NMED AIR QUALITY NSR SIGNIFICANT REVISION APPLICATION

OLAM WEST COAST INC. OLAM SPICES AND VEGETABLE INGREDIENTS

Prepared By:

Adam Erenstein - Manager of Consulting Services

TRINITY CONSULTANTS

9400 Holly Ave NE Building 3, Suite B Albuquerque, NM 87122 (505) 266-6611

On behalf of:

Cindy Xiong - Environmental Director

OLAM WEST COAST INC.

205 E. River Pack Circle Suite 310 Fresno, CA 93720 (559) 446-6469

January 2025

Project 243201.0063







9400 Holly Ave NE, Bldg 3, Ste B, Albuquerque, NM 87122 / P 505.266.6611 / trinityconsultants.com

January 6, 2025

Permit Programs Manager NMED Air Quality Bureau 525 Camino de los Marques, Suite 1 Santa Fe, NM 87505

RE: Application for NSR Significant Revision OLAM West Coast, Inc. — Olam Spices and Vegetables Ingredients

Dear Permit Programs Manager:

On behalf of OLAM West Coast, Inc., we are submitting this application for a NSR Significant Revision for the Olam Spices and Vegetables Ingredients Facility. This facility is located within Las Cruces, New Mexico in Doña Ana County and manufactures spice and vegetable bulk materials. Olam spices and Vegetable Ingredients is currently authorized to operate under NSR Permit 1744M4R1.

The format and content of this application are consistent with the Bureau's current policy regarding NSR Significant Revision applications; it is a complete application package using the most current application forms. Enclosed is one hard copy and one working copy of the application, including the original certification page, electronic files, and an application check. Please feel free to contact me at (505) 266-6611 or by email at aerenstein@trinityconsultants.com if you have any questions regarding this application. Alternatively, you may contact Cindy Xiong with OLAM West Coast, Inc., at (559) 446-6469 or by email at cindy.xiong@ofi.com.

Sincerely,

TRINITY CONSULTANTS

Adam Erenstein Manager of Consulting Services

cc: Cindy Xiong (OLAM West Coast, Inc.)

Trinity Project File 243201.0063

Acuca Projected by Positive Pay

THO COTO LONG TO STEW THE WATERMARK IN PAPERS DEAT SENSITIVE RED LOOK OF A PPOARS WHEN HEATER

JPMORGAN CHASE BANK, N.A. DALLAS, TX

32-61/1110

December 20, 2024

CHECK DATE

Eleven Thousand Eighty Two and 00/100 Dollars

AMOUNT 11,082.00

Pay To The Order Of City of Albuquerque Fund 242

TRINITY CONSULTANTS, INC. 12700 PARK CENTRAL DRIVE STE. 600 DALLAS, TX 75251-1546 (972) 661-8100

Attn: Air Quality Program

Albuquerque Environmental Health Department

PO Box 1293

Albuquerque, NM 87103



NOT VALID AFTER 90 DAYS

AUTHORIZED SIGNATURE

#BB0426# #311000614#

9319954724

TRINITY CONSULTANTS, INC.

Check Date: 12/20/2024 660426

a

| Invoice Number | Date | Voucher | Amount | Discounts | Previous Pay | Net Amount |
|----------------------------|------------|-----------|-----------|-----------|--------------|------------|
| 10242332010139SRAF | 10/28/2024 | 0174425 | 11,082.00 | | | 11,082.00 |
| City of Albuquerque Fund 2 | 42 | TOTAL | 11,082.00 | | | 11,082.00 |
| CHASE BANK- | 15 | 000000236 | | | | |

TRINITY CONSULTANTS, INC.

660426



Air Permit Application Compliance History Disclosure Form

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

| Permittee/Applicant Company Name | | Expected Application Submittal Date | | | |
|----------------------------------|---|---|--|------------|--|
| OLAM | West Coast, Inc. | | January 6, 2025 | | |
| Permi | ttee/Company Contact | Phone | Email | | |
| Christo | opher Granados | (575) 449-9785 | Christopher.gradados@ofi.com | | |
| Withir | the 10 years preceding the expected date | of submittal of the applicat | ion, has the permittee or applicant: | | |
| 1 | Knowingly misrepresented a material fact | t in an application for a permi | t? | ☐ Yes ⊠ No | |
| 2 | Refused to disclose information required | by the provisions of the New | Mexico Air Quality Control Act? | ☐ Yes ☒ No | |
| 3 | Been convicted of a felony related to envi | ironmental crime in any cour | t of any state or the United States? | ☐ Yes ☒ No | |
| 4 | Been convicted of a crime defined by stat price fixing, bribery, or fraud in any court | | | ☐ Yes ☒ No | |
| 5a | Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC? | | | | |
| 5b | If "No" to question 5a, go to question 6. If "Yes" to question 5a, state whether each air quality permit met at least one of the state at the unpermitted facility was discovered authorized by the Department; or b. The operator of the facility estimated the operator applied for an air permit with required for the facility. | following exceptions: d after acquisition during a tinhat the facility's emissions work hin 30 calendar days of disco | mely environmental audit that was build not require an air permit, and vering that an air permit was | ☐ Yes ☐ No | |
| 6 | Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States? | | | | |
| 7 | For each "yes" answer, please provide an | explanation and documentat | ion. | | |

Mail Application To:

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

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



For Department use only:

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: □ a NOI 20.2.73 NMAC ☑ 20.2.72 NMAC application or revision □ 20.2.72.300 NMAC Streamline application | | | | |
| Title V Source: ☐ Title V (new) ☐ Title V renewal ☐ TV minor mod. ☐ TV significant mod. TV Acid Rain: ☐ New ☐ Renewal | | | | |
| · · | | | | |
| PSD Major Source: ☐ PSD major source (new) ☐ minor modification to a PSD source ☐ a PSD major modification | | | | |
| Acknowledgements: | | | | |
| ☑ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR | | | | |
| applications have no fees. | | | | |
| ☑ \$500 NSR application Filing Fee enclosed OR ☐ The full permit fee associated with 10 fee points (required w/ streamline | | | | |
| applications). | | | | |
| ☑ Check No.: 660455 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- | | | | |
| <u>2/.</u> | | | | |
| ☐ 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 | | | | |

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.(1) 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)

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:

Section 1 – Facility Information

| Sect | tion 1-A: Company Information | AI # if known: 350130018 | Updating Permit/NOI #: 1744-M4R1 |
|------|--|-----------------------------|-------------------------------------|
| 1 | Facility Name: OLAM Spices and Vegetables Ingredients | Plant primary SIC Cod | e (4 digits): 2034 |
| 1 | | Plant NAIC code (6 dig | gits): 311423 |
| а | Facility Street Address (If no facility street address, provide directions from Las Cruces, NM 88005 | n a prominent landmar | k): 1650 W. Amador Ave, |
| 2 | Plant Operator Company Name: OLAM Spices and Vegetables Ingredients | Phone/Fax: 575-528-6 | 5228 |

| a | Plant Operator Address: 1650 W. Amador Ave, Las Cruces, NM 88005 | | | | |
|---|---|---|--|--|--|
| b | Plant Operator's New Mexico Corporate ID or Tax ID: | | | | |
| 3 | Plant Owner(s) name(s): OLAM West Coast, Inc. Phone/Fax: 559-447-1390 | | | | |
| а | Plant Owner(s) Mailing Address(s): 205 E. River Park Circle Suite 310, Fres | ino, CA 93720 | | | |
| 4 | Bill To (Company): OLAM Spices and Vegetables Ingredients | Phone/Fax: 575-449-9785 | | | |
| a | Mailing Address: 1650 W Amador, Las Cruces NM, 88005 | E-mail: Christopher.gradados@ofi.com | | | |
| 5 | ☑ Preparer: Trinity Consultants, Inc. ☑ Consultant: Adam Erenstein | Phone/Fax: 505-266-6611 | | | |
| а | Mailing Address: 9400 Holly Avenue NE, Building 3, Suite B, Albuquerque, NM 87122 | E-mail: aerenstein@trinityconsultants.com | | | |
| 6 | Plant Operator Contact: Christopher Granados | Phone/Fax: 575-449-9785 | | | |
| а | Address: 1650 W Amador, Las Cruces NM, 88005 | E-mail: Christopher.gradados@ofi.com | | | |
| 7 | Air Permit Contact: Cindy Xiong | Title: Environmental Director | | | |
| а | E-mail: cindy.xiong@ofi.com | Phone/Fax: 559-446-6469 | | | |
| b | Mailing Address: 205 E. River Park Circle Suite 310, Fresno, CA 93720 | | | | |
| С | 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): N/A | | | |
| 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- N/A | | | |
| 7 | Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☑ No | If yes, the NPR No. is: N/A | | | |
| 8 | Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ☑No | If yes, the NOI No. is: N/A | | | |
| 9 | Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☑ Yes ☐ No | If yes, the permit No. is: 1744-M4R1 | | | |
| 10 | Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ☑ No | If yes, the register No. is: N/A | | | |

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) | | | | |
|---|--|---|--|--|--|
| а | Current Hourly: 67,550 lb/hr Daily: 1,621,200 lb/day Annually: 591,738,000 lb/yr | | | | |
| b | Proposed | Proposed Hourly: 67,550 lb/hr Daily: 1,621,200 lb/day Annually: 591,738,000 lb/yr | | | |
| 2 | What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required) | | | | |

| а | Current | Hourly: 67,550 lb/hr | Daily: 1,621,200 lb/day | Annually: 591,738,000 lb/yr |
|---|----------|----------------------|-------------------------|-----------------------------|
| b | Proposed | Hourly: 67,550 lb/hr | Daily: 1,621,200 lb/day | Annually: 591,738,000 lb/yr |

Section 1-D: Facility Location Information

| 3000 | ion i D. Ta | cinty Locatio | iii iiiioiiiiatioii | | | | |
|------|---|---|--|-------------------------|----------------------------|--------------------------|--|
| 1 | Section: 13 | Range: 1E | Township: 22S | County: D | ona Ana | | Elevation (ft): 3890 |
| 2 | UTM Zone: □ 12 or ☑ 13 | | Datum: | □ NAD 27 | □ NAD 83 | ☑ WGS 84 | |
| а | UTM E (in meters | s, to nearest 10 meter | s): 330,688.86 | UTM N (in | meters, to neare | est 10 meters): | 3,575,435.31 |
| b | AND Latitude (| (deg., min., sec.): | 32° 18' 10.584" | Longitude | e (deg., min., s | sec.): - 106° 4 | 47' 58.916" |
| 3 | Name and zip code of nearest New Mexico town: Las Cruces, 88005 | | | | | | |
| 4 | city boundaries PICACHO AVE (AVE on the righ | s. Take I-25 south (US-70 W), turn Le ht. | eft on N VALLEY DR, turn R | MOGORDO, ight on W A | turn Right on MADOR AVE | N MAIN ST((NM-342 W) | US-70 W), turn Right on W , arrive at 1650 W AMADOR |
| 5 | The facility is N boundaries. | I/A (distance) mile | es N/A (direction) of N/A (r | nearest tow | n). This Facilit | ty is located | within Las Cruces city |
| 6 | Status of land a | at facility (check o | ne): ☑ Private 🗆 Indian/P | ueblo 🗆 Fe | deral BLM 🛚 | Federal Fore | est Service |
| 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: City of Las Cruces, Town of Mesilla, Dona Ana County, no Indian Tribes are within a 10-mile area. | | | | | | |
| 8 | than 50 km (31 | L miles) to other s | : Will the property on whi tates, Bernalillo County, or 20.2.72.206.A.7 NMAC) If | a Class I ar | ea (see <u>www.</u> | .env.nm.gov | |
| 9 | Name nearest | Class I area: Gila \ | Wilderness | | | | |
| 10 | Shortest distan | nce (in km) from fa | acility boundary to the bou | ndary of th | e nearest Cla | ss I area (to th | ne nearest 10 meters): 143.0 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: Nearest School is Children's Garden, 663 meters southeast. Nearest occupied structure is the neighboring business, 72 meters east. | | | | | | |
| 12 | Method(s) used to delineate the Restricted Area: Continuous fencing. There are no public roads within the Restricted Area. "Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. | | | | | | |
| 13 | Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? ☐ 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? N/A | | | | | | |

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 (hours day): 24 | (days (week): 7 | (weeks year): 52 | (<u>hours</u>): 8760 | |
|---|---|---|---------------------|------------------------|----|
| 2 | Facility's maximum daily operating schedule (if less than 24 hours day)? Start: N/A | | | End: N/A | PM |
| 3 | Month and year of anticipated start of construction | n: TBD | | | |

| 4 | Month and year of anticipated construction completion: TBD | | | | |
|-----|---|-----------------------------|-------------------|------------------------------------|--|
| 5 | Month and year of anticipated startup of new or modified | facility: TBD | | | |
| 6 | Will this facility operate at this site for more than one year | ? ☑ Yes □ No | | | |
| Sec | tion 1-F: Other Facility Information | | | | |
| 1 | Are there any current Notice of Violations (NOV), complia to this facility? ☐ Yes ☑ No If yes, specify: N/A | nce orders, or any oth | ner compli | ance or enforcement issues related | |
| а | If yes, NOV date or description of issue: N/A | | | NOV Tracking No: N/A | |
| b | Is this application in response to any issue listed in 1-F, 1 of | or 1a above? □ Yes E | ☑ No If Ye | s, provide the 1c & 1d info below: | |
| С | Document Title: N/A Date: N/A Requirement # (or page # and paragraph #): N/A | | | | |
| d | d Provide the required text to be inserted in this permit: N/A | | | | |
| 2 | Is air quality dispersion modeling or modeling waiver being submitted with this application? 🗹 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 Pollu | tants (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 | | | | |
| | If yes, include the name of company providing commercial electric power to the facility:El Paso Electric Company | | | | |
| а | Commercial power is purchased from a commercial utility on site for the sole purpose of the user. | y company, which spe | ecifically d | oes not include power generated | |
| _ | tion 1 C. Stroomline Application (m | | | | |

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-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:

OLAM West Coast Inc

- 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 <u>copy</u> should be printed in book form, 3-hole punched, and <u>must be double sided</u>. 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: Adam Erenstein, (505) 266-6611, aerenstein@trinityconsultants.com
- a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**
- 4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.
- 5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling **summary report only** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.
- 6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
 - a. one additional CD copy for US EPA,
 - b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
 - c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

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

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

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the

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

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

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

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January 2025; Revision #0 OLAM Spices and Vegetables Ingredients OLAM West Coast, Inc.

Table 2-A: Regulated Emission Sources

| House Solie Burner Combarder Solie Burner | Unit and st | Unit and stack numbering must correspond throughout the application package. If applying | pond throughout th | ne applicatio | on package. It applyın | g tor a NOI L | nder 20.2.73 | NMAC, equipn | nent exempti | ons under 2.72.2 | tor a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply. | | | |
|--|---------------------|--|--------------------|---------------|------------------------|---------------------------|------------------------|--|-------------------------|---------------------|--|--|--|----------|
| Source Bendinium Maked In Surial 8 Serial 9 (peach) Capach 10 (peach) | : | | | | | Manufact- urer's Rated | Requested Permitted | Date of Manufacture ² | Controlled by Unit # | Source Classi- | | | RICE Ignition Type | 200 A |
| Baller Burner Dison SK-10 Dison Walkally Walkally State Dison Walkally Walkally State Dison State Dison SK-10 Dison Walkally Walkally State Dison State Dison Walkally Walkally State Dison State Dison Walkally Walkally State Dison State Dison Walkally Walkally Dison State Dison Walkally Walkally Dison State Dison Walkally Walkally Dison State Dison Walkally Dison Di | Number ¹ | Source Description | Make | Wodel # | Serial # | Capacity ³ | Capacity | Date of | Emissions | fication Code (SCC) | For Each Piece of Eq | uipment, Check One | (CI, SI, 4SLB, 4SRB, | Unit No. |
| Boiler Burner Dixon 8 8 4 No. 8 4 No. 8 1 No. 8 No. | | | | | | Units) | Units) | Construction/ Reconstruction ² | vented to Stack# | | | | (376) | |
| Packaging Line Cleaver Brooks Clea | 7 | 2000 | 3 | 7.7 | 2 | 8.4 | 8.4 | 1985 | | 2000000 | ☐ Existing (unchanged) | ☐ To be Removed | 2 | |
| Bolier Burner Cleaver Brooks Cleaver | T-99 | Boller Burner | LI OXIO | OT-NC | חואטו | MMBtu/hr | MMBtu/hr | 2001 | B1 | 30230003 | ☐ To Be Modified | ☐ Keplacement Unit ☐ To be Replaced | N/A | |
| Bolier Burner ABCO 200AM 7950200 MRBu/In MR | | : | - | CBI-200 | | 6.1 | 6.1 | 2006 | | | ☐ Existing (unchanged) | ☐ To be Removed | *, | |
| Boiler Burner ABOO 200AMC 759000 18.4 2001* 2. 30290003 The Abundaniewed 10 To be Removed INA Boiler Burner Combuston 35 6807001 42. 2001* 8.3 30290003 The Abundaniewed IN De Removed IN A Boiler Burner Combuston 178D 178D 6.4 4.2 178D 1.0 < | BB-1 | Boiler Burner | Cleaver Brooks | 150-150 | 0L105464 | MMBtu/hr | MMBtu/hr | TBD | B1 | 30290003 | ☐ New/Additional ☐ To Be Modified | ☑ Replacement Unit ☐ To be Replaced | ∀\Z | BB-1 |
| Boiler Burner | c | - C | CO | 7,44000 | 0000305 | 8.4 | 8.4 | 2001* | | 2000000 | ☐ Existing (unchanged) | ☑ To be Removed | 2 | |
| Boiler Burner | 7-99 | boller burner | ABCO | ZUDAINIC | 0070567 | MMBtu/hr | MMBtu/hr | | B2 | 30230003 | ☐ To Be Modified | □ Keplacement Unit □ To be Replaced | Y/N | |
| Boiler Burner TBD TBD TBD MANBBL/IN MANBBL | 6 00 | 20100 | Industry | 96 | 6807001 | 4.2 | 4.2 | 2001* | | 2000003 | ☐ Existing (unchanged) | ☑ To be Removed | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |
| Boiler Burner TBD TBD TBD G A A MARBLU/IT AMABLU/IT TBD B A B A SO 29003 District (Inchredigation) C To be Relationed Boiler Burner TBD TBD 3029003 TBD A MARBLU/IT TBD 3029003 TBD A MARBLU/IT N/A Boiler Burner TBD TBD 3029003 TBD A MARBLU/IT TBD 3029003 TBD A MARBLU/IT N/A Boiler Burner TBD TBD S O SOO TBD A MARBLU/IT TBD 3029003 TBD A MARBLU/IT N/A Boiler Burner TBD TBD S O SOO TBD A MARBLU/IT TBD A SO SOO TBD A MARBLU/IT N/A Boiler Burner TBD TBD A MARBLU/IT TBD B G SO SOO TBD A MARBLU/IT N/A A SO SOO TBD A MARBLU/IT TBD A SO SOO TBD A MARBLU/IT TBD A SO SOO TBD A MARBU/IT | 66-3 | Boller Burner | Combustion | อ | 1007089 | MMBtu/hr | MMBtu/hr | | B3 | 30230003 | □ New/Additional □ To Be Modified | □ Keplacement Unit □ To be Replaced | ¥/N | |
| Boiler Burner Cleaver Brooks CH-700 GF-700 GF-7 | BB-A | Boiler Burner | TBD | TRD | UBL | 6.4 | 6.4 | | - | 30290003 | ☐ Existing (unchanged) | ☐ To be Removed | ۷/۷ | |
| Boiler Burner Teb | 1 | | 2 | 2 | | MMBtu/hr | MMBtu/hr | 2010 | B4 | 305,306 | ☐ To Be Modified | ☑ To be Replaced | | |
| Packaging Line TBD | 7 00 | rogang rojiog | Sycor Brooks | CFH-700- | 160710050016031 | 7 | 2 | TBD | - | 30380003 | ☐ Existing (unchanged) | ☐ To be Removed | V/N | 7 00 |
| Boiler Burner TBD TBD MMBRu/hr MMBLu/hr TBD B5 3029003 Casting (unchanged) To be Removed TBD Casting (unchanged) TO be Removed TBD Casting (unchanged) TBD TBD Casting (unchanged) TBD Casting (unchanged) TBD Casting (unchanged) TBD Casting (unchanged) TD be Removed TD be Marging Casting (unchanged) TD be Removed TBD Casting (unchanged) TD be Removed TBD Casting (unchanged) TD be Marging Casting (unchanged) TD be Removed TBD Casting (unchanged) TD be Removed TD be Removed TBD Casting (unchanged) TD be Removed TD be | 1 | | Cleavel Diooks | 50-150ST | 2010100017001 | MMBtu/hr | MMBtu/hr | TBD | B4 | 305,306 | ☐ To Be Modified | ☐ To be Replaced | | 1 |
| Boiler Burner | | 200000000000000000000000000000000000000 | H | H | dar | 8.4 | 8.4 | TBD | - | 200000 | ☐ Existing (unchanged) | ☑ To be Removed | V/ N | |
| Boiler Burner Cleaver Brooks CFH700- 160211000010246 MANBLU/hr TIBD B66 3029003 CHAVING Inchinged To be Replacement Unit TIBD B66 CHAVING Inchinged To be Replacement Unit TIBD CHAVING Inchinged CHAVING Inchinged To be Replacement Unit TIBD CHAVING Inchinged CHAVING Inchinged To be Replacement Unit TIBD CHAVING Inchinged To be Replacement Unit The Replacement Unit TIBD CHAVING Inchinged To be Replacement Unit TO Be Replaced To be Replacement Unit The Replacement Unit | 68-5 | Boller Burner | IBU | IBD | IBD | MMBtu/hr | MMBtu/hr | TBD | B5 | 30290003 | □ New/Additional □ To Be Modified | ☐ Keplacement Unit ☐ To be Replaced | N/A | |
| Packaging Line | 9 00 | عصيتا عرازه و | 2/0020 20000 | CFH-700- | 9110100001111091 | 7 | 2 | TBD | - | 2000003 | ☐ Existing (unchanged) | ☐ To be Removed | V/N | |
| Packaging Line | 0-00 | ومالجا ومالالجا | Cleavel BLOOKS | 50-150ST | 100211000010240 | MMBtu/hr | MMBtu/hr | TBD | B6 | 20730003 | ☐ To Be Modified | ☐ To be Replaced | <u> </u> | |
| Packaging Line | Ragling-1 | edil paipedzed | , | , | - | 44/ 4I 000/ | 7000 lb/br | | 9#H8 | 30388888 | ☑ Existing (unchanged) | ☐ To be Removed | V/N | |
| Packaging Line | Dagille | ו מכוומפווופ בוווכ | | 1 | | 4000 lb/ lil | 11/21/2004 | 1999 | 9 | 3050000 | ☐ To Be Modified | ☐ To be Replaced | | |
| Three Finishing Blenders American Process Stop American Process Stop American Process Stop | Radina-2 | edil paipedzed | , | | - | 44/ 4I 000/ | 4000 lb/br | | 9#H8 | 30388888 | ☑ Existing (unchanged) | ☐ To be Removed | V/N | |
| Three Cooking Blenders American Process and AP Scott 545-9MS, 4885 24000 Lhr 2400 Lhr 24000 Lhr 24000 Lhr 24000 Lhr 24000 Lhr 24000 Lhr 24000 Lhr | Dagille | ו מכוומפווופ בוווכ | | 1 | | 4000 10/111 | 10000 | 1999 | 9 | 3053333 | ☐ To Be Modified | ☐ To be Replaced | | |
| Packaging Line Pack | C_BI | Three Cooking Blanders | American Process | | 588V SVVO-5V5 | 24000 | 24000 | 2001* | BH#4 | 30388888 | ☑ Existing (unchanged) | ☐ To be Removed | V/N | |
| Packaging Line | C-01 | rillee cookiiig pielideis | and AP Scott | 210, 2100 | 747-710, 4667 | lb/hr | lb/hr | 1991 | 4 | 3053333 | ☐ To Be Modified | ☐ To be Replaced | | |
| Process Dust Collection Kice Industries VS100-10 1472871 | Carton | Dackaging Line | | | , | 4000 lh/hr | 4000 lb/hr | | BH#6 | 30299998 | ☑ Existing (unchanged) | ☐ To be Removed | ۵/N | |
| Process Dust Collection Kice Industries VS100-10 1472871 2001* BH#8 3029998 Caritor (unchanged) To be Replacement Unit 100 Caritor (unchanged) To be Repl | Line | ר מכאמק ווק בוווכ | | ' | ı | 11/01 0004 | 11/01 0001 | 1999 | 9 | 3055556 | ☐ To Be Modified | ☐ To be Replaced | | |
| Process Dust Collection Nice Industries S100-10 810-840-492 - | DC-1 | acitallo) tand saeson | Kice Industries | VS100-10 | 1286211 | | | 2001* | BH#10 | 30388888 | ☑ Existing (unchanged) | ☐ To be Removed | V/N | |
| Process Dust Collection Kice Industries S100-10 S10-840-492 S S109998 | 1 | | | 2010 | 1,02,11 | | | | 10 | 00000000 | ☐ To Be Modified | ☐ To be Replaced | | |
| Packaging Line | <i>L</i> -2 | acitallo) tsii0 ssecord | Kice Industries | \$100-10 | 697-078-018 | | | 2001* | 8H#8 | 30299998 | ☑ Existing (unchanged) | ☐ To be Removed | ∇/N | |
| Packaging Line - - 4000 lb/hr | 7 | | | 010 | 201 010 | | | | 8 | 200000 | ☐ To Be Modified | ☐ To be Replaced | | |
| 1999 6 Caroling Blenders Caroling Blende | DrumLine | Packaging Line | 1 | | - | 4000 lh/hr | 4000 lh/hr | | 9#H8 | 30299998 | ☑ Existing (unchanged) ☐ New/Additional | ☐ To be Removed | ۷/N | |
| Packaging Line - - 4000 lb/hr | 1 | י מכועמפווופ בוווכ | | 1 | | 1000 10/111 | 11/21 2021 | 1999 | 9 | 3050000 | ☐ To Be Modified | ☐ To be Replaced | | |
| 1999 6 Company Com | DrumLine | Packaging Line | ' | , | , | 4000 lh/hr | 4000 lh/hr | | BH#6 | 30299998 | ☑ Existing (unchanged) | ☐ To be Removed | ∀ /N | |
| Three Finishing Blenders Shop Built - 2400 lb/hr 2400 l | 2 | 31119 21119 | | | | 111/211 0001 | 111/2110001 | 1999 | 9 | | ☐ To Be Modified | ☐ To be Replaced | | |
| 7 COCCOUNTING STORING STORING TO BE Modified | a. | Three Finishing Rlenders | Shop Ruilt | | , | 2400 lh/hr | 2400 lh/hr | 2001* | BH#7 | 3029998 | ☑ Existing (unchanged) | ☐ To be Removed | ∀/N | |
| | - | 5 | | 1 | | 11/01/01/11 | 11/21 0017 | | 7 | 0000 | ☐ To Be Modified | ☐ To be Replaced | | |

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Table 2-A: Regulated Emission Sources

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

| OIIIL AIIU SI | Office and stack named in grings correspond time of pincation packages. If applying | יייייייייייייייייייייייייייייייייייייי | יייייייייייייייייייייייייייייייייייייי | المحمد المحمد المالية | | 1 | | 50 | | | | | |
|---------------------|---|--|--|----------------------------|-----------------------------------|---|--|-------------------------|---------------------|---|-------------------------------------|--|----------|
| <u>:</u> | | | | | Manufact- urer's Rated | Requested Permitted | Date of Manufacture ² | Controlled by Unit # | in the second | | | RICE Ignition Type | 200 |
| Number ¹ | Source Description | Make | Model # | Serial # | Capacity ³ (Specify | Capacity ³ (Specify | Date of | Emissions | fication Code (SCC) | For Each Piece of Equipment, Check One | uipment, Check One | (CI, SI, 4SLB, 4SRB, 2SLB) ⁴ | Unit No. |
| | | | | | Units) | Units) | Construction/ Reconstruction ² | vented to Stack # | | | | | |
| 9 | Three Final | | | | 2400 lb/br | 2400 lb /br | 2001* | BH#5 | 900000000 | ☑ Existing (unchanged) | ☐ To be Removed | | |
| -115 | Cooker/Blender Hoppers | | | • | 2400 10/11 | | | 5 | 96666506 | ☐ To Be Modified | ☐ To be Replaced | W/W | |
| CB-1 | Dryer #1 Chile/ Vegetable | Proctor and | Packaged | NTCECN | 29.6 | 29.6 | 1985 | - | 3020003 | ☑ Existing (unchanged) | ☐ To be Removed | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | |
| T-GD | Dryer With 12 gas-ined burners | Schwartz | Dryer | N23274 | MMBtu/hr | MMBtu/hr | 1996 | 1A1 IO3, 1B1 1C1 | 50706706 | ☐ To Be Modified | ☐ To be Replaced | N/A | |
| , | Dryer #2 Chile/Vegetable | Proctor and | Packaged | בסחרני, | 24.6 | 24.6 | 1975 | , | ,0000 | ☑ Existing (unchanged) | ☐ To be Removed | < 12 | |
| 7-QD | Dryer With 10 gas-lired | Schwartz | Dryer | N22307 | MMBtu/hr | MMBtu/hr | 1998 | 2A1 TO 3, 2B1 | 50730003 | ☐ To Be Modified | ☐ To be Replaced | ¥ /N | |
| 1 | Mill No 1 (Broctor Mill) | Drotor | 76 7474 | 789169 | 75.00 lb/br | 7500 lb /br | 1996* | BH#1 | 30000000 | ☑ Existing (unchanged) | ☐ To be Removed | < N | |
| T-IAI | IVIIII NO. 1 (PLOCLOF IVIIII) | אומופו | 06-101101 | 700100 | 111/01 00c/ | | Aug-92 | 1 | 905666706 | ☐ To Be Modified | ☐ To be Replaced | Y/N | |
| 2 14 | (III) 3 (OB MIII) | Drotor | 7777 | , | 75.00 lb /br | 7500 lb /br | 1996* | BH#3 | 30000000 | ☑ Existing (unchanged) | ☐ To be Removed | < N | |
| 2 | (MIII) | בומנפו | 000 | 1 | 11/01 000 / | | Dec-94 | 3 | 96666706 | ☐ To Be Modified | ☐ To be Replaced | | |
| M-A | Mill No A (Figish Mill) | Ballermeister | Ė | | 8000 lb/hr | 8000 lh/hr | Sept 2005* | 9#H8 | 30299998 | ☑ Existing (unchanged) | ☐ To be Removed | V/N | |
| 1 | (| | 5 | | | | | 9 | 0000000 | ☐ To Be Modified | ☐ To be Replaced | | |
| 1 64 | (N C C C C C C C C C | 100 | Ė | 10080 | , 4/ 4I 0000 | 2 41 0000 | Sept 2005* | 9#H8 | 80000000 | ☑ Existing (unchanged) | ☐ To be Removed | V 14 | |
| C-IA | IVIIII INO. 3 (FIIIISII IVIIII) | panellieistei | 5 | 10000 | 111/01 0000 | 111/01 0000 | | 9 | 905666706 | ☐ To Be Modified | ☐ To be Replaced | Y/N | |
| M-6 | Mill No 6 (Finish Mill) | Ballermeister | L | , | 8000 lh/hr | 8000 lh/hr | Sept 2005* | 9#H8 | 30299998 | ☑ Existing (unchanged) | ☐ To be Removed | 4/2 | |
| 2 | (11111) | | 5 | | 11/01 0000 | | | 9 | 000000 | ☐ To Be Modified | ☐ To be Replaced | | |
| 7 7 | Mill No 7 (Eigisb Mill) | 2034000 | 17.0 | , | 2200 lb/br | 74/4I 0066 | Sept 2005* | 6#H8 | 800000000 | ☐ Existing (unchanged) | ☐ To be Removed | V/N | |
| /- / | (TIIII) | Jacobson | 7-/- | , | 220010/111 | | | 6 | 96666506 | ☐ To Be Modified | ☐ To be Replaced | W/N | |
| M-7 | Mill No 7 (Figish Mill) | Rallermeister | 11733 | 6982 | SOOO Ib/hr | 8000 lh/hr | | 9#H8 | 30299998 | ☐ Existing (unchanged) | ☐ To be Removed ☑ Replacement Unit | ٥/٧ | M-7 |
| , | (11112) (11111) | | 3 | 300 | 11/21/2020 | 111/211 2000 | | 9 | 00000000 | ☐ To Be Modified | ☐ To be Replaced | | , |
| M-8 | Mill No 8 (Cryo Mill) | Pulva Covagenic | C304 | | 2000 lb/br | 2000 lh/hr | 2006 | , | 30299998 | ☐ Existing (unchanged) | ☑ To be Removed | 4/2 | |
| 0-181 | (C) | r diva ci yogeilic | 1000 | | 111/01/0007 | 2000 10/111 | 2006 | CM | 10200000 | ☐ To Be Modified | ☐ To be Replaced | | |
| D_RI | Droctor Blander | , | | ı | 7500 lb/br | 74/4I 0052 | 1996 | BH#3 | 3030008 | ☑ Existing (unchanged) | ☐ To be Removed | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | |
| - | | | | | 11/21/2027 | | Aug-92 | 3 | 1 | ☐ To Be Modified | ☐ To be Replaced | | |
| CC_1 | Cteam Cterilizer | Betnlenem Corp. | 1P3018JT | S/N | 10 ton /hr | 10 ton/br | 1998 | BH#11 | 30300008 | ☑ Existing (unchanged) | ☐ To be Removed | Š | |
| - - - - | | Processor | O | | 11/10/01 | 10.001 | 2010 | 11 | 9050505 | ☐ To Be Modified | ☐ To be Replaced | | |
| <i>C</i> -55 | Steam Sterilizer | Ranhanel | RS2C | 16 | 10 ton/hr | 10 ton/hr | 2015 | 12A, 12B | 30299998 | ☐ Existing (unchanged) | ☐ To be Removed | ۸/N | |
| 2 | | | 2201 | 2 | 111/1103 07 | 110000 | 2015 | 12A, 12B | 1 | ☐ To Be Modified | ☑ To be Replaced | | |
| <i>C</i> -55 | Steam Sterilizer | Safastaril | TRD | TBD | 10 ton/hr | 10 ton/hr | TBD | | 30299998 | ☐ Existing (unchanged) | ☐ To be Removed ☑ Replacement Unit | ٥/٧ | 6-55 |
| 1 | | | 2 | | | | TBD | | | ☐ To Be Modified | ☐ To be Replaced | | 1 |
| Toteline | Packaging Line | , | | , | 4000 lh/hr | 4000 lh/hr | 1 | BH#5 | 30299998 | ☑ Existing (unchanged) ☐ New/Additional | ☐ To be Removed | ٥/٧ | |
| | 31112 9111351 | | | | 1000 | | 1999 | 2 | | ☐ To Be Modified | ☐ To be Replaced | | |
| SD1-4 | Folir Sped Dryers | Felinse Rurners | Shon Built | 4MM-2046-D10 | 2.0 | 2.0 | 1999 | , | 30290003 | ☐ Existing (unchanged) | ☑ To be Removed | ٥/٧ | |
| † 100 | בסמו ספבת הואפים | ברוואזע המווופות | טווטף טמוונ | 4 V V -4040-1010 | MMBtu/hr | MMBtu/hr MMBtu/hr | 1999 | SD-1&2 | 200000 | ☐ To Be Modified | ☐ To be Replaced | \(\frac{1}{2}\) | |
| ំ Unit number | Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table | ers in the previous pern | nit unless a co | mplete cross reference tat | le of all units in | of all units in both permits is provided. | s provided. | | | | | | Ì |

Form Revision: 5/3/2016

[†] 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, "25LB' means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition Specify dates required to determine regulatory applicability.

^{*} Reconstruction Date

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

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 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 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 (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/wpcontent/uploads/sites/2/2017/10/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

| init Mission | o in the state of | Manifordition | Model No. | Max Capacity | LIST SPECIFIC 20.2.72.202 INVIAC EXEMPTION (e.g. 20.2.72.202.B.5) | /Reconstruction ² | of the coole does not | Ear Early Diona of Equipment Phonb Ouc |
|--------------------------------------|---|----------------------------|------------|---------------------------|---|--|--|---|
| | | | Serial No. | Capacity Units | Insignificant Activity citation (e.g. IA List Item #1.a) | Date of Installation /Construction² | | diplicate, creek of |
| | | | J | √A - No insignifica | N/A - No insignificant or exempt activities | | | |
| | | | | | | | ☐ Existing (unchanged) | ☐ To be Removed |
| | | | | | | | ☐ To Be Modified | □ Replacement Unit□ To be Replaced |
| | | | | | | | | ☐ To be Removed |
| | | | | | | | □ New/Additional□ To Be Modified | ☐ Replacement Unit ☐ To be Replaced |
| | | | | | | | | ☐ To be Removed |
| | | | | | | | □ New/Additional□ To Be Modified | ☐ Replacement Unit☐ To be Replaced |
| | | | | | | | | ☐ To be Removed |
| | | | | | | | ☐ To Be Modified | ☐ To be Replaced |
| | | | | | | | | ☐ To be Removed |
| | | | | | | | □ New/Additional□ To Be Modified | ☐ Replacement Unit☐ To be Replaced |
| | | | | | | | | ☐ To be Removed |
| | | | | | | | □ New/Additional □ To Be Modified | ☐ Keplacement Unit☐ To be Replaced |
| | | | | | | | Existing (unchanged) | ☐ To be Removed |
| | | | | | | | □ New/Additional□ To Be Modified | □ Replacement Unit□ To be Replaced |
| | | | | | | | ☐ Existing (unchanged) | ☐ To be Removed |
| | | | | | | | | ☐ To be Replaced |
| | | | | | | | | ☐ To be Removed |
| | | | | | | | □ To Be Modified | ☐ To be Replaced |
| | | | | | | | | ☐ To be Removed |
| | | | | | | | □ New/Additional□ To Be Modified | ☐ Replacement Unit☐ To be Replaced |
| | | | | | | | | ☐ To be Removed |
| | | | | | | | □ New/Additional□ To Be Modified | ☐ Replacement Unit☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged) | ☐ To be Removed |
| | | | | | | | ☐ New/Additional | ☐ Replacement Unit |
| ¹ Insignificant activit | Insignificant activities exempted due to size or production rate are defined in 20.2.70.300.D | ר rate are defined in 20.2 | | I Q NMAC, and the NMEI | 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 | mber 15, 2008. Emissi | ons from these insignificant ac | tivities do not need to be |
| hotzonya vilczitioog szolan hotzonor | | | | | 0 | | 0 | |

 $^{^{\}rm 2}$ Specify date(s) required to determine regulatory applicability.

OLAM West Coast, Inc.

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 | Control Equipment Description | Date | Controlled Pollutant(s) | Controlling Emissions for Unit | Efficiency (% Control by | Method used to |
|----------------------------|--|-----------------|--|--|-----------------------------|-----------------------------------|
| Unit No. | Dochorus H / Vise) | | NA DAM DAM | | Weight) | From manufacturer test |
| T#LIQ | pdgilouse # 1 (Nice) | | rivi, rivi <u>1</u> 0, rivi <u>2.5</u> | т-IЛ | 99.970 | results |
| ВН#3 | Baghouse #3 (MikroPul) | | PM, PM ₁₀ , PM _{2.5} | M-3, P-BL | 99.9% | From manufacturer test results |
| BH#4 | Baghouse #4 (Kice) | | PM, PM ₁₀ , PM _{2.5} | C-BL | %6.66 | From manufacturer test results |
| BH#5 | Baghouse #5 (Kice) | | PM, PM ₁₀ , PM _{2.5} | Tote Line, F-HP | %6.66 | From manufacturer test results |
| 9#Н8 | Baghouse #6 (Kice) | | PM, PM ₁₀ , PM _{2.5} | M-4, M-5, M-6, M-7, Bag Line 1 & 2, Carton Line, Drum Line 1 & 2 | %6.66 | From manufacturer test results |
| BH#7 | Baghouse #7 (Kice) | | PM, PM ₁₀ , PM _{2.5} | F-BL | %6.66 | From manufacturer test results |
| 8#H8 | Baghouse #8 (CHUBB Engineering of Kasas, Camcorp) | | PM, PM ₁₀ , PM _{2.5} | DC-2 | %6'66 | From manufacturer test results |
| BH#10 | Baghouse #10 (Farr) | | PM, PM10 , PM2.5 | DC-1 | %6.66 | From manufacturer test results |
| BH#11 | Baghouse #11 (TBD) | | PM, PM10 , PM2.5 | SS-1 | %6.66 | From manufacturer test results |
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| ¹ List each cor | ¹ List each control device on a separate line. For each control device, list all emission units controlled by the control device. | nission units c | ontrolled by the control device. | | | |

January 2025; Revision #0 OLAM Spices and Vegetables Ingredients OLAM West Coast, Inc.

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

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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 2-1. 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). Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reducing process.

| BB-1 0.60 BB-4 0.20 BB-6 0.20 | hr ton/vr | r lh/hr | - | | | | | | | | | | | | | | |
|--|-----------|------------|--------|-------|--------|-------|--------|---------|------------------------|--------|---------|----------|--------|-------|---|-------|--------|
| | ┪ | 4 | 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 |
| | 50 2.63 | 0.50 | 2.21 | 0.033 | 0.14 | 0.034 | 0.15 | 0.046 | 0.20 | 0.046 | 0.20 | 0.046 | 0.20 | - | - | - | 1 |
| | 20 0.86 | 0.16 | 0.72 | 0.011 | 0.047 | 0.011 | 0.049 | 0.015 | 0.065 | 0.015 | 0.065 | 0.015 | 0.065 | - | - | - | - |
| | 20 0.86 | 0.16 | 0.72 | 0.011 | 0.047 | 0.011 | 0.049 | 0.015 | 0.065 | 0.015 | 0.065 | 0.015 | 0.065 | - | - | - | 1 |
| BagLine-1 | | - | - | - | 1 | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | - |
| BagLine-2 | | - | - | - | - | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | 1 |
| - C-BL | | - | - | - | 1 | - | - | 151.20 | 662.26 | 68.04 | 298.02 | 17.01 | 74.50 | - | - | - | - |
| Carton Line | | - | - | - | - | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | 1 |
| DC-1 | 1 | 1 | - | - | - | - | - | 2.21 | 99.6 | 66.0 | 4.35 | 0.25 | 1.09 | - | - | - | - |
| DC-2 | | - | - | - | - | - | - | 64.80 | 283.82 | 29.16 | 127.72 | 7.29 | 31.93 | - | - | - | ı |
| DrumLine-1 | | - | - | - | 1 | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | - |
| DrumLine-2 | | - | - | - | - | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | 1 |
| F-BL - | | - | - | - | 1 | - | - | 64.80 | 283.82 | 29.16 | 127.72 | 7.29 | 31.93 | - | - | - | - |
| F-HP | | - | - | - | - | - | - | 64.80 | 283.82 | 29.16 | 127.72 | 7.29 | 31.93 | - | - | - | 1 |
| GB-1 2.90 | 90 12.71 | 2.44 | 10.68 | 0.16 | 0.70 | 0.17 | 0.73 | 0.22 | 0.97 | 0.22 | 0.97 | 0.22 | 0.97 | - | - | - | - |
| GB-2 2.41 | 10.56 | 5 2.03 | 8.87 | 0.13 | 0.58 | 0.14 | 09.0 | 0.18 | 0.80 | 0.18 | 08.0 | 0.18 | 0.80 | 1 | 1 | - | ı |
| M-1 | | - | - | - | 1 | 1 | - | 20.25 | 88.70 | 9.11 | 39.91 | 2.28 | 9.98 | - | - | 1 | 1 |
| M-3 | | - | - | - | 1 | 1 | - | 40.50 | 177.39 | 18.23 | 79.83 | 4.56 | 19.96 | 1 | - | , | ı |
| M-4 | - | - | - | - | - | - | - | 21.60 | 94.61 | 9.72 | 42.57 | 2.43 | 10.64 | - | - | - | - |
| M-5 | | - | - | - | 1 | 1 | - | 21.60 | 94.61 | 9.72 | 42.57 | 2.43 | 10.64 | 1 | 1 | 1 | 1 |
| - M-6 | | • | - | 1 | ı | - | - | 21.60 | 94.61 | 9.72 | 42.57 | 2.43 | 10.64 | 1 | 1 | 1 | 1 |
| M-7 | | • | - | 1 | 1 | ı | | 43.20 | 94.63 | 19.44 | 43.02 | 4.86 | 10.89 | 1 | , | , | 1 |
| - b-BL | | - | - | - | 1 | 1 | - | 20.25 | 88.70 | 9.11 | 39.91 | 2.28 | 9.98 | - | - | 1 | 1 |
| SS-1 - | - | - | - | - | - | - | - | 432.00 | 1892.16 | 194.40 | 851.47 | 48.60 | 212.87 | - | - | - | 1 |
| - SS-2 | 1 | 1 | - | - | - | - | - | 108.00 | 473.04 | 48.60 | 212.87 | 12.15 | 53.22 | - | - | - | - |
| Tote Line | | - | - | 1 | 1 | 1 | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | 1 | 1 |
| | | | | | | | | | | | | | | | | | |
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| | | 4 | | | | | | | | | | | | | | | |
| Totals 6.31 27.62 5.30 23.20 0.35 | 31 27.62 | 5.30 | 23.20 | 0.35 | 1.52 | 0.36 | 1.58 | 1077.50 | 1077.50 4624.86 485.14 | 485.14 | 2082.78 | 121.64 | 522.41 | | 1.52 0.36 1.58 1077.50 4624.86 485.14 2082.78 121.64 522.41 | | |

^{*}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).

Printed 12/19/2024 10:39 AM Table 2-D: Page 1 Form Revision: 6/14/2019

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).

| | N | NOX | Ŏ | 00 | VOC | ၁င | SOx | × | PM ¹ | η ¹ | PM101 | 10 ¹ | PM. | PM2.5 ¹ | H ² | H ₂ S | Le | Lead |
|-------------|-------|--------|-------|--------|-------|--------|-------|--------|-----------------|----------------|----------|-------------------|----------|--------------------|----------------|------------------|-------|--------|
| Unit No. | 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 |
| BB-1 | 09:0 | 2.63 | 0.50 | 2.21 | 0.033 | 0.14 | 0.034 | 0.15 | 0.046 | 0.20 | 0.046 | 0.20 | 0.046 | 0.20 | - | - | - | - |
| BB-4 | 0.20 | 0.86 | 0.16 | 0.72 | 0.011 | 0.047 | 0.011 | 0.049 | 0.015 | 0.065 | 0.015 | 0.065 | 0.015 | 0.065 | - | - | - | - |
| BB-6 | 0.20 | 0.86 | 0.16 | 0.72 | 0.011 | 0.047 | 0.011 | 0.049 | 0.015 | 0.065 | 0.015 | 0.065 | 0.015 | 0.065 | - | 1 | - | 1 |
| BagLine-1 | - | - | - | - | - | - | ı | 1 | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | 1 |
| BagLine-2 | - | - | - | - | - | - | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | - |
| C-BL | - | - | - | - | - | - | 1 | - | 0.15 | 99.0 | 0.068 | 0:30 | 0.017 | 0.075 | - | - | - | - |
| Carton Line | - | - | - | - | - | - | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | - |
| DC-1 | - | - | - | - | - | - | 1 | - | 2.21E-03 | 9.66E-03 | 9.92E-04 | 4.35E-03 | 2.48E-04 | 1.09E-03 | - | - | - | - |
| DC-2 | , | , | - | , | ı | ı | , | , | 0.065 | 0.28 | 0.029 | 0.13 | 7.29E-03 | 0.032 | , | , | - | , |
| DrumLine-1 | - | - | - | - | - | - | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | - |
| DrumLine-2 | - | - | - | - | - | - | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | - |
| F-BL | - | - | - | - | - | - | - | - | 0.065 | 0.28 | 0.029 | 0.13 | 7.29E-03 | 0.032 | - | - | - | - |
| F-HP | - | - | - | - | - | 1 | 1 | 1 | 0.065 | 0.28 | 0.029 | 0.13 | 7.29E-03 | 0.032 | - | - | - | - |
| GB-1 | 2.90 | 12.71 | 2.44 | 10.68 | 0.16 | 0.70 | 0.17 | 0.73 | 0.22 | 0.97 | 0.22 | 0.97 | 0.22 | 0.97 | - | 1 | - | 1 |
| GB-2 | 2.41 | 10.56 | 2.03 | 8.87 | 0.13 | 0.58 | 0.14 | 09:0 | 0.18 | 0.80 | 0.18 | 0.80 | 0.18 | 0.80 | - | - | - | - |
| M-1 | - | - | - | - | - | - | - | - | 0.020 | 0.089 | 9.11E-03 | 0.040 | 2.28E-03 | 9.98E-03 | - | - | - | - |
| M-3 | - | - | - | - | - | 1 | - | - | 0.041 | 0.18 | 0.018 | 080.0 | 4.56E-03 | 0.020 | - | - | - | - |
| M-4 | - | - | - | - | - | - | ı | 1 | 0.022 | 0.095 | 9.72E-03 | 0.043 | 2.43E-03 | 0.011 | - | - | - | 1 |
| M-5 | - | - | - | - | - | 1 | 1 | 1 | 0.022 | 0.095 | 9.72E-03 | 0.043 | 2.43E-03 | 0.011 | - | - | - | - |
| 9-W | - | - | - | - | - | - | 1 | - | 0.022 | 0.095 | 9.72E-03 | 0.043 | 2.43E-03 | 0.011 | - | - | - | 1 |
| M-7 | - | 1 | - | 1 | - | - | 1 | - | 0.043 | 0.17 | 0.019 | 0.078 | 4.86E-03 | 0.019 | - | 1 | - | 1 |
| P-BL | - | - | - | - | - | - | ı | - | 0.020 | 0.089 | 9.11E-03 | 0.040 | 2.28E-03 | 9.98E-03 | - | - | - | - |
| SS-1 | - | - | - | - | - | - | - | 1 | 0.13 | 0.55 | 0.057 | 0.25 | 0.014 | 0.062 | - | - | - | - |
| SS-2 | - | - | - | - | - | - | ı | - | 0.032 | 0.14 | 0.014 | 0.062 | 3.54E-03 | 0.016 | - | - | - | 1 |
| Tote Line | - | - | - | - | - | - | - | - | 0.036 | 0.16 | 0.016 | 0.071 | 4.05E-03 | 0.018 | - | - | - | - |
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| Totals | 6.31 | 27.62 | 5.30 | 23.20 | 0.35 | 1.52 | 0.36 | 1.58 | 1.39 | 6.07 | 0.89 | 3.89 | 0.58 | 2.55 | ٠ | ٠ | | |
| | | | | | : | | | | | and the same | | The second second | | 44 - 1 - 1 - 1 - 1 | 6 40 3 | | | 0 |

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

Printed 12/19/2024 10:39 AM Table 2-E: Page 1 Form Revision: 6/14/2019

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

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 🗈 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 (SSM) in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

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 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 emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications

| | NOX | Ũ | co | VOC | ړ | SOx | J | PM² | - | PM10 ² | ·10 ² | PM2.5 ² | 2.5 | H ₂ S | S. | Lead | q |
|--------|-----------|-------|--------|-------|--------|-------|--------|-------|--------|-------------------|------------------|--------------------|--------|------------------|--------|-------|--------|
| lb/hr | 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 |
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| Totals | | | | | | | | | | | | | | | | | |

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

Printed 12/19/2024 10:39 AM Table 2-F: Page 1 Form Revision: 6/14/2019

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

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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 2-1. 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.

| | L | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|-----------|-------|-----------------|---|----------|----------|----------|----------|----------------|---------------------------|--|-------------------------|----------------------------------|----------------|---------------------------|---------------------------|---|--|---------|
| r 🗌 ead | ton/yr | ' | - | - | ' | - | - | - | - | - | - | 1 | - | 1 | 1 | 1 | 1 | 1 | | |
| ☐ H ₂ S or | lb/hr | | | | - | | | | | | | | - | | | | | | | |
| 2.5 | ton/yr | 0:030 | 0.075 | 0.050 | 0.14 | 0.032 | 0.032 | 8.87E-03 | 8.87E-03 | 0.17 | 0.23 | 0.35 | 0.13 | 0.08 | 0.29 | 0.18 | 0.16 | 0.17 | | 2.15 |
| PM _{2.5} | lb/hr | 6.83E-03 | 0.017 | 0.011 | 0.032 | 7.29E-03 | 7.29E-03 | 1.77E-03 | 1.77E-03 | 0.039 | 0.054 | 0.080 | 0.030 | 0.018 | 0.067 | 0.042 | 0.036 | 0.039 | | 0.49 |
| 10 | ton/yr | 0.12 | 0:30 | 0.20 | 0.56 | 0.13 | 0.13 | 0.035 | 0.035 | 0.17 | 0.23 | 0.35 | 0.13 | 0.078 | 0.29 | 0.18 | 0.16 | 0.17 | | 3.08 |
| PM ₁₀ | lb/hr | 0.027 | 0.068 | 0.045 | 0.13 | 0.029 | 0.029 | 7.09E-03 | 7.09E-03 | 0.039 | 0.054 | 0.080 | 0:030 | 0.018 | 0.067 | 0.042 | 0.036 | 0.039 | | 0.75 |
| V | ton/yr | 0.27 | 99.0 | 0.44 | 1.25 | 0.28 | 0.28 | 0.079 | 0.079 | 0.17 | 0.23 | 0.35 | 0.13 | 0.078 | 0.29 | 0.18 | 0.16 | 0.17 | | 4.60 |
| PM | lb/hr | 0.061 | 0.15 | 0.10 | 0.29 | 0.065 | 0.065 | 0.016 | 0.016 | 0.039 | 0.054 | 0.080 | 0:030 | 0.018 | 0.067 | 0.042 | 0.036 | 0.039 | | 1.17 |
| × | ton/yr | | - | - | - | - | - | - | - | 0.013 | 0.019 | 0.03 | 0.010 | 6.00E-03 | 0.023 | 0.014 | 0.012 | 0.013 | | 0.14 |
| SO _x | lb/hr | | 1 | - | - | | | - | - | 3.10E-03 | 4.20E-03 | 6.40E-03 | 2.40E-03 | 1.40E-03 | 5.30E-03 | 3.30E-03 | 2.80E-03 | 3.10E-03 | | 0.03 |
| voc | ton/yr | | | - | - | | | - | | 0.12 | 0.17 | 0.26 | 0.090 | 0.057 | 0.21 | 0.13 | 0.11 | 0.12 | | 1.33 |
| ۸ | ıp/hr | | - | - | - | - | - | - | - | 0.028 | 0:039 | 0.058 | 0.022 | 0.013 | 0.049 | 0:030 | 0.026 | 0.028 | | 0.29 |
| co | ton/yr | , | - | - | - | - | - | - | | 1.88 | 2.60 | 3.90 | 1.44 | 0.87 | 3.25 | 2.02 | 1.73 | 1.88 | | 20.31 |
| 5 | lb/hr | | - | - | - | - | - | - | | 0.43 | 0.59 | 0.89 | 0.33 | 0.20 | 0.74 | 0.46 | 0.40 | 0.43 | | 4.47 |
| NO _x | ton/yr | - | - | - | - | - | - | - | - | 2.23 | 3.09 | 4.64 | 1.72 | 1.03 | 3.86 | 2.40 | 2.06 | 2.23 | | 24.13 |
| ž | lb/hr | | - | - | - | - | - | - | | 0.51 | 0.71 | 1.06 | 0.39 | 0.24 | 0.88 | 0.55 | 0.47 | 0.51 | | 5.32 |
| Serving Unit Number(s) from Table | 2-A | M-3, P-BL | C-BL | Tote Line, F-HP | M-4, M-5, M-6, M-7, Bag Lines (2), Carton Line, Drum Lines (2) | F-BL | DC-2 | SS-2 | SS-2 | GB-1 (GB 1A-1) | GB-1 (GB 1A-2A, GB 1A-2B) | GB-1 (GB 1A-3A, GB 1A-3B, GB 1A-4, GB 1A-5) | GB-1 (GB 1B-1, GB 1B-2) | GB-1 (GB 1C-1, GB 1C-2, GB 1C-3) | GB-2 (GB 2A-1) | GB-2 (GB 2A-2A, GB 2A-2B) | GB-2 (GB 2A-3A, GB 2A-3B) | GB-2 (GB 2B-1, GB 2B-2, GB 2C-1, GB 2C-2, GB 2C-3) | | Totals: |
| : | Stack No. | Э | 4 | 2 | 9 | 7 | 8 | 12A | 12B | 1A1 | 1A2 | 1A3 | 181 | 1C1 | 2A1 | 2A2 | 2A3 | 281 | | |

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 | Serving Unit Number(s) from | Orientation (H | Rain Caps | Height Above | Temp. | Flow | Flow Rate | Moisture by | Velocity | Inside |
|--------|--|---------------------------|-------------|--------------|-------|--------|-----------|---------------|----------|---------------|
| Number | Table 2-A | Horizontal V=Vertical) | (Yes or No) | Ground (ft) | (F) | (acfs) | (dscfs) | Volume (%) | (ft/sec) | Diameter (ft) |
| B1 | BB-1 | ^ | Z | 24 | 900 | 73 | 28 | 0 | 52.34 | 1.33 |
| B4 | BB-4 | ۸ | Z | 24 | 600 | 24 | 6 | 0 | 43.76 | 0.83 |
| 98 | BB-6 | ^ | Z | 25.00 | 900 | 24 | 6 | 0 | 43.76 | 0.83 |
| 1 | M-1 | ۸ | Z | 31 | 75 | 640 | 640 | N/A | 3.16 | 2.25 x 1.5 |
| 3 | M-3, P-BL | ^ | Z | 15 | 75 | 640 | 640 | N/A | 15.48 | 0.83 x 0.83 |
| 4 | C-BL | ۸ | Z | 30 | 75 | 640 | 940 | N/A | 3.56 | 3.00 x 1.00 |
| 2 | Tote Line, F-HP | ^ | Z | 27 | 75 | 640 | 640 | N/A | 3.56 | 3.00 x 1.00 |
| 9 | M-4, M-5, M-6, Bag Lines (2), Carton Line, Drum Lines (2) | ^ | N | 56 | 75 | 640 | 640 | N/A | 7.11 | 1.50 × 1.00 |
| 7 | F-BL | ^ | Z | 27 | 75 | 640 | 640 | N/A | 13.58 | 1.00 |
| 8 | DC-2 | ^ | Z | 30 | 75 | 640 | 640 | N/A | 0.67 | 4.00 x 4.00 |
| 10 | DC-1 | ^ | Z | 27 | 75 | 640 | 640 | N/A | 1.6 | 3.33 x 2.00 |
| 11 | SS-1 | ۸ | Z | 30 | 75 | 640 | 640 | N/A | 0.67 | 4.00 x 4.00 |
| 12A | SS-2 | ^ | N | 24 | 75 | 640 | 640 | N/A | 19.44 | 2.61 |
| 12B | SS-2 | ۸ | Z | 24 | 75 | 640.0 | 640.0 | N/A | 19.44 | 2.61 |
| 1A1 | GB-1 (GB 1A-1) | ^ | Z | 56 | 240 | 5027 | 2057 | N/A | 15.69 | 2.67 x 2.00 |
| 1A2 | GB-1 (GB 1A-2A, GB 1A-2B) | ^ | Z | 56 | 240 | 7967 | 7967 | N/A | 24.85 | 2.67 × 2.00 |
| 1A3 | GB-1 (GB 1A-3A, GB 1A-3B, GB 1A-4. GB 1A-5) | ^ | Z | 56 | 240 | 17532 | 17532 | N/A | 54.72 | 2.67 x 2.00 |
| 181 | GB-1 (GB 1B-1, GB 1B-2) | > | z | 24 | 150 | 4464 | 4464 | N/A | 18.24 | 2.33 x 1.75 |
| 1C1 | GB-1 (GB 1C-1, GB 1C-2, GB 1C- 3) | ^ | Z | 24 | 240 | 23938 | 23938 | N/A | 8.16 | 3.00 x 2.00 |
| 2A1 | GB-2 (GB 2A-1) | > | Z | 26 | 240 | 3950 | 3950 | N/A | 769.65 | 0.33 |
| 2A2 | GB-2 (GB 2A-2A, GB 2A-2B) | > | Z | 24 | 240 | 2906 | 2906 | N/A | 28.3 | 2.67 × 2.00 |
| 2A3 | GB-2 (GB 2A-3A, GB 2A-3B) | > | z | 24 | 240 | 6228 | 6228 | N/A | 19.44 | 2.67 × 2.00 |
| 281 | GB-2 (GB 2B-1, GB 2B-2, GB 2C- 1. GB 2C-2. GB 2C-3) | ^ | Z | 24 | 160 | 3079 | 3079 | N/A | 10.79 | 3.17 x 1.50 |

Table 2-1: 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 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 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 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 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 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 the pollutant is emitted in a quantity less than the threshold amounts described above.

| H | | | | Provide Pollutant | ollistant | Provide Pollutant Drovide Pollutant | - Hittant | Provide Pollutant | lintant | Provide Pollutant | ollistant | Provide Pollutant | allutant | Provide Pollutant | Hitant | Provide Pollutant | - Intant | Provide Pollutant | llitant |
|-----------------------|-----------------------|------------|--------|-----------------------|-----------|-------------------------------------|-----------|-----------------------|---------|-----------------------|-----------|-------------------|----------|-------------------|--------|-------------------|----------|-----------------------|---------|
| _ | Stack No. Unit No.(s) | Total HAPs | HAPs | Name Here HAP or TAP | Here | Name | | Name Here HAP or TAP | Here | Name Here HAP or TAP | | Name Here | | Name Here | Here | Name Here | Here | Name Here HAP or TAP | Here |
| | | 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 |
| ш | BB-1 | 0.011 | 0.049 | | | | | | | | | | | | | | | | |
| | BB-4 | 3.69E-03 | 0.016 | | | | | | | | | | | | | | | | |
| | BB-6 | 3.69E-03 | 0.016 | | | | | | | | | | | | | | | | |
| 1A1 TO 3, 1B1, 1C1 | GB-1 | 0.055 | 0.24 | | | | | | | | | | | | | | | | |
| 2A1 TO 3, 2B1 | GB-2 | 0.045 | 0.20 | | | | | | | | | | | | | | | | |
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| Totals: | S: | 0.12 | 0.52 | | | | | | | | | | | | | | | | |

Table 2-J: Fuel

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

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. 5CC Code Material Name Composition Liquid Molicular True Vapor (In/gal) Liquid Molicular Liquid Molicular True Vapor (In/gal) Liquid Molicular True Vapor (In/gal) Liquid Molicular True Vapor (In/gal) Liquid Molicular Liquid | | | | | | Vanor | Average Stora | Average Storage Conditions | Max Storag | Max Storage Conditions |
|---|---|----------|---------------|-------------|-------------------------------|-------|---------------------|----------------------------|---------------------|-------------------------------|
| N/A- NO Tanks | | scc code | Material Name | Composition | Liquid Density (lb/gal) | | Temperature (°F) | | Temperature (°F) | True Vapor Pressure (psia) |
| | 1 | | | N/A- No Ta | anks | | | | | |
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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 2-12. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

| Tank No. | Date Installed | Materials Stored | Seal Type Roof Type (refer to Table 2- | Roof Type (refer to Table 2- | | Capacity | Diameter | Vapor Space | Color (from Table VI-C) | | Paint Condition | Annual Throughput | Turn- overs |
|----------|-------------------------|------------------|--|---------------------------------|-------|--------------------|----------|-------------|-----------------------------------|-------|--------------------|-----------------------------|----------------|
| | | | LR below) | LR below) | (lqq) | (M³) | | | Roof | Shell | C) | | (per year) |
| | | | | | Z | N/A - No Tanks | | | | | | • | |
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Table 2-L2: Liquid Storage Tank Data Codes Reference Table

| | seal Type, were | Seal Type, Welded Tank Seal Type | Seal Type, Rivet | Seal Type, Riveted Tank Seal Type | Roof, Shell Color | Condition |
|--|----------------------|----------------------------------|------------------------------|-----------------------------------|-------------------------|-----------|
| FX: Fixed Roof Mechanica | 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

OT: Other (specify)

BL: Black

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

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

| | Materi | Material Processed | | | Material Produced | | |
|-----------------|----------------------------------|----------------------------------|--------------------------|--------------|-------------------------|-------|-----------------------------|
| Description | Chemical Composition | Phase (Gas, Liquid, or Solid) | Quantity (specify units) | Description | Chemical Composition | Phase | Quantity (specify units) |
| Chili Peppers | Carbohydrates, fats, carotenoids | Solid | 17,560 tons | Chili Powder | Mixed | Solid | 7,500 tons |
| Vegetable Oil | Carbohydrates, fats | Liquid | 700,000 gal | Chili Pepper | Mixed | Solid | 5,500 tons |
| Silicon Dioxide | Silicon Dioxide | Solid | 465 tons | Paprika | Mixed | Solid | 5,500 tons |
| Cumin | Proteins, carbohydrates, fats | Solid | 587 tons | Red Pepper | Mixed | Solid | 1,500 tons |
| Garlic Powder | Amino Acids | Solid | 92 tons | | | | |
| Oregano | Carbohydrates, fats | Solid | 383 tons | | | | |
| Salt | Sodium Chloride | Solid | 323 tons | | | | |
| Dextrose | Carbohydrates | Solid | 241 tons | | | | |
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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

| | Accuracy | | | | | | | | | | | |
|---|---------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| 0 | Sensitivity | | | | | | | | | | | |
| | Range | | | | | | | | | | | |
| | Averaging Time | | | | | | | | | | | |
| | Sample Frequency | | | | | | | | | | | |
| | Serial No. | N/A- No CEM equipment | | | | | | | | | | |
| | Model No. | N/A- No | | | | | | | | | | |
| al sheets if necessary. | Manufacturer | | | | | | | | | | | |
| throughout the application package. Use additional sheets if necessary. | Pollutant(s) | | | | | | | | | | | |
| throughout the appl | Stack No. | | | | | | | | | | | |

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Table 2-0: 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 |
|------------|------------------------------|-------------------------|---------------------|--|-----------------------------|--------------------------|-----------------------------|-------------------|
| | | N/A- No Para | metric Emissions Me | N/A- No Parametric Emissions Measurement Equipment | | | | |
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Table 2-P: Greenhouse Gas Emissions

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 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 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. combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box.

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

| 2) 2.11 | 0,,,,, | | | | | | | | ľ | | ľ | | - | | |
|-------------|-------------------|---|----------------------------|-----------------|---------------------------|------------------------------------|-------------------|----------------|------------------------|------|---|---|---|---|---|
| | | CO ₂ ton/yr | N ₂ O ton/yr | CH ₄ | SF ₆ ton/yr | PFC/HFC ton/yr ² | | | | | | | | Total GHG Mass Basis ton/yr ⁴ | Total CO₂e ton/yr ⁵ |
| Unit No. | GWPs 1 | 1 | 298 | 25 | 22,800 | footnote 3 | | | | | | | | | |
| | mass GHG | | | | | | | N -0/ N | N/A- Not Major for GHG | טאט | | | | | |
| | CO ₂ e | | | | | | | N -W/N | וטר ואומןטו וטו | פווס | | | | | |
| | mass GHG | | | | | | | | | | | | | | |
| | CO ₂ e | | | | | | | | | | | | | | |
| | mass GHG | | | | | | | | | | | | | | |
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| | mass GHG | | | | | | | | | | | | | | |
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| | mass GHG | | | | | | | | | | | | | | |
| | CO ₂ e | | | | | | | | | | | | | | |
| | mass GHG | | | | | | | | | | | | | | |
| | C02e | | | | | | | | | | | | | | |
| Total | mass GHG | | | | | | | | | | | | | | |
| l Otal | CO_2e | | | | | | | | | | | | | | |
| 1 GWD /Glob | 11 Warming Dr | 1 GMD (Global Warming Detaction). Analizant must rure the most rurrant GWDs codified in Table A.1 of AA (FER nar 40) GWDs are subject to change therefore analizants need to check AA (FER 98 to confirm GWD values | + 0311 +31100 +400 | L - mont ourse | Gilboo of Mo | Toble A 1 c. | 5 4 7 CEB 22x+ OC | dire one of MY | anda of t! | | | i | | | |

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

² For HFCs or PFCs describe the specific HFC or PFC compound and use a separate column for each individual compound.
³ For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

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

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

Section 3

Application Summary

The <u>Application Summary</u> 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, debottlenecking 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.

<u>Startup, Shutdown, and Maintenance (SSM)</u> 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.

OLAM West Coast, Inc. (OLAM) is submitting this application for a significant revision of its Olam Spices and Vegetables Ingredients facility. The facility is currently operating under NSR Air Permit 1744M3R2, issued on 08/08/2011. The requested modification described below is consistent with 20.2.72.219.D.(1) NMAC of the New Mexico Administrative Code (NMAC). This significant revision is subject to air dispersion modeling.

Proposed Changes from the Original Permit

OLAM is submitting this application for the following changes from NSR Air Permit 1744M3R2:

- Authorization to install a new boiler BB-6 (2.0 MMBTU/h);
- The replacement of boiler BB-1 (8.4 MMBTU/h) with a 6.1 MMBTU/h unit;
- The replacement of boiler BB-4 (6.4 MMBTU/h) with a 2.0 MMBTU/h unit;
- The replacement of finish mill M-7 and steam sterilizer SS-2;
- The removal of cryo mill M-8 and the four seed dryers SD1-4 (2.0 MMBTU/h); and
- The removal of boilers BB-2 (8.4 MMBTU/h), BB-3 (4.2 MMBTU/h), and BB-5 (8.4 MMBTU/h).

Process Summary

The OLAM facility has three main processes to manufacture spice and vegetable bulk materials. The processes are:

- 1. The Proctor Mill
- 2. The Other Producers (OP) Units
- 3. The Blending, Cooking, and Packaging Units

1. The Proctor Mill

The Proctor Mill receives chile, spices, and vegetables (raw spices) at a rate of 7500 lb/h. The raw spices are stripped of wet all trash, stems, and seeds by the Wet End Unit. The process divides the spices into two streams that enter Proctor 1 and Proctor 2 for indirect heat drying. Proctor 1 and Proctor 2 receive heat from the GB-1 and GB-2 natural gas heaters. The spices exiting the Proctors enter the Proctor Mill #1 (M-1) for comminution. Cyclone PR-01 and Baghouse #1 control any particulate matter generated by Proctor Mill 1. The Proctor Blender (P-BL) receives the milled spices from the Proctor Mill for proper classification. Cyclone PR-02 and Baghouse #3 (P-BL) control any particulate matter generated by the Proctor Blender. The milled and mixed spices leave the Proctor Unit by pneumatic conveyance for storage at the Work in Progress (WIP) Warehouse.

2. The Other Producers (OP) Units

OLAM receives raw spices from regional and national producers for processing at its Las Cruces plant. The OP Units consist of: The OP Mill #3. OP Mill #3 receives raw spices at a rate of 7500 lb/h for comminution. Cyclones OP-02, OP-03, and OP-04 move the milled spices within OP Mill 3 to control the spice sieve size and control any particulate matter generated by the mill with the help of Baghouse #3 (M-3). The milled and well-mixed spices leave the OP Mill #3 by pneumatic conveyance for storage at the Work in Progress (WIP) Warehouse.

3. The Blending, Cooking, and Packaging Units

The Blending, Cooking, and Packaging Unit is the most complicated of the processes at OLAM. The OLAM plant produces a high number variety of final product spices by the blending of individual spices stored in the Work-in-Progress (WIP) warehouse. OLAM SVI keeps the composition and percentage of spices in the different final products as confidential and proprietary information.

a. Cooking Blenders No.1 to No.3

OLAM sends 24000 lb/h of a combination of spices to the Cooking Blenders No. 1 to No.3 (C-BL). The Cooking Blenders use Cyclones CB-01 to CB-04 for classification, mixing, and greater consistency in cooking of the spices. The cyclones also capture any particulate matter generated by the blender for control of dust with the assistance of Baghouse #4 (Stack C-BL).

b. Cooking Blender Hoopers No. 1 to No. 3

The Cooking Blenders transfer 24,000 lb/h of spices to the Finish Mills No. 4 to No. 5 through the Cooking Blender Hoppers No. 1 to No. 3. Cyclones CB-12 to CB-14 separate the conveyance air from the spices as they enter the hoppers, as well as control any dust with the support of Baghouse #5 (F-HP). The hoppers transfer the spices to Finish Mills No. 4 to No. 6 for final classification. The Regulated Source List names the Finishing Mills as M-4, M-5, and M-6. The Finishing Blenders No. 1 to No. 3 (F-BL) receive the classified spices from the Finish Mills for final blending and texturizing. Cyclones CB-09 to CB-11 support the classification of the spices and also capture any dust or particulate matter with the assistance of Baghouse #7 (FBL).

The finished spices are passed to the Packaging/Bagging area to prepare them for delivery to the OLAM customers. The bagging units are:

- Bag Line No.1 and No. 2
- Drum Line No. 1 and No.2
- Carton Line
- Tote Line

Each of these listed units above has a capacity of 4000 lb/h. However, the combined capacity of packaging is limited to 24,000 lb/h, the delivery capacity of the Finishing Blenders (F-BL).

The Tote Line receives up to 4000 lb/h of spices from the Cooking Blenders through Cyclone CR-05 and Baghouse #8. Baghouse #5 controls particulate matter from the Tote Line packaging.

The bag and drum lines receive spices through hoppers. Baghouse #6 controls the drop point emissions from the drum and bag lines. The Regulated Source List names the Baghouse #6 control by the name of the unit:

- Baghouse #6 to Drum Line 1
- Baghouse #6 to Drum Line 2
- Baghouse #6 to Drum Line 1
- Baghouse #6 to Drum Line 2
- Baghouse #6 to Carton Line

Startup, Shutdown, and Maintenance (SSM)

The OLAM SVI plant uses clean burning, commercial pipeline natural gas as fuel for its boilers and heaters. The fuel burns clean and will not produce smoke like other denser fuels such as diesel or fuel oil even as the temperature of the burners transitions into a steady state.

Start-Up Procedure

During start-up of the dryer units, the process sequence is as follows:

- 1. The control system turns the blowers for the cyclones and baghouses.
- 2. The unit starts accepting spices into the dryers or cooking units in recirculation mode. The dryers and cooking units require the presence of spices to serve as a thermal load. The absence of a thermal load in the dryers and cookers can cause incoming spices to burn and char causing an unusable product.
- 3. The process applies thermal energy from either heaters or steam.

Shut Down Procedure

During a shut-down of the dryer units, the sequence is as follows:

- 1. The process removes the application of thermal energy by the shutdown of natural gas flow to the heaters or boilers.
- 2. The unit stops delivery of the product and begins internal recirculation to allow the spices to cool down.
- 3. Alternative step: The process removes the spices from the unit as it begins to remove the thermal energy.
- 4. The control process will stop the cyclone and baghouse blowers once the mill and blender units are empty of spices to complete the shutdown.

Calculations of SSM Emissions

The emissions from the startup or shutdown of natural gas fueled system is minimal and is lower than that of the heaters and burners operating at a steady state.

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Section 4

Process Flow Sheet

A <u>process flow sheet</u> 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.

A simplified process flow block diagram of the OLAM process is attached as follows:

- 1. Dehydration and seed line;
- 2. Proctor Mill line;
- 3. Flake Room Line;
- 4. Steam Screw Room and OP Mill Line;
- 5. Cooking/Blending Line;
- 6. Packaging Line; and
- 7. Steam sterilizer Line

Figure 4.1: Dehydration Line Process Flow Diagram

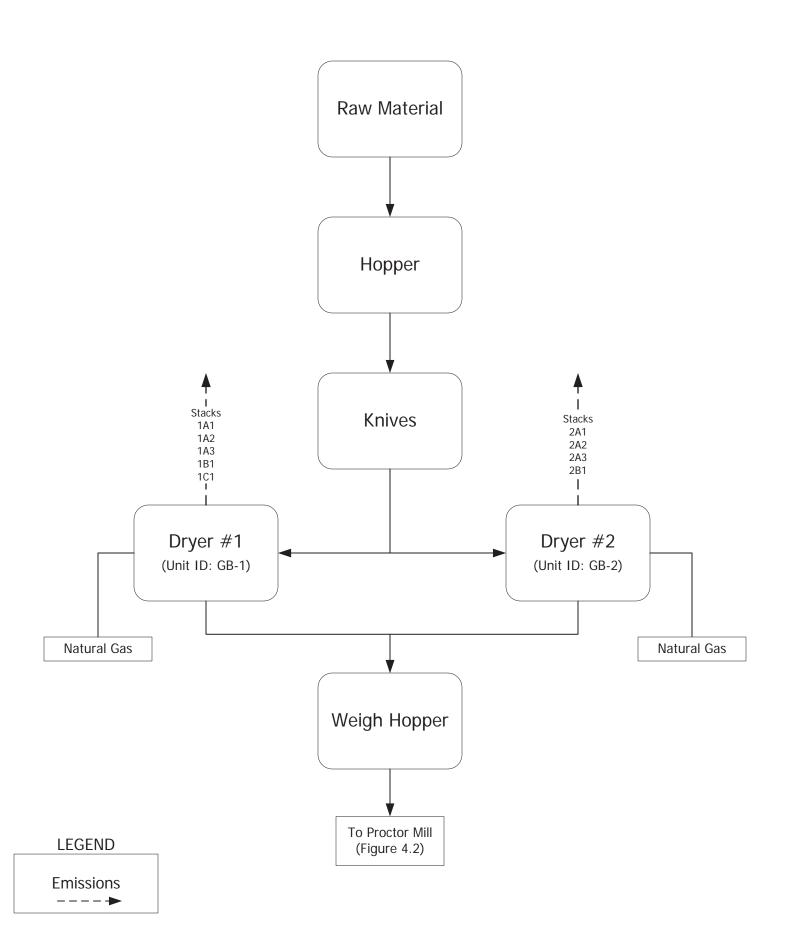


Figure 4.2: Proctor Mill Line Process Flow Diagram

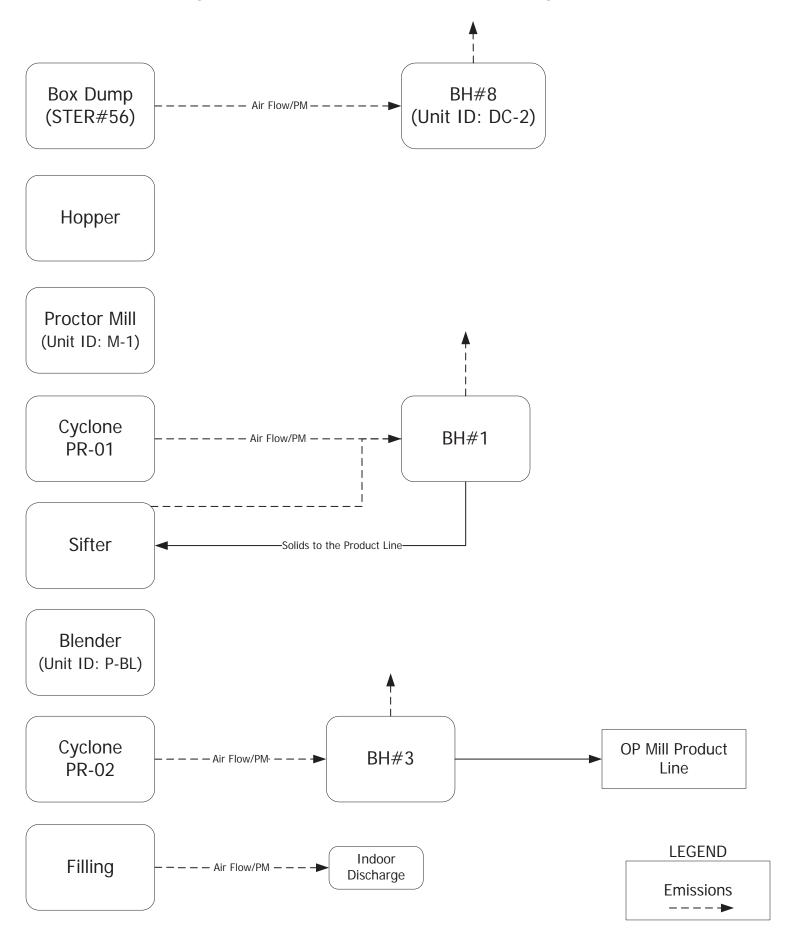


Figure 4.3: Flake Room Line Process Flow Diagram

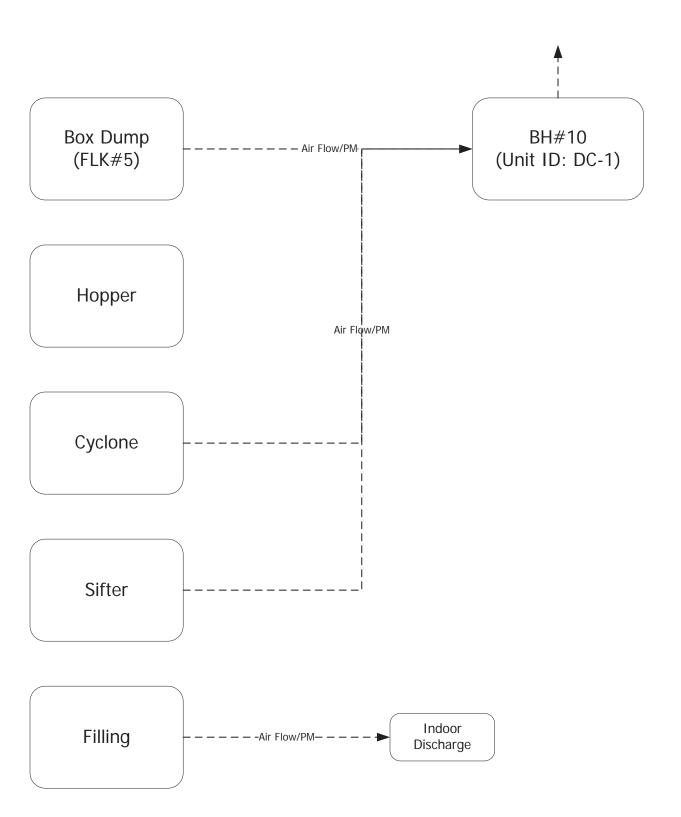




Figure 4.4: Steam Screw Room & OP Mill Line Process Flow Diagram

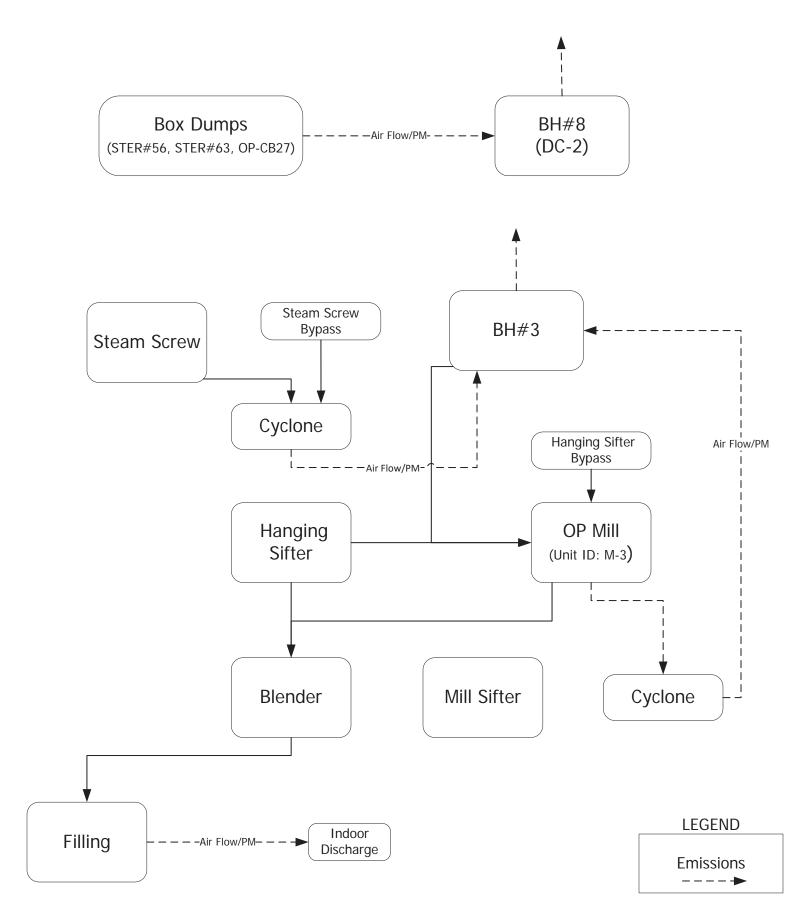
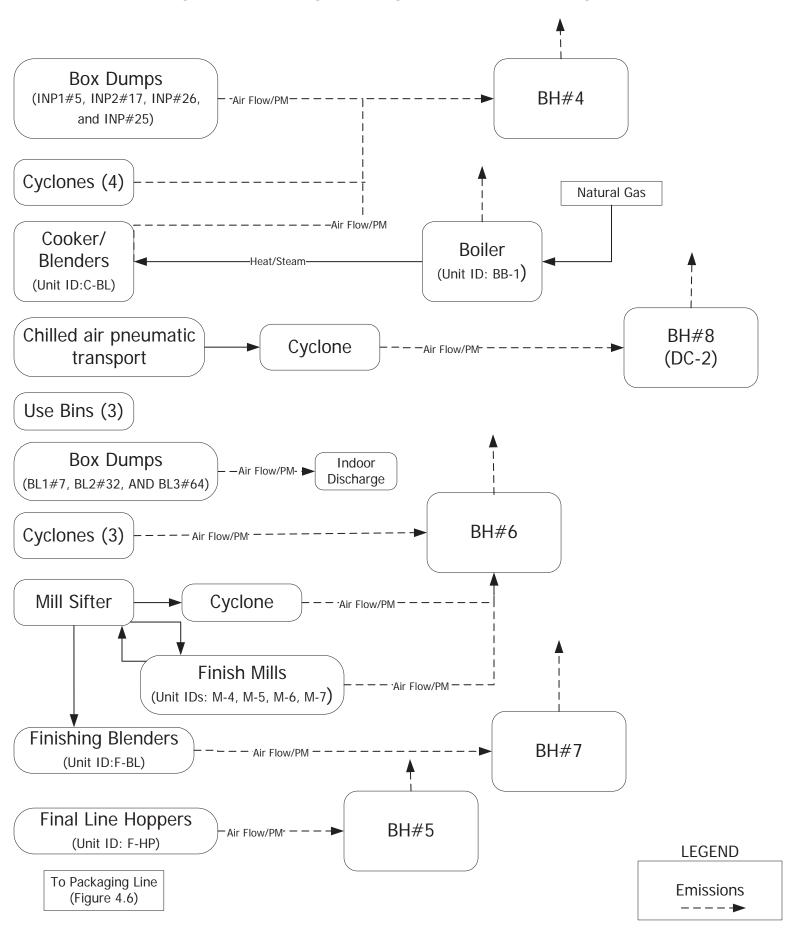
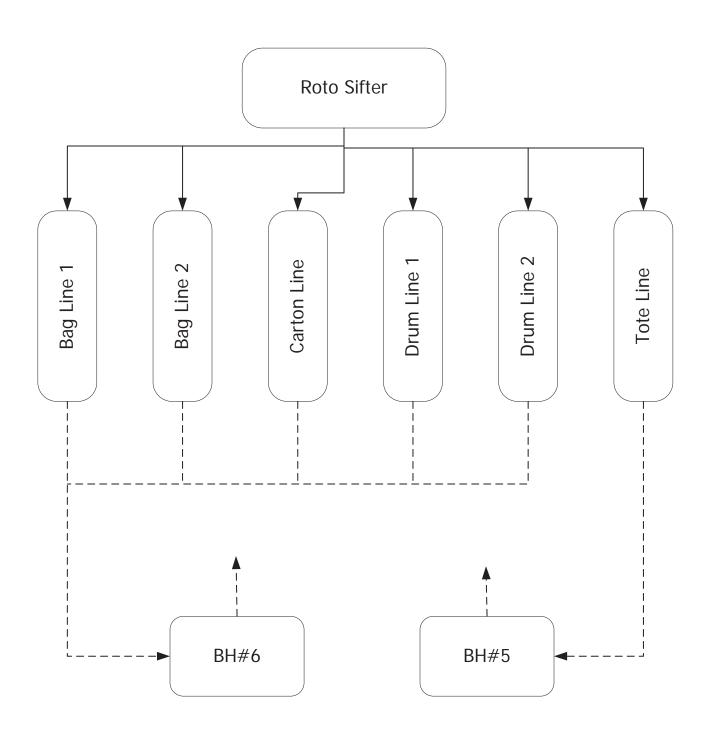


Figure 4.5: Cooking/Blending Line Process Flow Diagram



OLAM West Coast Inc.

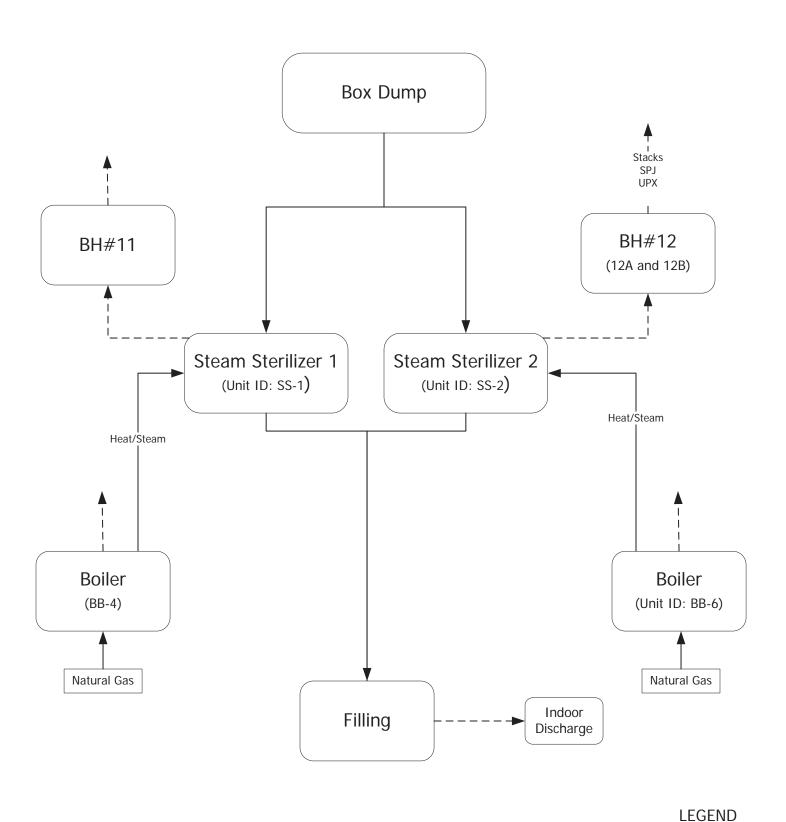
Figure 4.6: Packaging Line Process Flow Diagram





OLAM West Coast Inc.

Figure 4.7: Steam Sterilizer Line Process Flow Diagram



Emissions

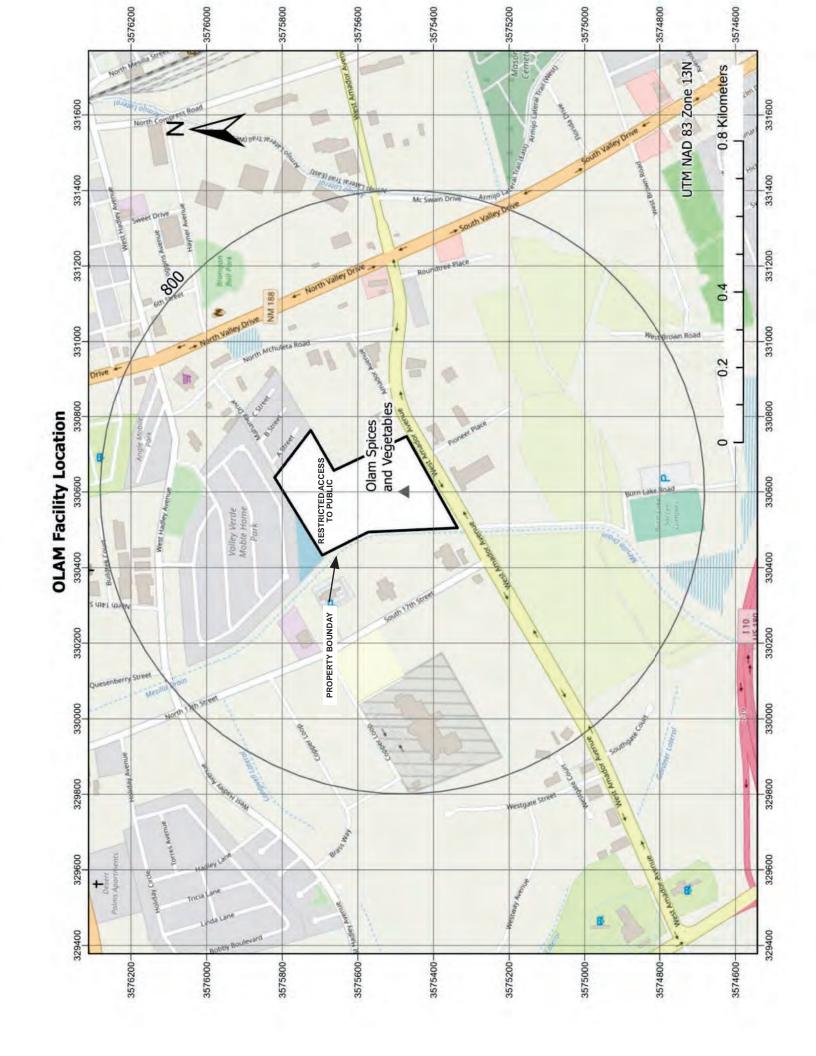
Section 5

Plot Plan Drawn To Scale

A <u>plot plan drawn to scale</u> 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.

The plot plan of the OLAM facility is attached as follows:

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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.

The calculation of the OLAM significant revision is attached as follows:

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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

Calculating GHG Emissions:

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

Sources for Calculating GHG Emissions:

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

Global Warming Potentials (GWP):

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

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

Metric to Short Ton Conversion:

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

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

OLAM Spices and Vegetables Ingredients Emissions Summary

| _ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|-------|----------|----------|-----------|-----------|--------|-------------|------|--------|------------|------------|--------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|---------|--------|-----------|---------|
| HAP | tpy | 0.049 | 0.016 | 0.016 | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | 0.24 | 0.20 | ٠ | ٠ | ٠ | ٠ | , | , | ٠ | ٠ | | | 0.52 |
| Total HAP | lb/hr | 0.011 | 3.69E-03 | 3.69E-03 | | | | | | | | | | | 0.055 | 0.045 | | | | | | | | | | | 0.12 |
| S | tpy | | | | | | | | | | | | | | | | | | | | , | , | | | | - | |
| H ₂ S | lb/hr | | | | | | | | | | | | | | | | | | | | | | | | , | | |
| 2 | tpy | 0.20 | 0.065 | 0.065 | 0.018 | 0.018 | 74.50 | 0.018 | 1.09 | 31.93 | 0.018 | 0.018 | 31.93 | 31.93 | 0.97 | 0.80 | 86.6 | 19.96 | 10.64 | 10.64 | 10.64 | 10.89 | 86.6 | 212.87 | 53.22 | 0.018 | 522.41 |
| PM _{2.5} | lb/hr | 0.046 | 0.015 | 0.015 | 4.05E-03 | 4.05E-03 | 17.01 | 4.05E-03 | 0.25 | 7.29 | 4.05E-03 | 4.05E-03 | 7.29 | 7.29 | 0.22 | 0.18 | 2.28 | 4.56 | 2.43 | 2.43 | 2.43 | 4.86 | 2.28 | 48.60 | 12.15 | 4.05E-03 | 121.64 |
| - | tpy | 0.20 | 0.065 | 0.065 | 0.071 | 0.071 | 298.02 | 0.071 | 4.35 | 127.72 | 0.071 | 0.071 | 127.72 | 127.72 | 0.97 | 0.80 | 39.91 | 79.83 | 42.57 | 42.57 | 42.57 | 43.02 | 39.91 | 851.47 | 212.87 | 0.071 | 2082.78 |
| PM ₁₀ | lb/hr | 0.046 | 0.015 | 0.015 | 0.016 | 0.016 | 68.04 | 0.016 | 0.99 | 29.16 | 0.016 | 0.016 | 29.16 | 29.16 | 0.22 | 0.18 | 9.11 | 18.23 | 9.72 | 9.72 | 9.72 | 19.44 | 9.11 | 194.40 | 48.60 | 0.016 | 485.14 |
| | tpy | 0.20 | 0.065 | 0.065 | 0.16 | 0.16 | 662.26 | 0.16 | 99.6 | 283.82 | 0.16 | 0.16 | 283.82 | 283.82 | 0.97 | 08.0 | 88.70 | 177.39 | 94.61 | 94.61 | 94.61 | 94.63 | 88.70 | 1892.16 | 473.04 | 0.16 | 4624.86 |
| PM | lb/hr | 0.046 | 0.015 | 0.015 | 0.036 | 0.036 | 151.20 | 0.036 | 2.21 | 64.80 | 0.036 | 0.036 | 64.80 | 64.80 | 0.22 | 0.18 | 20.25 | 40.50 | 21.60 | 21.60 | 21.60 | 43.20 | 20.25 | 432.00 | 108.00 | 0.036 | 1077.50 |
| | tpy | 0.15 | 0.049 | 0.049 | | | | | | | | | | | 0.73 | 09.0 | | | | | | | | | | - | 1.58 |
| C SO _x PM | lb/hr | 0.034 | 0.011 | 0.011 | | | | | | | | | | | 0.17 | 0.14 | | | | | | | | | | | 0.36 |
| | tpy | 0.14 | 0.047 | 0.047 | , | | , | | , | , | , | , | , | , | 0.70 | 0.58 | , | , | , | , | , | , | , | , | , | | 1.52 |
| VOC | lb/hr | 0.033 | 0.011 | 0.011 | | | | | | | | | | | 0.16 | 0.13 | | | | | , | , | | | | | 0.35 |
| NO _x CO | tpy | 2.21 | 0.72 | 0.72 | | , | | , | | | | | | | 10.68 | 8.87 | | | | | , | , | | | | | 23.20 |
| | lb/hr | 0.50 | 0.16 | 0.16 | , | | , | , | , | , | , | , | , | , | 2.44 | 2.03 | , | , | , | , | , | , | , | , | , | | 5.30 |
| | tpy | 2.63 | 98.0 | 0.86 | | | | , | | | | | | | 12.71 | 10.56 | | | | | , | , | | | | | 27.62 |
| | lb/hr | 09.0 | 0.20 | 0.20 | | , | | , | | | | | | | 2.90 | 2.41 | | | | | , | , | | | | | 6.31 |
| | Unit | BB-1 | BB-4 | BB-6 | BagLine-1 | BagLine-2 | C-BL | Carton Line | DC-1 | DC-2 | DrumLine-1 | DrumLine-2 | F-BL | F-HP | GB-1 | GB-2 | M-1 | M-3 | M-4 | M-5 | M-6 | M-7 | P-BL | SS-1 | SS-2 | Tote Line | Total |

| _ | | | | | | | | | | | | | | | | | | | | | | | | | | | _ | |
|----------------------|-------------------|---------|------------|------------|-----------|-----------|-----------|-------|------------|----------|----------|-----------|-----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|-------|----------|-----------|----------|
| | ane | tpy | 0.047 | 0.015 | 0.015 | | | | | | | | | | | 0.23 | 0.19 | | | | | | | | | | | 0.50 |
| | Hexane | lb/hr | 0.011 | 3.53E-03 | 3.53E-03 | | | | | | | | | | | 0.052 | 0.043 | | | | | | | | | | | 0.11 |
| | hyde | tpy | .97E-03 | 6.44E-04 | 6.44E-04 | | | | | | | | | | | 9.53E-03 | 7.92E-03 | | | | | | | | | | | 0.02 |
| | Formaldehyde | lb/hr | 1.50E-04 1 | .47E-04 6 | .47E-04 6 | | | | | | | | | | | 18E-03 9 | .81E-03 7 | | | | | | | | | | | 4.73E-03 |
| | • | tpy | 0.049 4. | 0.016 | 0.016 | | | | | | | | | | | 0.24 2. | 0.20 | | | | | | | | | | | 0.52 4. |
| | Total HAP | lb/hr 1 | | 3.69E-03 0 | | | | | | | | | | | | | 0.045 0 | | | | | | | | | | | |
| | | | 0.011 | 3.69 | 3.69 | _ | | _ | _ | | | | _ | | | 0.055 | 0.0 | | | | | | | _ | _ | | | 0.12 |
| | H ₂ S | tpy | | ٠ | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | | |
| | | lb/hr | ٠ | ٠ | • | • | | | | • | • | • | | | | • | | • | | • | | | | | | • | | |
| | 2.5 | tpy | 0.20 | 0.065 | 0.065 | 0.018 | 0.018 | 0.075 | 0.018 | 1.09E-03 | 0.032 | 0.018 | 0.018 | 0.032 | 0.032 | 0.97 | 0.80 | 9.98E-03 | 0.020 | 0.011 | 0.011 | 0.011 | 0.019 | 9.98E-03 | 0.062 | 0.016 | 0.018 | 2.55 |
| | PM _{2.5} | lb/hr | 0.046 | 0.015 | 0.015 | 1.05E-03 | 1.05E-03 | 0.017 | 1.05E-03 | 2.48E-04 | 7.29E-03 | 1.05E-03 | 1.05E-03 | 7.29E-03 | 7.29E-03 | 0.22 | 0.18 | 2.28E-03 | 1.56E-03 | 2.43E-03 | 2.43E-03 | 2.43E-03 | 1.86E-03 | 2.28E-03 | 0.014 | 3.54E-03 | 1.05E-03 | 0.58 |
| | | tpy | 0.20 | 0.065 | 0.065 | | 0.071 | 0.30 | | .35E-03 | 0.13 | | | 0.13 | | | 0.80 | 0.040 | 0.080 | | 0.043 | 0.043 | 0.078 | 0.040 | 0.25 | 0.062 | 0.071 | 3.89 |
| | PM ₁₀ | lb/hr | .046 | .015 | | | | 890 | | 4 | 0.029 | | | | | | | | | | 9.72E-03 | | 0.019 | 9.11E-03 | 0.057 | | 0.016 | 68'0 |
| | | | Т | | | | | | _ | _ | _ | _ | _ | _ | _ | _ | | | | | - | - | | Ť | | | | H |
| sions | PM | r tpy | | | | 5 0.16 | | | | | 5 0.28 | | | | | | 0.80 | | 1 0.18 | | 2 0.095 | 2 0.095 | 3 0.173 | 680'0 C | 0.55 | | 5 0.16 | 4.07 |
| Controlled Emissions | | lb/hr | 0.046 | 0.015 | 0.01 | 0.03 | 0.03 | 0.15 | 0.03 | 2.21E- | 0.065 | 0.03 | 0.03 | 90.0 | 90.0 | 0.22 | 0.18 | 0.02 | 0.04 | 0.02 | 0.02 | 0.02 | 0.043 | 0.020 | 0.13 | 0.03 | 0.036 | 1.39 |
| Contro | ×os | tpy | 0.15 | 0.049 | 0.049 | ٠ | | | | ٠ | | ٠ | ٠ | • | | 0.73 | 09.0 | ٠ | | | | • | | ٠ | ٠ | | | 1.58 |
| | S | lb/hr | 0.034 | 0.011 | 0.011 | | | | | | | | | | | 0.17 | 0.14 | | | | | | | | | | | 0.36 |
| | | tpy | 0.14 | 0.047 | 0.047 | | | | | | | | | | | 0.70 | 0.58 | | | | | | | | | | - | 1.52 |
| | VOC | lb/hr | 0.033 | 0.011 | 0.011 | | | | | | | | | | | 0.16 | 0.13 | | | | | | | | | | | 0.35 |
| | | tpy | H | 0.72 | | | | | | | , | | | | | 10.68 | 3.87 | | | , | | | | | | , | | 23.20 |
| | 00 | lb/hr | | 0.16 | | | | | | | | | | | | 2.44 | | | | | | | | | | | | .30 2 |
| | | | | | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | 2 |
| | Ň | | | 0.86 | | • | • | • | • | • | • | • | • | • | • | | 10.56 | • | • | • | • | • | • | • | • | • | • | 27.62 |
| | | lb/hr | 09.0 | 0.20 | 0.20 | • | • | • | • | • | • | • | • | • | • | 2.90 | 2.41 | • | • | • | • | • | • | • | • | • | | 6.31 |
| | | Unit | BB-1 | BB-4 | BB-6 | 3agLine-1 | 3agLine-2 | C-BL | arton Line | DC-1 | DC-2 | rumLine-1 | rumLine-2 | F-BL | F-HP | GB-1 | GB-2 | M-1 | M-3 | M-4 | M-5 | M-6 | M-7 | P-BL | SS-1 | SS-2 | Tote Line | Total |
| 1 | | | ı | | | ш | ш | | Ö | | | Δ | Ω | | | | | | | | | | | | | | , | 1 |

| | Site-Wide | |
|------------------------|--------------------|----------------|
| Description | Value | Unit |
| Annual Operating Hours | 8,760 | hr |
| Daily Operating Hours | 24 | hr |
| Permit No: | Air Quality Permit | No. 1744-M3-R2 |
| Location: | 32.302944, | -106.798306 |
| Site Elevation | 3,890 | ft MSL |
| Fuel Heat Value | 1,020.00 | Btu/scf |
| Fuel Sulfuer Content | 2.0 | gr S/100scf |

| | Heater Information | |
|-----------------|-------------------------|----------|
| Description | | Unit |
| Unit: | BB-1 | |
| Quanity: | 1 | |
| Decription: | CBI-200 150-150 Boiler | |
| Heat Input: | 6.124 | MMBtu/hr |
| Stack Height: | 24.00 | ft |
| Stack Diameter: | 1.33 | ft |
| Unit: | BB-4 | |
| Quanity: | 1 | |
| Decription: | CFH-700-50-150ST Boiler | |
| Heat Input: | 2 | MMBtu/hr |
| Stack Height: | 20.00 | ft |
| Stack Diameter: | 0.83 | ft |
| Unit: | BB-6 | |
| Quanity: | 1 | |
| Decription: | CFH-700-50-150ST Boiler | |
| Heat Input: | 2 | MMBtu/hr |
| Stack Height: | 25.00 | ft |
| Stack Diameter: | 0.83 | ft |
| Unit: | GB-1 | |
| Quanity: | 1 | |
| Decription: | Packaged Dryer | |
| Heat Input: | 29.6 | MMBtu/hr |
| Stack Height: | Varies | ft |
| Stack Diameter: | Varies | ft |
| Unit: | GB-2 | |
| Quanity: | 1 | |
| Decription: | Packaged Dryer | |
| Heat Input: | 24.6 | MMBtu/hr |
| Stack Height: | Varies | ft |
| Stack Diameter: | Varies | ft |

| | Milling Information | |
|-------------|------------------------------|-------|
| Description | | Unit |
| Unit: | M-1 | |
| Quanity: | 1 | |
| Decription: | Prater MM-36 Proctor Mill | |
| Capacity: | 7500 | lb/hr |
| Unit: | M-3 | |
| Quanity: | 1 | |
| Decription: | Prater MM-36 OP Mill | |
| Capacity: | 7500 | lb/hr |
| Unit: | M-4, M-5, and M-6 | |
| Quanity: | 3 | |
| Decription: | Bauermeister UT Finish Mill | |
| Capacity: | 8000 | lb/hr |
| Unit: | M-7 | |
| Quanity: | 1 | |
| Decription: | Baurmeister UT33 Finish Mill | |
| Capacity: | 8000 | lb/hr |

Boiler

BB-1

| | | Heater Inp | Heater Input Information |
|----------------------|-------|-------------|---------------------------------------|
| Unit(s): | | | BB-1 |
| Description: | | 6.1 | 6.1 MMBtu/hr Boiler CBI-200 150-150 |
| Heat input: | 6.1 | MMBtu/hr | MMBtu/hr Estimated heat input |
| Fuel heat value: | 1,020 | Btu/scf | |
| Fuel sulfur content: | 2.0 | gr S/100scf | gr S/100scf Estimated for field gas |
| Operating hours: | 8,760 | hours/year | |
| Fuel Usage: | 6,004 | scf/hr | |
| | 52.59 | MMscf/yr | |

| | | | Crite | eria Pollutant Er | Criteria Pollutant Emission Rates per Unit | · Unit | |
|------------------|-------|------|-------|-------------------|---|------------------------|---|
| | NOx | 00 | VOC | 50_2^1 | PM² | Units | Notes |
| | 100 | 84 | 5.5 | | 7.6 | lb/MMscf | AP-42 Table 1.4-1 & 2 |
| EMISSION FACTORS | 100.0 | 84.0 | 5.5 | - | 7.6 | Ib/MMscf | Adjusted EF, per footnote a in Tables 1.4-1 and 1.4-2 |
| Emissions | 09:0 | 0.50 | 0.033 | 0.034 | 0.046 | lb/hr³ | |
| | 2.63 | 2.21 | 0.145 | 0.150 | 0.200 | tons/year ⁴ | |
| | | | | | | | |

| | | | | HAP Emission | HAP Emission Rates per Unit | | |
|---------------------|--------|----------|----------|--------------|-----------------------------|------------------------|---|
| | Hexane | Benzene | Toluene | НСНО | Total HAPs ⁵ | Units | Notes |
| Emission Factors | 1.8 | 2.10E-03 | 3.40E-03 | 0.075 | ı | lb/MMscf | AP-42 Table 1.4-3 |
| ETITISSION I ACTOLS | 1.8 | 2.10E-03 | 3.40E-03 | 7.50E-02 | - | lb/MMscf | Adjusted EF, per footnote a in Table 1.4- |
| noissim 1 | 0.0108 | 1.26E-05 | 2.04E-05 | 4.50E-04 | 0.011 | lb/hr ³ | |
| LIIIOSIOIIS | 0.047 | 5.52E-05 | 8.94E-05 | 1.97E-03 | 0.049 | tons/year ⁴ | |
| | | | | | | | |
| | | 0000 | | | | | |

| | | 40 CFR 98 Subpart Tables | 40 CFR 98 Table A-1 | | |
|------------------|----------------|--------------------------|---------------------|---------|----------|
| | | kg/MMBtu | GWP | tpy | tpy CO2e |
| | ${ m CO_2e}^6$ | | | 3137.76 | 3140.93 |
| GHG Calculations | CH_4^6 | 0.001 | 25 | 0.059 | 1.48 |
| GHG Cal | N_2O^6 | 0.0001 | 298 | 0.0059 | 1.76 |
| | °co | 53.06 | - | 3137.69 | 3137.69 |
| | | | | | |

 $^{^1}$ SO $_2$ emissions based on fuel sulfur content of 2 gr S/100 scf or 0.00286 lb S/Mscf 0.00286 lb S/Mscf*fuel consumption (Mscf/hr) *64 lb SO $_2$ /32 lb S = lb SO $_2$ /hr

 $^{^2}$ Assumes PM $_{10}$ = PM $_{2.5}$

 $^{^3}$ lb/hr emissions calculated using the following methods: Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

⁴ For all non-HAP calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

⁵ Total HAP emissions are the sum of all individual HAPs calculated.

CO₂e tpy Emission Rate = CO₂ Emission Rate + N₂O Emission Rate * GWP Factor + CH₄ Emission Rate * GWP Factor 6 N₂O, CH₄, and CO₂ tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value * 2.20462 lb/kg * 1 ton/2000 lb

Boiler

BB-4

| | | Heater Inp | Heater Input Information |
|----------------------|-------|-------------|---------------------------------------|
| Unit(s): | | | BB-4 |
| Description: | | 2 N | 2 MMBtu/hr Boiler CFH-700-50-150ST |
| Heat input: | 2.0 | MMBtu/hr | Estimated heat input |
| Fuel heat value: | 1,020 | Btu/scf | |
| Fuel sulfur content: | 2.0 | gr S/100scf | gr S/100scf Estimated for field gas |
| Operating hours: | 8,760 | hours/year | |
| Fuel Usage: | 1,961 | scf/hr | |
| | 17.18 | MMscf/yr | |

| | | | Crite | eria Pollutant En | Criteria Pollutant Emission Rates per Unit | - Unit | |
|---------------------|-------|------|-------|-------------------|--|------------------------|---|
| | NOx | 00 | VOC | 50_2^1 | PM² | Units | Notes |
| | 100 | 84 | 5.5 | | 7.6 | Ib/MMscf | AP-42 Table 1.4-1 & 2 |
| EIIIISSIOII FACIOIS | 100.0 | 84.0 | 5.5 | • | 7.6 | lb/MMscf | Adjusted EF, per footnote a in Tables 1.4-1 and 1.4-2 |
| Emissions | 0.20 | 0.16 | 0.011 | 0.011 | 0.015 | lb/hr³ | |
| | 0.86 | 0.72 | 0.047 | 0.049 | 0.065 | tons/year ⁴ | |
| | | | | | | | |

| | Notes | AP-42 Table 1.4-3 | Adjusted EF, per footnote a in Table 1.4-3 | | |
|------------------------------------|-------------------------|-------------------|--|-----------|------------------------|
| | Units | lb/MMscf | lb/MMscf | lb/hr³ | tons/year ⁴ |
| HAP Emission Rates per Unit | Total HAPs ⁵ | 1 | - | 0.0037 | 0.016 |
| HAP Emissior | НСНО | 0.075 | 7.50E-02 | 1.47E-04 | 6.44E-04 |
| | Toluene | 3.40E-03 | 3.40E-03 | 6.67E-06 | 2.92E-05 |
| | Benzene | 2.10E-03 | 2.10E-03 | 4.12E-06 | 1.80E-05 |
| | Hexane | 1.8 | 1.8 | 0.0035 | 0.015 |
| | | Emission Factors | EIIII331011 1 actol 3 | Fmissions | LIIISSIOLIS |

| | | 40 CFR 98 Subpart Tables | 40 CFR 98 Table A-1 | | |
|------------------|------------------|--------------------------|---------------------|---------|----------|
| | | kg/MMBtu | GWP | tpy | tpy CO2e |
| | ${ m co_{2}e^6}$ | | | 1024.74 | 1025.78 |
| GHG Calculations | CH⁴ ⁶ | 0.001 | 25 | 0.019 | 0.48 |
| GHG Cal | N_2O^6 | 0.0001 | 298 | 0.0019 | 0.58 |
| | °co² | 53.06 | 1 | 1024.72 | 1024.72 |
| | | | | | |

 $^{^1}$ SO $_2$ emissions based on fuel sulfur content of 2 gr S/100 scf or 0.00286 lb S/Mscf * 0.00286 lb S/Mscf*fuel consumption (Mscf/hr) * 64 lb SO $_2$ /32 lb S = lb SO $_2$ /hr

 $^{^2}$ Assumes PM $_{10}$ = PM $_{2.5}$

 $^{^3}$ lb/hr emissions calculated using the following methods: Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

⁴ For all non-HAP calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

 $^{^{\}rm 5}$ Total HAP emissions are the sum of all individual HAPs calculated.

CO₂e tpy Emission Rate = CO₂ Emission Rate + N₂O Emission Rate * GWP Factor + CH₄ Emission Rate * GWP Factor 6 N₂O, CH₄, and CO₂ tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value * 2.20462 lb/kg * 1 ton/2000 lb

Boiler

BB-6

| | | Heater Inp | Heater Input Information |
|----------------------|-------|-------------|---------------------------------------|
| Unit(s): | | | BB-6 |
| Description: | | 2 M | 2 MMBtu/hr Boiler CFH-700-50-150ST |
| Heat input: | 2.0 | MMBtu/hr | Estimated heat input |
| Fuel heat value: | 1,020 | Btu/scf | |
| Fuel sulfur content: | 2.0 | gr S/100scf | gr S/100scf Estimated for field gas |
| Operating hours: | 8,760 | hours/year | |
| Fuel Usage: | 1,961 | scf/hr | |
| | 17.18 | MMscf/yr | |

| | | | Crite | eria Pollutant Er | Criteria Pollutant Emission Rates per Unit | · Unit | |
|--------------------|-------|------|-------|-------------------|---|------------------------|---|
| | NOx | 00 | VOC | 50_2^1 | PM² | Units | Notes |
| | 100 | 84 | 5.5 | | 7.6 | lb/MMscf | AP-42 Table 1.4-1 & 2 |
| EITHSSIOTI FACTORS | 100.0 | 84.0 | 5.5 | • | 7.6 | lb/MMscf | Adjusted EF, per footnote a in Tables 1.4-1 and 1.4-2 |
| Emissions | 0.20 | 0.16 | 0.011 | 0.011 | 0.015 | lb/hr³ | |
| | 0.86 | 0.72 | 0.047 | 0.049 | 0.065 | tons/year ⁴ | |
| | | | | | | | |

| | tons/year ⁴ | 0.016 | 6.44E-04 | 2.92E-05 | 1.80E-05 | 0.015 | FILISCICIE |
|--|------------------------|-----------------------------|--------------|----------|----------|--------|------------------|
| | lb/hr ³ | 0.0037 | 1.47E-04 | 6.67E-06 | 4.12E-06 | 0.0035 | Fmissions |
| Adjusted EF, per footnote a in Table 1.4-3 | lb/MMscf | - | 7.50E-02 | 3.40E-03 | 2.10E-03 | 1.8 | |
| AP-42 Table 1.4-3 | Ib/MMscf | | 0.075 | 3.40E-03 | 2.10E-03 | 1.8 | Emission Factors |
| Notes | Units | Total HAPs ⁵ | НСНО | Toluene | Benzene | Hexane | |
| | | HAP Emission Rates per Unit | HAP Emission | | | | |

| | | 40 CFR 98 Subpart Tables | 40 CFR 98 Table A-1 | | |
|-------------------------|-------------------|--------------------------|---------------------|---------|----------|
| | | kg/MMBtu | GWP | tpy | tpy CO2e |
| | ${\rm co_{2}e^6}$ | | | 1024.74 | 1025.78 |
| GHG Calculations | CH_4^6 | 0.001 | 25 | 0.019 | 0.48 |
| GHG Cal | N_2O^6 | 0.0001 | 298 | 0.0019 | 0.58 |
| | °co² | 53.06 | 1 | 1024.72 | 1024.72 |
| | | | | | |

 $^{^1}$ SO $_2$ emissions based on fuel sulfur content of 2 gr S/100 scf or 0.00286 lb S/Mscf * 0.00286 lb S/Mscf*fuel consumption (Mscf/hr) * 64 lb SO $_2$ /32 lb S = lb SO $_2$ /hr

 $^{^2}$ Assumes PM $_{10}$ = PM $_{2.5}$

 $^{^3}$ lb/hr emissions calculated using the following methods: Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

⁴ For all non-HAP calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

 $^{^{\}rm 5}$ Total HAP emissions are the sum of all individual HAPs calculated.

CO₂e tpy Emission Rate = CO₂ Emission Rate + N₂O Emission Rate * GWP Factor + CH₄ Emission Rate * GWP Factor 6 N₂O, CH₄, and CO₂ tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value * 2.20462 lb/kg * 1 ton/2000 lb

Finish Mill

| | Input Inf | Input Information | |
|--|-----------|-------------------|------------------------------|
| Unit(s): | | V | M-7 |
| Description: | | Baurmeister | Baurmeister UT33 Finish Mill |
| Capacity: | 0008 | lb/hr | |
| Clyclone Efficiency ¹ : | %58 | % | |
| Baghouse Control Efficiency ¹ : | %6'66 | % | Manufacturer Specification |
| Operating hours: | 09′28 | hours/year | |

| | | Crit | eria Pollut | ant Emissior | Criteria Pollutant Emission Rates per Unit |
|----------------------------|--------|------------------|-------------------|--------------|--|
| | PM | PM ₁₀ | PM _{2.5} | Units | Notes |
| Particle Size Distribution | 0.0012 | 0.00054 | 0.0001 | lb/1000lb | AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| (Emission Factors) | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| Cooker/Blander Emissions | 21.60 | 9.72 | 2.43 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| | 94.61 | 42.57 | 10.64 | tons/year | |
| | 21.60 | 9.72 | 2.43 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| Q-LINE MIII EMISSIONS | 94.61 | 42.57 | 10.64 | tons/year | |
| Total Uncontrolled | 43.20 | 19.44 | 4.86 | lb/hr | Emissions = (Cooker/Blender) + (Q-Line Mill) |
| Emissions | 94.63 | 43.02 | 10.89 | tons/year | |
| Total Controlled | 0.043 | 1.94E-02 | 4.86E-03 | lb/hr | Emissions = (Cooker/Blender + Q-Line Mill)*(1-Baghouse) |
| Emissions | 0.173 | 7.78E-02 | 1.94E-02 | tons/year | |

- 1 The raw from each mill is pneumatically conveyed to a cyclone which has a nominal product capture efficiency of 85% where it discharges into Baghouse #9 which has a control efficiency of 99.9%. Kice Baghouse filter control efficiency is 99.9% on 5 micron, 99.99% on 10 micron, and 100% for 15+ micron grain dust particles per Kice Industries, Inc letter dated 11/12/08.
- 2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
 - ³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- 4 Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

Steam Sterilizer SS-2

| | Input Inf | Input Information | |
|--|-----------|-------------------|-----------------------------|
| Unit(s): | | S | SS-2 |
| Description: | | Safesteril St | Safesteril Steam Sterilizer |
| Capacity: | 2000 | lb/hr | |
| Clyclone Efficiency ¹ : | 85% | % | |
| Baghouse Control Efficiency ¹ : | %6.66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| Particle Size Distribution and Emission Factors Box Dump Steam Sterilizer Total Uncontrolled Fmissions | PM 0.0012 1.8% 0.0036 18.00 78.84 90.00 394.20 108.00 | PM ₁₀ 0.00054 45% 0.0016 8.10 35.48 40.50 177.39 48.60 | Criteria Poll PM 2.5 0.0001 25% 0.0004 2.03 8.87 10.13 44.35 12.15 | Units Units Units Ib/1000lb % Ib/1000lb Ib/hr tons/year Ib/hr tons/year | Criteria Pollutant Emission Rates per UnitPM 2.5UnitsNotes0.0001Ib/1000lbAP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled)²25%%PM Content of Material, Sieve Analysis³.⁴0.0004Ib/1000lbAP-42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing⁵2.03Ib/hrEmissions = (Capacity)*(AP-42 Section 11.26 Table 11.26-1 EF)10.13Ib/hrEmissions = (Capacity)*(PM Content)44.35tons/yearEmissions = (Box Dump) + (Steam Sterilizer) |
|---|---|---|--|---|---|
| Total Controlled | 0.032 | 0.014 | 3.54E-03 | lb/hr | Emissions = (Box Dump/1000) +((Steam Sterilizer)*(1- Cyclone |
| Emissions | 0.14 | 0.062 | 0.016 | tons/year | tons/year Efficiency)*(1-Baghouse)) |

- 1 This unit has an associated cyclone with a nominal product capture efficiency of 85%. The cyclone then discharges into Baghouse #11 which has a control efficieincy of 99.9%
- 2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
 - ³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- 4 Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than
 - 5 The best fit emission factor for the Box Dump is from AP42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing, "Crushed talc storage bin loading, with fabric filter (SCC 3-05-089-14)." Partition factors of 45% and 25% are used for PM10 and PM2.5 emission factors, respectively.

Dryer

GB-1

| | | Heater Inp | Heater Input Information |
|----------------------|--------|-------------|------------------------------|
| Unit(s): | | | GB-1 |
| Description: | | • | 29.6 MMBtu/hr Packaged Dryer |
| Heat input: | 29.6 | MMBtu/hr | Estimated heat input |
| Fuel heat value: | 1,020 | Btu/scf | |
| Fuel sulfur content: | 2.0 | gr S/100scf | Estimated for field gas |
| Operating hours: | 8,760 | hours/year | |
| Fuel Usage: | 29,020 | scf/hr | |
| | 254.21 | MMscf/yr | |

| | | | Crit | eria Pollutant Er | Criteria Pollutant Emission Rates per Unit | r Unit | |
|------------------|-------|-------|------|-------------------|--|------------------------|---|
| | NOx | 00 | NOC | 50_2^1 | PM² | Units | Notes |
| L | 100 | 84 | 5.5 | 9.0 | 7.6 | Ib/MMscf | AP-42 Table 1.4-1 & 2 |
| EMISSION FACTORS | 100.0 | 84.0 | 5.5 | - | 7.6 | lb/MMscf | Adjusted EF, per footnote a in Tables 1.4-1 and 1.4-2 |
| Emissions | 2.90 | 2.44 | 0.16 | 0.17 | 0.22 | lb/hr ³ | |
| | 12.71 | 10.68 | 0.70 | 0.73 | 0.97 | tons/year ⁴ | |
| | | | | | | | |

| | Notes | AP-42 Table 1.4-3 | Adjusted EF, per footnote a in Table 1.4-3 | | |
|------------------------------------|-------------------------|-------------------|--|-----------|------------------------|
| | Units | Ib/MMscf | lb/MMscf | lb/hr³ | tons/year ⁴ |
| HAP Emission Rates per Unit | Total HAPs ⁵ | • | - | 0.0546 | 0.239 |
| HAP Emissior | НСНО | 0.075 | 7.50E-02 | 2.18E-03 | 9.53E-03 |
| | Toluene | 3.40E-03 | 3.40E-03 | 9.87E-05 | 4.32E-04 |
| | Benzene | 2.10E-03 | 2.10E-03 | 6.09E-05 | 2.67E-04 |
| | Hexane | 1.8 | 1.8 | 0.052 | 0.23 |
| | | Emission Factors | EIIII3310II I detol 3 | Fmissions | LIIISSIOIIS |

| | | 40 CFR 98 Subpart Tables | 40 CFR 98 Table A-1 | | |
|-------------------------|-----------|--------------------------|---------------------|----------|----------|
| | | kg/MMBtu | GWP | tpy | tpy CO2e |
| | co_2e^6 | | | 15166.17 | 15181.52 |
| GHG Calculations | CH_4^6 | 0.001 | 25 | 0.29 | 7.15 |
| GHG Cal | N_2O^6 | 0.0001 | 298 | 0.029 | 8.52 |
| | °co | 53.06 | - | 15165.85 | 15165.85 |
| | | | | | |

 $^{^1}$ SO $_2$ emissions based on fuel sulfur content of 2 gr S/100 scf or 0.00286 lb S/Mscf 0.00286 lb S/Mscf*fuel consumption (Mscf/hr) *64 lb SO $_2$ /32 lb S = lb SO $_2$ /hr

 $^{^2}$ Assumes PM $_{10}$ = PM $_{2.5}$

 $^{^3}$ lb/hr emissions calculated using the following methods: Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

⁴ For all non-HAP calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

 $^{^{\}rm 5}$ Total HAP emissions are the sum of all individual HAPs calculated.

CO₂e tpy Emission Rate = CO₂ Emission Rate + N₂O Emission Rate * GWP Factor + CH₄ Emission Rate * GWP Factor 6 N₂O, CH₄, and CO₂ tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value * 2.20462 lb/kg * 1 ton/2000 lb

Dryer

GB-2

| | | Heater Inp | Heater Input Information |
|----------------------|--------|-------------|---------------------------------------|
| Unit(s): | | | GB-2 |
| Description: | | | 24.6 MMBtu/hr Packaged Dryer |
| Heat input: | 24.6 | MMBtu/hr | Estimated heat input |
| Fuel heat value: | 1,020 | Btu/scf | |
| Fuel sulfur content: | 2.0 | gr S/100scf | gr S/100scf Estimated for field gas |
| Operating hours: | 8,760 | hours/year | |
| Fuel Usage: | 24,118 | scf/hr | |
| | 211.27 | MMscf/yr | |

| Criteria Pollutant Emission Rates per Unit | NO _x CO VOC SO ₂ ¹ PM ² Units Notes | 100 84 | ion ractors 100.0 84.0 5.5 - 7.6 lb/MMscf Adjusted EF, per footnote a in Tables 1.4-1 and 1.4-2 | issions 2.41 2.03 0.13 0.14 0.18 lb/hr ³ | 10.56 8.87 0.58 0.60 0.80 tons/year ⁴ |
|--|---|--------|---|---|--|
| | | | EIIIISSION FACIOUS | Emissions | |

| | Notes | AP-42 Table 1.4-3 | Adjusted EF, per footnote a in Table 1.4-3 | | | |
|------------------------------------|-------------------------|-------------------|--|-----------|------------------------|--|
| | Units | Ib/MMscf | Ib/MMscf | lb/hr³ | tons/year ⁴ | |
| HAP Emission Rates per Unit | Total HAPs ⁵ | • | | 0.045 | 0.20 | |
| HAP Emissio | НСНО | 0.075 | 7.50E-02 | 1.81E-03 | 7.92E-03 | |
| | Toluene | 3.40E-03 | 3.40E-03 | 8.20E-05 | 3.59E-04 | |
| | Benzene | 2.10E-03 | 2.10E-03 | 5.06E-05 | 2.22E-04 | |
| | Hexane | 1.8 | 1.8 | 0.043 | 0.19 | |
| | | Emission Factors | EIIIISSIOII I actol s | Fmissions | LIIII33IQII3 | |

| | | 40 CFR 98 Subpart Tables | 40 CFR 98 Table A-1 | | |
|------------------|-------------------|--------------------------|---------------------|----------|----------|
| | | kg/MMBtu | GWP | tpy | tpy CO2e |
| | ${\rm co_{2}e^6}$ | | | 12604.31 | 12617.07 |
| GHG Calculations | CH_4^6 | 0.001 | 25 | 0.24 | 5.94 |
| GHG Cal | N_2O^6 | 0.0001 | 298 | 0.0238 | 7.08 |
| | °co2 | 53.06 | 1 | 12604.05 | 12604.05 |
| | | | | | |

 $^{^1\,}SO_2$ emissions based on fuel sulfur content of 2 gr S/100 scf or 0.00286 lb S/Mscf 0.00286 lb S/Mscf*fuel consumption (Mscf/hr) *64 lb SO₂/32 lb S = lb SO₂/hr

 $^{^2}$ Assumes PM $_{10}$ = PM $_{2.5}$

 $^{^3}$ lb/hr emissions calculated using the following methods: Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

⁴ For all non-HAP calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

⁵ Total HAP emissions are the sum of all individual HAPs calculated.

CO₂e tpy Emission Rate = CO₂ Emission Rate + N₂O Emission Rate * GWP Factor + CH₄ Emission Rate * GWP Factor 6 N₂O, CH₄, and CO₂ tpy Emission Rate = EF * Fuel Usage * Fuel Heat Value * 2.20462 lb/kg * 1 ton/2000 lb

Emission Calculations for Chile Dryers Las Cruces Chili Processing Plant

| Emission Stack/Unit ID | Capacity (MMBtu/hr) | Pollutant | Emission Factor ¹ (lb/10 ⁶ scf) | Emissions ² (lb/hr) | Annual Emissions ³ (tpy) |
|---------------------------|---------------------|-------------------|---|--------------------------------|--|
| | | NO_X | 100 | 0.50980 | 2.23 |
| | | CO | 84 | 0.42824 | 1.88 |
| | | VOC | 5.5 | 0.02804 | 0.12 |
| GB-1A-1 | 5.2 | SO_X | 0.6 | 0.00306 | 0.013 |
| | | PM | 7.6 | 0.03875 | 0.17 |
| | | PM_{10} | 7.6 | 0.03875 | 0.17 |
| | | PM _{2.5} | 7.6 | 0.03875 | 0.17 |
| | | NO_X | 100 | 0.35294 | 1.55 |
| | | CO | 84 | 0.29647 | 1.30 |
| | | VOC | 5.5 | 0.01941 | 0.085 |
| GB-1A-2A | 3.6 | SO_X | 0.6 | 0.00212 | 0.0093 |
| | | PM | 7.6 | 0.02682 | 0.12 |
| | | PM_{10} | 7.6 | 0.02682 | 0.12 |
| | | PM _{2.5} | 7.6 | 0.02682 | 0.12 |
| | | NO_X | 100 | 0.35294 | 1.55 |
| | | CO | 84 | 0.29647 | 1.30 |
| | | VOC | 5.5 | 0.01941 | 0.085 |
| GB-1A-2B | 3.6 | SO_X | 0.6 | 0.00212 | 0.0093 |
| | | PM | 7.6 | 0.02682 | 0.12 |
| | | PM_{10} | 7.6 | 0.02682 | 0.12 |
| | | PM _{2.5} | 7.6 | 0.02682 | 0.12 |
| | | NO _X | 100 | 0.27451 | 1.20 |
| | | CO | 84 | 0.23059 | 1.01 |
| | | VOC | 5.5 | 0.01510 | 0.066 |
| GB-1A-3A | 2.8 | SO_X | 0.6 | 0.00165 | 0.0072 |
| | | PM | 7.6 | 0.02086 | 0.091 |
| | | PM ₁₀ | 7.6 | 0.02086 | 0.091 |
| | | PM _{2.5} | 7.6 | 0.02086 | 0.091 |
| | | NO _X | 100 | 0.27451 | 1.20 |
| | | CO | 84 | 0.23059 | 1.01 |
| | | VOC | 5.5 | 0.01510 | 0.066 |
| GB-1A-3B | 2.8 | SO _X | 0.6 | 0.00165 | 0.0072 |
| GB 111 3B | 2.0 | PM | 7.6 | 0.02086 | 0.091 |
| | | PM ₁₀ | 7.6 | 0.02086 | 0.091 |
| | | PM _{2.5} | 7.6 | 0.02086 | 0.091 |
| | | NO _X | 100 | 0.27451 | 1.20 |
| | | CO | 84 | 0.23059 | 1.01 |
| | | VOC | 5.5 | 0.23039 | 0.066 |
| GB-1A-4 | 2.8 | SO _X | 0.6 | 0.00165 | 0.0072 |
| OD-171-4 | 2.0 | PM | 7.6 | 0.02086 | 0.0072 |
| | | PM ₁₀ | 7.6 | 0.02086 | 0.091 |
| | | PM _{2.5} | 7.6 | 0.02086 | 0.091 |
| | | NO _X | + | | |
| | | | 100 | 0.23529 0.19765 | 1.03 |
| | | CO | 84 | | 0.87 |
| CD 14.5 | 2.4 | VOC | 5.5 | 0.01294 | 0.057 |
| GB-1A-5 | 2.4 | SO _X | 0.6 | 0.00141 | 0.0062 |
| | | PM PM | 7.6 | 0.01788 | 0.078 |
| | | PM ₁₀ | 7.6 | 0.01788 | 0.078 |
| | | PM _{2.5} | 7.6 | 0.01788 | 0.078 |

Emission Calculations for Chile Dryers GB-1

| Emission Stack/Unit ID | Capacity (MMBtu/hr) | Pollutant | Emission Factor ¹ (lb/10 ⁶ scf) | Emissions ² (lb/hr) | Annual Emissions ³ (tpy) |
|---------------------------|---------------------|-------------------|---|--------------------------------|--|
| | | NO_X | 100 | 0.27451 | 1.20 |
| | | CO | 84 | 0.23059 | 1.01 |
| | | VOC | 5.5 | 0.01510 | 0.066 |
| GB-1B-1 | 2.8 | SO _X | 0.6 | 0.00165 | 0.0072 |
| | | PM | 7.6 | 0.02086 | 0.091 |
| | | PM ₁₀ | 7.6 | 0.02086 | 0.091 |
| | | PM _{2.5} | 7.6 | 0.02086 | 0.091 |
| | | NO _X | 100 | 0.11765 | 0.52 |
| | | CO | 84 | 0.09882 | 0.43 |
| | | VOC | 5.5 | 0.00647 | 0.028 |
| GB-1B-2 | 1.2 | SO_X | 0.6 | 0.00071 | 0.0031 |
| | | PM | 7.6 | 0.00894 | 0.039 |
| | | PM ₁₀ | 7.6 | 0.00894 | 0.039 |
| | | PM _{2.5} | 7.6 | 0.00894 | 0.039 |
| | | NO _X | 100 | 0.07843 | 0.34 |
| | | CO | 84 | 0.06588 | 0.29 |
| | | VOC | 5.5 | 0.00431 | 0.019 |
| GB-1C-1 | 0.8 | SO_X | 0.6 | 0.00047 | 0.0021 |
| | | PM | 7.6 | 0.00596 | 0.026 |
| | | PM ₁₀ | 7.6 | 0.00596 | 0.026 |
| | | PM _{2.5} | 7.6 | 0.00596 | 0.026 |
| | | NO_X | 100 | 0.07843 | 0.34 |
| | | CO | 84 | 0.06588 | 0.29 |
| | | VOC | 5.5 | 0.00431 | 0.019 |
| GB-1C-2 | 0.8 | SO_X | 0.6 | 0.00047 | 0.0021 |
| | | PM | 7.6 | 0.00596 | 0.026 |
| | | PM_{10} | 7.6 | 0.00596 | 0.026 |
| | | PM _{2.5} | 7.6 | 0.00596 | 0.026 |
| | | NO_X | 100 | 0.07843 | 0.34 |
| | | CO | 84 | 0.06588 | 0.29 |
| | | VOC | 5.5 | 0.00431 | 0.019 |
| GB-1C-3 | 0.8 | SO_X | 0.6 | 0.00047 | 0.0021 |
| | | PM | 7.6 | 0.00596 | 0.026 |
| | | PM_{10} | 7.6 | 0.00596 | 0.026 |
| | | PM _{2.5} | 7.6 | 0.00596 | 0.026 |
| | | NO_X | 100 | 2.90 | 12.71 |
| | | CO | 84 | 2.44 | 10.68 |
| Emission Unit | | VOC | 5.5 | 0.16 | 0.70 |
| GB-1 Total ⁴ | 29.6 | SO_X | 0.6 | 0.017 | 0.076 |
| GD-1 10tal | | PM | 7.6 | 0.22 | 0.97 |
| | | PM_{10} | 7.6 | 0.22 | 0.97 |
| | | PM _{2.5} | 7.6 | 0.22 | 0.97 |

Emission Calculations for Chile Dryers GB-2

| Emission Stack/Unit ID | Capacity (MMBtu/hr) | Pollutant | Emission Factor ¹ (lb/10 ⁶ scf) | Emissions ² (lb/hr) | Annual Emissions ³ (tpy) |
|---------------------------|---------------------|-------------------|---|--------------------------------|--|
| | | NO_X | 100 | 0.88235 | 3.86 |
| | | CO | 84 | 0.74118 | 3.25 |
| | | VOC | 5.5 | 0.04853 | 0.21 |
| GB-2A-1 | 9.0 | SO_X | 0.6 | 0.00529 | 0.023 |
| | | PM | 7.6 | 0.06706 | 0.29 |
| | | PM_{10} | 7.6 | 0.06706 | 0.29 |
| | | PM _{2.5} | 7.6 | 0.06706 | 0.29 |
| | | NO_X | 100 | 0.27451 | 1.20 |
| | | CO | 84 | 0.23059 | 1.01 |
| | | VOC | 5.5 | 0.01510 | 0.066 |
| GB-2A-2A | 2.8 | SO_X | 0.6 | 0.00165 | 0.0072 |
| | | PM | 7.6 | 0.02086 | 0.091 |
| | | PM_{10} | 7.6 | 0.02086 | 0.091 |
| | | PM _{2.5} | 7.6 | 0.02086 | 0.091 |
| | | NO_X | 100 | 0.27451 | 1.20 |
| | | СО | 84 | 0.23059 | 1.01 |
| | | VOC | 5.5 | 0.01510 | 0.066 |
| GB-2A-2B | 2.8 | SO_X | 0.6 | 0.00165 | 0.0072 |
| | | PM | 7.6 | 0.02086 | 0.091 |
| | | PM ₁₀ | 7.6 | 0.02086 | 0.091 |
| | | PM _{2.5} | 7.6 | 0.02086 | 0.091 |
| | | NO_X | 100 | 0.23529 | 1.03 |
| | | CO | 84 | 0.19765 | 0.87 |
| | | VOC | 5.5 | 0.01294 | 0.057 |
| GB-2A-3A | 2.4 | SO_X | 0.6 | 0.00141 | 0.0062 |
| | | PM | 7.6 | 0.01788 | 0.078 |
| | | PM_{10} | 7.6 | 0.01788 | 0.078 |
| | | PM _{2.5} | 7.6 | 0.01788 | 0.078 |
| | | NO _X | 100 | 0.23529 | 1.03 |
| | | CO | 84 | 0.19765 | 0.87 |
| | | VOC | 5.5 | 0.01294 | 0.057 |
| GB-2A-3B | 2.4 | SO_X | 0.6 | 0.00141 | 0.0062 |
| | | PM | 7.6 | 0.01788 | 0.078 |
| | | PM ₁₀ | 7.6 | 0.01788 | 0.078 |
| | | PM _{2.5} | 7.6 | 0.01788 | 0.078 |
| | | NO _X | 100 | 0.15686 | 0.69 |
| | | CO | 84 | 0.13176 | 0.58 |
| | | VOC | 5.5 | 0.00863 | 0.038 |
| GB-2B-1 | 1.6 | SO _X | 0.6 | 0.00094 | 0.0041 |
| | .~ | PM | 7.6 | 0.01192 | 0.052 |
| | | PM ₁₀ | 7.6 | 0.01192 | 0.052 |
| | | PM _{2.5} | 7.6 | 0.01192 | 0.052 |
| | | NO _X | 100 | 0.11765 | 0.52 |
| | | CO | 84 | 0.09882 | 0.43 |
| | | VOC | 5.5 | 0.00647 | 0.028 |
| GB-2B-2 | 1.2 | SO _X | 0.6 | 0.00047 | 0.0031 |
| 3D 2D 2 | 1.2 | PM | 7.6 | 0.00894 | 0.039 |
| | | PM ₁₀ | 7.6 | 0.00894 | 0.039 |
| | | - 11110 | 7.0 | 0.00074 | 0.007 |

Emission Calculations for Chile Dryers GB-2

| Emission Stack/Unit ID | Capacity (MMBtu/hr) | Pollutant | Emission Factor ¹ (lb/10 ⁶ scf) | Emissions ² (lb/hr) | Annual Emissions ³ (tpy) |
|--|---------------------|-------------------|---|--------------------------------|--|
| | | NO_X | 100 | 0.07843 | 0.34 |
| | | CO | 84 | 0.06588 | 0.29 |
| | | VOC | 5.5 | 0.00431 | 0.019 |
| GB-2C-1 | 0.8 | SO_X | 0.6 | 0.00047 | 0.0021 |
| | | PM | 7.6 | 0.00596 | 0.026 |
| | | PM_{10} | 7.6 | 0.00596 | 0.026 |
| | | PM _{2.5} | 7.6 | 0.00596 | 0.026 |
| | | NO_X | 100 | 0.07843 | 0.34 |
| | | CO | 84 | 0.06588 | 0.29 |
| | | VOC | 5.5 | 0.00431 | 0.019 |
| GB-2C-2 | 0.8 | SO_X | 0.6 | 0.00047 | 0.0021 |
| | | PM | 7.6 | 0.00596 | 0.026 |
| | | PM_{10} | 7.6 | 0.00596 | 0.026 |
| | | PM _{2.5} | 7.6 | 0.00596 | 0.026 |
| | | NO_X | 100 | 0.07843 | 0.34 |
| | | CO | 84 | 0.06588 | 0.29 |
| | | VOC | 5.5 | 0.00431 | 0.019 |
| GB-2C-3 | 0.8 | SO_X | 0.6 | 0.00047 | 0.0021 |
| | | PM | 7.6 | 0.00596 | 0.026 |
| | | PM_{10} | 7.6 | 0.00596 | 0.026 |
| | | PM _{2.5} | 7.6 | 0.00596 | 0.026 |
| | | NO_X | 100 | 2.41 | 10.56 |
| | | CO | 84 | 2.03 | 8.87 |
| Emiliar II. ' | | VOC | 5.5 | 0.13 | 0.58 |
| Emission Unit GB-2 Total ⁴ | 24.6 | SO_X | 0.6 | 0.014 | 0.063 |
| GB-2 Total | | PM | 7.6 | 0.18 | 0.80 |
| | | PM ₁₀ | 7.6 | 0.18 | 0.80 |
| | | PM _{2.5} | 7.6 | 0.18 | 0.80 |

| | | Combined Annua | l Emissions for the | Chile Dryers (tpy) | | |
|--------|-------|----------------|---------------------|--------------------|-----------|-------------------|
| NO_X | CO | VOC | SO_X | PM | PM_{10} | PM _{2.5} |
| 23.27 | 19.55 | 1.28 | 0.14 | 1.77 | 1.77 | 1.77 |

 $^{^{1}}$ Emission factors from AP-42 Section 1.4 Tables 1.4-1 and 1.4-2. Particulate Matter is assumed to be equal to PM with an aerodynamic diameter less than or equal to 10 mm (PM $_{10}$) and equal to PM with an aerodynamic diameter less than or equal to 2.5 mm (PM $_{2.5}$).

Hourly Emissions (lb/hr) = Capacity (MMBtu/hr) * Emission Factor (lb/ 10^6 scf) * 1/HV Where: HV= heating value of natural gas (1020 Btu/scf)

Annual Emissions (tpy) = Hourly Emissions (lb/hr) * 8760 hrs/year * 1 ton/2000 lbs

² Hourly emission calculation methodology:

³ Annual emission calculation methodology:

⁴ Unit capacities are a sum of the individual capacity of each burner contained in the unit.

OLAM Spices and Vegetables Ingredients Bag Lines

| lnp | Input Information | nation | |
|---------------------|-------------------|------------------|-------------------------|
| Unit(s): | | Bag Line 1 & | Bag Line 1 & Bag Line 2 |
| Description: | | Packagii | Packaging Lines |
| Permitted Capacity: | 4000 | lb/hr | |
| Operating hours: | 8,760 | 8,760 hours/year | |

| | | Cri | teria Pollu | ıtant Emi | Criteria Pollutant Emission Rates per Unit |
|---|-------|-----------|-------------------|-------------------------------|--|
| | PM | PM_{10} | PM _{2.5} | PM _{2.5} Units Notes | Notes |
| | 600'0 | 0.004 | 0.001 | dl0001/dl | 0.001 Ib/1000lb AP-42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing ² |
| EIIIISSIOII FACIOIS | | 45% | 25% | % | % PM Content of Material, Sieve Analysis ^{3,4} |
| 100000000000000000000000000000000000000 | 0.036 | 0.016 | 4.05E-03 | lb/hr | 0.016 4.05E-03 lb/hr Emissions = (Capacity)*(AP-42 Section 11.26 Table 11.26-1 EF)/1000 |
| Uncontrolled Emissions | 0.16 | 0.071 | 0.018 | 0.018 tons/year | |

- 1 Emission factors include the control from a fabric filter, the baghouse control and hood capture efficiences are not applied to this emission calcuation. However, Bag Line 1 and Bag Line 2 are controlled by Baghouse #6.
 - ² There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. Emission factor is the best fit from AP42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing, "Packaging, with fabric filter (SCC 3-05-089-88)". Partition factors of 45% and 25% are used for PM10 and PM2.5 emission factors, respectively.
- ³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- ⁴ Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

OLAM Spices and Vegetables Ingredients Tote Line

| dul | Input Information | nation | |
|---------------------|-------------------|------------|-----------------|
| Unit(s): | | Tote | Tote Line |
| Description: | | Packagii | Packaging Lines |
| Permitted Capacity: | 4000 | lb/hr | |
| Operating hours: | 09′28 | hours/year | |

| | | Cri | iteria Poll | utant Emi | Criteria Pollutant Emission Rates per Unit |
|------------------------|-------|-----------|-------------------|--------------------|--|
| | PM | PM_{10} | PM _{2.5} | PM 2.5 Units Notes | Notes |
| | 0.009 | 0.004 | 0.001 | dl0001/dl | 0.001 Ib/1000lb AP-42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing ² |
| ETHISSION FACTORS | | 45% | 25% | % | % PM Content of Material, Sieve Analysis ^{3,4} |
| | 0.036 | 0.016 | 4.05E-03 | lb/hr | 0.016 4.05E-03 lb/hr Emissions = (Capacity)*(AP-42 Section 11.26 Table 11.26-1 EF)/1000 |
| Uncontrolled Emissions | 0.16 | 0.071 | 0.018 | 0.018 tons/year | |
| | | | | | |

- 1 Emission factors include the control from a fabric filter, the baghouse control and hood capture efficiences are not applied to this emission calcuation. However, Tote Line is controlled by Baghouse #6.
- ² There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. Emission factor is the best fit from AP42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing, "Packaging, with fabric filter (SCC 3-05-089-88)". Partition factors of 45% and 25% are used for PM10 and PM2.5 emission factors, respectively.
 - ³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- ⁴ Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

Cooking Blenders C-B

| | Input In | Input Information | |
|--|------------|-------------------|--|
| Unit(s): | | | C-BL |
| | Three Amer | rical Process 2 | Three Americal Process 270 and AP Scott 270x Cooking |
| Description: | | BI | Blenders |
| :: ; ;;;;;;; | 00077 | 개 / 기 | Three (3) cooking blenders each |
| capacity. | 24000 | 10/111 | with a capacity of 8,000 lb/hr. |
| Clyclone Efficiency ¹ : | 85% | % | |
| Baghouse Control Efficiency ¹ : | %6.66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| | | CI | riteria Pollu | Criteria Pollutant Emission Rates per Unit | ites per Unit |
|----------------------------|--------|------------------|-------------------|--|---|
| | PM | PM ₁₀ | PM _{2.5} | Units | Notes |
| Corticlo Ciac Dictail | 0.0012 | 0.00054 | 0.0001 | 9/1000IP | AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| Falticle Size Distribution | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| (EIIIISSIOIT FACTOLS) | 0.0036 | 0.0016 | 0.0004 | lb/1000lb | AP-42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing |
| Samily you | 86.40 | 38.88 | 9.72 | lb/hr | Emissions = (Capacity)*(AP-42 Section 11.26 Table 11.26-1 EF) |
| squillba Box Dailips | 378.43 | 170.29 | 42.57 | tons/year | |
| | 64.80 | 29.16 | 7.29 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| cookel/bienders | 283.82 | 127.72 | 31.93 | tons/year | |
| Total Uncontrolled | 151.20 | 68.04 | 17.01 | lb/hr | Emissions = (Box Dump) + (Cooker/Blenders) |
| Emissions | 662.26 | 298.02 | 74.50 | tons/year | |
| Total Controlled | 0.15 | 0.068 | 1.70E-02 | lb/hr | Emissions = (Box Dump/1000) + ((Cooker/Blenders)*(1-Baghouse)) |
| Emissions | 99.0 | 0.30 | 0.075 | tons/year | |

Notes

- This unit has an associated cyclone with a nominal product capture efficiency of 85%. The cyclone then discharges into Baghouse #4 which has a control efficiency of 99.9%. Kice Baghouse filter control efficiency is 99.9% on 5 micron, 99.99% on 10 micron, and 100% for 15+ micron grain dust particles per Kice Industries, Inc letter dated 11/12/08.
- 2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
 - 3 Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.

Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}, 5 The best fit emission factor for the Box Dump is from AP42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing, "Crushed talc storage bin loading, with fabric filter (SCC 3-05-089-14)." Partition factors of 45% and 25% are used for PM10 and PM2.5 emission factors, respectively.

OLAM Spices and Vegetables Ingredients Carton Line

| lnp | Input Information | mation | |
|---------------------|-------------------|-----------------|-------|
| Unit(s): | | Carton Line | ine |
| Description: | | Packaging Lines | Lines |
| Permitted Capacity: | 4000 | lb/hr | |
| Operating hours: | 8,760 | hours/year | |

| | | Cri | teria Pollu | utant Emi | Criteria Pollutant Emission Rates per Unit |
|------------------------|-------|-----------|-------------------|--------------------|--|
| | PM | PM_{10} | PM _{2.5} | PM 2.5 Units Notes | Notes |
| | 600.0 | 0.004 | 0.001 | dl0001/dl | 0.001 Ib/1000lb AP-42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing ² |
| EIIIISSIOII FACIOIS | | 45% | 25% | % | % PM Content of Material, Sieve Analysis ^{3,4} |
| | 0.036 | 0.016 | 4.05E-03 | lb/hr | 0.016 4.05E-03 lb/hr Emissions = (Capacity)*(AP-42 Section 11.26 Table 11.26-1 EF)/1000 |
| Uncontrolled Emissions | 0.16 | 0.071 | 0.018 | 0.018 tons/year | |

- 1 Emission factors include the control from a fabric filter, the baghouse control and hood capture efficiences are not applied to this emission calcuation. However, Carton Line is controlled by Baghouse #6.
 - ² There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. Emission factor is the best fit from AP42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing, "Packaging, with fabric filter (SCC 3-05-089-88)". Partition factors of 45% and 25% are used for PM10 and PM2.5 emission factors, respectively.
- ³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- ⁴ Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

| | Input Information | ormation | |
|--|-------------------|----------------|---|
| Unit(s): | | Q | DC-1 |
| Description: | Kice | Industries VS1 | Kice Industries VS100-10 Dust Collector |
| Capacity: | 350 | lb/hr | |
| Clyclone Efficiency ¹ : | 85% | % | |
| Baghouse Control Efficiency ¹ : | %6.66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| | PM | PM ₁₀ | Criteria Po PM 2.5 | Ilutant Emis Units | Criteria Pollutant Emission Rates per Unit Notes |
|-------------------------------|-------------------|------------------|-----------------------|-----------------------|--|
| | 0.0012 | 0.00054 | 0.0001 | lb/1000lb | lb/1000lb AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| Falucie Size Distribution and | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| EIIIISSIOII FACTOIS | 0.0036 | 0.0016 | 0.0004 | lb/1000lb | lb/1000lb AP-42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing ⁵ |
| | 1.26 | 0.57 | 0.14 | lb/hr | Emissions = (Capacity)*(AP-42 Section 11.26 Table 11.26-1 EF) |
| sor Dailps | 5.52 | 2.48 | 0.62 | tons/year | |
| | 0.95 | 0.43 | 0.11 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| | 4.14 | 1.86 | 0.47 | tons/year | |
| Total Uncontrolled | 2.21 | 0.99 | 0.25 | lb/hr | Emissions = (Corn Cutter Mill) + (Box Dumps) |
| Emissions | 99.6 | 4.35 | 1.09 | tons/year | |
| Total Controlled | 2.21E-03 9.92E-04 | 9.92E-04 | 2.48E-04 | lb/hr | Emissions = ((Box Dumps)/1000) + ((Corn Cutter Mill)*(1-Baghouse)) |
| Emissions | 9.66E-03 | 4.35E-03 | 1.09E-03 | tons/year | |

Note

- 1 This unit has an associated cyclone with a nominal product capture efficiency of 85%. The cyclone then discharges into Baghouse #10 which has a control efficieincy of 99.9%. Farr Baghouse uses Camcorp filters with a control efficiency of 99.9% for particulate greater than 0.5 microns in diameter per Camcorp "Dust Collector Efficiency Statement" dated 05/09/06.
- 2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
 - ³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.s}. 5 The best fit emission factor for the Box Dump is from AP42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing, "Crushed talc storage bin loading,
 - with fabric filter (SCC 3-05-089-14)." Partition factors of 45% and 25% are used for PM10 and PM2.5 emission factors, respectively.

Process Dust Collection

DC-2

| | Input In | Input Information | |
|--|----------|-------------------|--|
| Unit(s): | | | DC-2 |
| Description: | Kic | e Industries S | Kice Industries S100-10 Dust Collector |
| Capacity: | 24000 | lb/hr | |
| Clyclone Efficiency ¹ : | 85% | % | |
| Baghouse Control Efficiency ¹ : | %6.66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| ates per Unit | Notes | AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² | PM Content of Material, Sieve Analysis ^{3,4} | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) | | Emissions = (Uncontrolled Emissions)*(1-Baghouse Control Efficiency) | |
|---|-------------------|--|---|--|--------------------------------|--|----------------------|
| Criteria Pollutant Emission Rates per Unit | Units | lb/1000lb | % | lb/hr | tons/year | lb/hr | tons/year |
| riteria Pollu | PM _{2.5} | 0.0001 | 25% | 7.29 | 31.93 | 7.29E-03 | 0.032 |
| CI | PM ₁₀ | 0.00054 | 45% | 29.16 | 127.72 | 0.029 | 0.128 |
| | PM | 0.0012 | 1.8% | 64.80 | 283.82 | 0.065 | 0.284 |
| | | Particle Size Distribution | (Emission Factors) | | Officer till offed Effilssions | Cacinima bollow | Controlled Emissions |

1 This unit has an associated cyclone with a nominal product capture efficiency of 85%. The cyclone then discharges into Baghouse #8 which has a control efficiency of 99.9%. Kice Baghouse filter control

2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone efficiency is 99.9% on 5 micron, 99.99% on 10 micron, and 100% for 15+ micron grain dust particles per Kice Industries, Inc letter dated 11/12/08.

Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.

3 Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.

Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5},

Drum Lines

| dul | Input Information | nation | |
|---------------------|-------------------|------------------|---------------------------|
| Unit(s): | O . | rum Line 1 & | Drum Line 1 & Drum Line 2 |
| Description: | | Packaging Lines | ig Lines |
| Permitted Capacity: | 4000 lb/hr | lb/hr | |
| Operating hours: | 09′28 | 8,760 hours/year | |

| | | Cri | teria Pollu | utant Emi | Criteria Pollutant Emission Rates per Unit |
|------------------------|-------|-----------|-------------------|-------------------------------|--|
| | PM | PM_{10} | PM _{2.5} | PM _{2.5} Units Notes | Notes |
| | 0.009 | 0.004 | 0.001 | dl0001/dl | 0.001 Ib/1000lb AP-42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing ² |
| EIIIISSIOII FACTOIS | | 45% | 25% | % | % PM Content of Material, Sieve Analysis ^{3,4} |
| | 0.036 | 0.016 | 4.05E-03 | lb/hr | 0.016 4.05E-03 lb/hr Emissions = (Capacity)*(AP-42 Section 11.26 Table 11.26-1 EF)/1000 |
| Uncontrolled Emissions | 0.16 | 0.071 | 0.018 | 0.018 tons/year | |

- Baghouse #5 and Drum Line 2 are controlled by Baghouse #6.

 2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. Emission factor is 1 Emission factors include the control from a fabric filter, the bagbouse control and hood capture efficiences are not applied to this emission calcuation. However, Drum Line 1 is controlled by
 - the best fit from AP42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing, "Packaging, with fabric filter (SCC 3-05-089-88)". Partition factors of 45% and 25% are used for PM10 and PM2.5 emission factors, respectively.
- ³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- ⁴ Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

Final Line Hoppers F-HP

| | Input Ir | Input Information | |
|--|----------|-------------------|------------------------------------|
| Unit(s): | | | F-HP |
| Description: | T | hree Final Coc | Three Final Cooker/Blender Hoppers |
| | | | Three (3) final Cooker/Blender |
| Capacity: | 24000 | lb/hr | Hoppers each with a capacity of |
| | | | 8,000 lb/hr. |
| Clyclone Efficiency ¹ : | 85% | % | |
| Baghouse Control Efficiency ¹ : | %6.66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| | | Cr | iteria Pollu | Criteria Pollutant Emission Rates per Unit | ates per Unit |
|----------------------------|--------|------------------|-------------------|--|--|
| | PM | PM ₁₀ | PM _{2.5} | Units | Notes |
| Particle Size Distribution | 0.0012 | 0.00054 | 0.0001 | lb/1000lb | AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| (Emission Factors) | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| | 64.80 | 29.16 | 7.29 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| | 283.82 | 127.72 | 31.93 | tons/year | |
| | 0.065 | 0.029 | 7.29E-03 | lb/hr | Emissions = (Uncontrolled Emissions)*(1-Baghouse Control Efficiency) |
| Controlled Emissions | 0.28 | 0.13 | 0.032 | tons/year | |

Notes

- 1 This unit has an associated cyclone with a nominal product capture efficiency of 85%. The cyclone then discharges into Baghouse #7 which has a control efficiency of 99.9%. Kice Baghouse filter control efficiency is 99.9% on 5 micron, 99.99% on 10 micron, and 100% for 15+ micron grain dust particles per Kice Industries, Inc letter dated 11/12/08.
- 2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
 - 3 Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.

Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

Finishing Blenders F-BI

| | Input Ir | Input Information | |
|--|----------|-------------------|-----------------------------------|
| Unit(s): | | | F-BL |
| Description: | | Three Shop | Three Shop Finishing Blenders |
| | 24000 | ام/ دا م | Three (3) finishing blenders each |
| capacity. | 24000 | 10/11 | with a capacity of 8,000 lb/hr. |
| Clyclone Efficiency ¹ : | 85% | % | |
| Baghouse Control Efficiency ¹ : | %6.66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| | | Cr | iteria Pollu | Criteria Pollutant Emission Rates per Unit | tes per Unit |
|---------------------------------|--------|-----------|-------------------|--|--|
| | PM | PM_{10} | PM _{2.5} | Units | Notes |
| Particle Size Distribution | 0.0012 | 0.00054 | 0.0001 | lb/1000lb | AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| (Emission Factors) | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| lacontrolled Emiceione | 64.80 | 29.16 | 7.29 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| Officeriti Officer Effilissions | 283.82 | 127.72 | 31.93 | tons/year | |
| | 0.065 | 0.029 | 7.29E-03 | lb/hr | Emissions = (Uncontrolled Emissions)*(1-Baghouse Control Efficiency) |
| Controlled Emissions | 0.28 | 0.13 | 0.032 | tons/year | |

Motos

Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

This unit has an associated cyclone with a nominal product capture efficiency of 85%. The cyclone then discharges into Baghouse #7 which has a control efficiency of 99.9%. Kice Baghouse filter control efficiency, 99.9% on 5 micron, 99.9% on 10 micron, and 100% for 15+ micron grain dust particles per Kice Industries, Inc letter dated 11/12/08.

² There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone

Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
3 Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.

_

Proctor Mill

₽-1

| | Input Inf | Input Information | |
|--|-----------|-------------------|----------------------------|
| Unit(s): | | V | M-1 |
| Description: | | Prater MM-3 | Prater MM-36 Proctor Mill |
| Capacity: | 7500 | lb/hr | |
| Clyclone Efficiency ¹ : | 85% | % | |
| Baghouse Control Efficiency ¹ : | %6'66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| | | Cri | teria Pollut | ant Emissio | Criteria Pollutant Emission Rates per Unit |
|---------------------------------------|--------|-----------|-------------------|-------------|--|
| | PM | PM_{10} | PM _{2.5} | Units | Notes |
| Particle Size Distribution | 0.0012 | 0.00054 | 0.0001 | lb/1000lb | lb/1000lb AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| (Emission Factors) | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| | 20.25 | 9.11 | 2.28 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| | 88.70 | 39.91 | 9.98 | tons/year | |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.020 | 9.11E-03 | 2.28E-03 | lb/hr | Emissions = (Uncontrolled Emissions)*(1-Baghouse Control Efficiency) |
| | 0.089 | 0.040 | 0.010 | tons/year | |
| | | | | | |

- 1 The raw from each mill is pneumatically conveyed to a cyclone which has a nominal product capture efficiency of 85% where it discharges into Baghouse #1 which has a control efficiency of
- 2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
 - 3 Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- 4 Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

| | Input Inf | Input Information | |
|--|-----------|-------------------|----------------------------|
| Unit(s): | | ν | M-3 |
| Description: | | Prater MN | Prater MM-36 OP Mill |
| Capacity: | 7500 | lb/hr | |
| Clyclone Efficiency ¹ : | %58 | % | |
| Baghouse Control Efficiency ¹ : | %6′66 | % | Manufacturer Specification |
| Operating hours: | 092'8 | hours/year | |

| | | | Criteria Pc | Illutant Emis | Criteria Pollutant Emission Rates per Unit |
|--|--------|------------------|-------------------|----------------------|--|
| | PM | PM ₁₀ | PM _{2.5} | Units | Notes |
| Particle Size Distribution and | 0.0012 | 0.00054 | 0.0001 | lb/1000lb | lb/1000lb AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| Emission Factors | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| Longing Ciffor Emissions | 20.25 | 9.11 | 2.28 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| nanging silter Ellissions | 88.70 | 39.91 | 9.98 | tons/year | |
| 0.00 0. | 20.25 | 9.11 | 2.28 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| MIII SILLEI ETTIISSIONS | 88.70 | 39.91 | 9.98 | tons/year | |
| Total Uncontrolled | 40.50 | 18.23 | 4.56 | lb/hr | Emissions = (Hanging Sifter) + (Mill Sifter) |
| Emissions | 177.39 | 79.83 | 19.96 | tons/year | |
| Total Controlled | 0.041 | 0.018 | 0.005 | lb/hr | Emissions = (Hanging sifter + Mill Sifter)*(1-Baghouse) |
| Emissions | 0.18 | 0.080 | 0.020 | tons/year | |

- 1 The raw from each mill is pneumatically conveyed to a cyclone which has a nominal product capture efficiency of 85% where it discharges into Baghouse #3 which has a control efficiency of 99.9%. Mikrobul Baghouse uses Camcorp filters with a control efficiency of 99,9% for particulate greater than 0.5 microns in diameter per Camcorp "Dust Collector Efficiency Statement" dated 05/09/06.
- ² There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
 - ³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM_{2.5}.

Finish Mills

M-4, M-5, and M-6

| | Input Inf | Input Information | |
|--|-----------|-------------------|-----------------------------|
| Unit(s): | | M-4, M-5 | M-4, M-5, and M-6 |
| Description: | | Bauermeiste | Bauermeister UT Finish Mill |
| Capacity: | 8000 | lb/hr | |
| Clyclone Efficiency ¹ : | 82% | % | |
| Baghouse Control Efficiency ¹ : | %6.66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| | | Crit | eria Pollut | ant Emissio | Criteria Pollutant Emission Rates per Unit |
|-----------------------------|--------|-----------|-------------------|-------------|--|
| | PM | PM_{10} | PM _{2.5} | Units | Notes |
| Particle Size Distribution | 0.0012 | 0.00054 | 0.0001 | lb/1000lb | lb/1000lb AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| (Emission Factors) | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| I lacoutrollod Emissions | 21.60 | 9.72 | 2.43 | lb/hr | Emissions = (Capacity)*(PM Content)*(1 - Cyclone Efficiency) |
| Olicoliti olied Ellissiolis | 94.61 | 42.57 | 10.64 | tons/year | |
| | 0.022 | 0.010 | 2.43E-03 | ıh/dl | Emissions = (Uncontrolled Emissions)*(1-Baghouse Control Efficiency) |
| COLUI Olled Ellissions | 0.095 | 0.043 | 0.011 | tons/year | |

Note

- 1 The raw from each mill is pneumatically conveyed to a cyclone which has a nominal product capture efficiency of 85% where it discharges into Baghouse #6 which has a control efficiency of 99.9%. Kice Baghouse filter control efficiency is 99.9% on 5 micron, 99.99% on 10 micron, and 100% for 15+ micron grain dust particles per Kice Industries, Inc letter dated 11/12/08
- 2 There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.
 - 3 Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.
- 4 Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM₁₀. No more than 10% of spice mass can be smaller than PM_{2.5}.

Proctor Blender P

| | Input Information | ormation | |
|--|-------------------|------------|----------------------------|
| Unit(s): | | Ь | P-BL |
| Description: | | Proctor | Proctor Blender |
| Capacity: | 7500 | lb/hr | |
| Clyclone Efficiency ¹ : | 85% | % | |
| Baghouse Control Efficiency ¹ : | %6.66 | % | Manufacturer Specification |
| Operating hours: | 8,760 | hours/year | |

| | | | Criteria Pc | Illutant Emis | Criteria Pollutant Emission Rates per Unit |
|--------------------------------|--------|------------------|-------------------|----------------------|--|
| | PM | PM ₁₀ | PM _{2.5} | Units | Notes |
| Particle Size Distribution and | 0.0012 | 0.00054 | 0.0001 | lb/1000lb | lb/1000lb AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled) ² |
| Emission Factors | 1.8% | 45% | 25% | % | PM Content of Material, Sieve Analysis ^{3,4} |
| | 20.25 | 9.11 | 2.28 | lb/hr | Emissions = (Capacity) * (PM Content) * (1 - Cyclone Efficiency) |
| Ulicoliti Olled Elliissiolis | 88.70 | 39.91 | 9.98 | tons/year | |
| | 0.020 | 0.009 | 0.002 | lb/hr | Emissions = (Blender Emissions)*(1-Baghouse Control Efficiency) |
| Controlled Emissions | 0.09 | 0.04 | 0.010 | tons/year | |

Note

Determined through a sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. No more than 45% of spice mass can be smaller than PM_{2.5}.

¹ This unit has an associated cyclone with a nominal product capture efficiency of 85%. The cyclone then discharges into Baghouse #3 which has a control efficiency of 99.9%. MikroPul Baghouse uses Camcorp filters with a control efficiency of 99.9% for particulate greater than 0.5 microns in diameter per Camcorp "Dust Collector Efficiency Statement" dated 05/09/06.

² There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution.

³ Determined through the sieve analysis performed by ConAgra Foods, Inc on 10/29/2008. 1.8 % of the 250 micron particles will pass through a 230 micron mesh screen.

[.]

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. |
| |

OLAM has calculated emissions from the production lines and from natural gas combustion equipment separately. The production lines produced particulate matter emissions and the calculations follow the process flow diagrams from Section 4 of this application.

Emission points vary with each line; as a general rule the production lines are sealed systems in which material is moved either by enclosed screw conveyors, gravity feed from hoppers to process equipment, or pneumatically. Emissions occur when material is introduced to the system (i.e., box dumps), where material leaves a pneumatic transfer portion of the system and enters a bult transport portion (i.e., cyclones). Some of these emission points are vented directly into the plant, and these points are not included in the plant emissions as they are not emitted to the atmosphere.

The particle distribution at this facility was determined through a sieve analysis performed on October 29, 2008. The plant produces two sizes of products, 60 Mesh and 34 Mesh (250-micron and 500-micron diameter particles, respectively). Forty percent (40%) of the final products distributed by this plant are the 60 Mesh products. The other sixty percent (60%) of the final products are the 34 Mesh products. The smallest sieve at this facility is a 230 Mesh screen (63-micron diameter particles). The results of the 2008 sieve analysis show that 1.8% of the 60 Mesh product will pass through a 230 Mesh screen. As a worst-case scenario for particulate emissions, it is assumed that 100% of the product processed at the Olam Spices and Vegetable Ingredients, Inc facility is 60 Mesh and that all of the particles are particulate matter.

Production Lines (C-BL, DC-1 &-2, F-BL, F-HP, P-BL)

- AP-42 Section 11.26-1 Emission Factors for Talc Processing
- Sieve Analysis

Emissions are most often vented from cyclones and box dumps to a baghouse. Cyclones serve as both process and emission control equipment in most cases, and material from some of the baghouses is also returned to the process. The basic calculation methodology for production line emissions is as follows:

(Production line PM Emissions) = (box dump emissions) + (cyclone emissions) + (filing emissions)

Boiler and Dryers (BB-1, BB-4, BB-6, GB-1, GB-2):

- AP-42 Table 1.4-1 & 2
- Manufacturer Specifications
- 40 CFR 98 Subpart Tables & Table A-1

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The packaged dryer units (GB-1 and GB-2) are collections of smaller burner units. The basic calculation methodology for boiler and dryer emissions are as follows:

(Boiler/Dryer Criteria and HAPs Emissions) = (AP-42 Emission Factor) x (heat input rating) / (heat value)

Packaging Lines (Bagline-1 & -2, Carton Line, Drumline-1 & -2, Tote Line)

- AP-42 Section 11.26-1 Emission Factors for Talc Processing
- Sieve Analysis

There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. Emission factor is the best fit from AP-42 Section 11.26 Table 11.26-1 Emissions Factors for Talc Processing, "Packaging, with fabric filter (SCC 3-05-089-88)". Partition factors of 45% and 25% are used for PM_{10} and $PM_{2.5}$ emission factors, respectively. The basic calculation methodology for packaging line emissions is as follows:

(PM Emissions) = (AP-42 Emission Factor) x (Unit Capacity) / (1000)

Mills (M-1, M-3, M-4, M-5, M-6, M-7)

- AP-42 Table 11.19.2-2-1, Tertiary Crushing (controlled)
- Sieve Analysis

The throughput of each line is assumed to be equal to the maximum capacity of the line mills. There is no emission data quantifying VOC HAP or PM emissions from dehydrated fruit and vegetable industry are available for use in the development of emission factors. AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing is used as the best fit for estimating particle distribution. There are three types of mills at this facility. The basic calculation methodology for proctor mill and finish mill emissions are as follows:

(Uncontrolled PM Emissions) = (PM Content) x (Unit Capacity) x (1 – Cyclone Efficiency) (Controlled PM Emissions) = (Uncontrolled PM Emissions) x (1 – Baghouse Control Efficiency)

The basic calculation methodology for OP mill emissions is as follows:

(Hanging Sifter/Mill Sifter PM Emissions) = (PM Content) x (Unit Capacity) x (1 – Cyclone Efficiency)
(Total Uncontrolled PM Emissions) = (Hanging Sifter Emissions) + (Mill Sifter Emissions)
(Controlled PM Emissions) = (Uncontrolled PM Emissions) x (1 – Baghouse Control Efficiency)

Table 11.26-1. EMISSION FACTORS FOR TALC PROCESSING^a

EMISSION FACTOR RATING: D

| | Total PM ^b | CO ₂ |
|--|-----------------------|------------------|
| Process | lb/1,000 lb | lb/1,000 lb |
| Natural gas-fired crude ore drying with fabric filter ^c (SCC 3-05-089-09) | 0.0020 | ND |
| Primary crushing, with fabric filter ^d (SCC 3-05-089-11) | 0.00074 | NA |
| Crushed talc railcar loading ^e (SCC 3-05-089-12) | 0.00049 | NA |
| Screening, with fabric filter ^f (SCC 3-05-089-17) | 0.0043 | NA |
| Grinding, with fabric filter ^g (SCC 3-05-089-45) | 0.022 | NA |
| Grinding with heated makeup air, with fabric filter (SCC 3-05-089-47) | 0.022^{g} | 9.3 ^h |
| Classifying, with fabric filter ^j (SCC 3-05-089-50) | 0.00077 | NA |
| Pellet drying, with fabric filter ^k (SCC 3-05-089-55) | 0.032 | ND |
| Pneumatic conveyor venting, with fabric filter ^m (SCC 3-05-089-58) | 0.0018 | NA |
| Packaging, with fabric filter ⁿ (SCC 3-05-089-88) | 0.0090 | NA |
| Crushed talc storage bin loading, with fabric filter ^p (SCC 3-05-089-14) | 0.0036 | NA |
| Ground talc storage bin loading, with fabric filter ^q (SCC 3-05-089-49) | 0.0016 | NA |
| Final product storage bin loading, with fabric filter ^p (SCC 3-05-089-85) | 0.0035 | NA |

^a Units are lb/1,000 lb of production unless noted. One lb/1,000 lb is equal to 1 kg/Mg. SCC = Source Classification Code. NA = not applicable. ND = no data.

b Total PM includes the PM collected in the front half and the inorganic PM caught in the back half (impingers) of a Method 5 sampling train.

^c Reference 15. Filterable PM fraction is 60%, and condensible inorganic fraction is 40%.

d References 10,13,15.

e Reference 14.

^f References 10,13. For crushed talc ore.

g References 11,13.

^h References 10-11. For roller mill using heated makeup air. EMISSION FACTOR RATING: E.

^j Reference 13. For ground talc.

^k Reference 13. Filterable PM fraction is 56%, and condensible inorganic fraction is 44%. EMISSION FACTOR RATING: E.

^m Reference 13. For final product. Units are lb/1,000 lb of material conveyed.

ⁿ Reference 10,13.

P Reference 13. Units are lb/1,000 lb of material loaded into storage bin.

^q Reference 12. Units are lb/1,000 lb of material loaded into storage bin.

Table 11.26-2. SUMMARY OF PARTICLE SIZE DISTRIBUTIONS FOR TALC PROCESSING $^{\rm a}$

| Process | Diameter, μ m | Cumulative Percent Less Than Diameter |
|--------------------------------------|-------------------|--|
| Primary crushing | 55.4 | 91.3 |
| (SCC 3-05-089-11) | 34.9 | 78.2 |
| | 22.0 | 56.7 |
| | 17.4 | 47.2 |
| | 11.0 | 38.8 |
| | 6.9 | 21.4 |
| | 3.0 | 3.0 |
| rinding SCC 3-05-089-45) | 2.0 | 0.94 |
| | 1.0 | 0.11 |
| Grinding | 29.0 | 100.0 |
| Grinding SCC 3-05-089-45) | 18.8 | 99.7 |
| | 14.9 | 99.4 |
| | 11.9 | 97.1 |
| | 9.4 | 80.8 |
| | 7.5 | 43.3 |
| | 4.7 | 7.5 |
| | 3.0 | 2.1 |
| | 1.9 | 0.28 |
| | 1.0 | 0.04 |
| Storage, bagging, air classification | 43.9 | 99.9 |
| (SCC 3-05-089-85,-88,-50) | 27.7 | 97.9 |
| | 17.4 | 86.6 |
| | 13.8 | 73.2 |
| | 11.0 | 56.8 |
| | 6.9 | 24.5 |
| | 4.4 | 7.4 |
| | 3.0 | 3.1 |
| | 2.0 | 0.92 |
| | 1.0 | 0.10 |

^a Reference 5. Optical procedures used to determine particle size distribution, rather than inertial separators. Data are suspect. SCC = Source Classification Code.

Table 11.19.2-1 (Metric Units). EMISSION FACTORS FOR CRUSHED STONE PROCESSING OPERATIONS (kg/Mg)^a

| Source b | Total Particulate | EMISSION FACTOR | Total PM-10 | EMISSION FACTOR | Total PM-2.5 | EMISSION FACTOR |
|---|----------------------|--------------------|----------------------------|--------------------|-------------------------|--------------------|
| | Matter r,s | RATING | PIVI-10 | RATING | PWI-2.3 | RATING |
| Primary Crushing (SCC 3-05-020-01) | ND | | ND^{n} | | ND^n | |
| Primary Crushing (controlled) (SCC 3-05-020-01) | ND | | ND^n | | ND^n | |
| Secondary Crushing (SCC 3-05-020-02) | ND | | ND^n | | ND ⁿ | |
| Secondary Crushing (controlled) (SCC 3-05-020-02) | ND | | ND^{n} | | ND ⁿ | |
| Tertiary Crushing (SCC 3-050030-03) | 0.0027 ^d | Е | 0.0012° | С | ND ⁿ | |
| Tertiary Crushing (controlled) (SCC 3-05-020-03) | 0.0006^{d} | E | 0.00027 ^p | С | 0.00005 ^q | Е |
| Fines Crushing (SCC 3-05-020-05) | 0.0195 ^e | Е | 0.0075 ^e | Е | ND | |
| Fines Crushing (controlled) (SCC 3-05-020-05) | 0.0015 ^f | Е | $0.0006^{\rm f}$ | Е | 0.000035 ^q | Е |
| Screening (SCC 3-05-020-02, 03) | 0.0125° | Е | 0.0043 ¹ | С | ND | |
| Screening (controlled) (SCC 3-05-020-02, 03) | 0.0011 ^d | Е | 0.00037 ^m | С | 0.000025 ^q | Е |
| Fines Screening (SCC 3-05-020-21 | 0.15 ^g | Е | 0.036^{g} | Е | ND | |
| Fines Screening (controlled) (SCC 3-05-020-21) | 0.0018 ^g | Е | 0.0011 ^g | Е | ND | |
| Conveyor Transfer Point (SCC 3-05-020-06) | 0.0015 ^h | Е | 0.00055 ^h | D | ND | |
| Conveyor Transfer Point (controlled) (SCC 3-05-020-06) | 0.00007 ⁱ | Е | 2.3 x 10 ⁻⁵ⁱ | D | 6.5 x 10 ^{-6q} | Е |
| Wet Drilling - Unfragmented Stone (SCC 3-05-020-10) | ND | | 4.0 x 10 ^{-5j} | Е | ND | |
| Truck Unloading - Fragmented Stone (SCC 3-05-020-31) | ND | | 8.0 x 10 ^{-6j} | Е | ND | |
| Truck Loading - Conveyor, crushed stone (SCC 3-05-020-32) | ND | | 5.0 x 10 ^{-5k} | Е | ND | |

- a. Emission factors represent uncontrolled emissions unless noted. Emission factors in kg/Mg of material throughput. SCC = Source Classification Code. ND = No data.
- b. Controlled sources (with wet suppression) are those that are part of the processing plant that employs current wet suppression technology similar to the study group. The moisture content of the study group without wet suppression systems operating (uncontrolled) ranged from 0.21 to 1.3 percent, and the same facilities operating wet suppression systems (controlled) ranged from 0.55 to 2.88 percent. Due to carry over of the small amount of moisture required, it has been shown that each source, with the exception of crushers, does not need to employ direct water sprays. Although the moisture content was the only variable measured, other process features may have as much influence on emissions from a given source. Visual observations from each source under normal operating conditions are probably the best indicator of which emission factor is most appropriate. Plants that employ substandard control measures as indicated by visual observations should use the uncontrolled factor with appropriate control efficiency that best reflects the effectiveness of the controls employed.
- c. References 1, 3, 7, and 8

Table 11.19.2-2 (English Units). EMISSION FACTORS FOR CRUSHED STONE PROCESSING OPERATIONS (lb/Ton)^a

| Source b | Total Particulate Matter ^{r,s} | EMISSION FACTOR RATING | Total PM-10 | EMISSION FACTOR RATING | Total PM-2.5 | EMISSION FACTOR RATING |
|---|---|------------------------------|----------------------------|------------------------------|-------------------------|------------------------------|
| Primary Crushing (SCC 3-05-020-01) | ND | | ND^{n} | | ND ⁿ | |
| Primary Crushing (controlled) (SCC 3-05-020-01) | ND | | ND^{n} | | ND^n | |
| Secondary Crushing (SCC 3-05-020-02) | ND | | ND^{n} | | ND^n | |
| Secondary Crushing (controlled) (SCC 3-05-020-02) | ND | | ND^n | | ND ⁿ | |
| Tertiary Crushing (SCC 3-050030-03) | $0.0054^{\rm d}$ | Е | 0.0024° | С | ND^n | |
| Tertiary Crushing (controlled) (SCC 3-05-020-03) | 0.0012^{d} | Е | 0.00054 ^p | С | 0.00010 ^q | Е |
| Fines Crushing (SCC 3-05-020-05) | 0.0390 ^e | Е | 0.0150 ^e | Е | ND | |
| Fines Crushing (controlled) (SCC 3-05-020-05) | $0.0030^{\rm f}$ | Е | 0.0012 ^f | Е | 0.000070 ^q | Е |
| Screening (SCC 3-05-020-02, 03) | 0.025° | Е | 0.0087^{l} | С | ND | |
| Screening (controlled) (SCC 3-05-020-02, 03) | 0.0022 ^d | Е | 0.00074 ^m | С | 0.000050 ^q | Е |
| Fines Screening (SCC 3-05-020-21) | 0.30^{g} | Е | 0.072 ^g | Е | ND | |
| Fines Screening (controlled) (SCC 3-05-020-21) | $0.0036^{\rm g}$ | Е | 0.0022 ^g | Е | ND | |
| Conveyor Transfer Point (SCC 3-05-020-06) | 0.0030 ^h | Е | 0.00110 ^h | D | ND | |
| Conveyor Transfer Point (controlled) (SCC 3-05-020-06) | 0.00014 ⁱ | Е | 4.6 x 10 ⁻⁵ⁱ | D | 1.3 x 10 ^{-5q} | Е |
| Wet Drilling - Unfragmented Stone (SCC 3-05-020-10) | ND | | 8.0 x 10 ^{-5j} | Е | ND | |
| Truck Unloading -Fragmented Stone (SCC 3-05-020-31) | ND | | 1.6 x 10 ^{-5j} | Е | ND | |
| Truck Loading - Conveyor, crushed stone (SCC 3-05-020-32) | ND | | 0.00010^{k} | Е | ND | |

- a. Emission factors represent uncontrolled emissions unless noted. Emission factors in lb/Ton of material of throughput. SCC = Source Classification Code. ND = No data.
- b. Controlled sources (with wet suppression) are those that are part of the processing plant that employs current wet suppression technology similar to the study group. The moisture content of the study group without wet suppression systems operating (uncontrolled) ranged from 0.21 to 1.3 percent, and the same facilities operating wet suppression systems (controlled) ranged from 0.55 to 2.88 percent. Due to carry over of the small amount of moisture required, it has been shown that each source, with the exception of crushers, does not need to employ direct water sprays. Although the moisture content was the only variable measured, other process features may have as much influence on emissions from a given source. Visual observations from each source under normal operating conditions are probably the best indicator of which emission factor is most appropriate. Plants that employ substandard control measures as indicated by visual observations should use the uncontrolled factor with an appropriate control efficiency that best reflects the effectiveness of the controls employed.
- c. References 1, 3, 7, and 8
- d. References 3, 7, and 8

Table 11.19.2-3 (Metric Units). EMISSION FACTORS FOR PULVERIZED MINERAL PROCESSING OPERATIONS ^a

| Source b | Total | EMISSION | Total | EMISSION | Total | EMISSION |
|--|-------------|----------|--------|----------|--------|----------|
| | Particulate | FACTOR | PM-10 | FACTOR | PM-2.5 | FACTOR |
| | Matter | RATING | | RATING | | RATING |
| Grinding (Dry) with Fabric Filter | 0.0202 | D | 0.0169 | В | 0.0060 | В |
| Control (SCC 3-05-038-11) | | | | | | |
| Classifiers (Dry) with Fabric Filter Control (SCC 3-05-038-12) | 0.0112 | Е | 0.0052 | Е | 0.0020 | E |
| Flash Drying with Fabric Filter Control (SCC 3-05-038-35) | 0.0134 | С | 0.0073 | С | 0.0042 | С |
| Product Storage with Fabric Filter Control (SCC 3-05-38-13) | 0.0055 | Е | 0.0008 | Е | 0.0003 | E |

a. Emission factors represent controlled emissions unless noted. Emission factors are in kg/Mg of material throughput.

Table 11.19.2-4 (English Units). EMISSION FACTORS FOR PULVERIZED MINERAL PROCESSING OPERATIONS ^a

| Source b | Total | EMISSION | Total | EMISSION | Total | EMISSION |
|--|-------------|----------|--------|----------|--------|----------|
| | Particulate | FACTOR | PM-10 | FACTOR | PM-2.5 | FACTOR |
| | Matter | RATING | | RATING | | RATING |
| Grinding (Dry) with Fabric Filter Control (SCC 3-05-038-11) | 0.0404 | D | 0.0339 | В | 0.0121 | В |
| Classifiers (Dry) with Fabric Filter Control (SCC 3-05-038-12) | 0.0225 | E | 0.0104 | E | 0.0041 | E |
| Flash Drying with Fabric Filter Control (SCC 3-05-038-35) | 0.0268 | С | 0.0146 | С | 0.0083 | С |
| Product Storage with Fabric Filter Control (SCC 3-05-038-13) | 0.0099 | Е | 0.0016 | Е | 0.0006 | Е |

a. Emission factors represent controlled emissions unless noted. Emission factors are in lb/Ton of material throughput.

b. Date from references 16 through 23

b. Data from references 16 through 23

Table 1.4-1. EMISSION FACTORS FOR NITROGEN OXIDES (NO_x) AND CARBON MONOXIDE (CO) FROM NATURAL GAS COMBUSTION²

| Combinetor Type | N | NO_x^b | 00 | |
|---|---|------------------------------|---|------------------------------|
| (MMBtu/hr Heat Input) [SCC] | Emission Factor (lb/10 ⁶ scf) | Emission Factor Rating | Emission Factor (lb/10 ⁶ scf) | Emission Factor Rating |
| Large Wall-Fired Boilers | | | | |
| [1-01-006-01, 1-02-006-01, 1-03-006-01] | | | | |
| Uncontrolled (Pre-NSPS)° | 280 | A | 84 | В |
| Uncontrolled (Post-NSPS)° | 190 | A | 84 | В |
| Controlled - Low NO _x burners | 140 | A | 84 | В |
| Controlled - Flue gas recirculation | 100 | D | 84 | В |
| Small Boilers (<100) | | | | |
| [1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03] | | | | |
| Uncontrolled | 100 | В | 84 | В |
| Controlled - Low NO _x burners | 50 | D | 84 | В |
| Controlled - Low NO _x burners/Flue gas recirculation | 32 | C | 84 | В |
| Tangential-Fired Boilers (All Sizes) [1-01-006-04] | | | | |
| Uncontrolled | 170 | A | 24 | C |
| Controlled - Flue gas recirculation | 92 | D | 86 | D |
| Residential Furnaces (<0.3) [No SCC] | | | | |
| Uncontrolled | 94 | В | 40 | В |

Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. To convert from 1b/10 6 sof to kg/106 m³, multiply by 16. Emission factors are based on an average natural gas higher heating value of 1,020 Btu/scf. To convert from 1b/10 6 sof to 1b/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. SCC = Source Classification Code. ND = no data. NA = not applicable. Expressed as NO₂. For large and small wall fired boilers with SNCR control, apply a 24 percent reduction to the appropriate NO x emission factor. For tangential-fired boilers with SNCR control, apply a 13 percent reduction to the appropriate NO x emission factor. NSPS=New Source Performance Standard as defined in 40 CFR 60 Subparts D and Db. Post-NSPS units are boilers with greater than 250 MMBtu/hr of heat input that commenced construction modification, or reconstruction after June 19, 1984.

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

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

- a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. To convert from lb/10⁶ scf to 1b/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.
- ^b Based on approximately 100% conversion of fuel carbon to CO_2 . $CO_2[lb/10^6 \text{ scf}] = (3.67)$ (CON) (C)(D), where CON = fractional conversion of fuel carbon to CO_2 , C = carbon content of fuel by weight (0.76), and D = density of fuel, $4.2 \times 10^4 \text{ lb/} 10^6 \text{ scf}$.
- ^c All PM (total, condensible, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM₁₀, PM_{2.5} or PM₁ emissions. Total PM is the sum of the filterable PM and condensible PM. Condensible PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.
- d Based on 100% conversion of fuel sulfur to SO₂.

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

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

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

Particle Distribution Analysis Results

Marcelle van Reenen

From:

Thomas, Mike (Food and Ingredients) [Mike Thomas@conagrafoods.com]

Sent:

1

Thursday, October 30, 2008 7:27 AM

To:

pat nelson@hazair com, Marcelle van Reenen

Cc:

Balster, Marian (Food and Ingredients)

Subject:

FW Granulations

Follow Up Flag: Flag Status: Follow up Flagged

Attached are our cious applicit for both 100 and 220 much

Attached are our sieve analysis for both 100 and 230 mesh screens. I believe the blue numbers are the ones you need % thru the screen.

Mike

From: Castrejon, Viken (Food and Ingredients) Sent: Wednesday, October 29, 2008 12:43 PM To: Thomas, Mike (Food and Ingredients)

Subject: Granulations

Mike,

Your results below

60 mesh products (40% of volume)

- + 100 mesh screen (on) @ 62.1%
- -100 mesh screen (thru) @ 37.9%
- +230 mesh screen (on) @ 98.2%
- -230 mesh screen (thru) @ 1.8%

34 mesh products (60% of volume)

- +100 mesh screen (on) @ 83.7%
- -100 mesh screen (thru) @ 16.3%
- +230 mesh screen (on) @ 98.6%
- -230 mesh screen (thru) @ 1.6%

Thanks,

Viken

Baghouse Filter Control Efficiencies for Camcorp/CHUBB Baghouse



Phone: 913-831-0740
Fax: 913-831-9271
E-Mail: info@camcorpinc.com
Web Site: www.camcorpinc.com
8224 Nieman Road

DUST COLLECTOR EFFICIENCY STATEMENT (BAGHOUSE FILTER)

DATE:

5/9/06

Company Attn: Address City, State ConAgra Foods Mike Thomas 1650 W. Amador St. Las Cruces, NM 88005

P.O. Number/Project:

CC2825-T

Camcorp Model:

20TR12x320

Application:

Nuisance dust collection

Product: Air Volume: Ratio:

Chili powder 24,175 CFM 3.93 to 1

Filter Media:

16oz. Polyester bags

Efficiency:

Maximum particle emissions will not exceed 0.02 GRS/SCF of exhaust gas through the baghouse at 99.9% efficiency above 2 Micron Particles with less than 40

grains/SCF with a sufficient dust cake on bag.

Baghouse Filter Control Efficiencies for the MikroPul and Farr Baghouses



Phone: 913-831-0740 Fax: 913-831-9271

E-Mail: info@camcorpinc.com Web Site: www.camcorpinc.com

9732 Pflumm Road Lanava KS 66215

DUST COLLECTOR EFFICIENCY STATEMENT (CARTRIDGE FILTER)

DATE: 5/9/06

Company:

ConAgra Foods

Attn:

Mike Thomas

Address:

1650 W. Amador St.

City, State:

Las Cruces, NM 88005

Project #:

CC2825-T

Camcorp Model:

4SFBH45x16 Bin Vent

Application:

Dust Collection

Product:

Chili Powder 1,357 ACFM

Air Volume: Ratio:

3 to 1

Filter Media:

100% Spun Bond Polyester Cartridge

Efficiency:

99.9% Efficient on particulate above .5 micron with less

than 30 grains/SCF.

CamCorp guarantees that the "Maximum Particulate Emissions to Atmosphere" will not exceed: 00.02 GRS/SCF of exhaust gas.

Baghouse Filter Control Efficiencies for the Kice Baghouses



Engineering and Manufacturing

Skilled Air for Industry

KICE INDUSTRIES, INC.

WICHITA, KANSAS U.S.A.

11/12/08

Marcelle van Reenen 929 Quincy Street NE Albuquerque, NM 87110

Dear Marcelle:

This letter is in reply to your inquiry about filtration efficiency of Kice baghouse filters.

Quite frankly, Kice Industries, like most other OEM's, purchase their filter bags on the open market. Kice presently purchases 16 oz. "singed" polyester filter bags with a 2.5 denier strand. The dust collection rating for this weight and denier of media is 99.9% on 5 micron, 99.99% on 10 micron, and 100% for 15+ micron grain dust particles.

The following is a list of particulate emission rates from Kice baghouse filters in similar applications. They have been obtained through standard isokinetic testing of similar Kice filters in the field with standard polyester felt bags. Particulate concentrations in the filter exhaust air have been determined as follows:

- 1) Grain elevator in Alabama 0.001 to 0.004 grain per actual cubic foot of exhaust.
- Flour mill in Utah 0.0007 to 0.0015 grain per dry standard cubic foot of exhaust.
- Grain processing plant in Iowa negligible emissions, less than 0.0046 grain per standard cubic foot of exhaust.
- Grain elevator in Oklahoma 0.0024 grain per dry standard cubic foot of filter exhaust, average of three tests.
- 5) Barge receiving in Alabama 0.0026 grain per DSCF, average of three tests.

Edited test results with reference numbers are available. We trust this information satisfies your inquiry.

Very truly yours,

Jeff Kice Kice Industries, Inc.

> Corporate Headquarters and Plant 5500 N Mill Heights Drive Wichita, KS 67219 Phone (316) 744-7151 Fax: (316) 744-7355

e-mail: sales@kice.com

web site: www.kice.com

Saved Date: 1/6/2025

Section 8

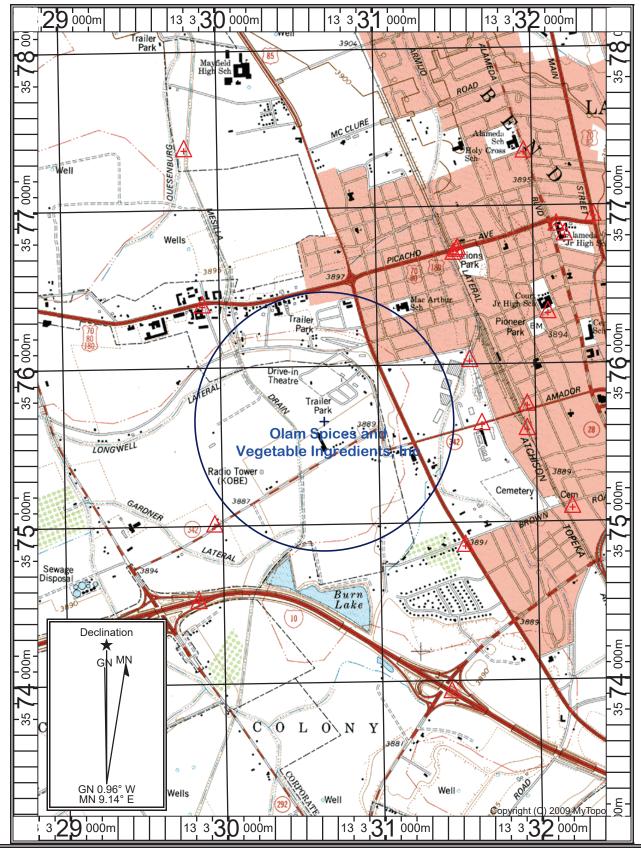
Map(s)

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 | |

The map of the OLAM facility is attached as follows:



Map Name: LAS CRUCES (NM) Scale: 1 inch = 2,000 ft. Horizontal Datum: WGS84 Print Date: 08/27/24 Map Center: 13 0330639 E 3575635 N

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. \(\overline{\pi}\) 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 <u>classified or legal</u> 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 <u>display</u> 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.

The above Public Notice documents are attached as follows:

See Reverse for Instructions

PS Form 3800, July 2014

U.S. Postal Service™ U.S. Postal Service™ CERTIFIED MAIL® RECEIPT **CERTIFIED MAIL® RECEIPT** 4236 4229 Domestic Mail Only Domestic Mail Only For delivery information, visit our website at www.usps.com® For delivery information, visit our 4722 4722 Postage \$0.00 \$ Postage US POSTAGE 10/11/2024 062S12395454 TOOO Certified Fee Certified Fee 0001 87113 000031729 Return Receipt Fee (Endorsement Required) Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) 2870 870 Total Postage & Fees \$ Total Postage & Fees \$ П 7074 Sent To Town of Mesilla Las Cruces City Manager 7 170 Street & Api. No., 2231 Avenida de Mesilla Street & Apt. No., or PO Box No. 700 N Main St. PO BOX 10 City, State, ZIP+4 Mesilla, NM 88046 Las Cruces, NM 88001 PS Form 3800, July 2014 PS Form 3800, July 2014 See Reverse for Instructions See Reverse for Instructions

\$0.00

US POSTAGE 10/11/2024

062S12395454 87113 000031727

List of Posted Notice Locations

- 1. OLAM Spices and Vegetables Ingredients Facility Entrance
- 2. Eagle Grocery, 108 E Corpening St, La Mesa, NM 88004
- 3. Thomas Branigan Library, 200 E Picacho Ave, Las Cruces, NM 88001
- 4. United States Postal Service, 16140 S Highway 28, La Mesa, NM 88044

- Account Search
- <u>View Created Report(s)</u>
- Help?
- Logout Public

Account: P0001065 *Mill Levy does not include Special District Rates such as: Lower Rio Grande Flood Levy, Hueco Levy, Mclead Watershed Levy, Caballo Soil and Water Conservation Levy, and La Union Watershed Levy.

1 of 5 Results Next->

| Location | Owner Information | Assessn | Assessment History | |
|----------------------------------|--|----------------------|-------------------------|-------------|
| Situs Address 1650 W AMADOR AVE | Owner Name OLAM WEST COAST INC | Actual (2 | 024) | \$5,586,536 |
| Tax Area 2IN NR - 2IN NR | In Care Of Name NOWLIN DAVID | Primary | Taxable | \$1,862,179 |
| Parcel Number 4-006-135-116-443 | Owner Address 205 E RIVER PARK CIR STE 310 | Tax Ar | ea: 2IN_1 | NR Mill |
| Legal Summary S: 13 T: 23S R: 1E | FRESNO, CA 93720 | Le | Levy : 34.102000 | |
| Neighborhood V23 - VALLEY-PICHO | | Type | Actual | Assessed |
| | | Personal Property | \$5,586,536 | \$1,862,179 |

Transfers

No Transfer Documents

Images

| Tax Year | , | Taxes | | |
|-------------|-------|-------|-------------|---|
| | *2024 | | \$63,504.04 | |
| | 2023 | | \$35,845.80 | |
| * Estimated | | | | , |
| | | | | |





CERTIFIED MAIL 7014 2870 0001 4722 4243

RETURN RECEIPT REQUESTED (certified mail is required, return receipt is optional)

Dear County Official,

OLAM West Coast, Inc. announces its application to the New Mexico Environment Department for an air quality permit for the **modification** of its **OLAM Spices and Vegetables Ingredients** facility. The expected date of application submittal to the Air Quality Bureau is **October 18, 2024.**

The exact location for the proposed facility known as **Olam Spices and Vegetable Ingredients, Inc,** is at **1650 W. Amador Ave, Las Cruces, NM 88005.** The approximate location of this facility is **0.33** miles **West** of **the intersection of W Amador Ave and S Valley Dr** in **Doña Ana** county.

The proposed **modifcation** consists of the removal of a cryo mill, four seed dryers, and three boilers. The instillation of a new boiler as well as the replacement of two boilers, a finish mill, and a steam sterilizer.

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 |
|--|-----------------|---------------|
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| PM _{2.5} | 0.64 | 2.80 |
| Sulfur Dioxide (SO ₂) | 0.40 | 1.74 |
| Nitrogen Oxides (NO _x) | 6.94 | 30.38 |
| Carbon Monoxide (CO) | 5.83 | 25.52 |
| Volatile Organic Compounds (VOC) | 0.38 | 1.67 |
| Total sum of all Hazardous Air Pollutants (HAPs) | 0.13 | 0.57 |
| Green House Gas Emissions as Total CO₂e | n/a | n/a |

The standard and maximum operating schedules of the facility will be 24 hours, 7 days a week and a maximum of 52 weeks per year

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

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

Attención

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Sincerely,

OLAM West Coast, Inc., 205 E. River Park Circle, Suite 310 Fresno, CA 93720.

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.

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General Posting of Notices – Certification

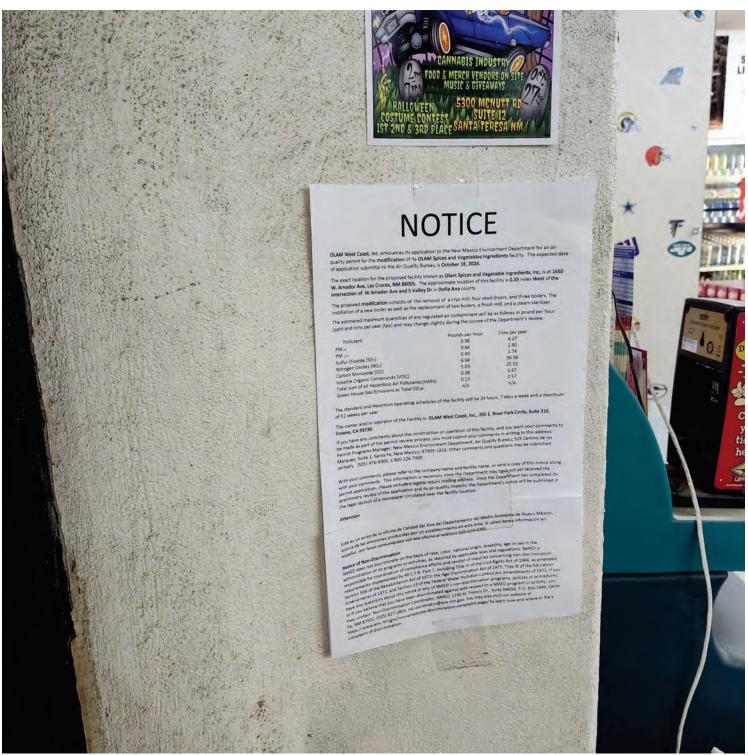
I, _Christopher Granados_, the undersigned, certify that on {10/18/24}, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in Las Cruces of DOÑA ANA County, State of New Mexico on the following dates:

- 1. Facility entrance {10/14/24}
- 2. {Eagle Grocery}{10/14/24}
- 3. {Thomas Branigan Library}{10/14/24}
- 4. {United States Postal Service}{10/14/24}

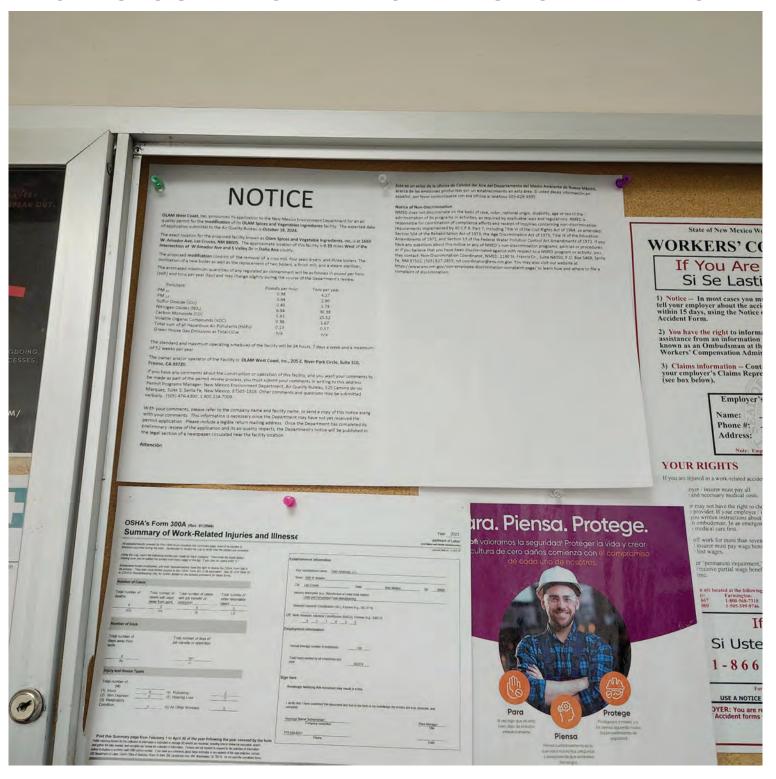
| Signed this & day of October, 2024, | |
|-------------------------------------|------------------|
| Signature | 10/18/24 Date |
| Christopher Granados Printed Name | |

Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

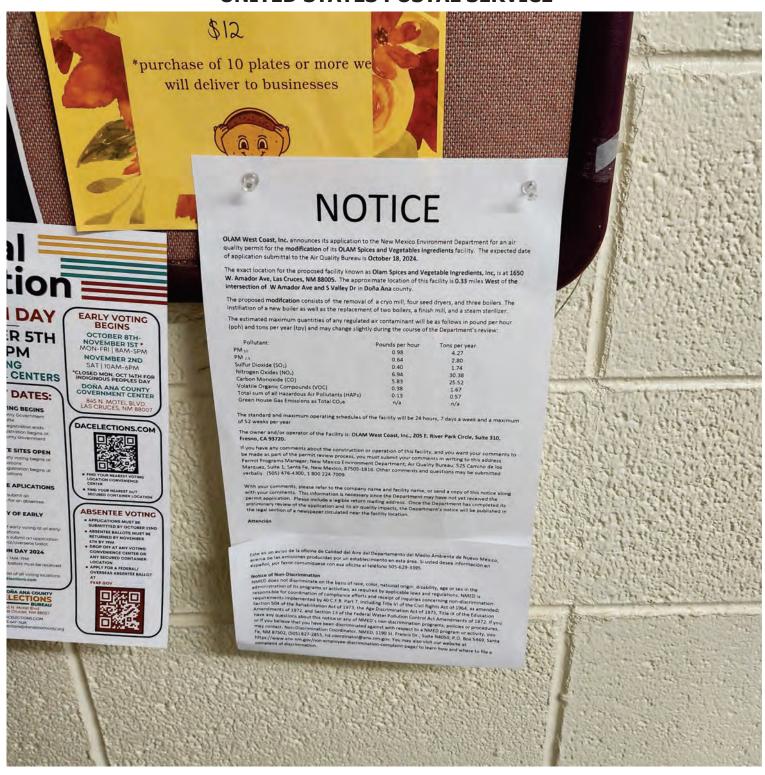
EAGLE GROCERY



OLAM SPICES AND VEGETABLE INGREDIENTS FACILITY ENTRANCE



UNITED STATES POSTAL SERVICE



THOMAS BRANIGAN LIBRARY



Table of Noticed Neighbors

| Name | Address | City | State | Zip Code |
|-----------------------------|------------------------------------|------------|-------|------------|
| Yes Valley Verde LLC | 5050 SO Syracuse Street Suite 1200 | Denver | 00 | 80237 |
| Sagebrush LLC | PO Box 194 | Fairacres | ΣΝ | 88033 |
| A and B Land Investment LLC | PO Box 1779 | Las Cruces | Σ | 88004 |
| 1510 Amador LLC | 2000 E Lohman Suite C | Las Cruces | ΣΝ | 88001 |
| Amador Holding & Leasing Co | 1530 W Amador | Las Cruces | ΣN | 88005-4007 |

Table of Noticed Municipalites

| Name | Address | City | State | Zip Code |
|-------------------------|------------------------------------|------------|-------|----------|
| Las Cruces City Manager | 700 N Main St | Las Cruces | MΝ | 88001 |
| Town of Mesilla | 2231 Avenida de Mesilla, PO Box 10 | Mesilla | NΜ | 88046 |

Table of Noticed Counties

| Name | Address | City | State | Zip Code |
|---|------------------|------------|-------|----------|
| | | fa | |) J |
| Doña Ana County - County Manager's Office | 845 N Motel Blvd | Las Cruces | ΣN | 88007 |

Table of Noticed Tribes

| | 99911 | | | |
|------|--|------|-------|----------|
| Name | Address | City | State | Zip Code |
| | N/A- No tribes within the 10-mile radius | | | |

Submittal of Public Service Announcement – Certification

| submitted a public service announcement to FM | certify that on October 22, 2024 and October 28, 2024, I News Talk 92.7 / AM 1450 KOBE that serves the sty, New Mexico, in which the source is or is proposed to be |
|---|---|
| Signed this <u>30</u> day of <u>October</u> , <u>2024</u> , | |
| Signature Signature | |
| Beth Morley Printed Name | |
| Consultant Title {APPLICANT OR RELATIONSHIP TO APPLICA | NT} |



PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Trinity Consultants, Inc. Trinity Consultants, Inc. 9400 Holly AVE NE # B Albuquerque NM 87122-2968

STATE OF WISCONSIN, COUNTY OF BROWN

The Las Cruces Sun News, a newspaper published in the city of Las Cruces, Dona Ana County, State of New Mexico, and personal knowledge of the facts herein state and that the notice hereto annexed was Published in said newspapers in the issue:

10/16/2024

and that the fees charged are legal. Sworn to and subscribed before on 10/16/2024

Legal Clerk

Notary. State of WI. County of Brown

My commission expires

Publication Cost:

\$215.62

Tax Amount:

\$17.38

Payment Cost:

\$233.00

Order No:

10671677

of Copies:

Customer No:

1353025

4

PO #:

THIS IS NOT AN INVOICE!

Please do not use this form for payment remittance

KATHLEEN ALLEN Notary Public State of Wisconsin

NOTICE OF AIR QUALITY PERMIT APPLICATION

OLAM West Coast, Inc. announces its application to the New Mexico Environment Department for an air quality permit for the modification of its OLAM Spices and Vegetables Ingredients facility. The expected date of application submittal to the Air Quality Bureau is October 18, 2024.

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The standard and maximum operating schedules of the facility will be 24 hours, 7 days a week and a maximum of 52 weeks per year

The owner and/or operator of the Facility is: OLAM West Coast, Inc., 205 E. River Park Circle, Suite 310, Fresno, CA 93720.

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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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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My commission expires

Publication Cost:

\$120.75

Tax Amount:

\$9.74 \$130.49

Payment Cost: Order No:

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of Copies:

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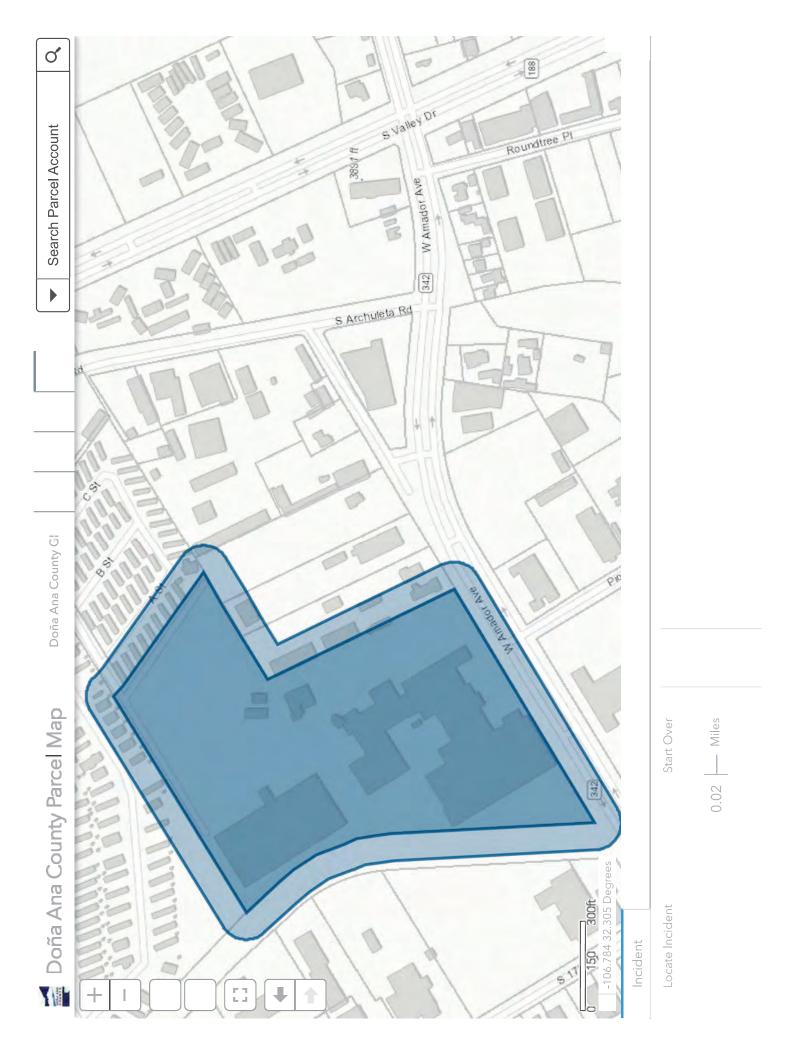
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Saved Date: 1/6/2025

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.

OLAM Spices and Vegetable Ingredients, Inc. (OLAM) dries and mills whole chilies and other vegetable ingredients to produce various blends of chili powders and other vegetable products and store, package, and shipment. The OLAM SVI facility is located approximately within the city boundaries of Las Cruces, at 1650 W. Amador Avenue, Las Cruces, NM, 88005 in Dona Ana County. OLAM operates 8760 hours a year.

The facility operates 24 hours, seven (7) days a week. Routine operations include the arrival of trucks with raw vegetables. A hopper receives the vegetables and sends them to be sorted and the elimination of rocks, dirt, debris, and metal objects. During the harvest season between September and December, truck traffic is expected between 06:00 to 18:00 hours all week long. During the off-season, OLAM allows truck traffic between 08:00 to 16:00 during the weekdays.

There are seven production lines:

- 8. Dehydration and seed line;
- 9. Proctor Mill line;
- 10. Flake Room Line;
- 11. Steam Screw Room and OP Mill Line;
- 12. Cooking/Blending Line;
- 13. Packaging Line; and
- 14. Steam sterilizer Line

The warehouse is not included as an emission source since the chili powder and ingredients are stored in sealed bags and bins resulting in no particulate matter emissions.

This section details the regulated emission units and operations included in each production line, the associated emission unit capacities, and control devices.

Dehydration and Seed Line

Whole raw or dried chili pods are processed for seed extraction and dried for product milling. There are two chili dryers (GB-1 & GB-2). Fresh and dry pods are cleaned and then dehydrated by applying a uniform layer of pods on a conveyor belt that travels through the enclosed dryers. GB-1 is subdivided into several compartments, each with one or two natural gas-fired burners. The maximum capacity of all the burners combined is 29.6 MMBtu/hr. The twelve burners exhaust to five vertical stacks. Each of the burner capacities from front to back are as follows:

- 5.2 MMBtu/hr
- 3.6 MMBtu/hr
- 3.6 MMBtu/hr
- 2.8 MMBtu/hr
- 2.8 MMBtu/hr
- 2.8 MMBtu/hr
- 2.4 MMBtu/hr
- 2.8 MMBtu/hr1.2 MMBtu/hr
- 0.8 MMBtu/hr
- 0.8 MMBtu/hr

GB-2 is also subdivided into several compartments, each with one or two natural gas-fired burners. The maximum combined capacity of the burners is 24.6 MMBtu/hr. The ten burners exhaust to four vertical stacks. Each of the burner capacities from front to back are as follows:

- 9.0 MMBtu/hr
- 2.8 MMBtu/hr
- 2.8 MMBtu/hr
- 2.4 MMBtu/hr
- 2.4 MMBtu/hr
- 1.6 MMBtu/hr
- 1.2 MMBtu/hr
- 0.8 MMBtu/hr
- 0.8 MMBtu/hr

Select batches of fresh pods are cleaned and deseeded for planting. The fresh chili pod pulp from the deseeding operation is diverted to the chili drying process described above.

Proctor Mill Line

The Proctor Mill Line can be loaded either by a box dump or by enclosed screw conveyor from the Dehydration and Seed Line weight hopper containing the primary dehydrated product. Two box dumps, equipment unit numbers STER#56 and PM#37 are used for this line. The Proctor Mill uses one enclosed Prater hammer mill with a maximum capacity of 7,500 lb/hr. The emission unit number for this mill is M-1. The primary dehydrated product is milled, then pneumatically transported to a cyclone and baghouse. The solids collected in the cyclone and baghouse are gravity fed to a sifter, where the oversize material goes back to the mill and the properly sized material is fed to a blender. The blender mixes the chili powder with other ingredients. The material is then either boxed for storage in the warehouse or pneumatically transported to the Cooker/Blender Line for finishing.

Emissions from box dump PM#37 are exhausted indoors, and emissions from STER#56 are exhausted from the box dump as part of Dust Collection #2 (DC-2) to a CHUBB baghouse (BH#8). Emissions are exhausted from the mill cyclone to a Kice baghouse (BH#1). Emissions are exhausted from the proctor blender cyclone (P-BL) to a MikroPul baghouse (BH#3). Process emissions from this line are cited in this application as emission source unit numbers DC-2, P-BL, and M-1.

Flake Room Line

The Flake Room Line is loaded by one box dump, equipment unit number FLK#5, for dehydrated chili pods and ingredient dumping. The flake Room operation uses an enclosed corn cutter mill, cyclone, sifters, and screw transport. This mill produces 1/4 inch, 1/8 inch, and "fine" sized products. The capacity of the mill is 350 lb/hr. The nuisance dust from the box dump and mill cyclone is vented to a Farr baghouse (BH#10). The dust collection process is emission source unit number DC-1. Process emissions for this line are cited in this application as if generated solely by DC-1.

Steam Screw Room and OP Mill Line

Product and ingredients are loaded into the Steam Screw Room and OP Mill Line via three box dumps, equipment unit numbers STER#56, STER #63, and OP-CB27. The product is processed by the steam screw, a sifter, and goes either to the Prater hammer mill for further grinding or to the blender and finally the filling operation. Product can be loaded to bypass the steam screw and/or the hanging sifter. Particulate emissions from the box dumps are vented as part of Dust Control #2 (DC-2) to a CHUBB baghouse, emission control unit BH#8. The Prater hammer mill is emission source unit number M-3 and has a maximum capacity of 7,500 lb/hr. Particulate emissions generated in the milling process are vented from a cyclone and on to a MikroPul baghouse (BH#3). Emissions from this line are designated as components of DC-2 and the milling operation M-3.

Cooking/Blending Line

The Cooking/Blending Line is where the majority of products to completion. Four box dumps (INP1#5, INP2#17, INP#26, and INP#25) load material into a pneumatic transport line that leads to four cyclones, which feed the hoppers of three cooker/blender units (C-BL). Emissions are vented from the box dumps directly to a Kice baghouse (BH#4) including emissions from the cooker/blender cyclones. Each cooker/blender has a capacity of 8,000 lb/hr. The cooker/blenders are heated by boiler BB-1. The boiler vents to a separate stack without emission controls.

The product is transported from the cooker/blenders through chilled pneumatic tubes to a cyclone. The emissions are vented from the cyclone to a CHUBB baghouse (BH#8). The chilled product is transported to three hoppers (Use Bins) which feed the cyclones, sifter, and mills. Ingredients can be added to the line at this point by three box dumps (BL1#7, BL2#32, and BL3#64. The combined box dumps are assigned emission unit number D-DS and are vented inside the building. The material from the Use Bins is transported to three cyclones and then the mill sifter. The over-sized product is transported to four mills

then back to the mill sifter cyclones. The four Baumeister hammer mills (M-4, M-5, M-6, M-7) each have a capacity of 8,000 lb/hr

The particulate emissions are vented from the mill sifter cyclones to a Kice baghouse (BH#6). The fine-sized product is transported to three more cyclones then the finishing blenders (F-BL). Each finishing blender has a capacity of 8,000 lb/hr. The particulate emissions from the finishing blender cyclones are vented to a Kice baghouse (BH#7). The finished product is pneumatically transported to three cyclones that feed the three final line hoppers (F-HP). Emissions are vented from the F-HP cyclones to a Kice baghouse (BH#5). Finally, the F-HP hoppers gravity feed the Packaging Line. Emissions from the Cooking/Blending Line are designated by the following emission unit numbers: C-BL. M-4, M-5, M-6, M-7, F-BL, and F-HP.

Packaging Line

The plant's final products are chili powder, chili pepper, paprika, and red pepper. The plant has a cumulative annual production of 105,120 tons. Product from multiple lines described in this application can be packaged at the end of each line if the desired product is produced. All of these filling operations are conducted inside the building, with closed doors. Because of the relatively large size distribution of the product and the fact that the filling operations occur in enclosed rooms, the emission from the filling operations have not included in this permit application.

The Packaging Line is loaded directly and exclusively from the Cooker/Blender Line. The final product from the Cooker/Blender Line is processed by a sifter that distributes the product to one or all of six packaging lines:

- Bag Lines 1 & 2
- Carton Line
- Tote Line
- Drum Line 1 & 2

Each packaging line has one shrouded pipe dispenser that is used to manually fill the containers/bags for shipping. Each filling area has a hood that vents to a baghouse. The particulate emissions from filling on the two Bag Lines, Carton Line, and two Drum Lines are vented to a Kice baghouse (BH#6). The particulate emissions from the Tote Line are vented to a Kice baghouse (BH#5). Process emissions from this line are cited in this application exactly as they are named: Bag Line 1, Bag Line 2, Carton Line, Tote Line, Drum Line 1, and Drum Line 2.

Steam Sterilizer Line

The steam sterilizers (SS-1 and SS-2) each utilize a 2 MMBtu/hr natural-gas fired boiler (BB-4 and BB-6). Two box dumps have the capacity to introduce 20,000 lbs/hr of chili powder to the steam sterilizer process line of SS-1 and 5,000 lbs/hr to steam sterilizer process line SS-2; particulate matter emissions from these box dumps will be vented to a baghouse (BH#11). Particulate matter from the steam sterilization process will be vented to a cyclone and then BH#11 for SS-1 and BH#12 for SS-2. After completion of steam treatment to kill bacteria, the chili powder will either be pneumatically transported to the existing packaging line or boxed for storage in the warehouse. Process emissions from this line are cited in this application as SS-1, SS-2, BB-4, and BB-6.

C. M

Saved Date: 1/6/2025

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): Refer to Table 2-A

| <u>SIC Code</u> : Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, <u>OR</u> surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source. |
|--|
| ☑ Yes □ No |
| <u>Common Ownership or Control</u> : Surrounding or associated sources are under common ownership or control as this source. |
| ☑ Yes □ No |
| <u>Contiguous or Adjacent</u> : Surrounding or associated sources are contiguous or adjacent with this source. |
| ☑ Yes □ No |
| 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 |

☐ 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):

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.

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

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.

Form-Section 13 last revised: 5/8/2023 Section 13, Page 1 Saved Date: 1/6/2025

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 | General Provisions apply to Notice of Intent, Construction, and Title V permit applications. |
| 20.2.3 NMAC | Ambient Air Quality Standards | Yes | Facility | If subject, this would normally apply to the entire facility. 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. |
| | NMAAQS | | | Title V applications, see exemption at 20.2.3.9 NMAC The TSP NM ambient air quality standard was repealed by the EIB effective November 30, 2018. |
| | | | | OLAM has an Excess Emissions Mitigation/SSM Plan to comply with 20.2.7 NMAC. |
| 20.2.7 NMAC | Excess Emissions | Yes | Facility | OLAM has not emitted excess emissions of an air contaminant, including a fugitive emission, in excess of the quantity, rate, opacity or concentration specified by an air quality regulation or NSR Permit No. 1744M4R1 conditions. |
| 20.2.23 NMAC | Fugitive Dust Control | No for permitted facilities, possible for NOIs | Facility | While Olam Spices and Vegetable Ingredients, Inc is in Doña Ana County, this is a permitted facility and therefore this regulation is not applicable. |
| | | | | This regulation does not apply to internal combustion equipment such as engines. It only applies to external combustion equipment such as heaters or boilers. |
| 20.2.33 NMAC | Gas Burning Equipment - Nitrogen Dioxide | Yes | Facility | Choose all that apply: ☑ This facility has new gas burning equipment (external combustion emission sources, such as gas fired boilers and heaters) having a heat input of greater than 1,000,000 million British Thermal Units per year per unit |
| | | | | ☑ This facility has existing gas burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit |
| | | | | Note: "New gas burning equipment" means gas burning equipment, the construction or modification of which is commenced after February 17, 1972. |
| 20.2.34 NMAC | Oil Burning Equipment: NO ₂ | No | N/A | OLAM does not operate oil burning equipment; therefore, this regulation is not applicable. |
| 20.2.35 NMAC | Natural Gas Processing Plant – Sulfur | No | N/A | This facility is not a natural gas processing plant. This regulation is not applicable. |
| 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 | N/A | N/A | This facility does not process or store hydrocarbons. This regulation is not applicable. |
| 20.2.39 NMAC | Sulfur Recovery Plant - Sulfur | N/A | N/A | This facility is not a Sulfur Recovery Plant. This regulation is not applicable. |
| 20.2.50 NMAC | Oil and Gas Sector - Ozone Precursor Pollutants | N/A | N/A | This facility is not part of the Oil and Gas Sector. This regulation is not applicable. |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | Yes | BB-1, BB-4, BB-6, GB-1, GB-2 | This facility operates natural gas fueled heaters and boilers subject to 20.2.61 NMAC. OLAM will comply with this regulation where appliacable. This regulation that limits opacity to 20% applies to Stationary Combustion Equipment, such as engines, boilers, heaters, and flares unless your equipment is |

| 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.) | |
|---------------------------------|---|-----------------------------------|-------------------------------------|---|--|
| | | | | NMAC (see 20.2.61.109 NMAC). If equipment at your facility was subject to the repealed regulation 20.2.37 NMAC it is now subject to 20.2.61 NMAC. | |
| 20.2.70 NMAC | Operating Permits | No | N/A | This facility is a Minor Source. This regulation is not applicable. | |
| 20.2.71 NMAC | Operating Permit Fees | No | N/A | This facility is not subject to 20.2.70 NMAC; therefore, this regulation is not applicable. | |
| 20.2.72 NMAC | Construction Permits | Yes | Facility | Unit GB-1 and GB-2 have a PER of more than 10 TPY of NO ₂ . | |
| 20.2.73 NMAC | NOI & Emissions Inventory Requirements | Yes | Facility | This facility emits more than 10 tons of NOx and CO in any calendar year. OLAM will comply with this state regulation. | |
| 20.2.74 NMAC | Permits – Prevention of Significant Deterioration (PSD) | No | N/A | This facility does not have a PSD. This regulation is not applicable. | |
| 20.2.75 NMAC | Construction Permit Fees | Yes | Facility | OLAM is submitting an application pursuant to 20.2.72 NMAC; therefore, this regulation applies. OLAM will comply with this state regulation. | |
| 20.2.77 NMAC | New Source Performance | No | N/A | There are no units at this facility subject to the requirements of 40 CFR Part 60. This regulation is not applicable. | |
| 20.2.78 NMAC | Emission Standards for HAPS | No | N/A | This facility does not emit hazardous air pollutants which are subject to the requirements of 40 CFR Part 61. This regulation is not applicable. | |
| 20.2.79 NMAC | Permits – Nonattainment Areas | No | N/A | This facility is not located in a nonattainment area. This regulation is not applicable. | |
| 20.2.80 NMAC | Stack Heights | No | N/A | None cited as applicable in NSR Permit 1744-M4. This regulation is not applicable. | |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | N/A | Units Subject to 40 CFR 63 | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63. | |

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 | FR 60, General Provisions No N/A | | N/A | Subpart in 40 CFR 60 does not apply to any units in this facility. | |
| NSPS 40 CFR60.40a, Subpart Da | Subpart Da, Performance Standards for Electric Utility Steam Generating Units | No | N/A | There are no Electric Utility Steam Generating Units at this facility. This subpart is not applicable. | |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: | |
|---|---|--------------------------------|---------------------------|---|--|
| NSPS 40 CFR60.40b Subpart Db | Electric Utility Steam Generating Units | No | N/A | There are no Electric Utility Steam Generating Units at this facility. This subpart is not applicable. | |
| 40 CFR 60.40c, Subpart Dc | Standards of Performance for Small Industrial- Commercial- Institutional Steam Generating Units | No | N/A | This facility does not contain small industrial, commercial, or institutional Steam generating Units. This subpart is not applicable. | |
| NSPS 40 CFR 60, Subpart Ka | Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 | No | N/A | There are no Storage Vessels for Petroleum Liquids at this facility. This subpart is not applicable. | |
| 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 | There are no Volatile Organic Liquid Storage Vessels at this facility. This subpart is not applicable. | |
| NSPS 40 CFR 60.330 Subpart GG | Stationary Gas Turbines | No | N/A | There are no Stationary Gas Turbines at this facility. This subpart is not applicable. | |
| NSPS 40 CFR 60, Subpart KKK | Leaks of VOC from Onshore Gas Plants | No | N/A | This facility is not a Gas Plant. This subpart is not applicable. | |
| NSPS 40 CFR Part 60 Subpart LLL | Standards of Performance for Onshore Natural Gas Processing: SO ₂ Emissions | No | N/A | This facility is not a Natural Gas Processing Plant This subpart is not applicable. | |
| 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 | No | N/A | This facility does not produce, transmit, or distribute crude oil or natural gas. This subpart is not applicable. | |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: | |
|--|---|--------------------------------|---------------------------|--|--|
| | reconstruction commenced after August 23, 2011 and before September 18, 2015 | | | | |
| 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 | This facility does not produce, transmit, or distribute crude oil or natural gas. This subpart is not applicable. | |
| NSPS 40 CFR 60 Subpart IIII | Standards of performance for Stationary Compression Ignition Internal Combustion Engines | No | N/A | This facility does not have any compression ignition internal combustion engines. This subpart is not applicable. | |
| NSPS 40 CFR Part 60 Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | No | N/A | This facility does not have any stationary spark ignition internal combustion engines. This subpart is not applicable. | |
| NSPS 40 CFR 60 Subpart TTTT | Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units | No | N/A | This facility does not have any electric generating units. This subpart is not applicable. | |
| NSPS 40 CFR 60 Subpart UUUU | Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units | No | N/A | This facility does not have any electric utility generating units. This subpart is not applicable. | |
| NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf | Standards of performance for Municipal Solid Waste (MSW) Landfills | No | N/A | This facility is not a Landfill. This subpart is not applicable. | |
| NESHAP 40 CFR 61 Subpart A | General Provisions | No | N/A | No other Subpart in 40 CFR 61 applies; therefore, this subpart is not applicable. | |
| NESHAP 40 CFR 61 Subpart E | National Emission Standards for Mercury | No | N/A | This facility does not process mercury. This subpart is not applicable. | |
| NESHAP | National Emission Standards for Equipment Leaks | No | N/A | This facility does not produce, transmit, or distribute crude oil or natural gas. This subpart is not applicable. | |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: | |
|--|--|--------------------------------|---------------------------|--|--|
| 40 CFR 61 Subpart V | (Fugitive Emission Sources) | | | | |
| MACT 40 CFR 63, Subpart A | General Provisions | No | N/A | Applies if any other Subpart in 40 CFR 63 applies. | |
| MACT 40 CFR 63.760 Subpart HH | Oil and Natural Gas Production Facilities | No | N/A | This facility does not produce, transmit, or distribute crude oil or natural gas. This subpart is not applicable. | |
| MACT 40 CFR 63 Subpart HHH | | No | N/A | This facility is not Subject to the requirements of 40 CFR 63 Subpart HHH. | |
| 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 | This facility does not own or operate Major Industrial, Commercial, and Institutional Boilers & Process Heaters. This subpart is not applicable. | |
| MACT 40 CFR 63 Subpart UUUUU | National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit | No | N/A | This facility does not own or operate Coal & Oil Fire Electric Utility Steam Generating Units. This subpart is not applicable. | |
| MACT 40 CFR 63 Subpart ZZZZ | National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT) | No | N/A | This facility does not own or operate a stationary RICE. This subpart is not applicable. | |
| 40 CFR 64 | Compliance Assurance Monitoring | No | N/A | NESHAP 40 CFR 64 does not apply to this facility. | |
| 40 CFR 68 | Chemical Accident Prevention | No | N/A | This facility does not have more than a threshold quantity of a regulated substance in a process. As determined under 40 CFR 68.115. This subpart is not applicable. | |
| Title IV – Acid Rain 40 CFR 72 | Acid Rain | No | N/A | This facility is not an acid rain source. This subpart is not applicable. | |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: | |
|--------------------------------------|--|---|---------------------------|--|--|
| Title IV – Acid Rain 40 CFR 73 | Sulfur Dioxide Allowance Emissions | | | This facility is not an acid rain source. This subpart is not applicable. | |
| Title IV-Acid Rain 40 CFR 75 | Continuous Emissions Monitoring | No | N/A | This facility does not generate commercial electric power or electric power for sale. his subpart is not applicable. | |
| Title IV – Acid Rain 40 CFR 76 | Acid Rain Nitrogen Oxides Emission Reduction Program | No N/A This facility is not an acid rain source. This subpart is not applical | | This facility is not an acid rain source. This subpart is not applicable. | |
| Title VI – 40 CFR 82 | Protection of Stratospheric Ozone | No | N/A | This facility does not service, maintain, or repair class I or class II appliances nor dispose of the appliances. | |

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 <u>Operational Plan to Mitigate Emissions During Startups</u>, <u>Shutdowns</u>, <u>and Emergencies</u> 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.

If OLAM experiences a malfunction, startup, or shutdown, at this facility that results in the exceedance of the requested emission limits of this application, then it will notify the Department verbally as soon as possible, but no later than 24 hours after the start of the next regular business day. Additionally, OLAM will submit written notification within 10 days after the start of the next regular business day following the initial occurrence of the excess emissions.

This facility uses clean-burning, commercial pipeline natural gas as fuel for its boilers and heaters. The fuel burns clean and will not produce smoke loke other denser fuels such as diesel or fuel oil even as the temperature of the burners transitions into a steady state. The most common failure of a baghouse is excess accumulation of material on the filter, which causes a rise in pressure drop and alerts the plant staff that the filter requires maintenance; this form of failure does not result in excess emissions.

The baghouses operated by OLAM are subject to failure due to pinholes or punctures of the filter fabric or the loss of pulse air. The failure of fabric filters might cause an increase from 0% to $\ge 20\%$ opacity. The baghouses cannot be operated at a lower inlet flow and must be shut down to mitigate emissions.

Shut Down Procedure

During a shut-down of the dryer units, the sequence is as follows:

- 1. The process removes the application of thermal energy by the shutdown of natural gas flow to the heaters or boilers.
- 2. The Unit stops delivery of the product and begins internal recirculation to allow the spices to cool down.
- 3. Alternative step: The process removes the spices from the unit as it begins to remove thermal energy.
- 4. The control process will stop the cyclone and baghouse blowers once the mill and blender units are empty of spices to complete the shutdown.

Once Maintenance repairs the torn fabric filters or has re-established pulse air, the baghouses are ready to operate. The steps to restart the processes are:

Start-up Procedure

During start-up the dryer units, the process sequence is as follows:

1. The control system turns the blowers for the cyclones and baghouses.

- 2. The unit starts accepting spices into the dryers or cooking units in recirculation mode. The dryers and cooking units require the presence of spices to serve as a thermal load. The absence of a thermal load in the dryers and cookers can cause incoming spices to burn and char causing an unusable product.
- 3. The Process applies thermal energy from either heaters or steam.

OLAM conducts maintenance—scheduled or unscheduled—only on equipment that has been shut down, so no excess emissions are anticipated. In the case of scheduled maintenance that does result in excess emissions, OLAM will notify the Department verbally no later than 24 hours prior to the initial occurrence of the excess emissions and will submit written notification within 10 days after the start of the next regular business day.

The OLAM facility is a minor source for all criteria pollutants and does not foresee an eventuality in the process that might cause a severe exceedance of emissions. During environmental contingencies or extraordinary events in the Doña Ana County, OLAM will coordinate with the environmental or health agencies to temporarily curtail production operations until the environmental contingencies or events have passed.

Section 15

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: https://www.env.nm.gov/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.

Alternative operating scenarios are not applicable to this facility. No alternative scenarios are requested by OLAM.

Form-Section 15 last revised: 8/15/2011

Section 15, Page 1

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

Check each box that applies:

| Ш | See attached, approved modeling waiver for all pollutants from the facility. |
|---|---|
| | See attached, approved modeling waiver for some pollutants from the facility. |
| V | 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. |

Universal Application 4

Air Dispersion Modeling Report

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

| 16- | A: Identification | |
|-----|------------------------------|---|
| 1 | Name of facility: | Olam Spices and Vegetable Ingredients, Inc. |
| 2 | Name of company: | Olam West Coast, Inc |
| 3 | Current Permit number: | 1744-M4R1 |
| 4 | Name of applicant's modeler: | Adam Erenstein |
| 5 | Phone number of modeler: | 505-266-6611 |
| 6 | E-mail of modeler: | aerenstein@trinityconsultants.com |

| 16 | 16-B: Brief | | | | | | | | | |
|----|---|---|------|--|--|--|--|--|--|--|
| 1 | Was a modeling protocol submitted and approved? | Yes⊠ | No□ | | | | | | | |
| 2 | Why is the modeling being done? | Adding New Equipment | | | | | | | | |
| | Describe the permit changes relevant to the modeling. | Describe the permit changes relevant to the modeling. | | | | | | | | |
| 3 | The purpose of this significant revision is: to add one (1) 2.0 MMBtu/h boiler (unit BB-6); to replace one (1) 8.4 MMBtu/h boiler with a 6.1 MMBtu/h boiler (unit BB-1), one (1) 6.4 MMBtu/h boiler with a 2.0 MMBtu/h boiler (unit BB-4), one (1) 2200 lb/hr Finish Mill with a 8000 lb/hr Finish Mill (unit M-7), and one (1) Raphanel steam sterilizer with a Safesteril steam sterilizer (unit SS-2); and to remove one (1) Cryo Mill (unit M-8), one (1) four seed dryers unit (unit SD1-4), and three (3) boilers (units BB-2, BB-3, BB-5). | | | | | | | | | |
| 4 | What geodetic datum was used in the modeling? | WGS84 | | | | | | | | |
| 5 | How long will the facility be at this location? | Longer than 1 | year | | | | | | | |

| 6 | Is the facility a major source with respect to Prevention of Sign | nificant Deterioration (PSD)? | Yes□ | No⊠ | | | |
|----|---|-------------------------------|------|-----|--|--|--|
| 7 | Identify the Air Quality Control Region (AQCR) in which the fac | 153 | | | | | |
| | List the PSD baseline dates for this region (minor or major, as appropriate). | | | | | | |
| 8 | NO2 | 8/2/1995 | | | | | |
| 0 | SO2 | Not Established | | | | | |
| | PM10 | 6/26/2000 | | | | | |
| | PM2.5 | | | | | | |
| | Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits). | | | | | | |
| 9 | | | | | | | |
| 10 | Is the facility located in a non-attainment area? If so describe k | pelow | Yes□ | No⊠ | | | |
| | N/A | | | | | | |
| 11 | Describe any special modeling requirements, such as streamlin | ne permit requirements. | | | | | |
| | N/A—There are no special modeling requirements for this facility. | | | | | | |
| | | | | | | | |
| 16 | -C: Modeling History of Facility | | | | | | |
| | | | | | | | |

Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQS), and PSD increments modeled. (Do not include modeling waivers).

| | modeling waivers). | | | | | | |
|---|--|---|----------------|---|--|--|--|
| | Pollutant | Latest permit and modification number that modeled the pollutant facility-wide. | Date of Permit | Comments | | | |
| | CO | N/A | - | | | | |
| | NO ₂ | N/A | - | | | | |
| 1 | SO ₂ | 5O ₂ N/A | | - | | | |
| | H ₂ S N/A PM2.5 1744-M3 | | - | The last modeling done for this permit was for 1744M3 in 2009 and was confirmed to be the | | | |
| | | | 6/15/09 | last time this facility was modeled by NMED. | | | |
| | PM10 | N/A | - | The statement of Basis for permit 1744-M3R2 | | | |
| | Lead | N/A | - | specifically lists PM _{2.5} as being modeled for | | | |
| | Ozone (PSD only) | N/A | - | permit 1744-M3. | | | |
| | NM Toxic Air | | | | | | |
| | Pollutants | N/A | - | | | | |
| | (20.2.72.402 NMAC) | | | | | | |

| For each pollutant, indicate the modeling performed and submitted with this application. | Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed. | Pollutant | ROI | Cumulative analysis | Culpability analysis | Waiver approved emitted or not changed.

1 application. N/A—There are no NMTAPs modeled for this application. List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required. **Emission Rate Emission Rate Screening** Emission Rate/ Stack Height Pollutant Correction Factor 2 (pounds/hour) Level (pounds/hour) (meters) Correction Factor

| 16- | -F: Modeling options | | |
|-----|--|------|-----|
| 1 | Was the latest version of AERMOD used with regulatory default options? If not explain below. | Yes⊠ | No□ |
| | N/A | | |

| 16- | -G: Surrounding source r | nodeling | | | | |
|-----|--------------------------------------|----------------------------|---|--|--|--|
| 1 | Date of surrounding source retrieval | | 09/27/2024 | | | |
| _ | | ntory provided. I | r Quality Bureau was believed to be inaccurate, describe how the f changes to the surrounding source inventory were made, use the | | | |
| | AQB Source ID | Description of Corrections | | | | |
| 2 | 1610R2 | Source coordin | inates for facility. ates were: 340811.422 m E, 3830191.251 m N ates are: 334962.95 m E, 3582089.17 m N | | | |
| | 151@1 | surrounding so | rete batch plant, GCP-5 Permit #1995, Desert Vally Inc from NO ₂ urces as permitted equipment does not list anything that produces recent permit application for this facility has been attached at the reference. | | | |

| | PM_{10} and $PM_{2.5}$ emission rates were based off 95 tpy (21.69 lb/hr) total suspended particulate (TSP) from the GCP-5 permit for Concrete Batch plants. No emission calculations were submitted with the last permitting action. Since TSP is larger than both PM_{10} and $PM_{2.5}$, the 21.69 lb/hr emission rates were ratioed based on particle size multiplier constants taken from AP-42 Chapter 13.2.4 for Aggregate Handling And Storage Piles. The new values are: 10.26 lb/hr PM_{10} and 1.55 lb/hr $PM_{2.5}$. These calculations and references have been included at the end of UA4 for reference. |
|--------|--|
| | Removed concrete batch plant, GCP-5 Permit #1445, Westgate Concrete Batch Plant from NO_2 surrounding sources as permitted equipment does not list anything that produces NO_2 . The most recent permit application for this facility has been attached at the end of UA4 for reference. |
| 1947@1 | PM_{10} and $PM_{2.5}$ emission rates were based off 95 tpy (21.69 lb/hr) total suspended particulate (TSP) from the GCP-5 permit for Concrete Batch plants. No emission calculations were submitted with the last permitting action. Since TSP is larger than both PM_{10} and $PM_{2.5}$, the 21.69 lb/hr emission rates were ratioed based on particle size multiplier constants taken from AP-42 Chapter 13.2.4 for Aggregate Handling And Storage Piles. The new values are: 10.26 lb/hr PM_{10} and 1.55 lb/hr $PM_{2.5}$. These calculations and references have been included at the end of UA4 for reference. |

| 16- | H: Building and structure downwa | nsh | | |
|-----|--|--|------------------|--------------|
| 1 | How many buildings are present at the facility? | 15 buildings are present at this facility. | | |
| 2 | How many above ground storage tanks are present at the facility? | There are no above ground storage tan | ks present at th | is facility. |
| 3 | Was building downwash modeled for all buildings and | tanks? If not explain why below. | Yes⊠ | No□ |
| | | | | |
| 4 | Building comments | There are seven polygonal buildings. | | |

| 16- | I: Receptors and modeled property boundary | | |
|-----|---|--|--|
| 1 | "Restricted Area" is an area to which public entry is effectively precluded. Effective barriers incl continuous walls, or other continuous barriers approved by the Department, such as rugged phy grade that would require special equipment to traverse. If a large property is completely enclos area within the property may be identified with signage only. Public roads cannot be part of a R Area is required in order to exclude receptors from the facility property. If the facility does not be receptors shall be placed within the property boundaries of the facility. Describe the fence or other physical barrier at the facility that defines the restricted area. | ysical terrain wi ed by fencing, a estricted Area. | th a steep restricted A Restricted |
| | The property is enclosed by a fence and receptors are placed starting along the fence line. | | |
| 2 | Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area? | Yes□ | No⊠ |
| 3 | Are restricted area boundary coordinates included in the modeling files? | Yes⊠ | No□ |

| | Describe the rece | ptor grids a | nd their spacing. | The table below may | be used, adding rows a | as needed. | | |
|---|-------------------|--------------|--------------------|---|---|------------|--|--|
| | Grid Type | Shape | Spacing | Start distance from restricted area or center of facility | End distance from restricted area or center of facility | Comments | | |
| 4 | Variable Density | Circle | 50 meters | 0 | 800 | | | |
| | Variable Density | Circle | 100 meters | 800 | 3,000 | | | |
| | Variable Density | Circle | 250 meters | 3,000 | 6,000 | | | |
| | Variable Density | Circle | 500 meters | 6,000 | 10,000 | | | |
| | Variable Density | Circle | 1,000 meters | 10,000 | 50,000 | | | |
| _ | Describe receptor | spacing ald | ong the fence line | 2. | | | | |
| 5 | 25 m spacing. | | | | | | | |
| 6 | Describe the PSD | Class I area | receptors. | | _ | | | |
| | N/A—this facility | is not withi | n the 50 km inclu | ision zone for PSD min | or sources. | | | |

| 16 | -J: Mod | eling S | cenari | os | | | | | | | | |
|----|---|-------------|----------------|-----------|------------|---------|--|--|---|--|---|--|
| 1 | Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3). | | | | | | | | | | | |
| | N/A | | | | | | | | | | | |
| 2 | Which scer | nario produ | uces the hi | ghest con | centration | s? Why? | | | | | | |
| | N/A | | | | | | | | | | | |
| 3 | Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.) No ⋈ | | | | | | | | | | | |
| 4 | | duplicate | _ | | | | | | ore the factorification if it makes for | | - | |
| | Hour of Day | Factor | Hour of Day | Factor | | | | | | | | |
| | 1 | | 13 | | | | | | | | | |
| | 2 | | 14 | | | | | | | | | |
| | 3 | | 15 | | | | | | | | | |
| _ | 4 | | 16 | | | | | | | | | |
| 5 | 5 | | 17 | | | | | | | | | |
| | 6 | | 18 | | | | | | | | | |
| | 7 | | 19 | | | | | | | | | |
| | 8 | | 20 | | | | | | | | | |
| | 9 | | 21 | | | | | | | | | |
| | 10 | | 22 | | | | | | | | | |
| | 11 | | 23 | | | | | | | | | |

| | 12 | | 24 | | | | | | | | |
|---|-------------------|------------|------------|-------------|------------|-------------|------------|--------------|-----------|------|-----|
| | If hourly, v | ariable em | ission rat | es were us | ed that we | ere not des | cribed abo | ve, describ | e them be | low. | |
| | N/A | | | | | | | | | | |
| 6 | Were diffe below. | rent emiss | ion rates | used for sh | ort-term a | and annual | modeling? | P If so desc | ribe | Yes□ | No⊠ |
| | N/A | | | | | | | | | | |

| 16- | K: NO ₂ N | Nodeling | | | | | | | |
|-----|--|---|------|-----|--|--|--|--|--|
| | Which types Check all tha | s of NO ₂ modeling were used? at apply. | | | | | | | |
| | \boxtimes | ARM2 | | | | | | | |
| 1 | | 100% NO _X to NO ₂ conversion | | | | | | | |
| | | □ PVMRM | | | | | | | |
| | □ OLM | | | | | | | | |
| | | Other: | | | | | | | |
| 2 | Describe the NO ₂ modeling. | | | | | | | | |
| - | The ARM2 Methodology was used with the default maximum and minimum ambient ratios. | | | | | | | | |
| 3 | | t NO_2/NO_X ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not distributed by the ratios used below. | Yes⊠ | No□ | | | | | |
| | N/A | | | | | | | | |
| 4 | Describe the | e design value used for each averaging period modeled. | | | | | | | |
| | _ | eighth high Year Annual Average | | | | | | | |

16-L: Ozone Analysis

NMED has performed a generic analysis that demonstrates sources that are minor with respect to PSD do not cause or contribute to any violations of ozone NAAQS. The analysis follows.

The basis of the ozone SIL is documented in <u>Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program</u>, EPA, April 17, 2018 and associated documents. NMED accepts this SIL basis and incorporates it into this permit record by reference. Complete documentation of the ozone concentration analysis using MERPS is included in the New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines.

The MERP values presented in Table 10 and Table 11 of the NM AQB Modeling Guidelines that produce the highest concentrations indicate that facilities emitting no more than 250 tons/year of NO_X and no more than 250 tons/year of VOCs will cause less formation of O_3 than the O_3 significance level.

$$[O_3]_{8-hour} = \left(\frac{250 \frac{ton}{yr}}{340_{MERP_{NOX}}} + \frac{250 \frac{ton}{yr}}{4679_{MERP_{VOC}}}\right) \times 1.96 \ \mu\text{g/m}^3$$

=1.546 μ g/m³, which is below the significance level of 1.96 μ g/m³.

| | Sources that produce ozone concentrations below the ozone SIL do not cause or contribute to air contaminant levels exceeding the ozone NAAQS. | | | | | | | | |
|-----|--|---|---|-----------|----------------------------|----------|------------------------------------|-------------|--|
| 3 | Does the facility emit at least 250 tons per year of NO_X or at least 250 tons per year of $VOCs$? Sources that emit at least 250 tons per year of NO_X or at least 250 tons per year of $VOCs$ are covered by the analysis above and require an individual analysis. | | | | | | | | |
| | For new PSD Major Sou below. If another metho | • | | s were u | ised to account for | ozone fi | ll out the | information | |
| 5 | NO _x (ton/yr) | MERP _{NOX} | VOCs (ton/yr |) | MERP _{VOC} | | [O ₃] _{8-hou} | r | |
| | | | | | | | | | |
| | N/A | | | | | | | | |
| | | | | | | | | | |
| 16- | M: Particulate I | | | | | | | | |
| | Select the pollutants for | which plume depl | etion modeling was u | sed. | | | | | |
| 1 | □ PM2.5 | | | | | | | | |
| | ☐ PM10 ☑ None | | | | | | | | |
| | | e distributions used | d Include the source | of inform | nation | | | | |
| 2 | Describe the particle size distributions used. Include the source of information. N/A | | | | | | | | |
| 3 | Does the facility emit at tons per year of SO ₂ ? So NO _x or at least 40 tons particularly significant amounts of particularly formation of PM2.5. | ources that emit at per year of SO ₂ are | east 40 tons per year considered to emit | of | Yes□ | | | No⊠ | |
| 4 | Was secondary PM mod | deled for PM2.5? | | | Yes□ | | | No⊠ | |
| | If MERPs were used to a below. | account for seconda | ary PM2.5 fill out the | informat | ion below. If anoth | ner meth | od was us | ed describe | |
| | Pollutant | NO _X | SO ₂ | | [PM2.5] _{24-hour} | | | | |
| 5 | MERP _{annual} | | | | | | | | |
| | MERP _{24-hour} | | | | [PM2.5] _{annual} | | | | |
| | Emission rate (ton/yr) | | | | | | | | |
| | N/A | | | | | | | | |
| | | | | | | | | | |
| 16- | N: Setback Dist | ances | | | | | | | |
| 1 | Portable sources or sou between the emission s locations. Describe the | ources and the rest | ricted area boundary | (e.g. fen | - | | | | |
| _ | N/A | | | | | | | | |

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

| 16- | 16-O: PSD Increment and Source IDs | | | | | |
|-----|--|-------------------------------|-----|-----|--|--|
| | The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I smodeling files. Do these match? If not, provide a cross-referer numbers if they do not match below. | Yes□ | No⊠ | | | |
| | Unit Number in UA-2 | Unit Number in Modeling Files | | | | |
| | M-1 | BH#1 | | | | |
| | M-3 | | | | | |
| | P-BL | - BH#3 | | | | |
| | C-BL | BH#4 | | | | |
| | Tote Line | | | | | |
| | F-HP | ─ BH#5 | | | | |
| | F-BL | BH#7 | | | | |
| | DC-2 | BH#8 | | | | |
| | DC-1 | BH#10 | | | | |
| | SS-1 | BH#11 | | | | |
| | SS-2 | 12A | | | | |
| 1 | 33-2 | 12B | | | | |
| _ | M-7 | | | | | |
| | Bag Line 1 | BH#6 | | | | |
| | Bag Line 2 | | | | | |
| | Carton Line | | | | | |
| | Drum Line 1 | | | | | |
| | Drum Line 2 | | | | | |
| | GB-1 (GB 1A-1) | 1A1 | | | | |
| | GB-1 (GB 1A-2A, GB 1A-2B) | 1A2 | | | | |
| | GB-1 (GB 1A-3A, GB 1A-3B, GB 1A-4, GB 1A-5) | 1A3 | | | | |
| | GB-1 (GB 1B-1, GB 1B-2) | 1B1 | | | | |
| | GB-1 (GB 1C-1, GB 1C-2, GB 1C-3) | 1C1 | | | | |
| | GB-2 (GB 2A-1) | 2A1 | | | | |
| | GB-2 (GB 2A-2A, GB 2A-2B) | 2A2 | | | | |
| | GB-2 (GB 2A-3A, GB 2A-3B) | 2A3 | | | | |
| | GB-2 (GB 2B-1, GB 2B-2, GB 2C-1, GB 2C-2, GB 2C-3) | 2B1 | | | | |
| | SD1-4 (marked to be removed) | SD1 | | | | |
| | 301-4 (Marked to be removed) | SD2 | | | | |
| 2 | The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below. | | | No⊠ | | |
| | The emissions rates of the units listed in Table 2-E are for each specific unit at the facility. There are special stacks at this facility. Emission rates in the modeling files were referenced from both Table 2-E and Table 2-G. Emission unit BH#7 has no exterior outlet. Additionally, emission rates in the PSD increment models may be different depending on a pollutant's PSD Baseline Date. | | | | | |

| 3 | | R exempt sources or Title \ | V Insignificant Ad | ctivities" (Table 2-B) sources | Yes□ | No⊠ | | |
|---|--|---|-------------------------------------|---|--|-----------------|--|--|
| | been modeled? | me increment for which no | ollutants? | | | | | |
| | Which units consume increment for which pollutants? | | | | | | | |
| | Unit ID | NO ₂ | SO ₂ | PM10 | PM2.5 | ; | | |
| | BB-1 | Yes | N/A | Yes | N/A | | | |
| | BB-4 | Yes | N/A | Yes | N/A | | | |
| | BB-6 | Yes | N/A | Yes | N/A | | | |
| | BagLine-1 | Yes | N/A | No | N/A | | | |
| | BagLine-2 | Yes | N/A | No | N/A | | | |
| | C-BL | Yes | N/A | Yes | N/A | | | |
| | Carton Line | Yes | N/A | No | N/A | | | |
| | DC-1 | Yes | N/A | Yes | N/A | | | |
| | DC-2 | Yes | N/A | Yes | N/A | | | |
| | DrumLine-1 | Yes | N/A | No | N/A | | | |
| 4 | DrumLine-2 | Yes | N/A | No | N/A | | | |
| | F-BL | Yes | N/A | Yes | N/A | | | |
| | F-HP | Yes | N/A | Yes | N/A | | | |
| | GB-1 | Yes | N/A | No | N/A | | | |
| | GB-2 | Yes | N/A | No | N/A | | | |
| | M-1 | No | N/A | No | N/A | | | |
| | M-3 | No | N/A | No | N/A | | | |
| | M-4 | Yes | N/A | Yes | N/A | | | |
| | M-5 | Yes | N/A | Yes | N/A | | | |
| | M-6 | Yes | N/A | Yes | N/A | | | |
| | M-7 | Yes | N/A | Yes | N/A | | | |
| | P-BL | Yes | N/A | No | N/A | | | |
| | SS-1 | Yes | N/A | Yes | N/A | | | |
| | SS-2 | Yes | N/A | Yes | N/A | | | |
| | Tote Line | Yes | N/A | Yes | N/A | | | |
| 5 | PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date). If a source was originally baseline and it increased emissions after the baseline date, then the difference in emissions were used in the modeling. If a unit was basel and it decreased emissions or was removed from the fact after the baseline date, then the difference in emissions were used in the modeling represented by a negative number. | | | | difference in nit was baseline from the facility in emissions | | | |
| 6 | This is necessary to increment consum | verify the accuracy of PSE ption status is determined | increment mode for the missing i | e application form, as required? leling. If not please explain how | Yes□ | No⊠ | | |
| | 2-A. | ption status was conservat | lively assumed to | o be consuming it the installatio | n date was mis | sing from Table | | |

16-P: Flare Modeling

For each flare or flaring scenario, complete the following

| Flare ID (and scenario) | Average Molecular Weight | Gross Heat Release (cal/s) | Effective Flare Diameter (m) |
|-------------------------|--------------------------|----------------------------|------------------------------|
| N/A | N/A | N/A | N/A |

| 16- | 16-Q: Volume and Related Sources | | | | | |
|-----|---|------|-----|--|--|--|
| 1 | Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines? If not please explain how increment consumption status is determined for the missing | Yes□ | No⊠ | | | |
| | installation dates below. | | | | | |
| | N/A | | | | | |
| | Describe the determination of sigma-Y and sigma-Z for fugitive sources. | | | | | |
| 2 | N/A - No volume or related sources at this facility. | | | | | |
| | Describe how the volume sources are related to unit numbers. | | | | | |
| 3 | Or say they are the same. | | | | | |
| | N/A | | | | | |
| | Describe any open pits. | | | | | |
| 4 | N/A | | | | | |
| 5 | Describe emission units included in each open pit. | | | | | |
| J | N/A | | | | | |
| | | | | | | |
| 16- | R: Background Concentrations | | | | | |
| | Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used. CO: N/A | Yes⊠ | No□ | | | |
| | COLINA | | | | | |

| 16 | -R: Backg | round Concentrations | | | | | |
|----|--|---|------|-----|--|--|--|
| | used below. | Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data Yes⊠ No□ that was used. | | | | | |
| | CO: N/A | | | | | | |
| | NO ₂ : US-Mex | ico Border Crossing (350130021) | | | | | |
| 1 | PM2.5: Las Cruces Distric Office (350130025) | | | | | | |
| | PM10: Las Cruces City Well #46 (350130024) | | | | | | |
| | SO ₂ : N/A | | | | | | |
| | Other: | | | | | | |
| | Comments: Background concentrations were only used for the following NAAQS models: NO ₂ annual, PM _{2.5} annual, and PM ₁₀ 24-hr CIA. Background concentrations were not used in any PSD increment modeling. | | | | | | |
| 2 | Were backgr | ound concentrations refined to monthly or hourly values? If so describe below. | Yes□ | No⊠ | | | |
| | N/A | | | | | | |

| 16- | 16-S: Meteorological Data | | | |
|-----|--|------|-----|--|
| 1 | Was NMED provided meteorological data used? If so select the station used. | Yes⊠ | No□ | |

| | Las Cruces | | |
|---|--|-----------------|-----------|
| 2 | If NMED provided meteorological data was not used describe the data set(s) used below. Discurbandled, how stability class was determined, and how the data were processed. | uss how missing | data were |
| | N/A | | |

| 16-T: Terrain | | | | | |
|---------------|--|------|-----|--|--|
| 1 | Was complex terrain used in the modeling? If not, describe why below. | Yes⊠ | No□ | | |
| | N/A | | | | |
| _ | What was the source of the terrain data? | | | | |
| 2 | Terrain was incorporated into the modeling analysis through the use of AERMAP with the most recent 1/3 degree DEM data currently available from https://apps.nationalmap.gov/downloader/#/ | | | | |

16-U: Modeling Files

1

Describe the modeling files:

Significant Impact Models

- File name format "OLAM_Poll_SIL.ami"
- "Poll" = NO2... nitrogen oxides; CO...carbon monoxide; PM10...particulate matter, PM10; PM2.5...particulate matter, PM2.5; SO2... sulfur dioxide
- "SIL" SIL designator
- Files may contain SIL for short-term, annual, and increment averaging periods.

NM/NAAQS and Increment Models

- File name format "OLAM_Poll_AvgPer_Standard.ami"
- "Poll" = NO2... nitrogen oxides; CO...carbon monoxide; PM10...particulate matter, PM10; PM25...particulate matter, PM2.5; SO2... sulfur dioxide
- "AvgPer" = averaging period. 1hr = 1 hour, etc. annual = annual
- "Standard" = air quality standard. PSD = PSD Increment Class II, NAAQS = NAAQS

| File name (or folder and file name) | Pollutant(s) | Purpose (ROI/SIA, cumulative, culpability analysis, other) |
|-------------------------------------|-------------------|--|
| OLAM_NO2 SIL | NO ₂ | ROI/SIA |
| OLAM_CO SIL | СО | ROI/SIA |
| OLAM_PM2.5 SIL | PM _{2.5} | ROI/SIA |
| OLAM_PM10 SIL | PM ₁₀ | ROI/SIA |
| OLAM_SO2 SIL | SO ₂ | ROI/SIA |
| OLAM_NO2 1-hr NAAQS | NO ₂ | Cumulative—1hr – NAAQS |
| OLAM_NO2 Annual NAAQS | NO ₂ | Cumulative—Annual – NAAQS |
| OLAM_NO2 Annual PSD | PM _{2.5} | Cumulative—Annual – PSD Inc. Class II |
| OLAM_PM2.5 Annual | PM _{2.5} | Cumulative—Annual – NAAQS |
| OLAM_PM10 Annual PSD | PM ₁₀ | Cumulative—Annual – PSD Inc. Class II |
| OLAM_PM10_24-hr PSD | PM ₁₀ | Cumulative—24 hr – PSD Inc. Class II |
| OLAM PM10 24-hr NAAQS | PM ₁₀ | Cumulative—24 hr – NAAQS |

| 16-V: PSD New or Major Modification Applications | | | | |
|--|---|--|------|-----|
| | 1 | A new PSD major source or a major modification to an existing PSD major source requires additional analysis. | Yes□ | No⊠ |

| | Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)? | | | | |
|---|---|------|-----|--|--|
| 2 | If not, did AQB approve an exemption from preconstruction monitoring? | Yes□ | No⊠ | | |
| 3 | Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption. | | | | |
| | N/A | | | | |
| 4 | Describe the additional impacts analysis required at 20.2.74.304 NMAC. | | | | |
| 4 | N/A | | | | |
| 5 | If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below. | Yes□ | No⊠ | | |
| | N/A | | | | |

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| 16-W: M | 16-W: Modeling Results | esults | | | | | | | | |
|---------------------------------|-----------------------------|---|--|--|---|--|------------------------|--------------|----------------|--------------------|
| 1 | If am requir signifi descri | If ambient standards are exceeded because of surrounding sources, a culpability analy required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below. | ire exceeded l e to show thai he specific po | oecause of surro : the contributior illutant. Was culp | exceeded because of surrounding sources, a culpability analysis is show that the contribution from this source is less than the specific pollutant. Was culpability analysis performed? If so | a culpability a e is less than verformed? If | lysis is | Yes | No | |
| | - N/A - | N/A - no culpability analysis was performed. | alysis was per | formed. | | | | | | |
| 2 | Identi below | Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary. | concentratior | ns from the mode | eling analysis. Ro | ws may be n | nodified, adde | ed and remov | ved from the t | able |
| Pollutant, Time Period | Modeled Facility | Modeled Concentratio n with | Secondary | Background | Cumulative | Value of | J - + | | Location | |
| and Standard | Concentratio n (µg/m3) | Surrounding Sources (µg/m3) | HM (µg/m3) | Concentratio n (µg/m3) | concentratio n (µg/m3) | Standard (µg/m3) | Percent or Standard | UTM E (m) | UTM N (m) | Elevatio n (ft) |
| CO 8-hr SIL | 15.20 | ı | - | - | 15.20 | 200 | 3.04% | 330502.0 | 3575438.7 | 1185.58 |
| CO 1-hr SIL | 32.38 | ı | 1 | - | 32.38 | 2000 | 1.62% | 330442.3 | 3575701.4 | 1185.79 |
| NO ₂ annual SIL | 2.21 | | 1 | 1 | 2.21 | 1 | Significant | 330484.0 | 3575611.3 | 1186.20 |
| NO ₂ 24-hr SIL | 9.54 | - | - | - | 9.54 | 5 | Significant | 330485.4 | 3575726.8 | 1185.75 |
| NO ₂ 1hr SIL | 34.69 | - | - | - | 34.69 | 7.52 | Significant | 330442.3 | 3575701.4 | 1185.79 |
| PM _{2.5} annual SIL | 0.28 | 1 | - | 1 | 0.28 | 0.2 | Significant | 330499.6 | 3575513.6 | 1185.8 |
| PM _{2.5} 24-hr SIL | 1.198 | ı | - | 1 | 1.198 | 1.2 | %6'66 | 330499.4 | 3575477.4 | 1185.77 |
| PM ₁₀ annual SIL | 1.01 | 1 | - | - | 1.01 | 1 | Significant | 330499.6 | 3575513.6 | 1185.8 |
| PM ₁₀ 24-hr SIL | 5.83 | 1 | - | - | 5.83 | 2 | Significant | 330499.4 | 3575477.4 | 1185.77 |
| SO ₂ annual SIL | 0.13 | 1 | - | 1 | 0.13 | 1 | 13.49% | 330484.0 | 3575611.3 | 1186.2 |

| | Elevatio n (ft) | 1185.75 | 1185.79 | 1185.79 | 3891.04 | 3890.65 | 3889.53 | 3892.45 | 3890.42 | 3890.32 | 3890.32 |
|---|-----------------------------------|------------------------------|--------------------------|--------------------------|---|----------------------------------|-------------------------------|--------------------------------------|--------------------------------|---------------------------------|-------------------------------|
| Location | UTM N (m) | 3575726.8 | 3575714.1 | 3575701.4 | 3575588 | 3575575 | 3575433 | 3575591 | 3575514 | 3575491 | 3575478 |
| | UTM E (m) | 330485.4 | 330463.8 | 330442.3 | 330492 | 330496 | 330677 | 968088 | 330500 | 330496 | 330499 |
| 3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | Percent or Standard | 11.65% | 6.33% | 27.17% | 72.4% | 20.7% | 74.6% | 84.0% | 26.9% | 83.8% | 52.6% |
| Value of | Standard (µg/m3) | 5 | 25 | 7.8 | 25 | 94.02 | 188.03 | 6 | 17 | 150 | 30 |
| Cumulative | concentratio n (µg/m3) | 0.58 | 1.58 | 2.12 | 18.10 | 19.48 | 140.32 | 7.56 | 4.57 | 125.69 | 15.78 |
| Background | concentratio n (μg/m3) | ı | 1 | 1 | 10.1 | 10.1 | 1 | 5.2 | 1 | 99.3 | 1 |
| Secondary | Mg/m3) | 1 | 1 | ı | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Modeled Concentratio n with | Surrounding Sources (µg/m3) | - | - | 1 | 1 | 1 | 140.32 | 2.36 | 4.57 | 26.39 | 15.78 |
| Modeled Facility | Concentratio n (μg/m3) | 0.58 | 1.58 | 2.12 | 8.00 | 9:38 | 139.43 | 1.13 | 1.10 | 69.6 | 96'5 |
| Pollutant, Time Period | and Standard | SO ₂ 24-hr SIL | SO ₂ 3-hr SIL | SO ₂ 1-hr SIL | NO ₂ Annual PSD Class II Increment | NO ₂ Annual NMAAQS | NO ₂ 1-hr NAAQS | PM _{2.5} Annual NAAQS | PM ₁₀ Annual PSD | PM ₁₀ 24-hr NAAQS | PM ₁₀ 24-hr PSD |

1

16-X: Summary/conclusions

A statement that modeling requirements have been satisfied and that the permit can be issued.

OLAM West Coast, Inc. has demonstrated that the proposed changes to NSR Permit 1744M4R1 would neither cause nor contribute to an exceedance of the standards for CO, NO₂, PM_{2.5}, PM₁₀, and SO₂.

GCP-5 Permit Limits

III.G. OTHER EMISSIONS LIMITATIONS

 The annual emissions from the permitted Facility, including fugitive sources of emissions, shall not exceed the emissions funitations in Table III.G.1 — Total Annual Emission Lantations, [20.2.70 NMAC]

Table III.G.1 Total Annual Emission Limitations

| Pollutant | Emissions Limitation |
|--|----------------------|
| Nitrogen Oxides (NO _s) | 95 tons per year |
| Carbon Monoxide (CO) | 95 tons per year |
| Volatile Organic Compounds (VOCs) | 95 tons per year |
| Total Suspended Particulate (TSP) | 95 tons per year |
| Suffur Dioxide (SO ₂) | 50 tons per year |
| Any one (1) Mazardous Air Pollutant (HAP) | 8 tons per year |
| Sum of all Hazardous Air Pollutants (BAPs) | 23 tons per year |

For co-located plants, if the plant and the co-located source 1) belong to the same "major group" (i.e., which have the same first two digit code) as described in the Standard Industrial Classification Manual, 1972, as amended by the 1977 Supplement; 2) are under the control of the same person for persons under common control); and 3 are located on one or more contiguous or adjacent properties, then the total emissions from the co-located plant and source shall not exceed the emissions initiations in this table. [40 CFR 32.21(b)(6)] These limits ensure that the plant will not be a major source under 20.2.70 NMAC.

AP-42 Chapter 13.2.4 Aggregate Handling and Storage Piles

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

| | Aerodynamic Part | c Particle Size Multiplier (k) For E | 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.

Original Surrounding Source Emission Rates

| 10 (12.5 1r) (1b/hr) | 59 21.69 | 59 21.69 |
|-----------------------------|----------|----------|
| PM ₁₀ (lb/hr) | 21.69 | 21.69 |
| AQB Source ID | 151@1 | 1947@1 |

Modified ABQ Source Emission Rates

| | PM ₃₀ : PM ₁₀ | PM ₃₀ : PM _{2.5} | PM_{10} | $PM_{2.5}$ |
|---------------|-------------------------------------|--------------------------------------|----------------------|----------------------|
| AQB Source ID | Ratio ^{1,2} | Ratio 1,2 | (lb/hr) ³ | (lb/hr) ³ |
| 151@1 | 77 | 12.06 | 10.26 | 1.55 |
| 1947@1 | 7.11 | 13.30 | 10.26 | 1.55 |
| , | | | | |

 $^{^{1}}$ Assumes TSP = PM $_{30}$

 $^{^2\ \}mathrm{Ratio}$ based on particle size multiplier from AP-42 Chapter 13.2.4

 $^{^3}$ Modified Emission Rates (lb/hr) = Original Emission Rates (lb/hr) / Ratio (PM $_{30}$: PM $_{10}$ / PM $_{30}$: PM $_{25}$)

| Mail Application To: | For Department use | only: |
|---|-----------------------------|-----------|
| New Mexico Environment Department Air Quality Bureau New Source Review Unit 1301 Siler Road, Building B Santa Fe, NM 87507-3113 | | |
| Phone (505) 476-4300 www.nmenv.state.nm.us/aqb | AIRS #: | AI#: |
| Registration Application | & Relocation Applica | tion for: |
| General Constru | ction Permit G(| CP-5 |
| For Concre | te Batch Plants | |
| (Locating outside of Bernalill | o County and Tribal Communi | ties) |

| Act | cnowledgement: | ☑ I am submitting this form for an initia | GCP-5 registration. | |
|-----|-------------------------------|---|---|--|
| | | I am submitting this form for relocation A complete form is required for all reasterisks {*} and section IX {attachment and IX{attachment A} are not require submitted list. Posting of public notice | locations. For relocation, response ont D.2} do not need to be provided: d unless equipment has changed sin | to questions with sections VII, VIII, |
| | | I acknowledge that a pre-application of Permit or relocation fee enclosed, Che initial registrations, relocations, & sm found at: http://www.nmenv.state.nm I have sent a copy of this application to initial registrations only). See I have initiated the public notice requiregistrations only). This facility meets the applicable requirements. Truck Mix □ Central Mix □ On | ck No.: 328 2 [Required] (a all business). The current value of a us/aqb/forms/fee-cpi-adjustment-to the nearest Department Field Officed by Condition ILB.1 of GCP-5 (direments in 20.2.75 NMAC to regis | mounts differ for a fee point can be nethod.pdf ice (required for for addresses. required for initial |
| 1 | a) Company name: (2 | 0.0 | b) Date application notarize | d: 12/ 120 |
| 2 | a) Facility name: 0 | ndk Concrete INC. | *b) SIC code (4 digits): | 3273 |
| 3 | Company mailing address | 5: 1860 Conser Logo Las C | Lores New Merico 880 | 400 |
| 4 | a) Contact person: | Wa Ortiz | b) Title: Office Man | ager |
| 5 | a) Phone No: 575-52! | 5-0380 b) Fax No: 575-647-6 | c) e-mail; lindaya | urchayaba. |
| 6 | Will this facility operate | in conjunction with other air regulated parties and permit number (if known) of the other fac | on the same property? | Yes |
| | Applicability | | | |
| 1* | Is your facility listed under | er a NESHAP or MACT? | | ☑No □Yes |
| 2 | Will your facility process | radioactive materials? | 22.00 | ⊠No □Yes |
| 3 | Will your facility process | materials that include any listed Hazardous A | ir Pollutants (HAPs)? | VNo □Yes |

| 4 | Will your facility process asbestos tailings, or asbestos containing waste materials? | XNo | Yes |
|------|---|-------------------------------|--------------------------------|
| 5 | Is your facility subject to 20,2,72 NMAC. Subpart IV, Permitting for Toxic Air Pollutants? | XNo | Yes |
| | Will this facility be located less than three (3) miles from a Class I (Wilderness) area? See AQB Modeling | No | Ves |
| | website for a map of Class I areas at: http://www.nmenv.state.nm.us/aqb/modeling/class1areas.html | - | |
| 7 | Will this facility use any fuels other than natural gas, liquefied petroleum gas (LPG)/propane, gasoline, and # 2 diesel fuel with a sulfur content greater than 0.05% by weight? | No | Ves |
| fyou | answered Fes to any of questions 1-7, your facility does not qualify for this general construction permit. You ation for a regular permit under 20 NMAC 2.72 Construction Permits. | need to s | arbmit an |
| 3 | Will your facility meet the location requirements as described in Sections III.C. and III.E. of this general construction permit? | 40 | X Yes |
|) | Is your facility's primary purpose to produce concrete and concrete products per Condition LA.1 of this general construction permit? | □No | ₹ Yes |
| 10 | Is your facility's production rate less than or equal to 2400 yards of concrete per day (YPD) as required by Condition III.A.4. of this General Construction Permit? | | Yes |
| 11 | Does your facility include any combination of the Emissions Units listed in Section I.A.3. of the general construction permit, and no others? | □No | XYes |
| 2 | Can your facility comply with all of the applicable state and federal regulations listed in Section III.B. of the general construction permit? | □No | Yes |
| 13 | Will the perimeter of the Area of Operations of your facility be located more than one-quarter mile (1/4) from an existing recreation area, private residence, office building, school, or other occupied structure? OR, if your facility does not meet this setback, will the haul road fugitive emissions meet the control requirements as described in Condition III.F.10? | lo | XVes |
| 14 | If you plan to co-locate this facility with an asphalt facility or a crushing facility, will your facility comply with the location requirements as described in Section III.E – Co-Locations of this general construction permit? If this facility is not co-located, check "Yes". | □No | X Yes |
| 15 | Will the minimum distance between any emission source of the permitted Facility and the perimeter of the Restricted Area (except where the haul road crosses the Restricted Area perimeter) be at least 13 meters (14 yards)? | □No | Yes |
| 16 | Will the haul road control measures meet or exceed the requirements as described in Section III.F of this general construction permit? | □No | ∑ Yes |
| 211 | ation for an individual permit under 20, 2.72 NMAC Construction Permits. Current Facility Status | | |
| # | Has this facility previously been issued a general construction permit? Yes No If yes, the registration | No. is: | |
| | Has this facility already been constructed? XYes □No If yes, is it currently operating in New Mexico? XY | | |
| 3. | Does this facility have a 20.2.72,200.A (or B) NMAC construction If yes, the permit (or NOI) #, and whe permit or a 20.2.73 NMAC Notice of Intent (NOI)? Yes \(\subsetence{INO} \) remain active or not: \(\subsetence{A} \) \(\text{P} \) \(\frac{1}{2} \) \(\frac{1}{2} \) | ther the | permit w |
| ** | Is this application in response to a Notice of Violation (NOV)? If yes, NOV date: NOV Tracking Nov If so, provide current permit #: NOV Tracking NOV Tracking | ig No. | 0801 |
| , | This Facility is submitting this application as a Small Business and will operate under the small business proc GCP, Section II.D.2 – Fees, Yes No | | |
| 5 | This Facility will operate as a Small Business under Condition II.D. I understand additional reporting require prior to operating over the HP and TPY limits set in condition II.D.2, and as required in Condition IV.C.1.b. | MY€ | es No |
| IV F | acility Location Information | | |
| 1 | a) Section: 14 b) Range: 1E c) Township: 235 d) County: Dona Ava e) Elevation | on (ft): @ | 1,000 |
| 1 | a) UTM Zone: 12 or 13 b) UTME (to nearest 0.01 km): 32177 \ e) UTMN (to nearest 0.01 km): 35 | 245 | 292 |
| | d) Specify Easting and Northing Coordinates as NAD 27: or NAD 83: 83 | - | |
| AND | Latitude (deg., min., sec. 30, 18, 13. 0° N. Longitude (deg., min., sec.) 106° 48, 90.0 W | | |
| 3 | Name and zip code of nearest New Mexico town and/or tribal community: 88007 | e feet | |
| 4 | Detailed Driving Instructions including direction and distance from nearest NM town and/or tribal communit if necessary). If there is no street address, provide public road mileage marker. I-10 E, Exit 139 (N) merge onto 5 Motel Blod (0.4 m); turn right onto W. Hadley Ave (0.2 m); turn Way (0.1 m); turn right onto Copper Loop (0.2 m); End at 1860 copper Loop. | y (allach M2924 righter | a road mi Motel B Ho Bro |

| 5 | Direction and distance to the monwestoote. St towards to the month of the property of the control of the contro | learest oc westga- oro 124 lufred maj | cupied structi te Ctitorn to Ceptor to Marcate (cr | ire fi | rom the perimeter of the Area of Operations: Starte to the Area of Operations: Starte and Starte Area of Operations: Starte and Starte Area of Operations of Area of Operations. | | sing Suc urn left 1784 |
|---|--|---|--|--------|--|--------------------------------|----------------------------------|
| í | Status of land at which the fac | | | | A STATE OF THE STA | | |
| 7 | Name and county of the neares | st Class I | Area and its | direc | ction from the facility Gila Wilderness Gra | n+C | inty " |
| 3 | | | | | nearest Class I Area (to the nearest 1 km): 120.0 | | |
| V | Initial Operating Scho | edule | | | | | |
| 1 | Month and year of anticipated con | struction | of the new or | r mo | diffed facility: Nov 1999 * facility & | was shi | of decep |
| 1 | Month and year of anticipated con | npletion d | late at this pr | opos | diffed facility: Nov 1999 * facility = ed sites for a we thought - To avoid not | get air | permit |
| | Other Facility Inform | | | | | | |
| 1 | Maximum proposed production | HOD | yards/day | 2 | Total miles of haul road (one way) | .25 | miles |
| 3 | Maximum proposed production | | yards/year | 4 | Estimated Number of Haul truck trips/day (round trip) | 10 | trips/day |
| | Area of disturbed earth | 213 | acres | 6 | Area of storage pile & operations | 2.0 | acres |
| | Amount of area with restricted p | oublic acc | | | the methods used to restrict public access: | hed in Si | ection III |
| 3 | Describe the control measures of this General Construction Per Haul roads and aggregation very batch ingredients. | nat will be mit: | e used on hau cock piles pot 150 svi fecto | I roa | ds to meet the fugitive emission requirements described to the contained within a three of my water who maps trucks before will be used on all haulroads to | bed in Si e wa' oie an | ection III. Il lanki Iding |
| 8 | Describe the control measures of of this General Construction Per Haul roads and aggregated by batch ingredients. Few Sions and will a Provide the manufacturer's record | nat will be mit: atc st sand Also, a Jatera mmended | e used on hau cok piles pot 150 svitecto d cis A pressure dro | I road | ds to meet the fugitive emission requirements describall be contained within a three of my water who mixer trucks before will be used on all haulroads to | bed in So e wa' ove cont | ection III.1 N lanki Iding |

| W HH | THE PROPERTY OF THE PARTY OF TH | . IIII VI III III III III III III III II | and market manners | DOTAL OF THE PARTY | | | |
|---|--|--|--|--|---|--|--|
| Unit Number (match attach- nents) | Component Description (or unit's function). Also enter all silos and control devices. | Manufacturer | Manufacture Date | Model Number | Equipment Size, Capacity or Maximum Process Rate | Manufacturers Emission Factors for Regulated Air Pollutants (for engines or generators). For control devices, enter efficiency. | Date of most recent Compliance Test in New Mexico (or "None") |
| _ | 3,10 I | MIN # 1939 | (984 | (0-13 | 50 Jans 1/41 | and the state of t | とのこを |
| N | DOIG I | Moneyale. | 66601 | NOMENNAGE | | | NONE |
| 3 | Conveyor belt I with #1939 | MTM #1939 | 1984 | 10-13 | | \ | none. |
| 7 | THOU SO SON SON | Delt I wave wade | 1984 | 10-13 | (so tons lar | ~ ~ | Mone |
| S | | असम स (939 | 1861 | 10-13 | 60 to 05 /1/ | × | None |
| 9 | Storage Viv | MTM # 1939 | 1984 | (0-13 | 100 tong // | \ | 0000 |
| - | bat holant scale MITH # 1939 | MTH # (939 | 186) | 10-13 | | | |
| 00 | barten plant boothman 1939 | भक्ता भवा | h& 6) | 10-13 | Fair size 18" diem | 99.9% Efficiency | |
| 0 | Silo Filters | MTM# 1939 | 4861 | (0-13 | 1950 pt min | | |
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| dismonth | Annual Through-puts (gal) | | | The state of the s | | | | |
|--|----------------------------------|-------|---|--|---|---|-------|--|
| | True Vapor Pressure (Adfa) | | | | | | | |
| | Height (M) | \ | 1 | | | | | |
| alyn s | Diameter (M) | | | | 1 | 1 | | |
| | Capacity (M ³) | | | Andreas de la constitución de la | Z | 1 | | |
| | Capacity (bbl) | | | | | | | |
| Commence of the Commence of th | Date Installed (MIM/DD/YY) | | | | | | | |
| The same of the sa | Materials Stored | NOV 6 | | | | | | |
| 10 N | Tank No. | | | | | | Gauna | |

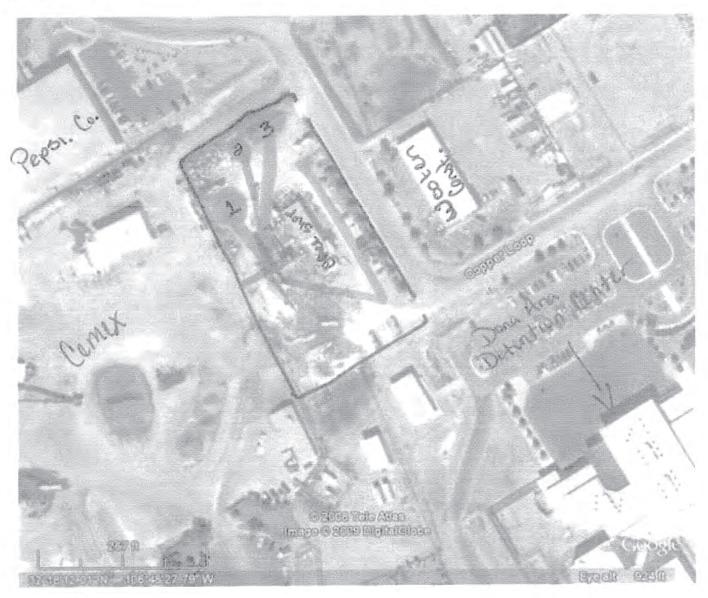
Annual

Storage Tank Information (Note: this data will be used to determine 40 CFR 60 Subpart Kb

MIII

(5) Cart 3/8 Agranate るから barred Hopper Mut # CONSTON 子ののなった 314 Approprie Checked Converse H BHOdinert A Line (8) Unit # かからか Rendy Mir Hone Harris Hose Scoke. 10/5 7(e) Horn 1 Storest or a 大学の大学 Back boot concrete Mosked Sound A to

Attachment B



1º 0 510 to Fance. 45.15 ft.

3º 0 510 to Houl road. 510.04 ft.

3º 0 510 to storage pile #1 98.00 ft.

4º 0 510 to storage pile #3 183.00 ft.

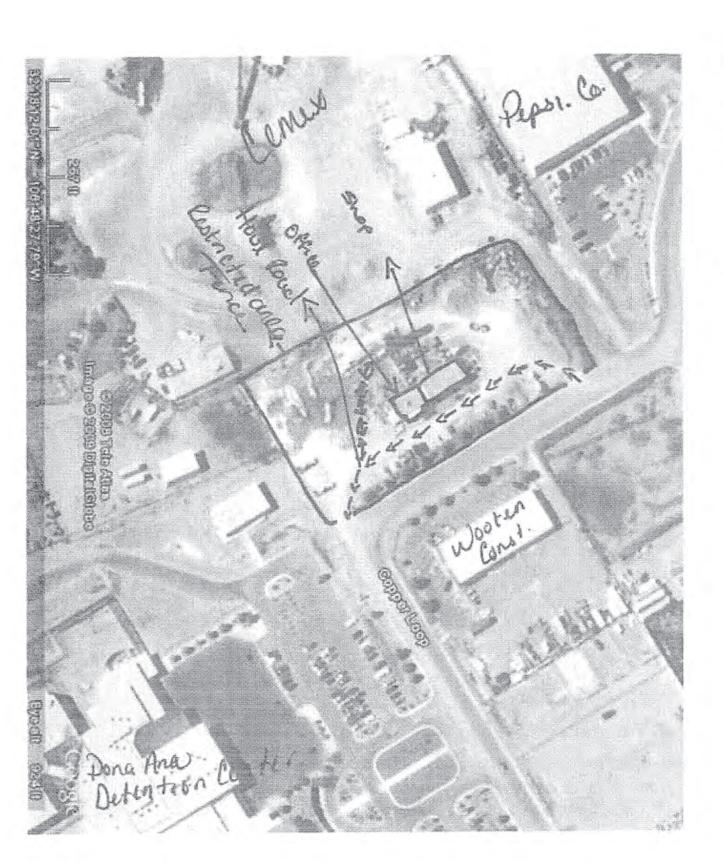
5º 0 510 to storage pile #3. 204.81 ft.

10° 0 Ready Mix Truchs.

Storage Pile (Material) #1, #2, #3 Will be 42. A. away from Fence.

Attachment. C.

RAR Consonta Inc.



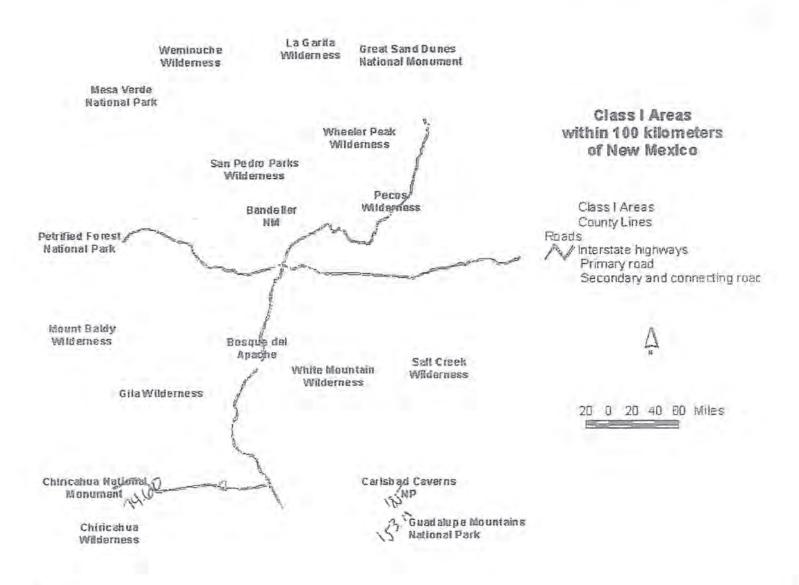


Figure 1

Appendix D

LAS CRUCES SUN-NEWS

PROOF OF PUBLICATION

Lou Hendren, being duly sworn, deposes and says that he is the Classified Manager of the Las Cruces Sun-News, a newspaper published daily in the county of Dona Ana, State of New Mexico; that the notice 41139 is an exact duplicate of the notice that was published once a week/day in regular and entire issue of sald newspaper and not in any supplement thereof for 1 consecutive week(s)/day(s), the first publication was in the issue dated November 22,2008 and the last publication was November 22,2008

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

Signed

Classified Manager Official Position

STATE OF NEW MEXICO

59.

County of Dona Ana

Subscribed and sworn before me this

1 day of formbers 20

Notary Public in and for

Dona Ana County, New Mexico

See Den 22, 20/2 My Term Expires



NOTICE OF AIR QUALITY PERMIT APPLICATION

R & R Concrete announces its intent to apply to the New Mexico Environment Department for an air quality permit for the location of its concrete batch plant. The expected date of application submittal to the Air Quality Bureau is November 15, 2008. This notice is a requirement according to New Mexico air quality regulations.

The Exact location of the facility is 1860 Copper Loop, Las Cruces, NM 88007 in Dona Ana County.

This facility estimates its maximum quantities of any regulated air contaminant to be:

Tons per year

- Total Suspended Particulates
- 95
- 2. Nitrogen Oxides (No2)
- 95
- Carbon Monoxide (Co)
- 95
- 4. Volatile Organic Compounds (VOC)
- 95

23

- 5. Sulfur Dioxide (So2)
- 50
- 6. Any one (1) Hazardous Air Pollutant (HAP)
- 8
 7. Sum of all Hazardous Air
 Pollutants (HAPS)

LAS CRUCES SUN-NEWS

The facility may operate 24 hours / day but may not exceed 2400 cubic yards/day.

The owner and / or operator of the plant is:
Rogelio Juarez and Rito Casillas, R & R
Concrete, 1860 Copper Loop, Las
Cruces, New Mexico 88007./

If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

Program Manager, New Source Review New Mexico Environment Department Air Quality Bureau 131 Siler Road, Building B Santa Fe, New Mexico 87505-3133 (505)476-4300

Other comments and questions may be submitted verbally.

Please refer to the company name and site name, as used in this notice or send copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.

Pub No. 41139 Pub Dates: November 22,2008

ATTACHMENT E for R & R Concrete

The method in which we limit public access to the restricted area is through fencing. Also, the immediate restricted area is limited to public access by a notice posted 100 ft. of the actual ready mix plant cautioning the public of the dangers and prohibiting access to that part of the property.

| X Certification | |
|--|--|
| Company Name: 23R Concrete | |
| I, R.T. , 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 profession | onal expertise and experience. |
| Signed this day of, 2008, | upon my oath or affirmation, before a notary of the State of |
| NM . | |
| Signature S | 12 4-08 Date |
| Rogelio A Jugiez Printed Name | President Title |
| Scribed and sworn before me on this day of | December, 2008. |
| My authorization as a notary of the State of | |
| Bu day of August , 201 | D <u>&_</u> . |
| Notary's Signature | Date |
| Notary's Printed Name www. sel name | OFFICIAL SEAL LINDA GARCIA Notary Public State of New Mexico |
| | My Commission Expires 8 8 11 |

Certification

General Posting of Notices

General Construction Permits (GCPs)

| I, Rogelio Juovez attached Public Notice in a publicly access is proposed to be, located. | , the undersigned, certify that on \(\mathbb{12}\mathbb{22}\)\(\overline{\sigma}\) I posted a true and correct copy of the ble and conspicuous place at the facility entrance of the property on which the facility is, or |
|---|--|
| Signed this 4st day of December | 2008 |
| R 10 | 12 -21-20 V |

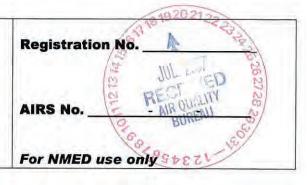
Rogelio Juavez Apolicant
Printed Vame Title (APPLICANT OR RELATIONSHIP TO APPLICANT)

Mail Application To:

New Mexico Environment Department Air Quality Bureau 2048 Galisteo Santa Fe, NM 87505

Phone (505) 827-1494 http://www.nmenv.state.nm.us





Application for Air Quality General Construction Permit GCP-5

Concrete Batch Plants

1445m1

(Locating outside of Bernalillo County and Tribal Communities)

| Acknowledgement: | ☑I acknowledge that a pre-application meeting is available to me upon request | | | | | |
|------------------|--|----|--|--|--|--|
| | Permit fee enclosed, Check No.: _01681477 [Required] (see instructions for amount) | or | | | | |
| | ☑I have sent a copy of this application to the nearest Department field office | | | | | |
| | ☑I have initiated the public notice that is <u>required</u> for GCP-5 | | | | | |
| | ☐ This facility meets the applicable requirements to register as a Small Business | | | | | |

| I | General Information | | | | |
|---|--|---------------------|----------------------|---|--|
| 1 | a) Company Name: Cemex Construction | Materials, L.P. | b) Date Ap | oplication Notarized: June 29, 2007 | |
| 2 | a) Facility's Site Name: Westgate Concrete Batch Plant | | | e (4 digits): 3273 | |
| 3 | Company Mailing Address: #1 McKelligon Canyon Road | | | | |
| 4 | a) Contact Person: Octavio Holguin, Jr. | | b) Title: Enviro | onmental Manager | |
| 5 | a) Phone Number: (915) 564-1653 | b) Fax No: 915-564- | 3680 | c) E-mail: octavio.holguinjr@cemex.com | |
| 6 | a) Will this plant operate in conjunction boundary? No Tyes b) If yes, what is the name and permit nun | | acility and/or an ag | ggregate processing facility within the same property | |

| 11 | Applicability | |
|----|--|-------------------|
| | ou answer <i>Yes</i> to any questions 1-4 below, your facility <u>does not</u> qualify for the general construction permit. You lication for an individual permit under 20.2.72 NMAC – <i>Construction Permits</i> . | need to submit an |
| 1 | Is your facility subject to a National Emissions Standard for Hazardous Air Pollutants (NESHAP) or Maximum Available Control Technology (MACT)? | No ☐ Yes |
| 2 | Will your facility be located less than three (3) miles from a Class I (Wilderness, National Park) area? See Map – attached | ⊠ No □ Yes |
| 3 | Will the haul road (s) be greater than one (1) mile in length? | ⊠ No ☐ Yes |
| 4 | Will your facility use any fuel other than gasoline, pipeline quality natural gas, liquefied petroleum gas (LPG)/propane, and /or #2 diesel fuel with a sulfur content equal to or less than 0.05 % by weight to fuel engines and heaters? | ⊠ No □ Yes |

| | a answer <i>NO</i> to any questions 5-11 idual permit under 20.2.72 NMAC (| | | qualify for the | GCP-5. You | need to submit ar | application f | or ar |
|-----|---|--------------------|----------------------|---------------------|------------------------|----------------------------|------------------|-------|
| 5 | Is your facility's primary purpose to produce concrete and concrete products using any combination of the equipment listed in Section I.A.3 of the GCP-5? | | | | | | □ No ⊠ Y | es |
| 6 | Is your facility's production rate less th | an or equal to 2 | 400 yards of cond | crete per day (YF | PD)? | | □ No ⊠ Y | es |
| | Can your facility comply with all of Regulations of the GCP-5? | the applicable | state and federa | l regulations list | ted in Section II | I.B – Applicable | □ No ⊠Y | es |
| 8 | Will your facility meet the location req | uirements as des | scribed in Section | is III.C – Siting F | Restrictions of the | GCP-5? | □ No ☑ Y | es |
| 9 | Will the perimeter of the Area of Oper existing recreation area, private reside not meet this setback, will the haul road | ice, office build | ding, schoolyard, | or other occupie | ed structure? If | your facility does | No Y | |
| 10 | If you plan to co-locate this facility location requirements as described in snot co-located, check "Yes". | | | | | | □ No ☑ Y | es |
| | Will the haul road control measures m Conditions 9, 10 & 11 of GCP-5? | eet the requirer | nents as describe | d in Paragraph I | II.F – Emissions | Restrictions and | □ No ☑ Y | es |
| | | | | | | | | |
| 111 | Initial Facility Status | i i | | | | | | |
| 1 | a) Has this facility previously been issu ☐Yes ☐No | ed a GCP-5? | | | b) If yes, the | registration no. is: | | |
| | a) Has this facility already been constru | cted? | b) If yes, i | s it currently ope | rating in New M | exico? XYes | No | |
| 2 | a) Does this facility currently have a r A or B of 20.2.72.200 NMAC)? | | tion permit (Subs | | es, list the permit | No : in active? ☐Yes [| TNo | |
| | a) Is this application in response to a No ☐ Yes ☐ No | | on (NOV)? | b) If yes, NO | | c) NOV Tracking | | |
| 5 | a) This Facility is submitting this appli in Section II.D.2 – Fees Yes No. | cation as a Sma | Il Business and w | vill operate unde | r the 130,000 YF | Y small business l | imitation condit | tion |
| 6 | a) This Facility will operate as a Sm requirements are necessary prior to ope | all Facility und | | | | | dditional report | ing |
| IV | Facility Location In | formation | n | | | | | |
| 1 | a) Section: 23 4 b) Range: R1E | c) Towns | ship: 23S | d) County: Do | ona Ana | e) Elevation (f | :): 3894 | |
| 2 | a) UTM Zone: 12 or 13 b) t 3296 | | to one hundred | dth of a km): | c) UTMV (re 3575456 | cord to one hund | lredth of a kr | n): |
| | d) Specify Easting and Northing Coo | rdinates as NAI | O − 27 : o | or NAD - 83 : x | | | | |
| AND | Latitude (deg., min., sec.): 32° 18' 10" N Longitude (deg., min., sec.): 106° 48' 34" W | | | | | | | |
| 3 | Name and zip code of nearest New Mexico town and/or tribal community: Las Cruces, 88005-4180 | | | | | | | |
| 4 | Detailed driving instructions includ necessary): From Dona Ana County toward S WATER ST. 1.7 miles, Tur | Commission, 1 | 80 W Amador A | ve, Las Cruces, | NM go WEST | on W AMADOR A | VE / NM-342 | W |
| 5 | The direction and distance from the p | erimeter of the | area of operation | to the nearest oc | cupied structure. | 0.14 miles N 15° | W | |
| 6 | Status of land at which the facility is | to be located (cl | heck one): | Private India | n/Pueblo 🔲 Go | overnment | | |
| 7 | Name and county of the nearest Clas | s I area and its d | lirection to the fac | cility: White Mo | untain Wildernes | s, Lincoln County, | NM 93 miles N | 1E |
| 8 | Shortest distance from the facility bo | undary to the bo | oundary of the ne | arest Class I area | (record to the near | est km):93 Miles | 73 | |

| V | Initial Operating Schedule |
|---|--|
| 1 | Month and year of anticipated construction of new or modified facility: Currently operating under NOI |
| 2 | Month and year of anticipated startup date for the facility at this proposed site: Currently operating under NOI |

| VI | Other Facility I | nformatio | n | | | | | |
|----|--|--|---|--|--|--|--|--|
| 1 | a) Maximum proposed production | 2400 yards/ | day | 876,000 yards/year | b) Total miles of haul road (one way) miles: 0.19 | | | |
| 2 | a) Area of storage pile & ope | erations acres: 4. | 73 acres | | b) Estimated Number of Haul truck trips per day (round trip) trips/day: 40 trips/day | | | |
| 5 | a) Area of disturbed earth in | acres: 8.35 | 8.35 b) Area with restricted public access in acres: 8.35 acres | | | | | |
| 6 | a) Method(s) used to restrict public access: The only road into the facility is controlled by requiring all visitors to check into the office before entering the facility. | | | | | | | |
| 7 | Describe the control measures used to meet the fugitive emission requirements on haul roads as described in Section III.F- Emiss Restrictions and Conditions 9 & 10 of this General Construction Permit: The distance from the perimeter of the Area of Operations to a private residence is less than 1/4 mile. The haul road fugitive emissions be controlled by a surfactant at the unpaved portions of the haul road, and sweeping traffic areas (within 25 meters of the area of operations) on the paved portion of the haul road. A wheel washer will be used the truck exits. | | | | | | | |
| 8 | matter which can impede the facility malfunction, start up emitted to the atmosphere. | tup, shutdown or atinely maintaine of filtration. Bags or shut down the In the event that on system. In the | schedule d to ensu are inspe e filtration a filtration event exc | d maintenance as defined re the bags within the sile ected for tears and rips. On systems will be indepen n system shows excess er | | | | |
| 9 | The stockpiles are watered i | ould cause an execution ormally to sature. In the event, w | ceedance ation. His | of the visible emission rec gh velocity winds usually f stockpiles cannot be per | the emissions during; quirement in Subsection III.A.6 of the permit. do not generate particulate emissions from the stockpiles rformed, the facility will be shut down until repairs can be | | | |

| Unit Number | Component Description (or unit's function) | Manufacturer | Manufacture Date | Model Number | Equipment Size, Maximum Design Capacity |
|----------------|--|---------------------|---------------------|--|--|
| 1 | Batch plant | Besser | n/a | n/a | 10 Yards Capacity and 120 yards per hour |
| 2 | Small Cement Silo | n/a | n/a | n/a | 55 tons |
| 3 | Small Silo Bag House | n/a | n/a | n/a | 25 filters |
| 4 | Big Cement Silo/Split Silo | n/a | n/a | n/a | 120 tons capacity |
| 5 | Big Silo Bag House | Besser | | | 42 Filters |
| 6 | FlyAsh Silo | n/a | n/a | n/a | 70 tons capacity |
| 7 | FlyAsh Bag house | Con-E- Co | n/a | Serial # 2113 | 30 Filters |
| 8 | Cement Storage Bin | Buttler | n/a | Moder # 1963 / Serial # 2581BTSMS | 125 tons |
| 9 | Loader | CAT | n/a | 966 CAT | 8 tons |
| 10 | Water Truck | Kenworth | 10/87 | T800 | 5000 Gals |
| 11 | Excavator | CAT | n/a | n/a | 4 tons |
| 12 | Batch House | Built on site | n/a | n/a | 10x12 Control House |
| 13 | Storage Trailer | FrueHauf | n/a | HPM-308828 | 48 ft. Trailer |
| 14 | Chemical Trailer | Reefer Container | n/a | Serial # NYKU797703-1 | 48 ft. Trailer |
| 15 | Color Storage Trailer | n/a | n/a | Moder # FI060-01 | 4 / 4000 lbs. Totes inside |
| 16 | Portable Trailer | Big-Tex | n/a | n/a | 250 lbs. chemical tank |
| 17 | 2 Grace Chemical Tanks | n/a | n/a | n/a | 1500 gals. |
| 18 | 2 Grace Chemical Tanks | n/a | n/a | n/a | 1000 gals. |
| 19 | Water Chiller | Carrier | n/a | Serial # 3001F99337 | |
| 20 | 2 Water Tanks | n/a | n/a | n/a | 10,000 gals capacity each tank |
| 21 | Aggregate Bins | Besser | n/a | n/a | 170 tons |
| 22 | Big Conveyor Belt | n/a | n/a | n/a | 200 ft. long |
| 23 | Small Conveyor Belt | n/a | n/a | n/a | 45ft. long |
| 24 | Reclaimer | Eagle Iron Works | | Moder# BM- D12453 / Serial # 14952 | |
| 25 | Blower | TUTHILL | | Model # 4009- 17T3 / Serial # 1017830404 | |
| 26 | Dust Collector | n/a | n/a | n/a | Now working |
| | Main Office | | | | |
| | 3 Bay Shop | | | | |
| | | | | | |

| Tank No. | Materials Stored | Date Manufactured (MM/DD/YY) | Capacity (M ^{3 or} gal) | Diameter (M) | Height (M) | True Vapor Pressure (kPa) | Annual Through-put (M ^{3 or} gal) |
|-------------|---------------------|------------------------------------|----------------------------------|-----------------|------------|---------------------------------|--|
| | | | | | | | |
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| | | | | | | | |
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| | | | | | | | |

One 10,000 gallon diesel tank and a 250 gallon propane tank are on-site, however these tanks are associated with the refueling and water heating for the mixer trucks. No Volatile Organic Liquid Storage Vessels are associated with the concrete batch plant.

IX Required Attachments

A scale

Attachment C

The following Attachments are required. Please label each accordingly. A complete application shall include:

- Attachment A A process flow sheet and/or block diagram indicating the individual equipment, all emission points, unit numbers, and types of controls applied to those points. Numbering system should cross reference with Attachment B.
- Attachment B A plot plan drawn to scale, showing the Area of Operations, emissions points by unit number, structures, tanks, and fences of the Restricted Area, and the Property Boundary owned, leased, or under direct control of the applicant and/or owner or operator.
- location of the Facility. The map shall also include the following:

 The UTM or Longitudinal coordinate system on both axes
 A minimum radius around the facility of 5km (3.1 miles)

 Topographic features of the area
 The name of the map

 An indicator showing which direction is north
 The nearest occupied structure(s) (unless the distance is greater than 3.1 miles)

 Access and haul roads
 Facility property boundaries

Attachment D Documentation that public notice has been initiated

- 1) Include the General Posting of Notice-Certification along with the posted sample.
- 2a) Include an original or copy of the actual newspaper advertisement. The original or copy of the advertisement must include the header showing the date and newspaper or publication title. **OR**

The area which will be restricted to public access

A map such as a 7.5 minute United States Geological Survey (USGS) topographic quadrangle showing the proposed

- 2b) Include an affidavit from the newspaper or publication stating that the advertisements were published. The affidavit must include the date of the advertisements' publication.
- Attachment E Certification by the Plant's owner or operator, or authorized representative before a notary public that all of the information included in the registration form is true and complete to the best of his or her knowledge (see attached copy in Part X of this registration form).

X Certification

Company Name: Cemex Construction Materials, L.P.

I, _Octavio Holguin, Jr._, 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 29 day of June, 2007, upon my oath or affirmation, before a notary of the State of Texas.

| Mill | 1/22/20 |
|---|-----------------------------|
| Signature | Date |
| Octavio Holguin, Jr. Printed Name | Environmental Manager Title |
| Scribed and sworn before me on this 2946 day of _ | June , 2007. |
| My authorization as a notary of the State of <u>Texas</u> | expires on the |

22 day of August, 20/0

Notary's Signature Date

Alma De La Riva
Notary's Printed Name



Westgate Concrete Batch Plant Driving Directions

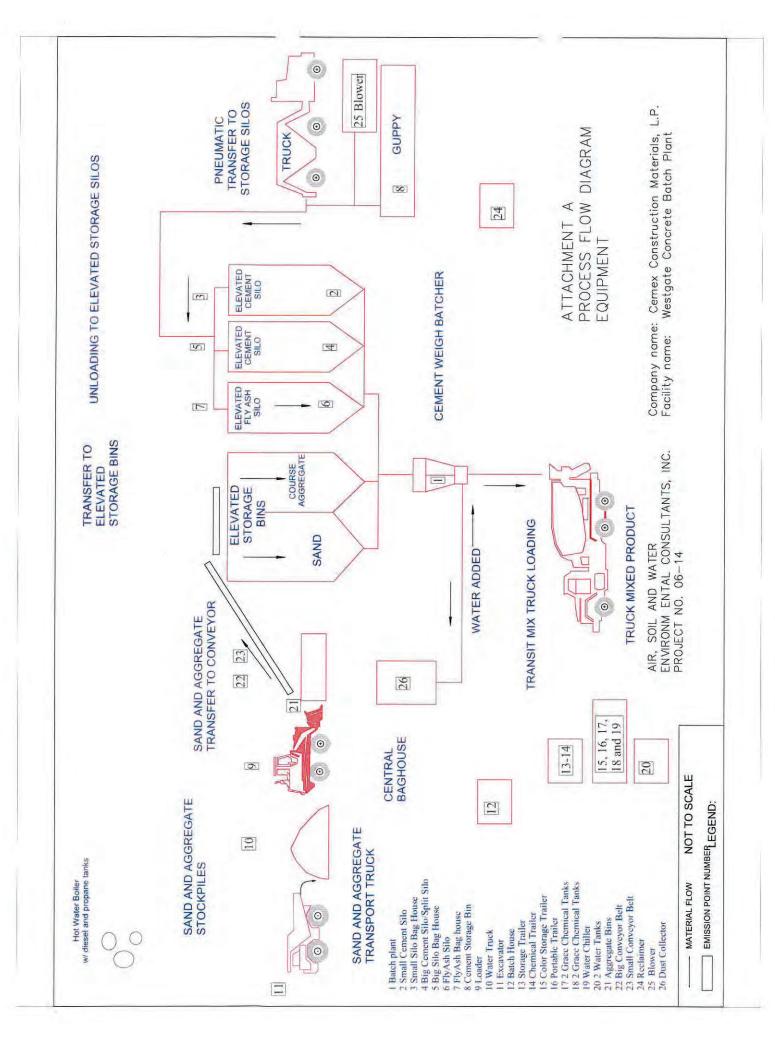


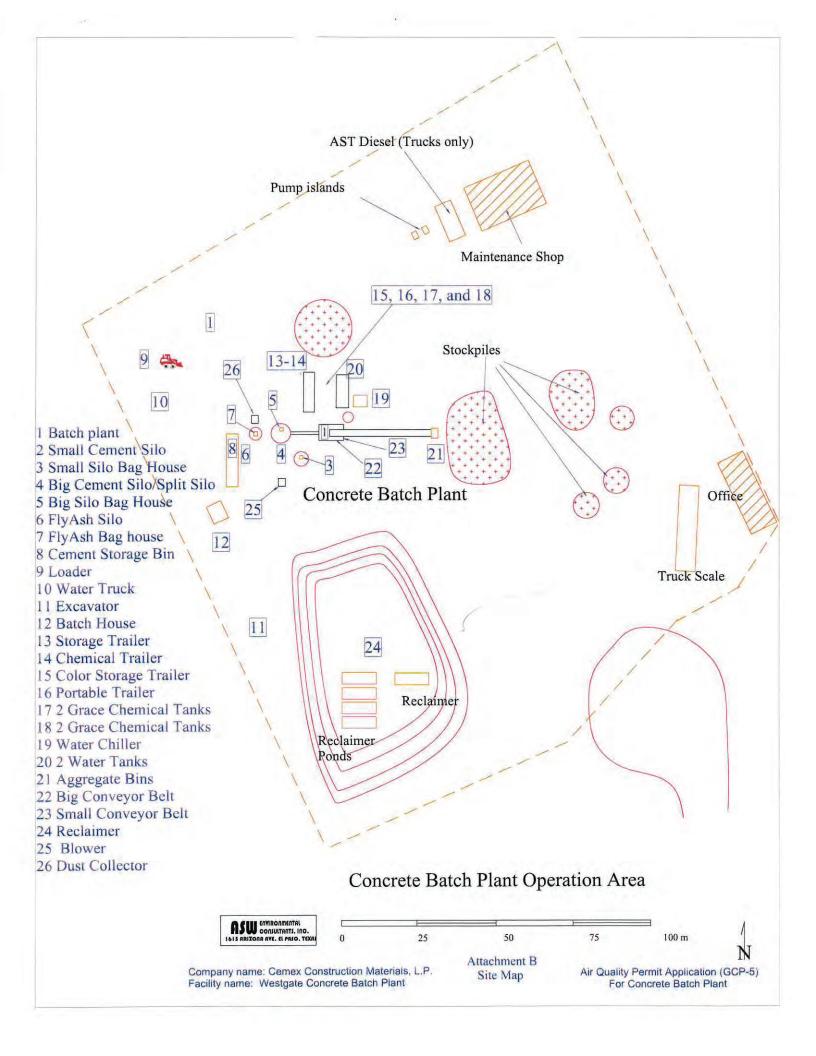
Company name: Cemex Construction Materials, L.P. Facility name: Westgate Concrete Batch Plant

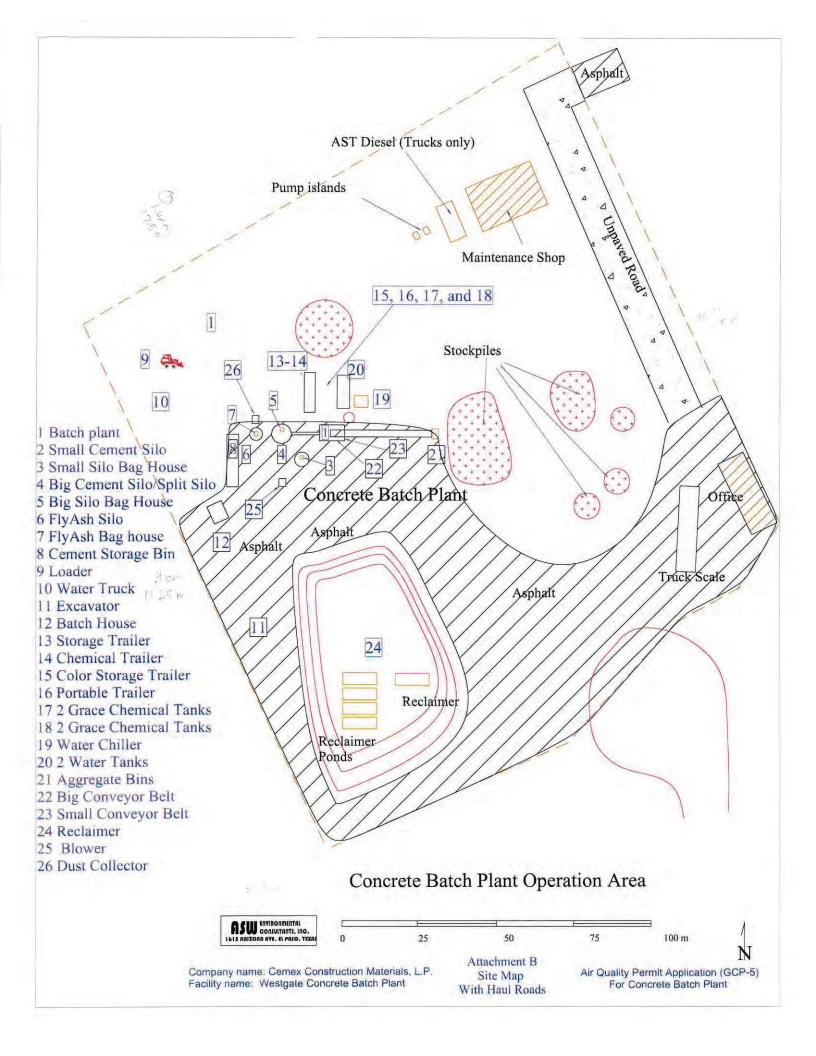
Driving Directions Site Map

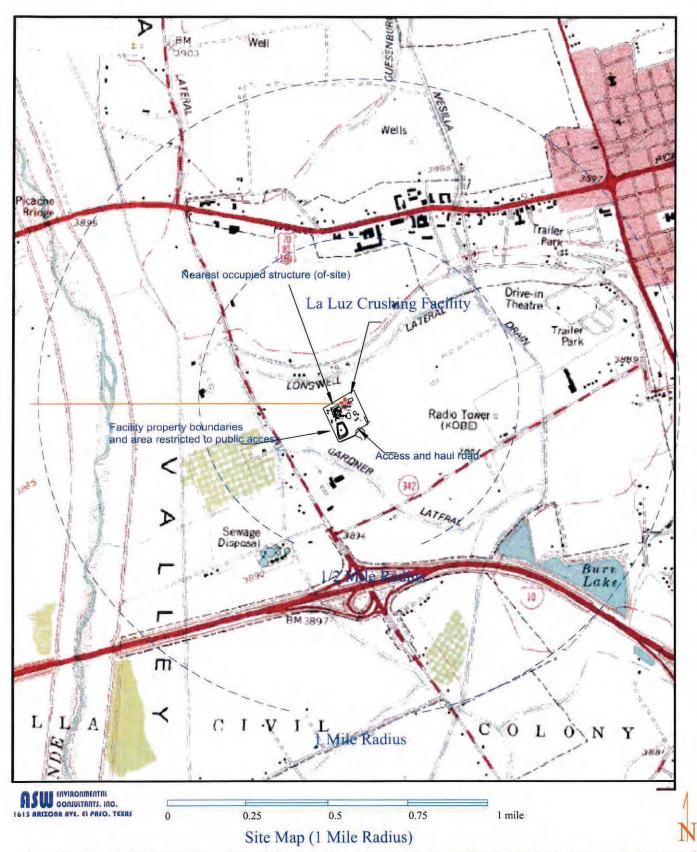
Air Quality Permit Application (GCP-5) For Concrete Batch Plant

Z

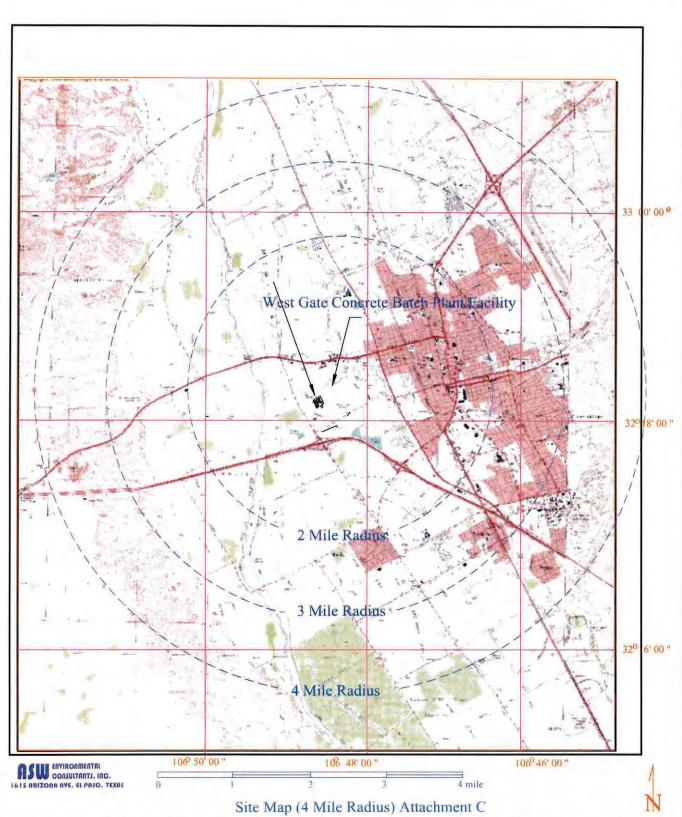








Company name: Cemex Construction Materials, L.P. Application for Air Quality General Construction Permit GCP-5 Facility name: Westgate Concrete Batch Plant Concrete Batch Plants



Company name: Cemex Construction Materials, L.P. Application for Air Quality General Construction Permit GCP-5 Facility name: Westgate Concrete Batch Plant Concrete Batch Plants

NOTICE

OF AN AIR QUALITY PERMIT APPLICATION

Recent changes in EPA and the State of New Mexico regulations requires Cemex to submit a permit application for the Westgate Concrete Batch Plant. This permit application is not for a new plant. The concrete batch plant has been in operation for several years in Las Cruces, NM. There is no request to increase production at this plant. Cemex has recently purchased this facility and is working on improving the existing dust control system at the facility. Cemex is committed to positive environmental changes and health and safety of residential neighbors. The expected date of application submittal to the Air Quality Bureau is June 21, 2007 is a requirement according to New Mexico air quality regulations. The location for the Westgate Concrete Batch Plant is 181 Westgate, Las Cruces, New Mexico

This facility estimates its maximum quantities of any regulated air contaminant to be:

Tons per year

| 1. Nitrogen Oxides (NO _x), | 95 |
|--|------|
| 2. Carbon Monoxide (CO), | 95 |
| 3. Volatile Organic Compounds (VOCs), | _95_ |
| 4. Total Suspended Particulate (TSP), | _95_ |
| 5. Sulfur Dioxide (SO ₂), | _50_ |
| 6. Any one (1) Hazardous Air Pollutant (HAP) | _8 |
| 7. Sums of all Hazardous Air Pollutants (HAPs) | _23_ |

The facility may operate 24 hours/day but may not exceed 2400 cubic yards/day.

The owner and/or operator of the Plant is:

Cemex Construction Materials, L.P., #1 McKelligon Canyon Road, El Paso, Texas 79930.

Questions and comments regarding this notice may be directed to:

Program Manager, Permit Section New Mexico Environment Department Air Quality Bureau 2048 Galisteo Santa Fe, New Mexico 87505

Phone: (505) 827-1494 or 1 800 224-7009 Fax: (505) 827-1523

Daniel Dolce

From: Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>

Sent: Monday, September 30, 2024 1:48 PM

To: Beth Morley

Subject: RE: [EXTERNAL] Modeling Protocol for OLAM Spices and Vegetable Ingredients: NSR 1744-M3-R2

Beth

This modeling protocol is acceptable.

Thank you.

Sufi A. Mustafa, Ph.D.

Manager Air Dispersion Modeling and Emission Inventory Section New Mexico Environment Department's Air Quality Bureau

Office: (505) 629 6186 sufi.mustafa@state.nm.us 525 Camino de los Marquez Suite 1

Santa Fe, New Mexico, 87505

https://www.env.nm.gov/air-quality/



"Innovation, Science, Collaboration, Compliance"

From: Beth Morley <Beth.Morley@trinityconsultants.com>

Sent: Monday, September 23, 2024 10:08 AM

To: Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>

Cc: Adam Erenstein <AErenstein@trinityconsultants.com>; Christopher Granados <Christopher.Granados@ofi.com>

Subject: [EXTERNAL] Modeling Protocol for OLAM Spices and Vegetable Ingredients: NSR 1744-M3-R2

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning Sufi,

Please find attached the modeling protocol for OLAM West Coast Inc.'s OLAM Spices and Vegetable Ingredients facility (**NSR 1744-M3-R2**). Modeling is being completed as part of a significant revision to the permit.

Please do not hesitate to reach out with any questions you may have.

Regards,

Beth Morley

Associate Consultant

P 505.266.6611

Email: Beth.Morley@Trinityconsultants.com

9400 Holly Avenue NE, Building 3, Suite B, Albuquerque, NM 87122



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AIR DISPERSION MODELING PROTOCOL

NSR Significant Revision Modeling Protocol

OLAM West Coast Inc. OLAM Spices and Vegetables Ingredients

Prepared By:

Adam Erenstein - Principal Consultant

TRINITY CONSULTANTS

9400 Holly Avenue NE Building 3, Suite B Albuquerque, NM 87122 (505) 266-6611

September 2024

Project 243201.0063





1.1 Purpose of Modeling

OLAM Spices and Vegetable Ingredients (OLAM Spice) manufactures spice and vegetable bulk materials owned by and operated by OLAM West Coast Inc. (OLAM). This facility has three main processes to manufacture these materials—the Proctor Mill, the Other Producers (OP) Mill, and the Blending, Cooking, and Packaging units. The Proctor Mill receives raw spices and strips all trash, stems, and seeds before being divided into two streams for indirect heat drying. The spices exiting the proctor mill are separated for proper classification and the milled and mixed spices are conveyed for storage at the Work in Progress (WIP) Warehouse. The OP Mill receives raw spices. The spices are milled and well-mixed before being conveyed to the WIP Warehouse. Finally, the Blending, Cooking, and Packaging units produce the final product spices by the blending of individual spices stored in the WIP warehouse. These spices are combined using cooking blenders before being passed to the packaging and bagging area to prepare them for delivery to OLAM customers. OLAM Spices is located within Las Cruces, NM city boundaries in Doña Ana County.

OLAM is submitting an application pursuant to 20.2.72.219.D(1)(a) NMAC for significant revision of NSR Permit No. 1744M4R1. The purpose of this revision is: for the addition of one (1) 2.0 MMBtu/h boiler; the replacement of one (1) 8.4 MMBtu/h boiler with a 6.1 MMBtu/h boiler (unit BB-1), one (1) 6.4 MMBtu/h boiler with a 2.0 MMBtu/h boiler (unit BB-4), one (1) 2200 lb/hr Finish Mill with a 8000 lb/hr Finish Mill (unit M-7), and one (1) steam sterilizer (unit SS-2); and the removal of one (1) Cryo Mill (unit M-8), one(1) four seed dryers unit (unit SD1-4), and three (3) boilers (units BB-2, BB-3, BB-5).

OLAM seeks to demonstrate compliance with the National Ambient Air Quality Standards (NAAQS), New Mexico Ambient Air Quality Standards (NMAAQS), and PSD Increment standards as applicable for the following pollutants and averaging periods: NO_2 (1-hour and annual), CO (1-hour and 8-hour), SO_2 (1-hour, 3-hour, 24-hour, and annual), $PM_{2.5}$ (24-hour and annual), and PM_{10} (24-hour and annual).

1.2 Facility Description and Location

The approximate UTM coordinates of the facility are 330,568 meters East and 3,575,436 meters North with WGS84 datum at an elevation of approximately 3,894 feet above mean sea level.

2.1 Model Input Options

The latest version of the AERMOD dispersion model (version 23132) will be used for this analysis. The model will be run in regulatory mode with all default options. The ARM2 method will be used to convert NO_X to NO₂. Default minimum and maximum ambient ratios will be utilized.

Table 1 shows the emission sources and stack parameters for the facility including the new units (BB-1, BB-4, BB-7, M-7, SS-2). Please note that emissions and stack parameters may vary throughout the development of this application.

Table 1- Project emission sources and stack parameters to be included in the air dispersion modeling.

| Stack | Serving Unit Number(s) | NOx | СО | SO ₂ | PM ₁₀ | PM _{2.5} | Height | Temp | Velocity | Diam. |
|--------|------------------------|-------|-------|-----------------|------------------|-------------------|--------|------|----------|-------|
| Number | constant (c) | lb/hr | lb/hr | lb/hr | lb/hr | lb/hr | ft | F | ft/s | ft |
| BB-1 | BB-1 | 0.60 | 0.50 | 0.034 | 0.046 | 0.046 | 24 | 240 | 64.72 | 1.33 |
| BB-4 | BB-4 | 0.20 | 0.16 | 0.011 | 0.015 | 0.015 | 25 | 240 | 2.9 | 0.83 |
| BB-6 | BB-6 | 0.20 | 0.16 | 0.011 | 0.015 | 0.015 | 26.58 | 240 | 2.9 | 0.25 |
| 9 | M-7 | - | - | - | 0.019 | 0.0049 | 10 | 75 | 3.16 | 2.07 |
| 12a | SS-2 | - | - | - | 0.005 | 0.0012 | 26.58 | 75 | 0.67 | 2.61 |
| 12b | SS-2 | - | - | - | 0.005 | 0.0012 | 26.58 | 75 | 0.67 | 2.61 |
| 12c | SS-2 | - | - | - | 0.005 | 0.0012 | 26.58 | 75 | 0.67 | 2.61 |
| 12d | SS-2 | - | - | - | 0.005 | 0.0012 | 26.58 | 75 | 0.67 | 2.61 |

^{*}The stack numbers are estimated and will be updated in the final model.

Table 2- All other facility emission sources and stack parameters to be included in the air dispersion modeling.

| Stack | Serving Unit Number(s) | NO _x | СО | SO ₂ | PM ₁₀ | PM _{2.5} | Height | Temp | Velocity | Diam. |
|--------|--|-----------------|-------|-----------------|------------------|-------------------|--------|------|----------|-------|
| Number | co. vilig crite rearribor (s) | | lb/hr | lb/hr | lb/hr | lb/hr | ft | F | ft/s | ft |
| 1 | M-1 | - | - | - | 0.0091 | 0.0023 | 31 | 75 | 3.16 | 2.07 |
| 3 | M-3, P-BL | - | - | - | 0.027 | 0.0068 | 15 | 75 | 15.48 | 0.94 |
| 4 | C-BL | - | - | - | 0.068 | 0.017 | 30 | 75 | 3.56 | 1.95 |
| 5 | Tote Line, F-HP | - | - | - | 0.045 | 0.011 | 27 | 75 | 3.56 | 1.95 |
| 6 | M-4, M-5, M-6, Bag Lines (2), Carton Line, Drum Lines (2) | - | - | - | 0.11 | 0.028 | 26 | 75 | 7.11 | 1.38 |
| 7 | F-BL | - | - | - | 0.029 | 0.0073 | 27 | 75 | 13.58 | 1 |
| 8 | DC-2 | - | - | - | 0.029 | 0.0073 | 30 | 75 | 0.67 | 4.51 |
| 10 | DC-1 | - | - | - | 0.0010 | 0.00025 | 27 | 75 | 1.6 | 2.91 |
| 11 | SS-1 | - | - | 1 | 0.057 | 0.014 | 30 | 75 | .67 | 4.51 |
| 1A1 | GB-1 (GB 1A-1) | 0.51 | 0.43 | 0.0031 | 0.039 | 0.039 | 26 | 240 | 15.69 | 2.61 |
| 1A2 | GB-1 (GB 1A-2A, GB 1A-2B) | 0.71 | 0.59 | 0.0042 | 0.054 | 0.054 | 26 | 240 | 24.85 | 2.61 |
| 1A3 | GB-1 (GB 1A-3A, GB 1A-3B, GB 1A-4, GB 1A-5) | 1.06 | 0.89 | 0.0064 | 0.080 | 0.080 | 26 | 240 | 54.72 | 2.61 |
| 1B1 | GB-1 (GB 1B-1, GB 1B-2) | 0.39 | 0.33 | 0.0024 | 0.030 | 0.030 | 24 | 150 | 18.24 | 2.28 |
| 1C1 | GB-1 (GB 1C-1, GB 1C-2, GB 1C-3) | 0.24 | 0.2 | 0.0014 | 0.018 | 0.018 | 24 | 240 | 8.16 | 2.76 |
| 2A1 | GB-2 (GB 2A-1) | 0.88 | 0.74 | 0.0053 | 0.067 | 0.067 | 26 | 240 | 769.65 | 0.33 |

| 2A2 | GB-2 (GB 2A-2A, GB 2A-2B) | 0.55 | 0.46 | 0.0033 | 0.042 | 0.042 | 24 | 240 | 28.3 | 2.61 |
|-----|---|------|------|--------|-------|-------|----|-----|-------|------|
| 2A3 | GB-2 (GB 2A-3A, GB 2A-3B) | 0.47 | 0.4 | 0.0028 | 0.036 | 0.036 | 24 | 240 | 19.44 | 2.61 |
| 2B1 | GB-2 (GB 2B-1, GB 2B-2, GB 2C-1, GB 2C-2, GB 2C-3) | 0.51 | 0.43 | 0.0031 | 0.039 | 0.039 | 24 | 160 | 10.79 | 2.46 |

A downwash analysis using the latest version of BPIP will be conducted and incorporated into the modeling analysis to account for potential effluent downwash due to structures at the facility. All building heights and dimensions will be confirmed before any modeling is done.

Table 2- Building Downwash Structures

| Building ID | Building Shape | X Coordinate | Y Coordinate | Elevation | Height | X Length | Y Length | Angle |
|-------------------------|----------------|--------------|--------------|-----------|--------|-------------|----------|-------|
| , and the second second | | m | m | m | ft | ft | ft | J |
| BLDG-1A | Polygon | 330606.7 | 3575549.3 | 1185.82 | 25 | N/A | N/A | N/A |
| BLDG-1B | Polygon | 330593 | 3575573.9 | 1185.75 | 15.5 | N/A | N/A | N/A |
| BLDG-1C | Polygon | 330625.4 | 3575453.2 | 1186 | 18.25 | N/A | N/A | N/A |
| BLDG-1D | Polygon | 330573.1 | 3575489.9 | 1185.87 | 22.5 | N/A | N/A | N/A |
| BLDG-1E | Polygon | 330620.6 | 3575406.2 | 1185.95 | 25 | N/A | N/A | N/A |
| BLDG-2 | Polygon | 330452 | 3575691.8 | 1186.36 | 26.58 | N/A | N/A | N/A |
| ADMIN | Rectangular | 330671.3 | 3575481.3 | 1185.45 | 15.5 | 394.685 | 194.2257 | 59.2 |
| DRAPER | Polygon | 330609.5 | 3575594.9 | 1185.44 | 26 | N/A | N/A | N/A |
| FORKLIFT | Polygon | 330629.6 | 3575630.6 | 1185.76 | 17 | N/A | N/A | N/A |
| UTILITY | Rectangular | 330536.3 | 3575602 | 1186.25 | 25 | 14.10761 | 44.94751 | 58.9 |
| WIP-LOAD | Rectangular | 330534.8 | 3575668.7 | 1186.07 | 26.58 | 30.51181 | 48.88451 | 59.1 |
| FIN-LOAD | Rectangular | 330608.8 | 3575427.6 | 1186.19 | 22.5 | 62.00787 | 28.87139 | 59.6 |
| W-GH | Rectangular | 330621.3 | 3575687.4 | 1185.92 | 16 | 73.16273 | 29.85564 | 89 |
| E-GH | Rectangular | 330636.2 | 3575680.1 | 1185.92 | 16 | 48.22835 | 31.16798 | 89.5 |
| MOB-OFF | Rectangular | 330661.3 | 3575450.8 | 1185.55 | 15.5 | 22.6378 | 62.99213 | -23.2 |

2.2 Receptor Grid Description and Elevation Data

The center point of the facility will be designated at 330596 meters east and 3575591 meters north. This center point will serve as the center point for a variable density circular receptor grid. The facility fence line will be modeled using 25 meter grid spacing. A 50 meter grid spacing will extend out to 800 meters in each direction from the facility center point for a very fine grid resolution. A 100 meter grid spacing will extend from 800 meters to 3,000 meters in each direction for a fine grid resolution. A 250 meter grid spacing will extend from 3,000 meters to 6,000 meters in each directions for a medium grid resolution. A 500 meter grid spacing will extend from 6,000 meters to 10,000 meters in each direction for a coarse grid resolution. A 1,000 meter grid spacing will extend from 10,000 meters to 50,000 meters in each direction for a very coarse grid resolution. It is expected that the highest impacts from the proposed source will be at or near the facility property.

For the Class I area analysis, a grid spacing of 1000 m is used for receptors over the Class I area. Class I receptors will be obtained through NMED MergeMaster.

The elevations of receptors and facility sources will be determined using the most recent NED data currently available (1/3 arc-second DEM) from the USGS website.

2.3 Meteorological Data

The Las Cruces NWS dataset will be used for five meteorological years (2018-2022) as available on the NMED website.

2.4 Significance Analysis (SIL) and Cumulative Impact Analysis (CIA)

The modeled ground-level concentrations will be compared to the corresponding significant impact levels (SILs) to determine whether any modeled ground-level concentrations at any receptor locations are greater than the SIL (i.e., "significant" receptors). If the significance analysis reveals that modeled ground-level concentrations for a particular pollutant and averaging period are greater than the applicable SIL, a Cumulative Impact Analysis (CIA) will be performed at the significant receptors. The CIA will include impacts from the facility sources and background concentrations and/or surrounding sources as applicable.

If necessary, the following monitors will be used for background concentrations:

- ▶ The US-Mexico Border Crossing Monitor (6ZN, 350130022) for NO₂;
- ► El Paso Chamizal Monitor (481410044) for CO;
- ► The Bloomfield Monitor (1ZB, 350450009) will be used for SO₂;
- ▶ The Las Cruces District Office of NMED Monitor (6Q, 350130025) dataset will be used for PM_{2.5}; and
- ▶ The Las Cruces City Well #46 Monitor (6WM, 350130024) dataset will be used for PM₁₀.

The inclusion of background concentrations will follow the guidance shown in Table 20: "Modeling the Design Value Summary (Default Modeling)" from the Modeling Guidelines¹. Based on the NMED Modeling Guidelines, background concentrations will be added to the model results and compared to the NAAQS and NMAAQS standards for NO₂, CO, and SO₂ for all applicable averaging periods.

For PM_{10} and $PM_{2.5}$, the facility will be modeled with surrounding sources within 10 km of the facility and background concentration will be added to the modeling results and compared to the NAAQS standards for all applicable averaging periods. An inventory of the surrounding sources will be obtained from the NMED MergeMaster. Secondary formation is not required as this facility neither emits 40 tpy of NO_x or 40 tpy of SO_2 .

2.5 PSD Increment Analysis

If the results of the ROI analysis for NO_2 , SO_2 , $PM_{2.5}$, or PM_{10} indicate concentrations greater than significance levels, PSD increment analysis will be conducted for the appropriate averaging periods. If required, the PSD increment analysis will be conducted including all PSD increment consuming and expanding sources within 25 km of the facility, plus sources emitting over 1000 pounds per hour within 50 km of the facility. The surrounding source information will be obtained from NMED MergeMaster. The predicted maximum concentrations will be compared to the appropriate Class II PSD Standard.

2.6 Class I Areas Analysis

The nearest Class I area is the Gila Wilderness, which is 148.2 km southeast of the facility. A Class I area analysis will not need to be performed as the national forest is not within the 50 km inclusion zone for PSD minor sources.

¹ New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines Revised June 2024

Saved Date: 1/6/2025

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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

Compliance Test History Table

| Unit No. | Test Description | Test Date |
|----------|--|------------|
| N/A | ISCST3 modeling for Carbon Monoxide, Nitrogen Oxides, TSP, PM≤10 | 2002 |
| N/A | EPA test methods for PM _{2.5} | 01/25/2009 |

Section 20

Other Relevant Information

<u>Other relevant information</u>. 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.

No additional relevant information is attached to this document.

Section 22: Certification

| Company Name: Olam West Coast, Inc | |
|---|---|
| I, Arumuga Vainer, hereby certify that the information and as accurate as possible, to the best of my knowledge and professional ex | |
| Signed this 3 day of January , 2025, upon my oath or aff | irmation, before a notary of the State of |
| New Mexico | * |
| *Signature | Date Director of Operation Title |
| ARUMUGA NAIXAR Printed Name | Gr. Director of Operation |
| Scribed and sworn before me on this 3 day of January | , 2025. |
| My authorization as a notary of the State of New Mexico | expires on the |
| Notary's Signature day of October, 2028. | 01/03/25 Date / 03/25 |
| Tabatha Martinen. 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.

