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September 14, 2023

NEW MEXICO ENVIRONMENT DEPARTMENT
AIR QUALITY BUREAU
PERMITS SECTION
525 CAMINO DE LOS MARQUEZ, SUITE 1
SANTA FE, NEW MEXICO, 87505

RE: MINOR SOURCE, 20.2.72 NMAC REVISION
ARTESIA DISTRICT BULK FACILITY; PERMIT NO. 0058-M3

To Whom it May Concern:

ENERCON is pleased to submit the enclosed Minor Source 20.2.72 NMAC Revision, at the Artesia District Bulk Facility, with existing Permit No. 0058-M3.

If you have any questions, please contact Joseline Laureano at jlaureano@enercon.com, or by phone at (469) 833-3508.

Regards,

Joseline Laureano
Air Quality Specialist
15770 North Dallas Parkway, Suite 400
Dallas, TX 75248

Enclosures: Minor Source 20.2.72 NMAC Revision
Cc: Amanda Marcks, amarcks@enercon.com, (469) 405-9784

Mail Application To:		For Department use only:
New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505 Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb		RECEIVED SEP 15 2023 Air Quality Bureau

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.: 8350 in the amount of $500

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

☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.

☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full $500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

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

Section 1 – Facility Information

Section 1-A: Company Information

		AI # if known: 3403	Updating Permit/NOI #:0058-M3
1	Facility Name: Artesia District Bulk Facility	Plant primary SIC Code (4 digits): 1389	
		Plant NAIC code (6 digits): 213112	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): 507 East Richey Avenue, Artesia, NM 88210		
2	Plant Operator Company Name: Schlumberger Technology Corp.	Phone/Fax: 432-296-1813	
a	Plant Operator Address: 507 East Richey Avenue, Artesia, NM 88210		

b	Plant Operator's New Mexico Corporate ID or Tax ID: 22-1692661	
3	Plant Owner(s) name(s): Schlumberger Technology Corporation	Phone/Fax: 432-742-5400/281-285-0233
a	Plant Owner(s) Mailing Address(s): 7220 W I-20 Frontage, Midland TX 79706	
4	Bill To (Company): Schlumberger Technology Corporation	Phone/Fax: 432-742-5400/281-285-0233
a	Mailing Address: 7220 W I-20 Frontage, Midland TX 79706	E-mail: BHerbert6@cameron.slb.com
5	☐ Preparer: ☒ Consultant: Enercon Services	Phone/Fax: 469-833-3508/972-484-8835
a	Mailing Address: 15770 Dallas Pkwy Ste 400, Dallas, TX 75248	E-mail: jlaureano@enercon.com
6	Plant Operator Contact: Cody Colvin	Phone/Fax: 575-602-4327
a	Address: 507 East Rickey Avenue, Artesia, NM 88210	E-mail: CColvin@slb.com
7	Air Permit Contact: Beau Hebert	Title: USL South Environmental Manager
a	E-mail: BHebert6@cameron.slb.com	Phone/Fax: 985-300-3108
b	Mailing Address: 6350 W Sam Houston Pkwy N, Suite 200, Houston, TX 77041	
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: P-
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: 0058-M3
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ☒ No	If yes, the register No. is:

Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 100 Tons	Daily: 550 Tons	Annually: 200,000 Tons
b	Proposed	Hourly: 100 Tons	Daily: 550 Tons	Annually: 200,000 Tons
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: 80 Tons	Daily: 1,920 Tons	Annually: 200,000 Tons
b	Proposed	Hourly: 80 Tons	Daily: 1,920 Tons	Annually: 215,360 Tons

Section 1-D: Facility Location Information

1	Latitude (decimal degrees): 32.858056	Longitude (decimal degrees): -104.393333	County: Eddy	Elevation (ft): 3380
2	UTM Zone: ☐ 12 or ☒ 13	Datum: ☐ NAD 83 ☒ WGS 84		
a	UTM E (in meters, to nearest 10 meters): 556770	UTM N (in meters, to nearest 10 meters): 3635520		
3	Name and zip code of nearest New Mexico town: Artesia 88210			
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): Head north on N 1st St for 1 mile then turn right onto E Richey Ave.			
5	The facility is 1.5 (distance) miles NE (direction) of Artesia (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: Artesia, NM; Eddy County; Chaves County			
8	**20.2.72** NMAC applications **only**: Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.env.nm.gov/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): 98.5 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: 80 meters			
12	Method(s) used to delineate the Restricted Area: Fencing around facility perimeter "**Restricted Area**" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.			
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? ☐ Yes ☒ No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.			
14	Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes If yes, what is the name and permit number (if known) of the other facility?			

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

1	Facility **maximum** operating ($\frac{hours}{day}$): 24	($\frac{days}{week}$): 7	($\frac{weeks}{year}$): 52	($\frac{hours}{year}$): 8760		
2	Facility's maximum daily operating schedule (if less than 24 $\frac{hours}{day}$)? Start:		☐AM ☐PM	End:	☒AM ☒PM	
3	Month and year of anticipated start of construction: 2023					
4	Month and year of anticipated construction completion: January 2024					
5	Month and year of anticipated startup of new or modified facility: January 2024					
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:	NOV Tracking No:

b	Is this application in response to any issue listed in 1-F, 1 or 1a above? ☐ Yes ☒ No If Yes, provide the 1c & 1d info below:		
c	Document Title:	Date:	Requirement # (or page # and paragraph #):
d	Provide the required text to be inserted in this permit:		
2	Is air quality dispersion modeling or modeling waiver being submitted with this application? ☒ 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: _____ Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

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

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

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

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

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC):		Phone:
a	R.O. Title:	R.O. e-mail:	
b	R. O. Address:		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC):		Phone:
a	A. R.O. Title:	A. R.O. e-mail:	
b	A. R. O. Address:		
3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship):		
4	Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.):		
a	Address of Parent Company:		
5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.):		
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations:		
7	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:		

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 Joseline Laureano, Email JLaureano@Enercon.com, Phone number 469-833-3508.

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

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

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

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

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

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

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

2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible

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

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

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

Table of Contents

Table 2-A: Regulated Emission Sources

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

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
Silo 1	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft^3	2007 2019	DC 1 DC 1	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 2	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft3	2007 2019	DC 2 DC 2	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 3	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft^3	2007 2019	DC 3 DC 3	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 4	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft^3	2007 2019	DC 4 DC 4	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 5	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft^3	2007 2019	DC 5 DC 5	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 6	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	1170 ft^3	1170 ft^3	2007 2019	DC 6 DC 6	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 7	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	1170 ft^3	1170 ft^3	2007 2019	DC 7 DC 7	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 8	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	1170 ft^3	1170 ft^3	2007 2019	DC 8 DC 8	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 9	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	1170 ft^3	1170 ft^3	2007 2019	DC 9 DC 9	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 10	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	3000 ft^3	3000 ft^3	2019 2019	DC 10 DC 10	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 11	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	3000 ft^3	3000 ft^3	2019 2019	DC 11 DC 11	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 12	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	3000 ft^3	3000 ft^3	2019 2019	DC 12 DC 12	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 13	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	3000 ft^3	3000 ft^3	2019 2019	DC 13 DC 13	3 05 011 07	■ Existing (unchanged) □ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A
Silo 14	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	1350 ft^3	1350 ft^3	2021 2021	DC 18 DC 18	3 05 011 07	□ Existing (unchanged) ■ To be Removed □ New/Additional □ Replacement Unit □ To Be Modified □ To be Replaced	N/A	N/A

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

[2] Specify dates required to determine regulatory applicability.

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

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

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
Silo 15	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	1350 ft^3	1350 ft^3	2021 2021	DC 19 DC 19	3 05 011 07	☐ Existing (unchanged) ■ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
Silo 16	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	1350 ft^3	1350 ft^3	2021 2021	DC 20 DC 20	3 05 011 07	☐ Existing (unchanged) ■ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
TK 1	Reclaim Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft^3	2007 2019	DC14/DC15 DC14/DC15	3 05 011 08	■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
TK 2	Weigh Batch Tank	Schlumberger	Custom Fab.	N/A	650 ft^3	650 ft^3	2007 2019	DC 16 DC 16	3 05 011 08	■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
TK 3	Double Stack Tank	Schlumberger	Custom Fab.	N/A	2 x 650 ft^3	2 x 650 ft^3	2007 2019	DC14/DC15 DC14/DC15	3 05 011 08	■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
TK 4	Double Stack Tank	Schlumberger	Custom Fab.	N/A	2 x 650 ft^3	2 x 650 ft^3	2019 2019	DC14/DC15 DC14/DC15	3 05 011 08	■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
TK 5	Weigh Batch Tank	Schlumberger	Custom Fab.	N/A	650 ft^3	650 ft^3	2019 2019	DC 17 DC 17	3 05 011 08	■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
PIG 1	Storage Pig	Schlumberger	Custom Fab.	N/A	4500 ft^3	4500 ft^3	2021 2021	DC 17 DC 17	3 05 011 08	■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
LD 1-4	Truck Load/Unload	Schlumberger	Custom Fab.	N/A	25 tons/hr per station	25 tons/hr per station	2007 2019	DC14/DC15 DC14/DC15		■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
ROAD	In-Plant Truck Roadway	N/A	N/A	N/A	22 Truck Trips per day	22 Truck Trips per day	2007 2019	N/A N/A		■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
PIG 2	Storage Pig	Schlumberger	Custom Fab.	N/A	4000 ft^3	4000 ft^3	2023 2023	DC 16 DC 16	3 05 011 08	☐ Existing (unchanged) ☐ To be Removed ■ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
Silo 3A	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft^3	2024 2024	DC 21 DC 21	3 05 011 07	☐ Existing (unchanged) ☐ To be Removed ■ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
Silo 4A	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft^3	2024 2024	DC 22 DC 22	3 05 011 07	☐ Existing (unchanged) ☐ To be Removed ■ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
Silo 5A	Cement Product Storage Tank	Schlumberger	Custom Fab.	N/A	2500 ft^3	2500 ft^3	2024 2024	DC 23 DC 23	3 05 011 07	☐ Existing (unchanged) ☐ To be Removed ■ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A

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

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

Unit Number	Source Description	Manufacturer	Model No.	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 Onc
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction[2]	
Road	In-Plant Truck Roadway	N/A	N/A	22	20.2.2.72.202.B.5	2007	■ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Trucks/day		2019	
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Table 2-C: Emissions Control Equipment

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

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s)[1]	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
DC 1	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 1	99.93%	Vendor/AP-42
DC 2	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 2	99.93%	Vendor/AP-42
DC 3	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 3	99.93%	Vendor/AP-42
DC 4	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 4	99.93%	Vendor/AP-42
DC 5	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 5	99.93%	Vendor/AP-42
DC 6	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 6	99.93%	Vendor/AP-42
DC 7	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 7	99.93%	Vendor/AP-42
DC 8	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 8	99.93%	Vendor/AP-42
DC 9	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 9	99.93%	Vendor/AP-42
DC 10	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 10	99.93%	Vendor/AP-42
DC 11	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 11	99.93%	Vendor/AP-42
DC 12	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 12	99.93%	Vendor/AP-42
DC 13	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	Silo 13	99.93%	Vendor/AP-42
DC 14/15	Silo Dust Collector, 2 units, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	TK 1, TK 3, TK 4, LD 1-4	99.93%	Vendor/AP-42
DC 16	Silo Dust Collector, C&W, Model LPR-8-S	2019	PM, PM10, PM2.5	TK 2, PIG 2	99.93%	Vendor/AP-42
DC 17	Cyclone Filter Dust Collector, M-Plex Model CF-600	2019	PM, PM10, PM2.5	TK 5, PIG 1	99.93%	Vendor/AP-42
DC 21	Silo Dust Collector, C&W, Model LPR-8-S	2024	PM, PM10, PM2.5	Silo 3A	99.93%	Vendor/AP-42
DC 22	Silo Dust Collector, C&W, Model LPR-8-S	2024	PM, PM10, PM2.5	Silo 4A	99.93%	Vendor/AP-42
DC 23	Silo Dust Collector, C&W, Model LPR-8-S	2024	PM, PM10, PM2.5	Silo 5A	99.93%	Vendor/AP-42

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

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

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

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

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
DC 1	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 2	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 3	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 4	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 5	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 6	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 7	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 8	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 9	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 10	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 11	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 12	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 13	-	-	-	-	-	-	-	-	29.20	14.60	18.80	9.40	18.80	9.40	-	-	-	-
DC 14/15	-	-	-	-	-	-	-	-	73.00	73.00	47.00	47.00	47.00	47.00	-	-	-	-
DC 16	-	-	-	-	-	-	-	-	29.20	78.61	18.80	50.61	18.80	50.61	-	-	-	-
DC 17	-	-	-	-	-	-	-	-	29.20	73.00	18.80	47.00	18.80	47.00	-	-	-	-
DC 21	-	-	-	-	-	-	-	-	29.20	19.62	18.80	12.63	18.80	12.63	-	-	-	-
DC 22	-	-	-	-	-	-	-	-	29.20	7.71	18.80	4.96	18.80	4.96	-	-	-	-
DC 23	-	-	-	-	-	-	-	-	29.20	19.62	18.80	12.63	18.80	12.63	-	-	-	-
ROAD	-	-	-	-	-	-	-	-	0.97	3.43	0.25	0.87	0.02	0.09	-	-	-	-
Totals									599.57	464.79	385.65	297.91	385.42	297.13				

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

Table 2-E: Requested Allowable Emissions

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

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
DC 1	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 2	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 3	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 4	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 5	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 6	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 7	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 8	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 9	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 10	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 11	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 12	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 13	-	-	-	-	-	-	-	-	0.040	0.020	0.014	0.007	0.014	0.007	-	-	-	-
DC 14/15	-	-	-	-	-	-	-	-	0.099	0.099	0.034	0.034	0.034	0.034	-	-	-	-
DC 16	-	-	-	-	-	-	-	-	0.040	0.107	0.014	0.037	0.014	0.037	-	-	-	-
DC 17	-	-	-	-	-	-	-	-	0.040	0.099	0.014	0.034	0.014	0.034	-	-	-	-
DC 21	-	-	-	-	-	-	-	-	0.040	0.027	0.014	0.009	0.014	0.009	-	-	-	-
DC 22	-	-	-	-	-	-	-	-	0.040	0.010	0.014	0.004	0.014	0.004	-	-	-	-
DC 23	-	-	-	-	-	-	-	-	0.040	0.027	0.014	0.009	0.014	0.009	-	-	-	-
Totals									0.81	0.63	0.28	0.21	0.28	0.21				

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

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

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

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

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

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

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

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

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

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

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

Table 2-H: Stack Exit Conditions

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

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H-Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
DC 1	Silo 1	V	N	46	75	40		0.04	40	Perimeter x 1"
DC 2	Silo 2	V	N	46	75	40		0.04	40	Perimeter x 1"
DC 3	Silo 3	V	N	46	75	40		0.04	40	Perimeter x 1"
DC 4	Silo 4	V	N	46	75	40		0.04	40	Perimeter x 1"
DC 5	Silo 5	V	N	46	75	40		0.04	40	Perimeter x 1"
DC 6	Silo 6	V	N	46	75	40.00		0.04	40.00	Perimeter x 1"
DC 7	Silo 7	V	N	45.5	75	40		0.04	40	Perimeter x 1"
DC 8	Silo 8	V	N	45.5	75	40		0.04	40	Perimeter x 1"
DC 9	Silo 9	V	N	52	75	40		0.04	40	Perimeter x 1"
DC 10	Silo 10	V	N	52	75	40		0.04	40	Perimeter x 1"
DC 11	Silo 11	V	N	52	75	40		0.04	40	Perimeter x 1"
DC 12	Silo 12	V	N	52	75	40		0.04	40	Perimeter x 1"
DC 13	Silo 13	V	N	52	75	40		0.04	40	Perimeter x 1"
DC 14/15	TK 1, TK 3, TK 4, LD 1-4	V	N	30	75	40		0.04	40	Perimeter x 1"
DC 16	TK 2, PIG 2	V	N	30	75	40		0.04	40	Perimeter x 1"
DC 17	TK 5, PIG 1	V	N	30	75	42		0.04	30	0.8 x 1.5
DC 21	Silo 3A	V	N	52	75	42		0.04	30	0.8 x 1.5
DC 22	Silo 4A	V	N	52	75	40		0.04	40	Perimeter x 1"
DC 23	Silo 5A	V	N	52	75	40		0.04	40	Perimeter x 1"

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
No HAP Sources																			
Totals:																			

Table 2-J: Fuel

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

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, ...)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units				
			Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
No Combustion Units							

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

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

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
No Liquid Tanks									

Table 2-L: Tank Data

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

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M^3)			Roof	Shell			
No Liquid Tanks													

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

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

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

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

Material Processed				Material Produced			
Description	**Chemical Composition**	**Phase (Gas, Liquid, or Solid)**	**Quantity (specify units)**	**Description**	**Chemical Composition**	**Phase**	**Quantity (specify units)**
Cement and Additives	Inorganic Salts, Portland Cement, Limestone	Solid Powder	200,000 tons/yr	Cement and Additive Products	Inorganic Salts, Portland Cement, Limestone	Solid Powder	200,000 tons/yr

Table 2-N: CEM Equipment

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

Stack No.	Pollutant(s)	Manufacturer	Model No.	Serial No.	Sample Frequency	Averaging Time	Range	Sensitivity	Accuracy
No CEM Equipment									

Table 2-O: Parametric Emissions Measurement Equipment

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

Unit No.	Parameter/Pollutant Measured	Location of Measurement	Unit of Measure	Acceptable Range	Frequency of Maintenance	Nature of Maintenance	Method of Recording	Averaging Time
DC1 - DC15,	Differential Pressure	Silo Interior Space	in H2O	0.5-6	Monthly	Inspections	Manual Reading	Once per day
DC16, DC17	Differential Pressure	Across Filter Element	in H2O	0.5-6	Monthly	Inspections	Manual Reading	Once per day

Table 2-P: Greenhouse Gas Emissions

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

		CO_2 ton/yr	N_2O ton/yr	CH_4 ton/yr	SF_6 ton/yr	PFC/HFC ton/yr[2]								Total GHG Mass Basis ton/yr[4]	Total CO_2e ton/yr[5]
Unit No.	**GWPs [1]**	1	298	25	22,800	footnote 3									
	mass GHG														
	CO_2e														
	mass GHG														
	CO_2e														
	mass GHG														
	CO_2e														
	mass GHG														
	CO_2e														
	mass GHG														
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	CO_2e														
	mass GHG														
	CO_2e														
	mass GHG														
	CO_2e														
	mass GHG														
	CO2e														
Total	mass GHG														
	CO_2e														

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

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

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

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

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

Table 6-1
Emission Calculations - PM, PM10, PM2.5: Bulk Cement Plant - Controlled

NSR Permit No 0058-M3, Permit Revision Application
Schlumberger Technology Corp. - Artesia District

Storage Silo Controls:	Silos and Reclaim Tank Dust Collectors (DC1 - DC13, DC21 - DC23) C&W 2340 cfm (typical), 8-cartridge filters, Pulse-Jet cleaning
Control Efficiency:	99.93% is used based on AP-42 emission factors, vendor specifications (without reference to particle size) is 99.99% control
Weigh Batch Tank Controls:	Cyclone-Filter Dust Collectors (DC5A, DC17) Metroplex 2000-3000 cfm (typical), fabric filters, pulse-jet cleaining
Control Efficiency:	99.93% is used based on AP-42 emission factors, vendor specifications (without reference to particle size) is 99.99% control
Max. Hourly Transfer:	25 tons per hour per truck unload/load and 40 tons per hour silo transfer (pneumatic loading capacity)
Annual Production:	Assume PTE scenario for maximum hourly emissions and requested maximum annual throughput of 53,760 tons/yr for annual emissions

Unit No	Emission Point	Process Description, Emissions Basis	PTE Process Rate[1]		Control Efficiency[2]	AP-42 Emission Factor[3]	TSP PTE Emissions		AP-42 Emission Factor[3]	PM10 PTE Emissions		AP-42 Emission Factor[3]	PM2.5 PTE Emissions	
			ton/hr	ton/yr	%	lb/ton	lb/hr	ton/yr	lb/ton	lb/hr	ton/yr	lb/ton	lb/hr	ton/yr
Silo 1	DC 1	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 2	DC 2	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 3	DC 3	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 4	DC 4	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 5	DC 5	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 6	DC 6	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 7	DC 7	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 8	DC 8	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 9	DC 9	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 10	DC 10	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 11	DC 11	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 12	DC 12	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 13	DC 13	Solids transfer to Silo, PTE schedule and throughput	40	40,000	99.93	0.00099	0.040	0.020	0.00034	0.014	0.007	0.00034	0.014	0.007
Silo 3A	DC 21	Solids transfer to Silo, PTE schedule and throughput	40	53,760	99.93	0.00099	0.040	0.027	0.00034	0.014	0.009	0.00034	0.014	0.009
Silo 4A	DC 22	Solids transfer to Silo, PTE schedule and throughput	40	21,120	99.93	0.00099	0.040	0.010	0.00034	0.014	0.004	0.00034	0.014	0.004
Silo 5A	DC 23	Solids transfer to Silo, PTE schedule and throughput	40	53,760	99.93	0.00099	0.040	0.027	0.00034	0.014	0.009	0.00034	0.014	0.009
TK 1, TK 3, TK 4, LD1-4	DC 14/15	Pneumatic Tranfer of cement materials to truck tanks - Up to 4 trucks simultaneously, vented back to Reclaim Tank for control	100	200,000	99.93	0.00099	0.099	0.099	0.00034	0.034	0.034	0.00034	0.034	0.034
TK 2, PIG 2	DC 16	Solids Transfer to Weigh Batch Tank, PTE schedule and throughput	40	215,360	99.93	0.00099	0.040	0.107	0.00034	0.014	0.037	0.00034	0.014	0.037
TK 5, PIG 1	DC 17	Solids Transfer to Weigh Batch Tank, PTE schedule and throughput	40	200,000	99.93	0.00099	0.040	0.099	0.00034	0.014	0.034	0.00034	0.014	0.034
		Total Emissions					**0.81**	**0.63**		**0.28**	**0.21**		**0.28**	**0.21**

[1]-The total facility maximum process rate is up to 960 tons per day (24 hours x 40 tons/hr) and 200,000 tons per year. These throughputs are distributed across 4 truck unload/load points, each capable of one truck load capacity of 25 tons per hour. The 200,000 tons/yr is conservatively distributed as 40,000 tons/yr maximum throughput for each of the 16 silos and it is conservatively assumed that each of the weigh batch lines (TK2/PIG2, TK5/PIG1) could handle up to the full annual throughput of 215,360 tons/yr.
[2]-The control efficiency conservatively assumed for estimates is lower than that specified by the dust collector vendors, but matches the control efficiency used in AP-42 Table 11.12-2
[3]-Controlled emissions factors from AP-42 11.12 (06/2006) Table 11.12-1. The PM2.5 conservatively assumed to be equal to the PM10 factor since a PM2.5 factor was not developed.

Table 6-2
Emission Calculations - PM, PM10, PM2.5: Bulk Cement Plant - Uncontrolled

NSR Permit No 0058-M3, Permit Revision Application
Schlumberger Technology Corp. - Artesia District

Max. Hourly Transfer: 25 tons per hour per truck unload/load and 40 tons per hour silo transfer (pneumatic loading capacity)
Annual Production: Assume PTE scenario for maximum hourly emissions and requested maximum annual throughput of 53,760 tons/yr for annual emissions

Unit No	Emission Point	Process Description, Emissions Basis	PTE Process Rate[1]		Control Efficiency[2]	AP-42 Emission Factor[3]	TSP PTE Emissions		AP-42 Emission Factor[3]	PM10 PTE Emissions		AP-42 Emission Factor[3]	PM2.5 PTE Emissions	
			ton/hr	ton/yr	%	lb/ton	lb/hr	ton/yr	lb/ton	lb/hr	ton/yr	lb/ton	lb/hr	ton/yr
Silo 1	DC 1	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 2	DC 2	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 3	DC 3	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 4	DC 4	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 5	DC 5	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 6	DC 6	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 7	DC 7	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 8	DC 8	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 9	DC 9	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 10	DC 10	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 11	DC 11	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 12	DC 12	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 13	DC 13	Solids transfer to Silo, PTE schedule and throughput	40	40,000	0	0.73	29.2	14.6	0.47	18.8	9.4	0.47	18.8	9.4
Silo 3A	DC 21	Solids transfer to Silo, PTE schedule and throughput	40	53,760	0	0.73	29.2	19.6	0.47	18.8	12.6	0.47	18.8	12.6
Silo 4A	DC 22	Solids transfer to Silo, PTE schedule and throughput	40	21,120	0	0.73	29.2	7.7	0.47	18.8	5.0	0.47	18.8	5.0
Silo 5A	DC 23	Solids transfer to Silo, PTE schedule and throughput	40	53,760	0	0.73	29.2	19.6	0.47	18.8	12.6	0.47	18.8	12.6
TK 1, TK 3, TK 4, LD1-4	DC 14/15	Pneumatic Tranfer of cement materials to truck tanks - Up to 4 trucks simultaneously, vented back to Reclaim Tank for control	100	200,000	0	0.73	73.0	73.0	0.47	47.0	47.0	0.47	47.0	47.0
TK 2, PIG 2	DC 16	Solids Transfer to Weigh Batch Tank, PTE schedule and throughput	40	215,360	0	0.73	29.2	78.6	0.47	18.8	50.6	0.47	18.8	50.6
TK 5, PIG 1	DC 17	Solids Transfer to Weigh Batch Tank, PTE schedule and throughput	40	200,000	0	0.73	29.2	73.0	0.47	18.8	47.0	0.47	18.8	47.0
		Total Emissions					**598.60**	**461.36**		**385.40**	**297.04**		**385.40**	**297.04**

[1]-The total facility maximum process rate is up to 960 tons per day (24 hours x 40 tons/hr) and 200,000 tons per year. These throughputs are distributed across 4 truck unload/load points, each capable of one truck load capacity of 25 tons per hour. The 200,000 tons/yr is conservatively distributed as 40,000 tons/yr maximum throughput for each of the 16 silos and it is conservatively assumed that each of the weigh batch lines (TK2/PIG2, TK5/PIG1) could handle up to the full annual throughput of 215,360 tons/yr.
[2]-The control efficiency is 0% for this uncontrolled case.
[3]-Unontrolled emissions factors from AP-42 11.12 (06/2006) Table 11.12-1. The PM2.5 conservatively assumed to be equal to the PM10 factor since a PM2.5 factor was not developed.

Table 6-3
Emission Calculations - PM, PM10, PM2.5: Fugitive Dust from Truck Traffic Inside Facility

NSR Permit No 0058-M2, Permit Revision Application
Schlumberger Technology Corp. - Artesia District

Controls:	Base Gravel or Watering
Control Efficiency:	60% per NMED guidance (Jan 2017)
Silt Content:	4.8% per NMED guidance
Precipitation Days/Year:	70 per NMED guidance
Max. Hourly Transfer:	22 Trucks per day, 0.151 miles/truck trip
Annual Production:	Assume maximum daily throughput corresponding to 22 trucks per day. Truck gross weight 40 tons, net load weight 25 tons per truck

Emission Source Description	Emission Point	Process Description, Emissions Basis	PTE Process Rate		Control Efficiency	AP-42 Emission Factor[1]		TSP PTE Emissions		AP-42 Emission Factor[1]		PM10 PTE Emissions		AP-42 Emission Factor[1]		PM2.5 PTE Emissions	
			trips/d	VMT/trip	%	Hourly (lb/VMT)	Annual (lb/VMT)	lb/hr	ton/yr	Hourly (lb/VMT)	Annual (lb/VMT)	lb/hr	ton/yr	Hourly (lb/VMT)	Annual (lb/VMT)	lb/hr	ton/yr
Truck Traffic	Fugitive	Gravel Roads	22	0.151	60	6.99	5.65	0.387	1.371	1.78	1.44	0.099	0.349	0.18	0.14	0.010	0.035

[1] - The emission factor calculated using Equations 1a and 2 in AP-42 Section 13.2.2 for Unpaved Roads, uncontrolled. Emissions calculated at 60% efficiency.

$$E = k\,(s/12)^a (W/3)^b \quad (1a)$$

where k, a, b, c and d are empirical constants (Reference 6) given below and
E = size-specific emission factor (lb/VMT)
s = surface material silt content (%)
W = mean vehicle weight (tons)

$$E_{ext} = E\,[(365 - P)/365] \quad (2)$$

Eext = annual size-specific emission factor extrapolated for natural mitigation, lb/VMT
E = emission factor from Equation 1a or 1b
P = number of days in a year with at least 0.254 mm (0.01 in) of precipitation (see below)

Table 13.2.2-2. CONSTANTS FOR EQUATIONS 1a AND 1b

Constant	Industrial Roads (Equation 1a)			Public Roads (Equation 1b)		
	PM-2.5	PM-10	PM-30*	PM-2.5	PM-10	PM-30*
k (lb/VMT)	0.15	1.5	4.9	0.18	1.8	6.0
a	0.9	0.9	0.7	1	1	1
b	0.45	0.45	0.45	-	-	-
c	-	-	-	0.2	0.2	0.3
d	-	-	-	0.5	0.5	0.3
Quality Rating	B	B	B	B	B	B

*Assumed equivalent to total suspended particulate matter (TSP)
"-" = not used in the emission factor equation

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.

Schlumberger Technology Corporation (Schlumberger) intends to modify the existing Bulk Cement Plant located at 507 East Richey Avenue, Artesia, New Mexico. The existing facility, currently permitted as the Artesia District Bulk Facility, is operating under NSR Air Permit No. 0058-M3 issued by NMED in October 2021. Operations at the facility include the blending, storage, and loading of cement mixtures to serve oil and gas field operations. The 2021 permit covers storage silos, blending tanks, pneumatic loading to transport trucks, and fugitive dust emissions from vehicle traffic.

Schlumberger is submitting this document and the accompanying materials to permit a significant revision pursuant to 20.2.72.219.D NMAC. Schlumberger seeks in this application to add three additional silos (SILO 3A, 4A, 5A), with associated dust collectors, and a pig tank (PIG 2) for storing cement product. Schlumberger seeks in this application to remove three silos (SILO 14, 15, 16), with associated dust collectors. The proposed modification will not de-bottleneck the system given that the limiting factor will remain the pneumatic transport between storage/blending tanks and the loading of blended product into transport trucks for customer delivery. However, the PER and permitted emissions will increase due to the conservative assumption regarding individual silo process rates compared to the overall facility production rate insofar as the sum of the individual silo throughputs exceed the permitted operational throughput for the facility as a whole.

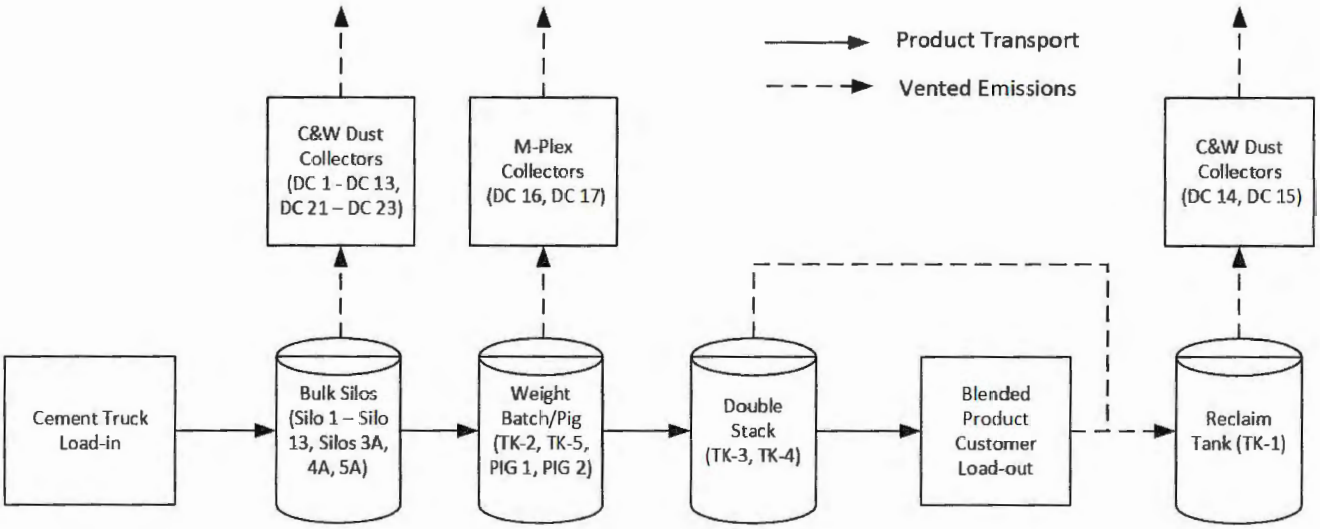
Process startup and shutdown operations are not expected to result in emissions above those permitted during normal operation.
Therefore, the SSM Plan for the facility is focused on operations during SSM including procedures and corrective actions.

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.

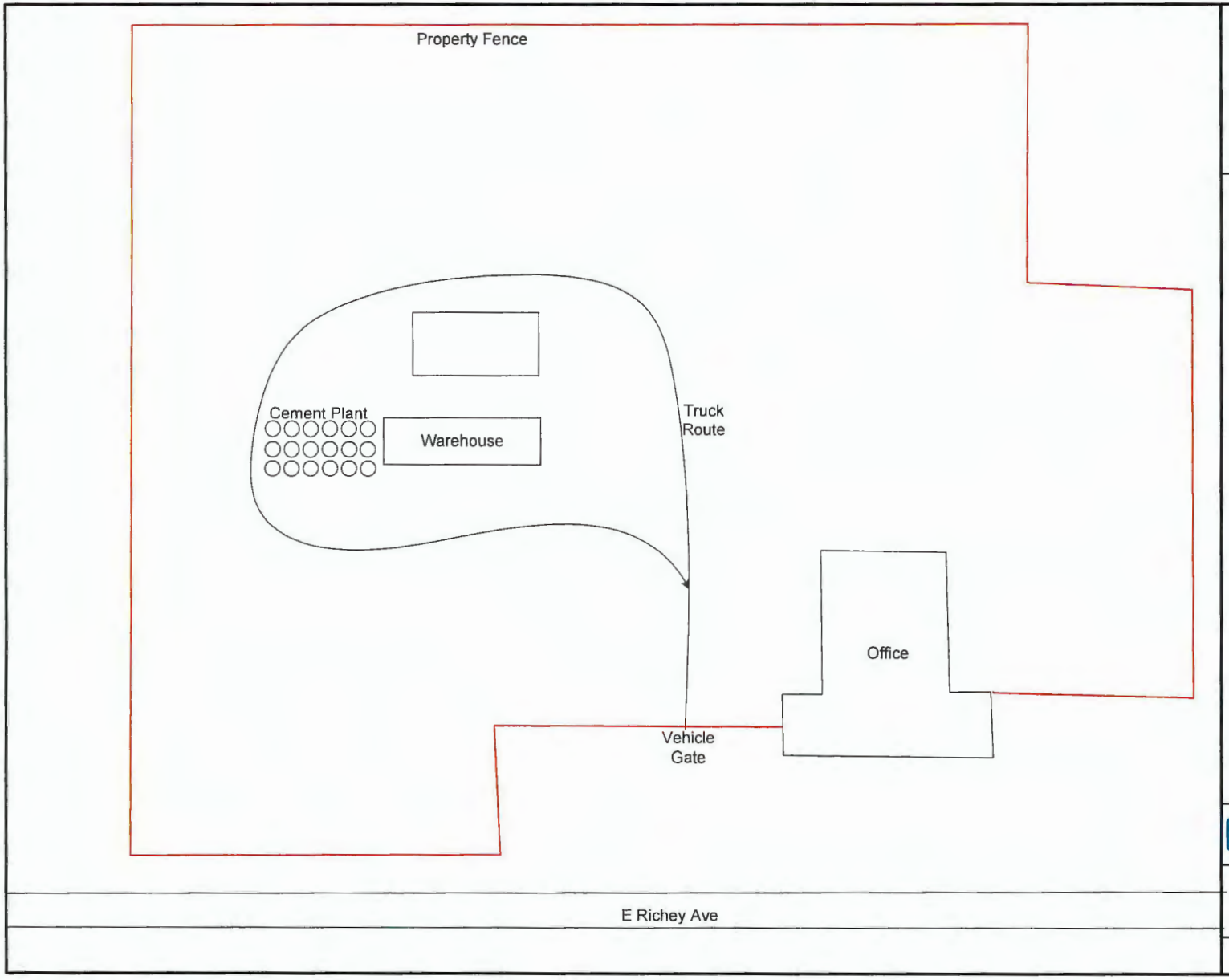
The included figure illustrates the process flow for the cement plant. Bulk cement is delivered by truck and pneumatically transported to the individual storage silos. All suspended particulate displaced by the pneumatic transport air during silo filling is vented through an individual C&W dust collectors atop each silo to filter and control particulate emissions. Batches of cement product can be blended in the 'Weigh Batch' tanks and pig tank, then conveyed to truck loading via the 'Double Stack' tanks. Suspended particulate from the blending in the Weigh Batch tanks and pig tank are vented through individual M-PLEX dust collectors. The double stack tanks and truck loading operations vent to a reclamation tank which is controlled by two C&W dust collectors.



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.



Schlumberger Technology Corp.
Artesia District Bulk Facility

507 E Richey Ave

Artesia, NM 88210

N

100 ft

ENERCON

Figure 5-1

Plot Plan

Project No: SCLUMBJ00966 Date: 7/10/2023

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.

Point Source Emissions

The post-modification configuration of the dust collector emission points at Artesia District Bulk Cement Plant was used to estimate the maximum hourly and annual emissions on an uncontrolled and controlled basis. As noted in the following tables, the emission rates reflect the maximum hourly or annual material processing rates, and utilize emissions factors from EPA Document AP-42, Chapter 11.12 for cement loading into elevated storage silos, controlled by a fabric filter. For control device efficiency, vendor information was referenced, but the assumed efficiency is lower based on controlled /uncontrolled emission factor ratios in AP-42 Chapter 11.12 to provide a conservative estimate.

The controlled particulate emissions estimate calculations for the stationary dust collector vents at the modified Artesia District facility are provided in the following Table 6-1. Corresponding uncontrolled emission estimates, with no credit for control devices, are calculated in Table 6-2. Note that estimates for individual silos are based on maximum potential transfer rates of 53,760 tons per year. However, based on the truck load/unload station capacity the facility throughput is not more than 215,360 tons per year. The individual silo transfer rates conservatively allow for multiple blending transfers between silos or the Weigh Batch tanks that can be more in total than the facility throughput.

The total facility maximum process rate is up to 960 tons per day (24 hours x 40 tons/hr) and 200,000 tons per year. These throughputs are distributed across 4 truck unload/load points, each capable of one truck load capacity of 25 tons per hour. The 200,000 tons/yr is conservatively distributed as 40,000 tons/yr maximum throughput for each of the 16 silos and it is conservatively assumed that each of the weigh batch lines (TK2/PIG2, TK5/PIG1) could handle up to the full annual throughput of 215,360 tons/yr. The control efficiency conservatively assumed for estimates is lower than that specified by the dust collector vendors but matches the control efficiency used in AP-42 Table 11.12-2. Controlled emissions factors from AP-42 11.12 (06/2006) Table 11.12-1. The PM2.5 conservatively assumed to be equal to the PM10 factor since a PM2.5 factor was not developed.

TABLE 11.12-1 (METRIC UNITS)
EMISSION FACTORS FOR CONCRETE BATCHING [a]

Source (SCC)	Uncontrolled				Controlled			
	Total PM	Emission Factor Rating	Total PM_{10}	Emission Factor Rating	Total PM	Emission Factor Rating	Total PM_{10}	Emission Factor Rating
Aggregate transfer [b] (3-05-011-04,-21,23)	0.0035	D	0.0017	D	ND		ND	
Sand transfer [b] (3-05-011-05,22,24)	0.0011	D	0.00051	D	ND		ND	
Cement unloading to elevated storage silo (pneumatic)[c] (3-05-011-07)	0.36	E	0.24	E	0.00050	D	0.00017	D
Cement supplement unloading to elevated storage silo (pneumatic)[d] (3-05-011-17)	1.57	E	0.65	E	0.0045	D	0.0024	E
Weigh hopper loading [e] (3-05-011-08)	0.0026	D	0.0013	D	ND		ND	
Mixer loading (central mix)[f] (3-05-011-09)	0.286 or Eqn. 11.12-1	B	0.078 or Eqn. 11.12-1	B	0.0092 or Eqn. 11.12-1	B	0.0028 or Eqn. 11.12-1	B
Truck loading (truck mix)[g] (3-05-011-10)	0.559	B	0.155	B	0.049 or Eqn. 11.12-1	B	0.0131 or Eqn. 11.12-1	B
Vehicle traffic (paved roads)	See AP-42 Section 13.2.1, Paved Roads							
Vehicle traffic (unpaved roads)	See AP-42 Section 13.2.2, Unpaved Roads							
Wind erosion from aggregate and sand storage piles	See AP-42 Section 13.2.5, Industrial Wind Erosion							

TABLE 11.12-2 (ENGLISH UNITS)
EMISSION FACTORS FOR CONCRETE BATCHING [a]

Source (SCC)	Uncontrolled				Controlled			
	Total PM	Emission Factor Rating	Total PM_{10}	Emission Factor Rating	Total PM	Emission Factor Rating	Total PM_{10}	Emission Factor Rating
Aggregate transfer [b] (3-05-011-04,-21,23)	0.0069	D	0.0033	D	ND		ND	
Sand transfer [b] (3-05-011-05,22,24)	0.0021	D	0.00099	D	ND		ND	
Cement unloading to elevated storage silo (pneumatic)[c] (3-05-011-07)	0.73	E	0.47	E	0.00099	D	0.00034	D
Cement supplement unloading to elevated storage silo (pneumatic)[d] (3-05-011-17)	3.14	E	1.10	E	0.0089	D	0.0049	E
Weigh hopper loading [e] (3-05-011-08)	0.0048	D	0.0028	D	ND		ND	
Mixer loading (central mix)[f] (3-05-011-09)	0.572 or Eqn. 11.12-1	B	0.156 or Eqn. 11.12-1	B	0.0184 or Eqn. 11.12-1	B	0.0055 or Eqn. 11.12-1	B
Truck loading (truck mix)[g] (3-05-011-10)	1.118	B	0.310	B	0.098 or Eqn. 11.12-1	B	0.0263 or Eqn. 11.12-1	B
Vehicle traffic (paved roads)	See AP-42 Section 13.2.1, Paved Roads							
Vehicle traffic (unpaved roads)	See AP-42 Section 13.2.2, Unpaved Roads							
Wind erosion from aggregate and sand storage piles	See AP-42 Section 13.2.5, Industrial Wind Erosion							

Unpaved "Haul Road" Emissions

The Artesia District facility is almost entirely unpaved. Truck traffic operates at a limited speed (less than 10 mph) for safety, and to reduce the generation of fugitive dust. Estimates of particulate species emissions on an hourly basis from the in-plant truck traffic areas were derived using the U.S. EPA Document AP-42 section for Unpaved Roads, Section 13.2.2, Equation la and Table 13.2.2-2 Constants for Equations la and lb. As described below, correlation parameters and dust control measure effectiveness were obtained from NMED Guidance (Jan 2017) pertaining to this type of facility and locale.

E=k(s/12)a(W/3) l

Where:
k, a, and b are empirical constants depending on what size particulate is being estimated,
E = size-specific emission factor (lb/VMT), s = surface material silt content (%)
W= mean vehicle weight (tons),

Table 13.2.2-2 Constants for Equations 1a and 1b, as seen below, were used to decide which empirical constants were appropriate to estimate PM, PM10, and PM2.5 emissions.

Table 13.2.2-2. CONSTANTS FOR EQUATIONS 1a AND 1b

Constant	Industrial Roads (Equation 1a)			Public Roads (Equation 1b)		
	PM-2.5	PM-10	PM-30*	PM-2.5	PM-10	PM-30*
k (lb/VMT)	0.15	1.5	4.9	0.18	1.8	6.0
a	0.9	0.9	0.7	1	1	1
b	0.45	0.45	0.45	-	-	-
c	-	-	-	0.2	0.2	0.3
d	-	-	-	0.5	0.5	0.3
Quality Rating	B	B	B	B	B	B

*Assumed equivalent to total suspended particulate matter (TSP)
"-" = not used in the emission factor equation

A mean gross (loaded) weight is 40 tons for each truck passing through based on the typical specification for over-the-road cement belly trucks. A constant silt content of 4.8% and annual precipitation of 70 days per year are per NMED Guidance for aggregate piles and haul road calculations (Jan. 2017). The control method for dust is base coarse (gravel) and or watering, which corresponds to 60% control efficiency per NMED Guidance for truck traffic on unpaved plant areas.

To estimate particulate species emissions on an annual basis from the in-plant truck traffic areas at the Artesia District, the emission rate is adjusted to account for the representative level of precipitation for New Mexico, and U.S. EPA Document AP- 42 section for Unpaved Roads, Section 13.2.2, Equation 2:

$$Eext=E[(365-P)/365]$$

Where:
E = size-specific emission factor from Equation la(lb/VMT),
$Eext$ = annual size-specific emission factor extrapolated for natural mitigation (lb/VMT)
P = number of days in a year with at least 0.254mm (0.01in) of precipitation, Defined as 70 days per year in NMED Guidance (Jan 2017)

It is important to note for the analysis of slow speed industrial roads that Equation 1a and Equation 2 do not account for the effects of average or maximum vehicle speed, and therefore tend to overestimate actual emissions. Based on

statistical evaluation, these correlations blend together a data set with speeds ranging from 1 to 55 mph. The emission factor development discussion in the Background Document for Section 13.2.2 acknowledges that vehicle speed has a dominant effect on actual dust emissions. This is particularly true for the lower speed data points in the set used for the AP-42 correlation.

To estimate the maximum on-site vehicle miles traveled (VMT), refer to the site layout diagram (Section 5). From the scale map, the roundtrip distance per visit (truck arrival, load/unload, and exit) is 0.151 miles. The physical layout of the facility and number of load and off-load connections constrains the number of trucks that can be processed and that can safely traverse the route within the plant at a given time. In addition, the amount of time to physically load/unload, or prepare a blended product load from bulk and sack material added manually, extends the time on-site for each truck. On average, the on-site time is more than one hour per truck. Given these logistical and safety considerations, the assumed maximum unload/load activity level of 22 trucks per day (24 hour basis). From these data, the total daily VMT is:

Daily VMT = 22 trips/day x 0.151 VMT/trip = 3.32 VMT/day

Artesia District operations may occur up to a full-time schedule of 24 hours per day, 7 days per week. Using the daily VMT, and the emission factors calculated above for particulate species from paved roads, the daily and annual particulate emission estimates are shown in Section 2-E of form UA2.

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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

Calculating GHG Emissions:

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

Sources for Calculating GHG Emissions:

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

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

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

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

Section 7

Information Used to Determine Emissions

Information Used to Determine Emissions shall include the following:

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

The following information was used to determine emissions reported in the UA-2 Tables and calculated in Section 6:

- AP-42 Section 11.12 6/06
- AP-42 Section 13.2.2 6/06 and NMED Haul Road Guidance 1/17
- C&W Silo Dust Collector Specifications
- M-PLEX Filtration System Specifications

TABLE 11.12-2 (ENGLISH UNITS)
EMISSION FACTORS FOR CONCRETE BATCHING [a]

Source (SCC)	Uncontrolled				Controlled			
	Total PM	Emission Factor Rating	Total PM_{10}	Emission Factor Rating	Total PM	Emission Factor Rating	Total PM_{10}	Emission Factor Rating
Aggregate transfer [b] (3-05-011-04,-21,23)	0.0069	D	0.0033	D	ND		ND	
Sand transfer [b] (3-05-011-05,22,24)	0.0021	D	0.00099	D	ND		ND	
Cement unloading to elevated storage silo (pneumatic)[c] (3-05-011-07)	0.73	E	0.47	E	0.00099	D	0.00034	D
Cement supplement unloading to elevated storage silo (pneumatic)[d] (3-05-011-17)	3.14	E	1.10	E	0.0089	D	0.0049	E
Weigh hopper loading [e] (3-05-011-08)	0.0048	D	0.0028	D	ND		ND	
Mixer loading (central mix)[f] (3-05-011-09)	0.572 or Eqn. 11.12-1	B	0.156 or Eqn. 11.12-1	B	0.0184 or Eqn. 11.12-1	B	0.0055 or Eqn. 11.12-1	B
Truck loading (truck mix)[g] (3-05-011-10)	1.118	B	0.310	B	0.098 or Eqn. 11.12-1	B	0.0263 or Eqn. 11.12-1	B
Vehicle traffic (paved roads)	See AP-42 Section 13.2.1, Paved Roads							
Vehicle traffic (unpaved roads)	See AP-42 Section 13.2.2, Unpaved Roads							
Wind erosion from aggregate and sand storage piles	See AP-42 Section 13.2.5, Industrial Wind Erosion							

ND = No data

[a] All emission factors are in kg of pollutant per Mg of material loaded unless noted otherwise. Loaded material includes course aggregate, sand, cement, cement supplement and the surface moisture associated with these materials. The average material composition of concrete batches presented in references 9 and 10 was 846 kg course aggregate, 648 kg sand, 223 kg cement and 33kg cement supplement. Approximately 75 liters of water was added to this solid material to produce 1826 kg of concrete.

[b] Reference 9 and 10. Emission factors are based upon an equation from AP-42, section 13.2.4 Aggregate Handling And Storage Piles, equation 1 with k_{PM-10} =.35, k_{PM} = .74, U = 10mph, $M_{aggregate}$ =1.77%, and M_{sand} = 4.17%. These moisture contents of the materials ($M_{aggregate}$ and M_{sand}) are the averages of the values obtained from Reference 9 and Reference 10.

[c] The uncontrolled PM & PM-10 emission factors were developed from Reference 9. The controlled emission factor for PM was developed from References 9, 10, 11, and 12. The controlled emission factor for PM-10 was developed from References 9 and 10.

[d] The controlled PM emission factor was developed from Reference 10 and Reference 12, whereas the controlled PM-10 emission factor was developed from only Reference 10.

[e] Emission factors were developed by using the AP-42 Section 13.2.4, Aggregate and Sand Transfer Emission Factors in conjunction with the ratio of aggregate and sand used in an average yard^3 of concrete. The unit for these emission factors is kg of pollutant per Mg of aggregate and sand.

[f] References 9, 10, and 14. The emission factor units are kg of pollutant per Mg of cement and cement supplement. The general factor is the arithmetic mean of all test data.

[g] Reference 9, 10, and 14. The emission factor units are kg of pollutant per Mg of cement and cement supplement. The general factor is the arithmetic mean of all test data.

13.2.1.3 Predictive Emission Factor Equations[10,29]

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

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

where: E = particulate emission factor (having units matching the units of k),

k = particle size multiplier for particle size range and units of interest (see below),

sL = road surface silt loading (grams per square meter) (g/m^2), and

W = average weight (tons) of the vehicles traveling the road.

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

The particle size multiplier (k) above varies with aerodynamic size range as shown in Table 13.2.1-1. To determine particulate emissions for a specific particle size range, use the appropriate value of k shown in Table 13.2.1-1.

To obtain the total emissions factor, the emission factors for the exhaust, brake wear and tire wear obtained from either EPA's MOBILE6.2[27] or MOVES2010[29] model should be added to the emissions factor calculated from the empirical equation.

Table 13.2.1-1. PARTICLE SIZE MULTIPLIERS FOR PAVED ROAD EQUATION

Size range[a]	Particle Size Multiplier k[b]		
	g/VKT	g/VMT	lb/VMT
PM-2.5[c]	0.15	0.25	0.00054
PM-10	0.62	1.00	0.0022
PM-15	0.77	1.23	0.0027
PM-30[d]	3.23	5.24	0.011

[a] Refers to airborne particulate matter (PM-x) with an aerodynamic diameter equal to or less than x micrometers

[b] Units shown are grams per vehicle kilometer traveled (g/VKT), grams per vehicle mile traveled (g/VMT), and pounds per vehicle mile traveled (lb/VMT). The multiplier k includes unit conversions to produce emission factors in the units shown for the indicated size range from the mixed units required in Equation 1.

[c] The k-factors for $PM_{2.5}$ were based on the average $PM_{2.5}$:PM_{10} ratio of test runs in Reference 30.

[d] PM-30 is sometimes termed "suspendable particulate" (SP) and is often used as a surrogate for TSP.

Equation 1 is based on a regression analysis of 83 tests for PM-10.[3, 5-6, 8, 27-29, 31-36] Sources tested include public paved roads, as well as controlled and uncontrolled industrial paved roads. The majority of tests involved freely flowing vehicles traveling at constant speed on relatively level roads. However, 22 tests of slow moving or "stop-and-go" traffic or vehicles under load were available for inclusion in the data base.[32-36] Engine exhaust, tire wear and break wear were subtracted from the emissions measured in the test programs prior to stepwise regression to determine Equation 1.[37, 39] The equations retain the quality rating of A (D for PM-2.5), if applied within the range of source conditions that were tested in developing the equation as follows:

Silt loading:	0.03 - 400 g/m^2 0.04 - 570 grains/square foot (ft^2)
Mean vehicle weight:	1.8 - 38 megagrams (Mg) 2.0 - 42 tons
Mean vehicle speed:	1 - 88 kilometers per hour (kph) 1 - 55 miles per hour (mph)

The upper and lower 95% confidence levels of equation 1 for PM_{10} is best described with equations using an exponents of 1.14 and 0.677 for silt loading and an exponents of 1.19 and 0.85 for weight. Users are cautioned that application of equation 1 outside of the range of variables and operating conditions specified above, e.g., application to roadways or road networks with speeds above 55 mph and average vehicle weights of 42 tons, will result in emission estimates with a higher level of uncertainty. In these situations, users are encouraged to consider an assessment of the impacts of the influence of extrapolation to the overall emissions and alternative methods that are equally or more plausible in light of local emissions data and/or ambient concentration or compositional data.

To retain the quality rating for the emission factor equation when it is applied to a specific paved road, it is necessary that reliable correction parameter values for the specific road in question be determined. With the exception of limited access roadways, which are difficult to sample, the collection and use of site-specific silt loading (sL) data for public paved road emission inventories are strongly recommended. The field and laboratory procedures for determining surface material silt content and surface dust loading are summarized in Appendices C.1 and C.2. In the event that site-specific values cannot be obtained, an appropriate value for a paved public road may be selected from the values in Table 13.2.1-2, but the quality rating of the equation should be reduced by 2 levels.

Equation 1 may be extrapolated to average uncontrolled conditions (but including natural mitigation) under the simplifying assumption that annual (or other long-term) average emissions are inversely proportional to the frequency of measurable (> 0.254 mm [0.01 inch]) precipitation by application of a precipitation correction term. The precipitation correction term can be applied on a daily or an hourly basis [26, 38].

For the daily basis, Equation 1 becomes:

$$E_{ext} = [\ k\ (sL)^{0.91} \times (W)^{1.02}\ ]\ (1 - P/4N) \qquad (2)$$

where k, sL, W, and S are as defined in Equation 1 and

E_{ext} = annual or other long-term average emission factor in the same units as k,

P = number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period, and

Table 13.2.1-3 (Metric And English Units). TYPICAL SILT CONTENT AND LOADING VALUES FOR PAVED ROADS AT INDUSTRIAL FACILITIES [a]

Industry	No. of Sites	No. Of Samples	Silt Content (%)		No. of Travel Lanes	Total Loading x 10^{-3}			Silt Loading (g/m^2)	
			Range	Mean		Range	Mean	Units[b]	Range	Mean
Copper smelting	1	3	15.4-21.7	19.0	2	12.9 - 19.5 45.8 - 69.2	15.9 55.4	kg/km lb/mi	188-400	292
Iron and steel production	9	48	1.1-35.7	12.5	2	0.006 - 4.77 0.020 -16.9	0.495 1.75	kg/km lb/mi	0.09-79	9.7
Asphalt batching	1	3	2.6 - 4.6	3.3	1	12.1 - 18.0 43.0 - 64.0	14.9 52.8	kg/km lb/mi	76-193	120
Concrete batching	1	3	5.2 - 6.0	5.5	2	1.4 - 1.8 5.0 - 6.4	1.7 5.9	kg/km lb/mi	11-12	12
Sand and gravel processing	1	3	6.4 - 7.9	7.1	1	2.8 - 5.5 9.9 - 19.4	3.8 13.3	kg/km lb/mi	53-95	70
Municipal solid waste landfill	2	7		-	2	-			1.1-32.0	7.4
Quarry	1	6		-	2	-			2.4-14	8.2
Corn wet mills	3	15		-	2	-			0.05 – 2.9	1.1

[a] References 1-2,5-6,11-13. Values represent samples collected from *industrial* roads. Public road silt loading values are presented in Table-13.2.1-2. Dashes indicate information not available.[b] Multiply entries by 1000 to obtain stated units; kilograms per kilometer (kg/km) and pounds per mile (lb/mi).

The quantity of particulate emissions generated by either type of drop operation, per kilogram (kg) (ton) of material transferred, may be estimated, with a rating of A, using the following empirical expression:[11]

$$E = k(0.0016) \frac{\left(\frac{U}{2.2}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (kg/megagram [Mg])} \quad (1)$$

$$E = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (pound [lb]/ton)}$$

where:

E = emission factor
k = particle size multiplier (dimensionless)
U = mean wind speed, meters per second (m/s) (miles per hour [mph])
M = material moisture content (%)

The particle size multiplier in the equation, k, varies with aerodynamic particle size range, as follows:

Aerodynamic Particle Size Multiplier (k) For Equation 1				
< 30 μm	< 15 μm	< 10 μm	< 5 μm	< 2.5 μm
0.74	0.48	0.35	0.20	0.053[a]

[a] Multiplier for < 2.5 μm taken from Reference 14.

The equation retains the assigned quality rating if applied within the ranges of source conditions that were tested in developing the equation, as follows. Note that silt content is included, even though silt content does not appear as a correction parameter in the equation. While it is reasonable to expect that silt content and emission factors are interrelated, no significant correlation between the 2 was found during the derivation of the equation, probably because most tests with high silt contents were conducted under lower winds, and vice versa. It is recommended that estimates from the equation be reduced 1 quality rating level if the silt content used in a particular application falls outside the range given:

Ranges Of Source Conditions For Equation 1			
Silt Content (%)	Moisture Content (%)	Wind Speed	
		m/s	mph
0.44 - 19	0.25 - 4.8	0.6 - 6.7	1.3 - 15

To retain the quality rating of the equation when it is applied to a specific facility, reliable correction parameters must be determined for specific sources of interest. The field and laboratory procedures for aggregate sampling are given in Reference 3. In the event that site-specific values for

C&W Manufacturing and Sales

Low Profile Round
Silo Dust Collectors

General Information

C&W's Low Profile Round (LPR) Silo Dust Collectors offer you Pulse-Jet technology and our cartridge filters to provide an efficient yet inexpensive solution for dust control. These collectors are compact and user-friendly with a low-profile and POP in-out filter media exchange, with no tools or need to remove blow pipes. They can also expand to higher capacities without having to replace the units.

Options

- Automatic On/Off Flow Switch
- Minihelic Gauge
- Special Adaptable Mounting Flange
- Air Tank Auto-Drain
- Silo Anti-Overfill System
- Pressure Relief Valves and Bin Indicators

Most Popular add-on:

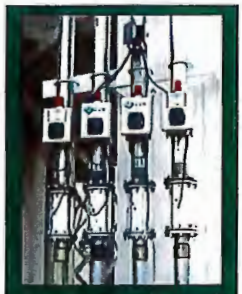
Flow switch: Detects the flow of air through the silo and turns the cleaning cycle on while silo is being filled. When the flow of material into the silo stops, unit automatically turns the cleaning cycle off.

Easy Cartridge Replacement: Pop-in/Pop-Out

Specs

Specifications	LPR-4-S	LPR-6-S	LPR-8-S
Total Filtration Area (sq. ft)	184	276	368
Number of Cartridges	4	6	8
Cartridge Size	8" x 39"	8" x 39"	8" x 39"
Air to Cloth Ratio	6.35	6.37	6.35
Overall Height *	72"	72"	72"
Flange Diameter	44" o.d.	44" o.d.	44" o.d.
Approx. Weight (lbs.)	670	695	720
Compressed Air Required	3	3	3
CFM Recommended**	1,170	1,760	2,340
Min. Design Efficiency***	99.99%	99.99%	99.99%
Cleaning Mechanism	Pulse Jet	Pulse Jet	Pulse Jet

*Includes Mounting Flange change CFM recommended ** CFM shown for typical application. Unique application may ***Using Standard Test Conditions



Protect your silos and silo collectors with an **Anti-Overfill System**

C&W Manufacturing and Sales Co.
1-800-880-DUST
www.cwmfg.com

C&W Manufacturing and Sales
1 (800) 880-3878

C&W Manufacturing and Sales, Co.
P.O. Box 908
Crowley, TX 76036

6933 Shelmor Rd
Alvarado, TX 76009

Phone: 817.783.5000 • **Fax:** 817.783.2353
Email: info@cwmfg.com • **Website:** www.cwmfg.com

Item # LPR-8-S, Round Silo Dust Collector

C&W's Low Profile Round (LPR) Silo Dust Collectors offer you Pulse-Jet technology and our cartridge filters to provide an efficient yet inexpensive solution for dust control. These collectors are compact and user-friendly with a low-profile and POP in-out filter media exchange, with no tools or need to remove blow pipes. They can also expand to higher capacities without having to replace the units.

Specifications

CFM Recommended (CFM shown for typical application.)	2340
Total Filtration Area	368 ft²
No. of Cartridges	8
Cartridge Length	39 in
Cartridge Width	8 in
Minimun Design Efficiency (Using Standard Test Conditions)	99.99 %
Overall Height (Includes Mounting Flange)	72 in
Flange Outer Diameter	44 in
Approximate Weight	720 lb
Compressed Air Required	3
Cleaning Mechanism	Pulse Jet
Options	• Automatic On/Off Flow Switch • Minihelic Gauge • Special Adaptable Mounting Flange • Air Tank Auto-Drain • Silo Anti-Overfill System • Pressure Relief Valvesand Bin Indicators

AIR FILTERING PRODUCTS

m-plex

DUST CONTROL & PRODUCT RECLAIM

- MATERIAL PROCESSING
- MOBILE EQUIPMENT
- MANUFACTURING PROCESSES

Metroplex Products, Inc.

2901 ST. LOUIS AVE.
FORT WORTH, TEXAS 76110

I. INTRODUCTION

M-PLEX Self-Cleaning Cyclone-Filter Systems provide reliable and constant filtered venting of pneumatic transfer and blending dry bulk material processing operations.

The cyclone-filter is to be mounted onto a scavenge material reclaim tank in either a flange or ring-mount configuration. Flange-mounting is utilized whenever tank discharge is by positive pressure means. Valving between the cyclone-filter flange and the tank is required to isolate the cyclone-filter from the tank during the pressure/discharge cycle. Ring-mounting may be utilized whenever the tank discharge is by vacuum, gravity, or mechanical means. Under these conditions, isolation of the cyclone-filter from the tank for material discharge may not be required.

Each material processing vent line should be manifolded into a plant central vent line. The plant central vent line, in turn, is vented directly into the cyclone-filter inlet. When the cyclone-filter is ring-mounted, secondary or remote processes may be vented directly into the reclaim tank. In either case, the cyclone-filter provides simultaneous venting of multiple material processing operations.

II. CYCLONE-FILTER DESCRIPTION

The cyclone-filter utilizes centrifugal force, gravity, and a self-cleaning cartridge filter to remove scavenge material from the vented air stream before discharging filtered air to atmosphere.

The cyclone inlet induces cyclonic flow to the vented air stream as it enters the cyclone-filter housing. Dust "heavies" are thrown by centrifugal force along the inside wall or the housing. Losing velocity, they spiral downward by gravity through the cyclone-filter discharge and settle in the scavenge material reclaim tank below. Dust "fines" meanwhile, remain in the vented air stream. The fines are then filtered from the vented air stream by the self-cleaning cartridge filter. Thus filtered, the vented air stream is discharged to atmosphere.

For filter cleaning, at 4/6 second intervals a jet of compressed air is automatically fired from the filter cleaning system into the segmented bore cartridge filter. This jet of cleaning air, from a quick-opening exhaust valve, is in reverse direction to the vented air stream flow. Its effect is to dislodge fines from the surface of the filter. Once dislodged, fines fall freely downward by gravity to settle with the "heavies" in the reclaim tank below.

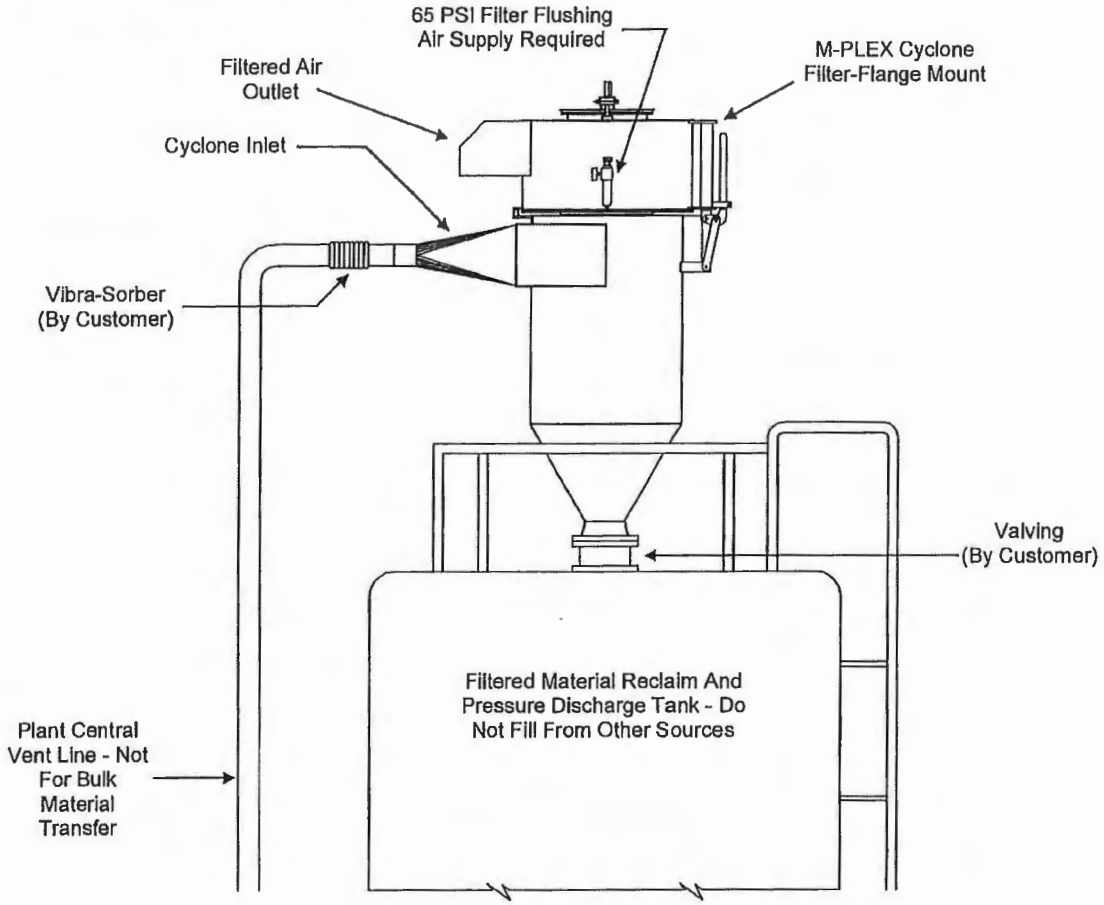
III. MATERIAL DISCHARGE - SCAVENGE MATERIAL RECLAIM TANK

Material can be discharged from the scavenge material reclaim tank by positive pressure, vacuum, gravity or mechanical means. For positive pressure discharge, the cyclone-filter must be isolated from the tank during the pressure/discharge cycle. Isolation can be achieved by installing a butterfly valve or similar device between the cyclone-filter's flange and the tank.

For vacuum, gravity, or mechanical discharge, isolation may not be necessary. If isolation is not required, ring mounting of the cyclone-filter to the tank may be desirable.

The scavenge material reclaim tank capacity must be selected relative to the plant operating time cycle versus the tank discharge time cycle. For example, if the tank discharge cycle is to be at eight hour intervals, select a tank capacity of 1.5 times the projected reclaim material volume expected over that time cycle interval. **IMPORTANT**: Do not undersize this tank - tank overfill will likely result in material back-up into the cyclone-filter, plugging the filter and venting the pressure relief to atmosphere.

m-plex	*Best of Technology*	**CYCLONE FILTER MODEL CF**



FEATURES

1. Single cartridge filter - 1,000 to 10,000 cfm.
2. High efficiency cyclonic preseparation reduces solids to air loading at filter - Extends filter life, lowers filter cleaning energy requirements.
3. Final filtration utilizes self-cleaning cartridge filter element. No visible discharge emissions.
4. Swing-away top housing provides convenient access for servicing filter.
5. Filter Guard pressure relief vents air and solids to atmosphere in case of system overfill or abnormal surging. Consult MPI for cracking pressure limits.
6. Standard finish - Prime coat.
7. Fan and motor drive, optional. Consult MPI.
8. Proper operation requires continuous material discharge from Cyclone Filter. Do not retain material in Cyclone Filter housing or cone.
9. Safe installation requires M-PLEX Filter Systems to be securely anchored. Allowances in the anchor base, mounting structure, and all support members should be made for material and wind loadings, total system operating weight, and other induced stresses and loadings. WARNING: When rigging M-PLEX Filter Systems, use clevises, not hooks - Use all lifting lugs.
10. Securely attach all components and seal against leakage.
11. This product in any form is not for filtering explosive or hazardous solids-gases.
12. Refer to MPLEX Manual MP-361 for complete M-PLEX Filter System Guidelines, Limitations, and Safety Precautions.

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MP 377 6/88

AIR QUALITY MAINTENANCE

MOBILE EQUIPMENT | **MANUFACTURING PROCESSES** | **MATERIAL PROCESSING**

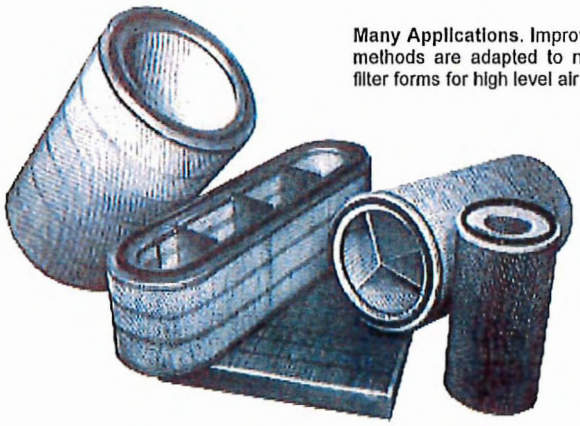
Metroplex Products, Inc. manufactures innovative self-cleaning air filtering products for a growing number of diverse industries. Our products provide for continuous removal of airborne contaminants from work processes involving dry bulk solids material, industrial facilities and mobile equipment.

Since 1977, effective mechanical separation and highly efficient pleated filter cleaning by MPI has provided exciting solutions to solids-gas separation and nuisance dust control problems. Our products have been identified consistently with the highest industry standards of performance and quality.

Advanced Technology -- Products

The company's technology base is founded in solids-gas flow and separation. Continued research expands this base for developing products to meet the needs of our customers. We are committed to providing the best of the technology for air quality maintenance.

Products are designed to provide solids-gas preseparation for reduced filter particle loading. Efficient final filtering cleans process gas flow streams to levels that meet or exceed environmental requirements.



Many Applications. Improved filter cleaning methods are adapted to numerous pleated filter forms for high level air quality control.

Our Products Manufactured Under Patents and Patents Pending - U.S. and Foreign

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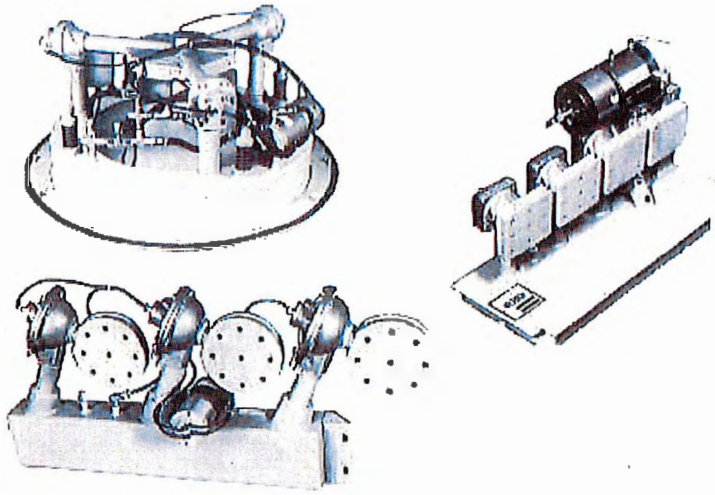
Multi-Jet reverse pulse filter cleaning increases gas filtering rates, conserves gas flow energy and broadens the potential of pleated media.

High energy cleaning allows media gas filtering velocities twice that of conventional systems. Efficient removal of filtered material reduces process gas stream flow drag and extends filter life. Large eductor-flow tube bores provide low velocity process gas flow to conserve gas flow energy.

Multi-Jet Versatility

Multi-Jet cleaning utilizes quick-release 45 to 65 psig gas through grouped multiple orifices to produce diverging and overlapping high energy jetting. Orifice patterns conform to large or diverse shapes of filter flow tubes.

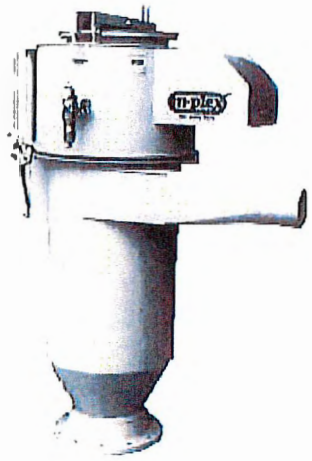
Pleated filters of oval, panel, or cylindrical form, segmented or otherwise, are easily adapted to the patented Multi-Jet reverse filter cleaning system.



Multi-Jet Operation

Controlled, quick-release of jetted and educted gas dynamically seals the tube bore opening by means of a solid gas wall. Ahead of the seal, high energy has flow overpowers collected material to reverse flush filter media. Multi-Jet filter cleaning is thus complete and predictable.

m-plex	*Best of Technology*	CYCLONE FILTER MODEL CF



Proven Design

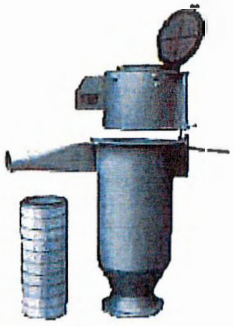
The flange-mount Cyclone-Filter is a member of the proven M-PLEX Mono-Filter Series of Self-Cleaning Cartridge Filter Systems. The Cyclone-Filter includes a single, self-cleaning cartridge filter incorporated in a cyclonic separator to provide compact, central filtered venting for dry bulk material processing.

Efficient Filter Cleaning-Assured Process Air-Flow

Efficient Multi-Jet cleaning of material from the segmented bore filter assures free flow of process air. Non-electric, pneumatic timed filter cleaning is by 45/65 psi air in multiple overlapping jets. This results in low residual flow drag across the filter and reliable discharge of high quality filtered air.

Exclusive Filter Guard

For positive pressure systems, the Filter Guard pressure relief vents air and solids to atmosphere in case of system overfilling or abnormal surging. This desirable feature provides an extra margin to process control and filter life.



Swing-Away Top Housing - Easy to Maintain

Swing-away of the top housing provides convenient access for servicing the cartridge filter. The filter is vertically lifted and may be bagged during removal from the lower housing. This feature permits impressive maintenance time savings when compared to conventional systems.

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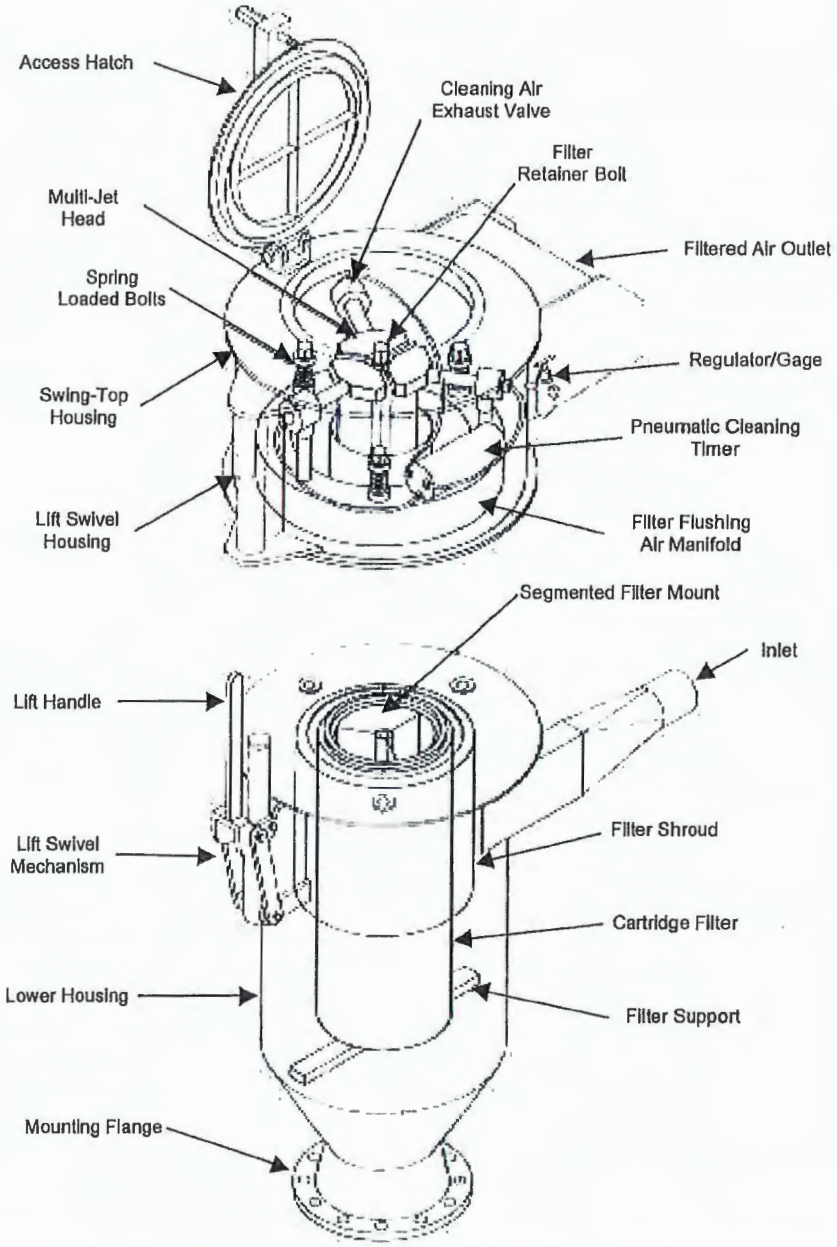
CYCLONE FILTER



MODEL	OVERALL HEIGHT	NOMINAL DIAMETER	MAXIMUM AIR FLOW	APPROX. SHIP WT.
CF-200	71"	26"	1,000 cfm	750 lb.
CF-400	90"	35 ¼'	2,000 cfm	1,100 lb.
CF-600	118"	45"	3,000 cfm	1,500 lb.
CF-800	129"	50 ½"	4,000 cfm	1,800 lb.
CF-1000	138"	55 ½"	5,000 cfm	2,200 lb.
CF-1200	147"	60 ½"	6,000 cfm	2,500 lb.
CF-1400	154"	64 ½"	7,000 cfm	2,700 lb.
CF-1600	161"	68 ½"	8,000 cfm	2,900 lb.
CF-1800	168"	72 ½"	9,000 cfm	3,100 lb.
CF-2000	173"	75 ½"	10,000 cfm	3,400 lb.

CONSULT YOUR SALES REPRESENTATIVE - DIMENSIONS AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. APPROXIMATE SHIPPING WEIGHT IS LESS CRATE

MP 373 2/88

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:

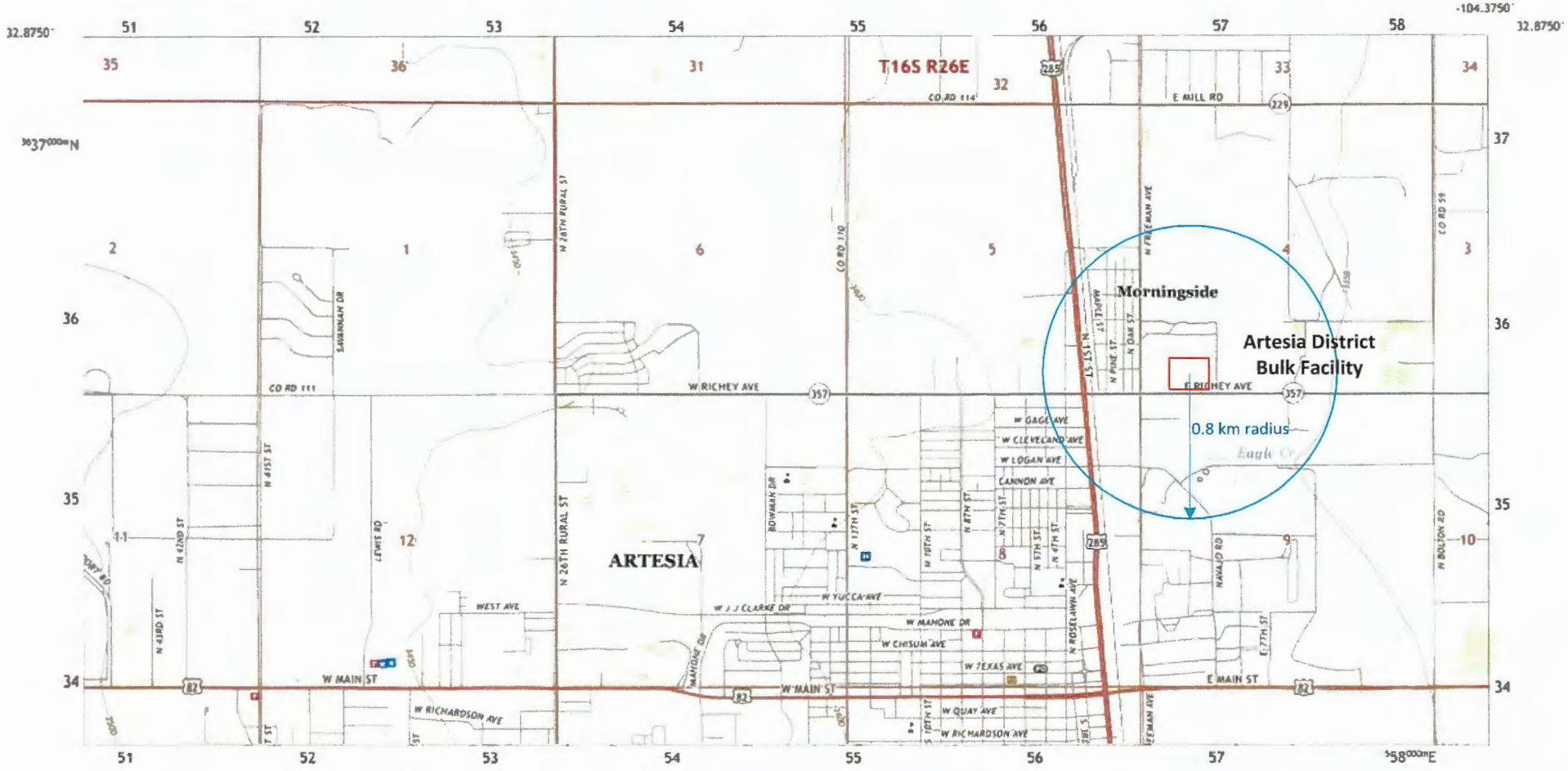
The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public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

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

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

ARTESIA QUADRANGLE
NEW MEXICO - EDDY COUNTY
7.5-MINUTE SERIES



SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

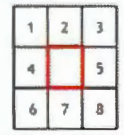
CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route



ADJOINING QUADRANGLES

1 Hope NE
2 Espuela
3 Artesia NE
4 Hope SE
5 Spring Lake
6 Parish Ranch
7 Dayton
8 Lake McMillan North

ARTESIA, NM
2020

Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)

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

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

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

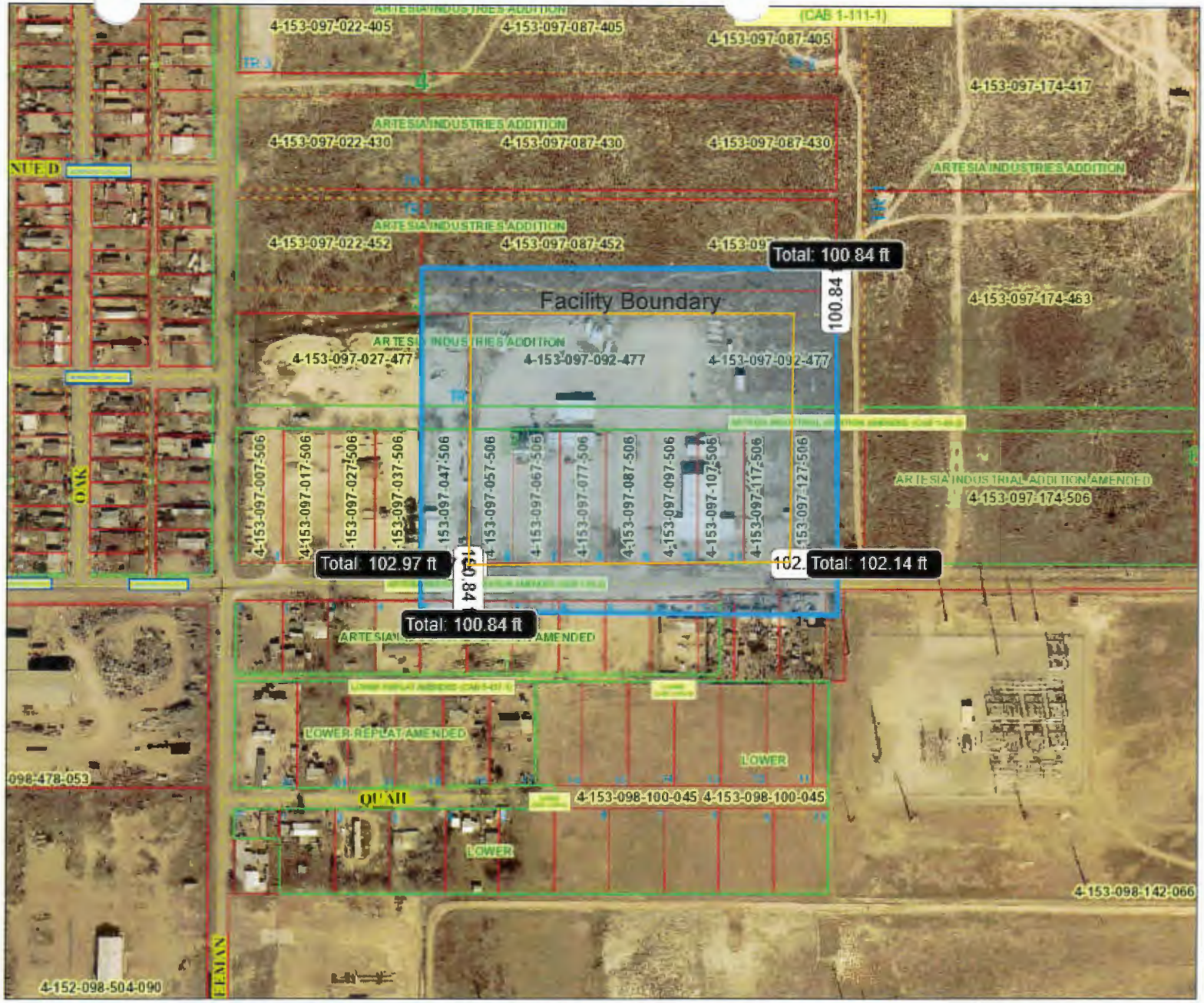
New Permit and **Significant Permit Revision** public notices must include all items in this list.

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

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

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

<Property Tax Parcels>



Legend

Cartography
- <all other values>
- Govt Lot Lines
- Dimension Tic
- Leader Lines
- Misc Carto
- Owner Hooks
- Sub Corners

Roads
Railroads
Water
Geographic
Subdivision
Parcel

Artesia District Bulk Facility - Property Records

Web Print: 07/10/2023

0 367 735 Feet

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

- Account Search
- View Created Report(s)
- Help?
- Eddy County Website
- County Treasurer
- County Assessor
- County Clerk
- Logout Public

Account: R076006 *Mill Levy does not include Special District Rates such as Penasco, Carlsbad Soil & Water, Central Valley, Eagle Draw, PVC, Cottonwood, and Hackberry

Location

Account Number R076006

Situs Address E OF 507 E RICHEY AVENUE

Tax Area 16O_NR - ARTESIA-OUT (Nonresidential)

Parcel Number 4-153-097-107-506

Legal Summary Subd: ARTESIA INDUSTRIAL ADDITION (AMEND) Block: 2 Tract: 11

Map Number 51A-AIA2-11, CAB 1-94-2

Parcel Size 100' X 290'

Owner Information

Owner Name DOWELL DIVISION OF DOW CHEMICAL CO

In Care Of Name RYAN LLC C/O

Owner Address PO BOX 460667 DEPT 100 HOUSTON, TX 77056

Assessment History

Actual Value (2023) $2,679

Primary Taxable $893

Tax Area: 16O_NR **Mill Levy:** 18.071000

Type	Actual	Assessed	Units
Non-Residential Land	$2,679	$893	0.670

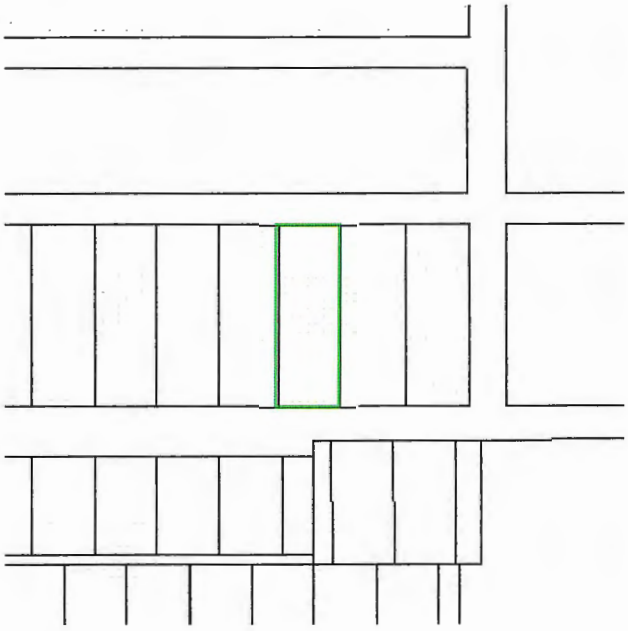
Tax History

Tax Year	Taxes
*2024	$20.30
2023	No Tax Values

* Estimated

Images

- GIS



<Certified Letter Receipts>

SENDER: COMPLETE THIS SECTION

25 AUG 2023 PM 1 L

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

1. Article Addressed to:

Amanda Rose Munoz
604 E Richey Ave
Artesia, NM 88210

9590 9402 7861 2234 7002 99

2. Article Number *(Transfer from service label)*

7022 2410 0001 5777 7679

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* [signature] C. Date of Delive

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

3. Service Type
- ☑ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restric Delivery
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receip

SCUMBS00996

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Jim McGuire
City of Artesia
119 S Roselawn, Ste 303
Artesia, NM 88210

9590 9402 7861 2234 7003 12

2. Article Number *(Transfer from service label)*

7022 2410 0002 8979 1055

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delive

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

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restric Delivery
- ☐ Signature Confirmation
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PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receip

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1. Article Addressed to:

Solemon, Donald R+ David(JT)
602 E Richey Ave
Artesia, NM 88210

9590 9402 7861 2234 7003 43

2. Article Number (Transfer from service label)

7022 2410 0002 8979 1024

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Obulio Munoz ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delive

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

3. Service Type
☑ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restric Delivery
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery
ail Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receip

SCLUMB500996

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Roberta Gonzales
County Manager/Eddy County
101 W Greene St., Ste 110
Carlsbad, NM 88220

9590 9402 7861 2234 7003 29

2. Article Number (Transfer from service label)

7022 2410 0002 8979 1048

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X T. Romero ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delive

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

3. Service Type
☑ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restric Delivery
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery
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PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receip

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1. Article Addressed to:

Garcia, Jose Angel Guillermo
+ Pando, Marisela
2011 N Oak Street
Artesia, NM 88210

9590 9402 7861 2234 7003 36

2. Article Number *(Transfer from service label)*

7022 2410 0002 8979 1031

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Address

B. Received by *(Printed Name)* | C. Date of Delive

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

3. Service Type

☑ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Mail
Mail Restricted Delivery

☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restri Delivery
☐ Signature Confirmatio
☐ Signature Confirmatio Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Rece

SCLUMBJ0D966

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

RR 4 D LLC
24 W. Compress Rd
Artesia, NM 88210

9590 9402 7861 2234 7003 50

2. Article Number *(Transfer from service label)*

7022 2410 0001 5777 7617

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addresse

B. Received by *(Printed Name)* | C. Date of Delive

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

3. Service Type

☑ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Mail
Mail Restricted Delivery

☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restric Delivery
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receip

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Velo, Estevan Ruiz
1003 N. Roselawn Ave
Artesia, NM 88210

9590 9402 7861 2234 7003 74

2. Article Number *(Transfer from service label)*

7022 2410 0001 5777 7655

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Kaitlyn Velo ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Kaitlyn Velo | C. Date of Delivery

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

3. Service Type

- ☑ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Mail
- ☐ Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SCUMBJ 00996

SENDER: *COMPLETE THIS SECTION*

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

1. Article Addressed to:

Bill Williams
Chaves County Manager
1 St Mary's Pl
Roswell, NM 88203

9590 9402 7861 2234 7002 75

2. Article Number *(Transfer from service label)*

7022 2410 0002 8979 1079

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery

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

3. Service Type

- ☑ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Claudia E. Martinez
510 E Richey Ave
Artesia, NM 88210

9590 9402 7861 2234 7002 82

2. Article Number *(Transfer from service label)*

7022 2410 0002 8979 1062

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Claudia Martinez ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Claudia Martinez

C. Date of Delive

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

AUG 19 2023

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ tail
- ☐ tail Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restric Delivery
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receip

7022 2410 0001 5777 7662

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

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

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $ ____
- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage
$

Total Postage and Fees
$ 9.49

Postmark Here

Sent To Winston & Maria C. (JT) Morse

Street and Apt. No., or PO Box No. 4940 NW 65th Ave

City, State, ZIP+4® Lauderhill, FL 33319

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

7022 2410 0002 8979 1086

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

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

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $ ____
- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage
$

Total Postage and Fees
$ 9.49

Postmark Here

Sent To Arriola, Eleazar Hernandez

Street and Apt. No., or PO Box No. 1914 Pine St

City, State, ZIP+4® Artesia, NM 88210

August 14, 2023

CERTIFIED MAIL 7022 2410 0001 5777 7679
RETURN RECEIPT REQUESTED

Amande Rose Munoz
604 E Richey Ave
Artesia, NM 88210

Dear Neighbor,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

The proposed revision consists of adding three (3) new cement storage silos with associated dust collectors, and one (1) blending pig tank. As well as removing three (3) cement storage silos with associated dust collectors.

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:

Pollutant:	Pounds per hour	Tons per year
PM_{10}	0.28	0.21
$PM_{2.5}$	0.28	0.21

The standard and maximum operating schedules of the facility will be from 12 a.m. to 12 a.m. (24 hours), 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include Schlumberger Technology Corp.; 507 E Richey Ave, Artesia, NM 88210.

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.

Attención

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

Sincerely,
Schlumberger Technology Corporation
7220 W I-20 Frontage, Midland TX 79706

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.

August 14, 2023

CERTIFIED MAIL 7022 2410 0002 8979 1086
RETURN RECEIPT REQUESTED

Arriola, Eleazar Hernandez
1914 Pine Street
Artesia, NM 88210

Dear Neighbor,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

The proposed revision consists of adding three (3) new cement storage silos with associated dust collectors, and one (1) blending pig tank. As well as removing three (3) cement storage silos with associated dust collectors.

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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.

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August 14, 2023

CERTIFIED MAIL 7022 2410 0002 8979 1079
RETURN RECEIPT REQUESTED

Bill Williams
Chaves County Manager
1 St Mary's Pl
Roswell, NM 88203

Dear Chaves County Manager,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

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7220 W I-20 Frontage, Midland TX 79706

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August 14, 2023

CERTIFIED MAIL 7022 2410 0002 8979 1062
RETURN RECEIPT REQUESTED

Claudia E Martinez
510 E Richey Ave
Artesia, NM 88210

Dear Neighbor,
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Sincerely,
Schlumberger Technology Corporation
7220 W I-20 Frontage, Midland TX 79706

Notice of Non-Discrimination
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August 14, 2023

CERTIFIED MAIL 7022 2410 0002 8979 1055
RETURN RECEIPT REQUESTED

Jim McGuire
Community Development Director
City of Artesia
119 S Roselawn STE 303
Artesia, NM 88210

Dear Community Development Director,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

The proposed revision consists of adding three (3) new cement storage silos with associated dust collectors, and one (1) blending pig tank. As well as removing three (3) cement storage silos with associated dust collectors.

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:

Pollutant:	Pounds per hour	Tons per year
PM_{10}	0.28	0.21
$PM_{2.5}$	0.28	0.21

The standard and maximum operating schedules of the facility will be from 12 a.m. to 12 a.m. (24 hours), 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include Schlumberger Technology Corp.; 507 E Richey Ave, Artesia, NM 88210.

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.

Attención
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Sincerely,
Schlumberger Technology Corporation
7220 W I-20 Frontage, Midland TX 79706

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August 14, 2023

CERTIFIED MAIL 7022 2410 0002 8979 1048
RETURN RECEIPT REQUESTED

Roberta Gonzales
County Manager
Eddy County
101 W Greene St. Suite 110
Carlsbad, NM 88220

Dear County Manager,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

The proposed revision consists of adding three (3) new cement storage silos with associated dust collectors, and one (1) blending pig tank. As well as removing three (3) cement storage silos with associated dust collectors.

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Pollutant:	Pounds per hour	Tons per year
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$PM_{2.5}$	0.28	0.21

The standard and maximum operating schedules of the facility will be from 12 a.m. to 12 a.m. (24 hours), 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include Schlumberger Technology Corp.; 507 E Richey Ave, Artesia, NM 88210.

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.

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Sincerely,
Schlumberger Technology Corporation
7220 W I-20 Frontage, Midland TX 79706

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August 14, 2023

CERTIFIED MAIL 7022 2410 0002 8979 1031
RETURN RECEIPT REQUESTED

Garcia, Jose Angel Guillermo & Pando, Marisela
2011 N Oak St,
Artesia, NM 88210

Dear Neighbor,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

The proposed revision consists of adding three (3) new cement storage silos with associated dust collectors, and one (1) blending pig tank. As well as removing three (3) cement storage silos with associated dust collectors.

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Pollutant:	Pounds per hour	Tons per year
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Owners and operators of the facility include Schlumberger Technology Corp.; 507 E Richey Ave, Artesia, NM 88210.

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.

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Sincerely,
Schlumberger Technology Corporation
7220 W I-20 Frontage, Midland TX 79706

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August 14, 2023

CERTIFIED MAIL 7022 2410 0002 8979 1024
RETURN RECEIPT REQUESTED

Golemon, Donald R & David (JT)
602 E Richey Ave
Artesia, NM 88210

Dear Neighbor,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

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Sincerely,
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7220 W I-20 Frontage, Midland TX 79706

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August 14, 2023

CERTIFIED MAIL 7022 2410 0001 5777 7617
RETURN RECEIPT REQUESTED

RR & D LLC
24 W Compress Rd
Artesia, NM 88210

Dear Neighbor,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

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

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Sincerely,
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7220 W I-20 Frontage, Midland TX 79706

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August 14, 2023

CERTIFIED MAIL 7022 2410 0001 5777 7655
RETURN RECEIPT REQUESTED

Velo, Estevan Ruiz
1003 N Roselawn Ave
Artesia, NM 88210

Dear Neighbor,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

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August 14, 2023

CERTIFIED MAIL 7022 2410 0001 5777 7662
RETURN RECEIPT REQUESTED

Winston and Maria Christina (JT) Grace
4940 NM 65th Ave
Lauderhill, FL 33319

Dear Neighbor,
Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk, is at East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

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<Public Notice Posted>

NOTICE

Schlumberger Technology Corporation announces its application to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk Facility, is at 507 East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of the intersection of E Main St and S 1st St in name Eddy County.

The proposed modification consists of adding three (3) new cement storage silos with associated dust collectors, and one (1) blending pig tank. As well as removing three (3) cement storage silos with associated dust collectors.

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:

Pollutant:	Pounds per hour	Tons per year
PM_{10}	0.28	0.21
$PM_{2.5}$	0.28	0.21

The standard and maximum operating schedules of the facility will be from 12 a.m. to 12 a.m. (24 hours), 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: Schlumberger Technology Corp.; 507 E Richey Ave, Artesia, NM 88210

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

General Posting of Notices – Certification

I, Cody Colvin, the undersigned, certify that on **{DATE},** posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the City of Artesia of Eddy County, State of New Mexico on the following dates:

1. Facility entrance {DATE} 8-28-23
2. Artesia City Hall {DATE} 8 28 23
3. Artesia Public Library {DATE} 8-28-23
4. Artesia Post Office {DATE} 8-28-23

Signed this 28th day of August, 2023.

Cody Colvin
Signature

8 28 23
Date

Cody Colvin
Printed Name

Bulk Plant Supervisor
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

<Public Service Announcement>

Public Service Announcement

Schlumberger Technology Corporation announces that it will submit an air permit revision application to the Air Quality Bureau of the New Mexico Environment Department.

The Artesia District Bulk Facility, owned and operated by Schlumberger, is located at 507 East Richey Avenue in Artesia. Planned operations at the facility involve the production of specialty cement products serving oil and gas well exploration and production. The proposed revision is for the installation of three additional storage silos and one pig tank at the facility and the removal of three storage silos.

A notice of the proposed air permit modification has been posted, and can be viewed at the following locations:

- The facility entrance at 507 E Richey Avenue
- Artesia City Hall
- Artesia Public Library
- Artesia Post Office

Inquires or comments concerning this project may be submitted in writing to:
NMED Air Quality Bureau – Permits Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
Or by telephone to the Air Quality Bureau at 505-476-4300.

Submittal of Public Service Announcement – Certification

I, Joseline Laureano, the undersigned, certify that on **7/14/2023**, submitted a public service announcement to **KSVP-AM/FM** that serves the City of **Artesia**, **Eddy** County, New Mexico, in which the source is or is proposed to be located and that **KSVP-AM/FM DID NOT RESPOND.**

Signed this 30 day of August, 2023.

Signature

8/30/23
Date

Joseline Laureano
Printed Name

Consultant - Enercon Services
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

<Newspaper Affidavits>

NOTICE OF AIR QUALITY PERMIT APPLICATION

Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

The exact location for the proposed facility known as, Artesia District Bulk Facility, is at 507 East Richey Avenue, Artesia, NM 88210. The approximate location of this facility is 1.5 miles Northeast of Artesia in Eddy County.

The proposed modification consists of adding three (3) new cement storage silos with associated dust collectors, and one (1) blending pig tank. As well as removing three (3) cement storage silos with associated dust collectors.

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}	0.28	0.21
$PM_{2.5}$	0.28	0.21

The standard and maximum operating schedules of the facility will be from 12 a.m. to 12 a.m. (24 hours), 7 days a week and a maximum of 52 weeks per year

The owner and/or operator of the Facility is: Schlumberger Technology Corp.; 507 E Richey Ave, Artesia, NM 88210

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.

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Affidavit of Publication

No. 26620

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn sayes that he is the **Publisher**

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily 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	August 17, 2023
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this

17th day of August 2023

LATISHA ROMINE
Notary Public, State of New Mexico
Commission No. 1076338
My Commission Expires

Copy of Publication:

Legal Notice

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Schlumberger Technology Corporation announces its application submittal to the New Mexico Environment Department for an air quality permit for the modification of its Bulk Cement facility. The expected date of application submittal to the Air Quality Bureau is August 25, 2023.

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Published in the Artesia Daily Press, Artesia, N.M., Aug. 17, 2023 Legal No. 26620.

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Notary Public, Eddy County, New Mexico

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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

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.

Cement ingredients are delivered by vendor trucks to the facility and pneumatically unloaded at either of two existing stations into one of thirteen (13) existing and three (3) new bulk storage silos (Silos 1-13, Silos 3A, 4A, 5A). The pneumatic transfer air from the silos will be vented through dust collectors on each silo prior to release to atmosphere. To produce a blended solids product, ingredient material is pneumatically drawn from the various storage silos into either the existing weigh batch tanks (TK 2 and TK 5) or the new storage/blend pig tank (PIG 1, PIG 2). Blended product is then pneumatically transferred to downstream double stack tanks. Customer or Schlumberger belly trucks are loaded pneumatically from the double stack tanks at two existing loading positions. Waste, reject, or reclaim mixed materials can be transferred to the existing Reclaim Tank (TK 1) which is equipped with two dust collectors to treat conveyance air for transfers into the two sets of double stack tanks and the four unload/load stations.

Emission estimates conservatively reflect the maximum operation within the design capacity of the Cement Plant and take into account the operation of the dust collectors described in this application. Based on facility estimates, up to 22 trucks may be accommodated per 24-hour day, for either loading or unloading operations. Hourly emissions estimates for truck transfers are based on the loading/unloading capacity for up to four trucks simultaneously per hour, each containing 25 tons of material (100 tons per hour total) at four loading/unloading stations. Trucks travel over a consistent path through the facility, and at slow speed (< 10 mph) for safety and to avoid generating excess dust. The proposed revision will not impact the overall production throughput of the facility since that is limited based on the available load/unload stations and will serve to increase the amount of available storage for cement materials.

Section 11

Source Determination

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

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

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

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

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

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

☒ **Yes** ☐ **No**

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

☒ **Yes** ☐ **No**

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

☒ **Yes** ☐ **No**

C. Make a determination:

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

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

Section 12

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

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

A. This facility is:

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

B. **This facility is not one of the listed 20.2.74.501 Table I – PSD Source Categories. The "project" emissions** for this modification are **not significant. Total facility emissions on a controlled basis are calculated in Section 6 and are below the significance thresholds in 20.2.74.502 NMAC. The "project" emissions listed below do not only result from changes described in this permit application, thus no emissions from other revisions to this facility. The modification project does not involve debottlenecking of 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: 0.00 TPY**
b. **CO: 0.00 TPY**
c. **VOC: 0.00 TPY**
d. **SOx: 0.00 TPY**
e. **PM: 0.61 TPY**
f. **PM10: 0.21 TPY**
g. **PM2.5: 0.21 TPY**
h. **Fluorides: 0.00 TPY**
i. **Lead: 0.00 TPY**
j. **Sulfur compounds (listed in Table 2): 0.00 TPY**
k. **GHG: 0.00 TPY**

C. 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 RELEVENT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

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

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:

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.)
20.2.1 NMAC	General Provisions	Yes	Facility	The facility applies to this regulation.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	The facility applies to this regulation.
20.2.7 NMAC	Excess Emissions	Yes	Facility	The existing air permit obligates the facility to report Excess Emissions.
20.2.23 NMAC	Fugitive Dust Control	No	Facility	Facility is issued a permit pursuant to the NM Air Quality Control Act and is not a NOI facility.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	This facility does not operate gas burning equipment having a 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	N/A	This facility does not operate gas 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	N/A	The facility does not operate equipment affected by this regulation.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	**These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.**
20.2.38 NMAC	Hydrocarbon Storage Facility	No	N/A	The facility does not operate equipment affected by this regulation
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	The facility does not operate equipment affected by this regulation
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	No	N/A	This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NOx) for oil and gas production, processing, compression, and transmission sources. 20.2.50 NMAC subparts below: Include the construction status of applicable units as "New", "Existing", "Relocation of Existing", or "Reconstructed" as defined by this Part in your justification: 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	Facility	Facility Point Sources controlled by dust collectors are subject to a 5% opacity limit, pursuant to 20 NMAC 2.72.210.B.4
20.2.70 NMAC	Operating Permits	No	Facility	Facility is not a major source.
20.2.71 NMAC	Operating Permit Fees	No	Facility	Facility is not subject to 20.2.70 NMAC and is therefore not subject to the associated fees in 20.2.71 NMAC
20.2.72 NMAC	Construction Permits	Yes	Facility	Facility is subject to construction permitting and this application relates to a revision of the existing NSR Permit 0058-M3.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	20.2.73.200 NMAC potentially applies. The existing NSR permit indicates no specific condition for emission inventory reporting.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	Facility	Facility is not a PSD major source.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	The facility is permitted under 20.2.72 NMAC and is in turn subject to 20.2.75 NMAC.
20.2.77 NMAC	New Source Performance	No	Units subject to 40 CFR 60	The facility does not operate any units subject to NSPS.
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	The Facility does not operate any units subject to NESHAPS.
20.2.79 NMAC	Permits – Nonattainment Areas	No	Facility	The facility is located in an area designated as attainment for NAAQS.
20.2.80 NMAC	Stack Heights	No	N/A	Not applicable to the dust collector vents at the facility, which are not subject to a dispersion modeling evaluation, or related good engineering practice limitations.
20.2.82 NMAC	MACT Standards for source categories of HAPS	No	Units Subject to 40 CFR 63	The facility does not operate any units subject to MACT.

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	No	Units subject to 40 CFR 60	The facility does not operate any units subject to NSPS.
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for **Electric Utility Steam Generating Units**	No	N/A	The facility does not generate electric power.
NSPS 40 CFR60.40b Subpart Db	**Electric Utility Steam Generating Units**	No	N/A	The facility does not generate electric power.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	No	N/A	The facility does not generate electric power.
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for **Storage Vessels for Petroleum Liquids** for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and **Prior** to July 23, 1984	No	N/A	The facility does not operate any units subject to NSPS.
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	N/A	The facility does not operate any units subject to NSPS.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NSPS 40 CFR 60.330 Subpart GG	**Stationary Gas Turbines**	No	N/A	The facility does not operate any units subject to NSPS.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from **Onshore Gas Plants**	No	N/A	The facility does not operate any units subject to NSPS.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for **Onshore Natural Gas Processing**: SO_2 Emissions	No	N/A	The facility does not operate any units subject to NSPS.
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	N/A	The facility does not operate any units subject to NSPS.
NSPS 40 CFR Part 60 Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced **After** September 18, 2015	No	N/A	The facility does not operate any units subject to NSPS.
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	No	N/A	The facility does not operate any units subject to NSPS.
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	No	N/A	The facility does not operate any units subject to NSPS.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas	No	N/A	The facility does not operate any units subject to NSPS.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
	Emissions for Electric Generating Units			
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No	N/A	The facility does not operate any units subject to NSPS.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No	N/A	The facility does not operate any units subject to NSPS.
NESHAP 40 CFR 61 Subpart A	General Provisions	No	Units Subject to 40 CFR 61	The facility does not operate any units subject to NSPS.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for **Mercury**	No	N/A	The facility does not process, handle, or store mercury ore or products.
NESHAP 40 CFR 61 Subpart V	National Emission Standards for **Equipment Leaks** (Fugitive Emission Sources)	No	N/A	The facility does not contain any sources intended to operate in VHAP service.
MACT 40 CFR 63, Subpart A	General Provisions	No	Units Subject to 40 CFR 63	The facility does not operate any units subject to MACT.
MACT 40 CFR 63.760 Subpart HH	**Oil and Natural Gas Production Facilities**	No	N/A	The facility does not operate any units subject to MACT.
MACT 40 CFR 63 Subpart HHH		No	N/A	The facility does not operate any units subject to MACT.
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	The facility does not operate any units subject to MACT.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
MACT 40 CFR 63 Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit	No	N/A	The facility does not operate any units subject to MACT.
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**)	No	N/A	The facility does not operate any units subject to MACT.
40 CFR 64	**Compliance Assurance Monitoring**	No	N/A	Facility is a minor source.
40 CFR 68	**Chemical Accident Prevention**	No	N/A	Facility does not contain more than a threshold quantity of a regulated substance.
Title IV – Acid Rain 40 CFR 72	**Acid Rain**	No	N/A	Facility does not generate electric power.
Title IV – Acid Rain 40 CFR 73	**Sulfur Dioxide** Allowance Emissions	No	N/A	Facility does not generate electric power.
Title IV-Acid Rain 40 CFR 75	**Continuous Emissions Monitoring**	No	N/A	Facility does not generate electric power.
Title IV – Acid Rain 40 CFR 76	**Acid Rain** Nitrogen Oxides **Emission Reduction Program**	No	N/A	Facility does not generate electric power.
Title VI – 40 CFR 82	Protection of **Stratospheric Ozone**	No	N/A	The facility does not: **(40 CFR 82.1 and 82.100)** produce, transform, destroy, import or export a controlled substance or import or export a controlled product; **(40 CFR 82.30)** if you perform service on a motor vehicle for consideration when

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
				this service involves the refrigerant in the motor vehicle air conditioner; **(40 CFR 82.80)** if you are a department, agency, and instrumentality of the United States subject to Federal procurement requirements; **(82.150)** if you service, maintain, or repair appliances, dispose of appliances, refrigerant reclaimers, if you are an owner or operator of an appliance, if you are a manufacturer of appliances or of recycling and recovery equipment, if you are an approved recycling and recovery equipment testing organization, and/or if you sell or offer for sell or purchase class I or class I refrigerants.

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.

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

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.

Schlumberger does not plan for any alternative operating scenarios from the operations described in Section 10.

The currently operating and permitted sources at the cement plant will continue to operate under the old permit until the new facilities described in this application are ready for operation. The existing units will operate in addition to the newly permitted units after issuance of the new permit and completion of construction. Three cement product storage tanks will be removed with this permit.

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.	X

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.

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

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/air-quality/

For Department use only:

Approved by: Sufi A. Mustafa

Date: 8/8/23

Air Dispersion Modeling Waiver Request Form

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

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

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

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

Section 1 and Table 1: Contact and facility information:

Contact name	Beau Hebert
E-mail Address:	BHebert6@cameron.slb.com
Phone	985-300-3108
Facility Name	Artesia District Bulk Facility
Air Quality Permit Number(s)	0058-M3
Agency Interest Number (if known)	3403
Latitude and longitude of facility (decimal degrees)	32.85806 -104.39333

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

The facility is seeking a permit revision to add additional storage vessels for cement product. Emissions are increasing by less than 0.056 lb/hr and remain below the modeling waiver levels for PM particle sizes.

The facility currently holds NSR Permit 0058-M3 last revised in October 2021.

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

In Table 2, below, list all regulated air pollutants emitted from your facility, except for New Mexico Toxic Air Pollutants, which are listed in Table 6 of this form. All pollutants emitted from the facility must be listed whether or not a modeling waiver is requested for that pollutant or if the pollutant emission rate is subject to the proposed permit changes.

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

Pollutant	Pollutant is not emitted at the facility and modeling or waiver are not required.	Pollutant does not increase in emission rate at any emission unit (based on levels currently in the permit) and stack parameters are unchanged. Modeling or waiver are not required.	Stack parameters or stack location has changed.	Pollutant is new to the permit, but already emitted at the facility.	Pollutant is increased at any emission unit (based on levels currently in the permit).	A modeling waiver is being requested for this pollutant.	Modeling for this pollutant will be included in the permit application.
CO	X						
NO_2	X						
SO_2	X						
PM10					X	X	
PM2.5					X	X	
H_2S	X						
Reduced S	X						
O_3 (PSD only)	X						
Pb	X						

Section 3: Pollutants, other than NMTAPs, with very low emission rates

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

The facility must be at least 2 km from the nearest Class I area to qualify for a waiver due to very low emission rates. List the nearest Class I area and the distance from the facility in the section 3 comments.

Section 3 Comments. (If you are not requesting a waiver for any pollutants based on their low emission rate, then note that here. You do not need to complete the rest of Section 3 or Table 3.)
Dispersion modeling has not been previously conducted for the facility. Based on the conservative emissions analysis the controlled PM_{10} and $PM_{2.5}$ emission rates are below the low emission rate values. Maximum hypothetical emissions for point source stack emissions are developed in supporting Table 6-1. The $PM_{2.5}$ emission estimate is especially conservative, since available emission factors for cement facilities do not include specific emission factors for $PM_{2.5}$ and emissions were therefore assumed to be equal to PM_{10}. Fugitive dust emissions from truck traffic on-site are calculated in supporting Table 6-3.

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

Pollutant	Requested Allowable Emission Rate for Project (pounds/hour)	Release Type (select "all from stacks >20 ft" or "other")	Waiver Threshold (from appendix 2) (lb/hr)
PM_{10}	0.004	All stacks >20 ft. No raincaps	0.255
$PM_{2.5}$	0.004	All stacks >20 ft. No raincaps	0.056

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

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

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

No modeling has been previously conducted for the facility. The requested waiver is not based on this section.

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

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

Section 4, Table 5: Questions about previous modeling:

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

q1 = emission rate, existing source, lbs/hour h2 = replacement stack height, feet v2 = exhaust velocity, replacement source, feet per second T2 = absolute temperature of exhaust, replacement source = degree F + 460 q2 = emission rate, replacement source, lbs/hour		

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

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

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

If you are not scaling previous results, note that here. You do not need to complete the rest of section 5. Scaling analyses are not intended to be used for previously modeled pollutants with decreasing emissions, which is already addressed in section 4.

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

Section 6: New Mexico Toxic air pollutants – 20.2.72.400 NMAC

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

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

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

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

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

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

Section 7: Approval or Disapproval of Modeling Waiver

The AQB air dispersion modeler should list each pollutant for which the modeling waiver is approved, the reasons why, and any other relevant information. If not approved, this area may be used to document that decision.
The change in emissions for PM10 and PM2.5 is below the Minimum Emission Threshold, therefore, waiver is approved.
<Add comments here>

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

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

Appendix 2. Very small emission rate modeling waiver requirements (updated 7/27/2023)
Modeling is waived if emissions of a pollutant for the project are below the amount:

Pollutant	If all emissions come from stacks 20 feet or greater in height and there are no horizontal stacks or raincaps (lb/hr)	If not all emissions come from stacks 20 feet or greater in height, or there are horizontal stacks, raincaps, volume, or area sources (lb/hr)
CO	16.037	2.580
H_2S (Pecos-Permian Basin)	0.114	0.015
H_2S (Not in Pecos-Permian Basin)	0.022	0.003
Lead	0.005	0.001
NO_2	0.189	0.024
PM2.5 – Point Sources	0.056	0.009
PM2.5 – Volume Sources		0.003
PM10 – Point Sources	0.255	0.039
PM10 – Volume Sources		0.015
SO_2	0.179	0.023
Reduced sulfur (Pecos-Permian Basin)	0.033	No waiver
Reduced sulfur (Not in Pecos-Permian Basin)	No waiver	No waiver

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.

No units have operated for which compliance testing has been required.

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.

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

Section 22: Certification

Company Name: Schlumberger Technology Corp.

I, Beau Hebert, 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 1st day of September, 2023, upon my oath or affirmation, before a notary of the State of Texas.

Beau Hebert
*Signature

9/1/2023
Date

Beau Hebert
Printed Name

US-South Enviro. Manag.
Title

Scribed and sworn before me on this 1st day of September, 2023

My authorization as a notary of the State of Texas expires on the 18th day of June, 2024.

APRIL D. COLLINS
Notary Public, State of Texas
Comm. Expires 06-18-2024
Notary ID 126560443

April D Collins
Notary's Signature

9/1/23
Date

April D Collins
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.