Product Loadout Limit

- A. Facility Raw Ore Feed Rate Limit and Product Loadout Limit – before and after installation of new cyclone and wet scrubber for Unit W-EP-01

Requirement: To demonstrate compliance with the process rates represented in the permit application and used as assumptions to demonstrate compliance with Ambient Air Quality Standards, the following raw ore feed rate and loadout limits shall be met:

- Raw Ore Feed Rate:
 - 1) Until the new cyclone and wet scrubber are installed, the raw ore feed rate to the Raw Ore Bin (Unit W-F5) shall not exceed 400 tons per hour (tph), based on a monthly average, and 3,504,000 tons per 12-months.
 - 2) After the new cyclone and wet scrubber are installed, the raw ore feed rate to the Raw Ore Bin (Unit W-F5) shall not exceed 500 tons per hour (tph), based on a monthly average, and 4,380,000 tons per 12-months.
- Truck Loadout Rate: The amount of product loaded from the Truck Loadout (Unit W-F2) shall not exceed 150 tph, based on a monthly average, and 1,000,000 tons per 12-

months.
Monitoring: At all times of operation, the permittee shall monitor the ton per hour and ton per year raw ore feed rate and loadout rate as follows. Weight scales shall be capable of measuring the totalized throughput in tons per hour and of transmitting the data to a data capture system. • Raw Ore Feed Rate – monitor the ton per hour and ton per year raw ore feed rate using Belt Scale “Weigh Belt #752-CV-42” located immediately after the Fine Ore Bin • Product Loadout – monitor the ton per hour loadout rate by tracking the difference between the weight of the empty truck and the full truck
Recordkeeping: The following records shall be kept. • Hourly data capture system records of the ton per hour rates measured by the weigh belt • Records of the ton per hour truck loadout rates, including the date and time, the truck number, the weight of the empty truck, the weight of the full truck, and the difference in weight between the empty and full truck • Monthly records of the monthly average ton per hour raw ore feed rate and loadout rate • Records of the calculations used to determine the ton per hour and the ton per 12-month processing and loadout rates • Record the date when the new cyclone and wet scrubber are installed and operational for the rotary dryer Unit W-EP-01
Reporting: The permittee shall report according to Section B110.

Condition A114: Reducing Facility Emissions

- A. The compliance date for installation of the new cyclone and wet scrubber on the Rotary Dryer (Unit W-EP-01) shall be no later than June 30, 2014.

General Requirements

20 NMAC 2.72, Section 211, Permit Cancellations, requires that:

1. the Department shall automatically cancel any permit for any source which ceases operation for five (5) years or more, or permanently. Reactivation of any source after the five (5) year period shall require a new permit.
2. the Department may cancel a permit if the construction or modification is not commenced within two (2) years from the date of issuance or if, during the construction or modification, work is suspended for a total of one (1) year.

20.2.73 NMAC contains requirements related to Notice of Intent and Emission Inventory. Please refer to that regulation for details.

Applications for permit revisions and modifications shall be submitted to:

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

Compliance test protocols, regularly scheduled reports, a copy of test results, and excess emission reports, shall be submitted electronically to Stacktest.AQB@state.nm.us or to:

Manager, Compliance and Enforcement Section
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez Suite 1
Santa Fe, NM 87505-1816

Contents of test notifications, protocols and test reports shall conform to the format specified by the Department's *Universal Test Notification, Protocol and Report Form and Instructions*. Current forms and instructions are posted to NMED's Air Quality web site under Compliance and Enforcement Testing.

REVOCATION

The Department may revoke this technical permit revision if the applicant or permittee has knowingly and willfully misrepresented a material fact in the application for the permit. The Department will make revocations in writing. The Secretary of the Department will accept administrative appeals within thirty (30) days from the effective date of this permit in accordance with the Department's Rules Governing Appeals From Compliance Orders.

APPEAL PROCEDURES

20.2.72.207 NMAC, provides that any person who participated in a permitting action before the Department and who is adversely affected by such permitting action, may file a petition for hearing before the Environmental Improvement Board. The petition shall be made in writing to the Environmental Improvement Board within thirty (30) days from the date notice is given of the Department's action and shall specify the portions of the permitting action to which the petitioner objects, certify that a copy of the petition has been mailed or hand-delivered and attach a copy of the permitting action for which review is sought. Unless a timely request for hearing is made, the decision of the Department shall be final. The petition shall be copied simultaneously to the Department upon receipt of the appeal notice. If the petitioner is not the applicant or permittee, the petitioner shall mail or hand-deliver a copy of the petition to the applicant or permittee. The Department shall certify the administrative record to the board. Petitions for a hearing shall be sent to:

Environmental Improvement Board
1190 St. Francis Drive, Runnels Bldg. Rm. N2153
P.O. Box 5469
Santa Fe, New Mexico 87502

If you have questions about this permit please call Melinda Owens of the Permitting Section in Santa Fe at 505-476-4341.



State of New Mexico Environment Department

Air Quality Bureau

525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Telephone: (505) 476-4300 Fax: (505) 476-4375

INVOICE

Primary Billing Party:

Intrepid Potash New Mexico LLC
PO Box 101
Carlsbad, NM 88220

Agency Interest:

29939 - Intrepid - North Compaction Plant West
Flotation Plant & HB Plant
210 Red Cloud Road
Carlsbad, NM 88220

INVOICE ID: 115392

INVOICE DATE: 12/17/2013

INVOICE DUE DATE: 12/28/2013

ASSESSMENTS

Air Quality, PRN20130006, Air - General Review Fee \$1,415.00

Air Quality, PRN20130006, Air - NSR Filing Fee \$500.00

INVOICED AMOUNT

\$1,915.00

CREDITS

Payment (12/17/2013) \$500.00

Total Credits: \$500.00

BALANCE DUE

\$1,415.00

Cut Here and Include Lower Portion with Payment

Primary Billing Party:

Intrepid Potash New Mexico LLC
PO Box 101
Carlsbad, NM 88220

Agency Interest:

29939 - Intrepid - North Compaction Plant West
Flotation Plant & HB Plant
210 Red Cloud Road
Carlsbad, NM 88220

INVOICE ID: 115392

INVOICE DUE DATE: 12/28/2013

Invoice Amount: \$1,415.00

Amount Enclosed _____

Please make checks payable to:

Mail payments to:

NMED Federal Tax ID#: 85-6000565

New Mexico Environment Department, AQB

Air Quality Bureau

525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Telephone: (505) 476-4300 Fax: (505) 476-4375