

## *Cirrus Consulting, LLC*

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October 22, 2025

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

Re: Application to Modify Permit Number 942-M3 (as revised)  
Harvest Four Corners, LLC – 32-9 Central Delivery Point

Dear Ms. Hollenberg,

On behalf of Harvest Four Corners, LLC (HFC), Cirrus Consulting, LLC submits the enclosed application to modify the construction permit for the 32-9 Central Delivery Point (CDP).

A check for the application filing fee of \$500.00 is attached.

Thank you for your assistance. If you have questions or need additional information, please contact Monica Smith of HFC at (505) 632-4625 or [msmith@harvestmidstream.com](mailto:msmith@harvestmidstream.com).

Sincerely,

**CIRRUS CONSULTING, LLC**

James W. Newby

Attachment  
Check  
32-9 CDP Construction Permit Application

c: Monica Smith, HFC

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**NEW MEXICO 20.2.72 NMAC APPLICATION  
TO MODIFY PERMIT NUMBER 924-M3 (AS REVISED)**

**32-9 CENTRAL DELIVERY POINT**

**Submitted By:**



**HARVEST FOUR CORNERS, LLC  
1755 Arroyo Drive  
Bloomfield, New Mexico 87413**

**Prepared By:**

**CIRRUS CONSULTING, LLC  
2611 Westbrook Loop  
Pea Ridge, Arkansas 72751  
(801) 294-3024**

**October 2025**

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### **Introduction**

The Harvest Four Corners, LLC (HFC) 32-9 Central Delivery Point (CDP) currently operates under construction permit number 0924-M3, dated March 24, 2011 (as revised), and Title V operating permit number P030-R5, dated October 17, 2024.

This application is being submitted to modify the construction permit as follows:

- Add catalytic convertors to four (4) of the existing Waukesha 7042GL 4-stroke lean burn (4SLB) engines (Units 1-4);
- Replace one (1) the existing Waukesha 7042GL 4SLB engine (Unit 5) with a Waukesha 7044GSI 4-stroke rich burn (4SRB) engine (Unit 5). The replacement engine will be equipped with a catalytic convertor;
- Add one (1) Waukesha 7044GSI 4SRB engine (Unit 6). The engine will be equipped with a catalytic convertor;
- Identify the six (6) reciprocating compressors associated with the engines (Units RC1-RC6);
- Add two (2) 10 million standard cubic feet per day (MMSCFD) dehydrators (Units 11 and 13);
- Modify startup, shutdown, and maintenace emissions (Unit SSM) to include both engine and dehydrator blowdown events;
- Remove malfunction emissions (Unit M1);
- Identify the pneumatic controllers (Units PC1-PC37) at the facility;
- Add five (5) pneumatic pumps (Units PP1-PP5).

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|                                                                                                                                                                                                                                                                                                      |                                                                                   |                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------|
| <b>Mail Application To:</b><br><br>New Mexico Environment Department<br>Air Quality Bureau<br>Permits Section<br>525 Camino de los Marquez, Suite 1<br>Santa Fe, New Mexico, 87505<br><br>Phone: (505) 476-4300<br>Fax: (505) 476-4375<br><a href="http://www.env.nm.gov/aqb">www.env.nm.gov/aqb</a> |  | <b>For Department use only:</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------|

## Universal Air Quality Permit Application

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

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

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

### Acknowledgements:

- ☒ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.
- ☒ \$500 NSR application Filing Fee enclosed OR ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).
- ☒ Check No.: **1083** in the amount of **\$500.00**
- ☒ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.
- ☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: [www.env.nm.gov/air-quality/permit-fees-2/](http://www.env.nm.gov/air-quality/permit-fees-2/).
- ☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full \$500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: [www.env.nm.gov/air-quality/small-biz-eap-2/](http://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)

## Section 1 – Facility Information

|                                         |                                                                                                                                                 |                                                   |                                                      |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| <b>Section 1-A: Company Information</b> |                                                                                                                                                 | AI # if known:<br><b>1226</b>                     | Updating Permit/NOI #:<br><b>924-M3 (as revised)</b> |
| 1                                       | Facility Name: <b>32-9 CDP</b>                                                                                                                  | Plant primary SIC Code (4 digits): <b>1389</b>    |                                                      |
|                                         |                                                                                                                                                 | Plant NAIC code (6 digits): <b>213112</b>         |                                                      |
| a                                       | Facility Street Address (If no facility street address, provide directions from a prominent landmark):<br><b>See directions in Section 1-D4</b> |                                                   |                                                      |
| 2                                       | Plant Operator Company Name: <b>Harvest Four Corners, LLC</b>                                                                                   | Phone/Fax: <b>(505) 632-4600 / (505) 632-4782</b> |                                                      |

|   |                                                                                                                                  |                                                   |
|---|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| a | Plant Operator Address: <b>1755 Arroyo Drive, Bloomfield, New Mexico 87413</b>                                                   |                                                   |
| b | Plant Operator's New Mexico Corporate ID or Tax ID: <b>76-0451075</b>                                                            |                                                   |
| 3 | Plant Owner(s) name(s): <b>Same as #2 above</b>                                                                                  | Phone/Fax: <b>Same as #2 above</b>                |
| a | Plant Owner(s) Mailing Address(s): <b>Same as #2a above</b>                                                                      |                                                   |
| 4 | Bill To (Company): <b>Same as #2 above</b>                                                                                       | Phone/Fax: <b>Same as #2 above</b>                |
| a | Mailing Address: <b>Same as #2a above</b>                                                                                        | E-mail: <b>N/A</b>                                |
| 5 | <input type="checkbox"/> Preparer:<br><input checked="" type="checkbox"/> Consultant: <b>James Newby, Cirrus Consulting, LLC</b> | Phone/Fax: <b>(801) 294-3024</b>                  |
| a | Mailing Address:<br><b>2611 Westbrook Loop, Pea Ridge, Arkansas 72751</b>                                                        | E-mail: <b>jnewby@cirrusllc.com</b>               |
| 6 | Plant Operator Contact: <b>Monica Smith</b>                                                                                      | Phone/Fax: <b>(505) 632-4625 / (505) 632-4782</b> |
| a | Address: <b>Same as #2a above</b>                                                                                                | E-mail: <b>msmith@harvestmidstream.com</b>        |
| 7 | Air Permit Contact: <b>Same as #6 above</b>                                                                                      | Title: <b>Environmental Specialist</b>            |
| a | E-mail: <b>Same as #6a above</b>                                                                                                 | Phone/Fax: <b>Same as #6a above</b>               |
| b | Mailing Address: <b>Same as #2a above</b>                                                                                        |                                                   |
| c | The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.  |                                                   |

### Section 1-B: Current Facility Status

|     |                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                             |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.a | Has this facility already been constructed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                             | 1.b If yes to question 1.a, is it currently operating in New Mexico? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                    |
| 2   | If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                           | If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3   | Is the facility currently shut down? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                    | If yes, give month and year of shut down (MM/YY): <b>N/A</b>                                                                                                                                                |
| 4   | Was this facility constructed before 8/31/1972 and continuously operated since 1972? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                    |                                                                                                                                                                                                             |
| 5   | If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972?<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <b>It is assumed this question refers to question 4 rather than question 3.</b> |                                                                                                                                                                                                             |
| 6   | Does this facility have a Title V operating permit (20.2.70 NMAC)?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                   | If yes, the permit No. is: <b>P030-R5</b>                                                                                                                                                                   |
| 7   | Has this facility been issued a No Permit Required (NPR)?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                            | If yes, the NPR No. is: <b>N/A</b>                                                                                                                                                                          |
| 8   | Has this facility been issued a Notice of Intent (NOI)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                 | If yes, the NOI No. is: <b>N/A</b>                                                                                                                                                                          |
| 9   | Does this facility have a construction permit (20.2.72/20.2.74 NMAC)?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                | If yes, the permit No. is: <b>924-M3 (as revised)</b>                                                                                                                                                       |
| 10  | Is this facility registered under a General permit (GCP-1, GCP-2, etc.)?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                             | If yes, the register No. is: <b>N/A</b>                                                                                                                                                                     |

### Section 1-C: Facility Input Capacity & Production Rate

|   |                                                                                                                                            |                                       |                                       |                                            |
|---|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------------|
| 1 | What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)  |                                       |                                       |                                            |
| a | Current                                                                                                                                    | Hourly: <b>3.6 MMCF<sup>(a)</sup></b> | Daily: <b>86.0 MMCF<sup>(a)</sup></b> | Annually: <b>31.397 MMCF<sup>(a)</sup></b> |
| b | Proposed                                                                                                                                   | Hourly: <b>3.6 MMCF<sup>(a)</sup></b> | Daily: <b>86.0 MMCF<sup>(a)</sup></b> | Annually: <b>31.397 MMCF<sup>(a)</sup></b> |
| 2 | What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required) |                                       |                                       |                                            |
| a | Current                                                                                                                                    | Hourly: <b>3.6 MMCF<sup>(a)</sup></b> | Daily: <b>86.0 MMCF<sup>(a)</sup></b> | Annually: <b>31.397 MMCF<sup>(a)</sup></b> |

|   |          |                                       |                                       |                                            |
|---|----------|---------------------------------------|---------------------------------------|--------------------------------------------|
| b | Proposed | Hourly: <b>3.6 MMCF<sup>(a)</sup></b> | Daily: <b>86.0 MMCF<sup>(a)</sup></b> | Annually: <b>31.397 MMCF<sup>(a)</sup></b> |
|---|----------|---------------------------------------|---------------------------------------|--------------------------------------------|

<sup>(a)</sup> The station capacity is a direct function of available horsepower. The throughput is therefore dependent on atmospheric temperature and pressure, gas temperature and pressure, relative humidity and gas quality, as well as other factors. The “throughput” expressed above is a nominal quantity (with a 15 percent safety factor), neither an absolute maximum, nor an average. Actual throughput will vary from the nominal amount.

## Section 1-D: Facility Location Information

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                                                                   |                                 |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------|
| 1  | Latitude (decimal degrees): <b>36.8953</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Longitude (decimal degrees): <b>-107.8611</b> | County:<br><b>San Juan</b>                                                        | Elevation (ft):<br><b>6,230</b> |
| 2  | UTM Zone: <input type="checkbox"/> 12 or <input checked="" type="checkbox"/> 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | Datum: <input type="checkbox"/> NAD 83 <input checked="" type="checkbox"/> WGS 84 |                                 |
| a  | UTM E (in meters, to nearest 10 meters): <b>245,050</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | UTM N (in meters, to nearest 10 meters): <b>4,087,080</b>                         |                                 |
| 3  | Name and zip code of nearest New Mexico town: <b>Aztec, New Mexico 87410</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                                   |                                 |
| 4  | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): <b>From Aztec, drive north on Hwy 550 to mile marker 164 (Hart Canyon Road), turn right on CR 2770, and drive 2.8 miles (to Lat-B-3 pipe marker), turn left and drive 1.2 miles (to H-10 Loop pipe marker), turn right and drive approximately 3 miles, the site is on left side of the road.</b>                                                                                                                                                                         |                                               |                                                                                   |                                 |
| 5  | The facility is <b>approximately 9 miles northeast</b> of Aztec, New Mexico.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                                   |                                 |
| 6  | Land Status of facility (check one): <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian/Pueblo <input type="checkbox"/> Government <input type="checkbox"/> BLM <input type="checkbox"/> Forest Service <input type="checkbox"/> Military                                                                                                                                                                                                                                                                                             |                                               |                                                                                   |                                 |
| 7  | List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: <b>Aztec; Southern Ute Tribe; San Juan County</b>                                                                                                                                                                                                                                                                                                                   |                                               |                                                                                   |                                 |
| 8  | 20.2.72 NMAC applications <b>only</b> : Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see <a href="http://www.env.nm.gov/air-quality/modeling-publications/">www.env.nm.gov/air-quality/modeling-publications/</a> )? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: <b>State of Colorado (11.5 km)</b>                    |                                               |                                                                                   |                                 |
| 9  | Name nearest Class I area: <b>Mesa Verde National Park</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                                                                   |                                 |
| 10 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): <b>55.184</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                                                   |                                 |
| 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: <b>5,775</b>                                                                                                                                                                                                                                                                                                                  |                                               |                                                                                   |                                 |
| 12 | Method(s) used to delineate the Restricted Area: <b>Fence</b><br>“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?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.                                                                                             |                                               |                                                                                   |                                 |
| 14 | Will this facility operate in conjunction with other air regulated parties on the same property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, what is the name and permit number (if known) of the other facility? <b>N/A</b>                                                                                                                                                                                                                                                                                                |                                               |                                                                                   |                                 |

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

|   |                                                                                                                     |                                                 |                                                         |                                                                                               |
|---|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1 | Facility <b>maximum</b> operating ( $\frac{\text{hours}}{\text{day}}$ ): <b>24</b>                                  | ( $\frac{\text{days}}{\text{week}}$ ): <b>7</b> | ( $\frac{\text{weeks}}{\text{year}}$ ): <b>52</b>       | ( $\frac{\text{hours}}{\text{year}}$ ): <b>8,760</b>                                          |
| 2 | Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$ )? Start: <b>N/A</b> |                                                 | <input type="checkbox"/> AM <input type="checkbox"/> PM | End: <b>N/A</b> <input checked="" type="checkbox"/> AM <input checked="" type="checkbox"/> PM |
| 3 | Month and year of anticipated start of construction: <b>TBD</b>                                                     |                                                 |                                                         |                                                                                               |
| 4 | Month and year of anticipated construction completion: <b>TBD</b>                                                   |                                                 |                                                         |                                                                                               |
| 5 | Month and year of anticipated startup of new or modified facility: <b>TBD</b>                                       |                                                 |                                                         |                                                                                               |

|   |                                                                                                                                     |
|---|-------------------------------------------------------------------------------------------------------------------------------------|
| 6 | Will this facility operate at this site for more than one year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|---|-------------------------------------------------------------------------------------------------------------------------------------|

### Section 1-F: Other Facility Information

|   |                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                                                       |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------|
| 1 | Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, specify: <b>N/A</b>                                                                                                                                                                        |                             |                                                       |
| a | If yes, NOV date or description of issue: <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                | NOV Tracking No: <b>N/A</b> |                                                       |
| b | Is this application in response to any issue listed in 1-F, 1 or 1a above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If Yes, provide the 1c & 1d info below: <b>N/A</b>                                                                                                                                                                                                                |                             |                                                       |
| c | Document Title: <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                          | Date: <b>N/A</b>            | Requirement # (or page # and paragraph #): <b>N/A</b> |
| d | Provide the required text to be inserted in this permit: <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                 |                             |                                                       |
| 2 | Is air quality dispersion modeling or modeling waiver being submitted with this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                    |                             |                                                       |
| 3 | Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                      |                             |                                                       |
| 4 | Will this facility be a source of federal Hazardous Air Pollutants (HAP)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                       |                             |                                                       |
| a | If Yes, what type of source? <input type="checkbox"/> <b>Major</b> ( <input type="checkbox"/> $\geq 10$ tpy of any single HAP OR <input type="checkbox"/> $\geq 25$ tpy of any combination of HAPS)<br><b>OR</b> <input checked="" type="checkbox"/> <b>Minor</b> ( <input checked="" type="checkbox"/> $< 10$ tpy of any single HAP AND <input checked="" type="checkbox"/> $< 25$ tpy of any combination of HAPS) |                             |                                                       |
| 5 | Is any unit exempt under 20.2.72.202.B.3 NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                  |                             |                                                       |
| a | If yes, include the name of company providing commercial electric power to the facility: <b>N/A</b><br>Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.                                                                                                                                               |                             |                                                       |

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

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

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

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

|   |                                                                                                                                                                                                                                                                     |                                                             |                              |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------|
| 1 | Responsible Official (R.O.)(20.2.70.300.D.2 NMAC): <b>Michelle McCracken</b>                                                                                                                                                                                        |                                                             | Phone: <b>(713) 515-3924</b> |
| a | R.O. Title: <b>EH&amp;S Director</b>                                                                                                                                                                                                                                | R.O. e-mail: <b>michelle.mccracken@harvestmidstream.com</b> |                              |
| b | R. O. Address: <b>1111 Travis Street, Houston, Texas 77002</b>                                                                                                                                                                                                      |                                                             |                              |
| 2 | Alternate Responsible Official (20.2.70.300.D.2 NMAC): <b>TBD</b>                                                                                                                                                                                                   |                                                             | Phone: <b>TBD</b>            |
| a | A. R.O. Title: <b>TBD</b>                                                                                                                                                                                                                                           | A. R.O. e-mail: <b>TBD</b>                                  |                              |
| b | A. R. O. Address: <b>TBD</b>                                                                                                                                                                                                                                        |                                                             |                              |
| 3 | Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship): <b>N/A</b> |                                                             |                              |
| 4 | Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.): <b>Hilcorp Energy Company</b>                                                                                        |                                                             |                              |
| a | Address of Parent Company: <b>Same as #1b above</b>                                                                                                                                                                                                                 |                                                             |                              |
| 5 | Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.): <b>N/A</b>                                                                    |                                                             |                              |
| 6 | Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: <b>N/A</b>                                                                                                                                                        |                                                             |                              |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: <b>Yes: State of Colorado (11.5 km); Southern Ute Tribe (11.5 km); Navajo Tribe (28.8 km); Ute Mountain Ute Tribe (34.8 km); and Jicarilla Apache Tribe (59.1 km).</b> |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 1-I – Submittal Requirements

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

### Hard Copy Submittal Requirements:

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

### Electronic files sent by (check one):

☒ CD/DVD attached to paper application

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

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

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

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

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

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

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**Table 2-A: Regulated Emission Sources**

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

| Unit Number <sup>1</sup> | Source Description                           | Make     | Model #         | Serial #                    | Manufacturer's Rated Capacity <sup>3</sup><br>(Specify Units) | Requested Permitted Capacity <sup>3</sup><br>(Specify Units) | Date of Manufacture <sup>2</sup>                 | Controlled by Unit #        | Source Classification Code (SCC) | For Each Piece of Equipment, Check One                                                                                                                                                                                                                                         | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) <sup>4</sup> | Replacing Unit No. |
|--------------------------|----------------------------------------------|----------|-----------------|-----------------------------|---------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|-----------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------|
|                          |                                              |          |                 |                             |                                                               |                                                              | Date of Construction/Reconstruction <sup>2</sup> | Emissions vented to Stack # |                                  |                                                                                                                                                                                                                                                                                |                                                            |                    |
| 1                        | Engine                                       | Waukesha | 7042GL          | C-12588/1<br>(Pkg. X00047)  | 1,478 hp                                                      | 1,379 hp                                                     | 7/17/1998                                        | N/A                         | 20200202                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input checked="" type="checkbox"/> <b>To Be Modified</b> <input type="checkbox"/> To be Replaced | SI, 4SLB                                                   | N/A                |
| 2                        | Engine                                       | Waukesha | 7042GL          | C-10985/9<br>(Pkg. X00044)  | 1,478 hp                                                      | 1,379 hp                                                     | 10/30/1993                                       | N/A                         | 20200202                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input checked="" type="checkbox"/> <b>To Be Modified</b> <input type="checkbox"/> To be Replaced | SI, 4SLB                                                   | N/A                |
| 3                        | Engine                                       | Waukesha | 7042GL          | C-10607/12<br>(Pkg. X00045) | 1,478 hp                                                      | 1,379 hp                                                     | 7/14/1992                                        | N/A                         | 20200202                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input checked="" type="checkbox"/> <b>To Be Modified</b> <input type="checkbox"/> To be Replaced | SI, 4SLB                                                   | N/A                |
| 4                        | Engines                                      | Waukesha | 7042GL          | C-11492/3<br>(Pkg. X00048)  | 1,478 hp                                                      | 1,379 hp                                                     | 12/16/1994                                       | N/A                         | 20200202                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input checked="" type="checkbox"/> <b>To Be Modified</b> <input type="checkbox"/> To be Replaced | SI, 4SLB                                                   | N/A                |
| 5                        | Engine                                       | Waukesha | 7042GL          | 279014<br>(Pkg. X00032)     | 1,478 hp                                                      | 1,379 hp                                                     | 1/31/1975                                        | N/A                         | 20200202                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input checked="" type="checkbox"/> <b>To be Replaced</b> | SI, 4SLB                                                   | N/A                |
| 5                        | Engine                                       | Waukesha | 7044GSI         | TBD                         | 1,680 hp                                                      | 1,568 hp                                                     | TBD                                              | N/A                         | 20200202                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input checked="" type="checkbox"/> <b>Replacement Unit</b><br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | SI, 4SRB                                                   | 5                  |
| 6                        | Engine                                       | Waukesha | 7044GSI         | TBD                         | 1,680 hp                                                      | 1,568 hp                                                     | TBD                                              | N/A                         | 20200202                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input checked="" type="checkbox"/> <b>New/Additional</b> <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | SI, 4SRB                                                   | N/A                |
| 1a-6a                    | Reciprocating Compressors                    | N/A      | N/A             | N/A                         | N/A                                                           | N/A                                                          | N/A                                              | N/A                         | 31000225                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input checked="" type="checkbox"/> <b>New/Additional</b> <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| SSM                      | Compressors, Associated Piping & Dehydrators | N/A      | N/A             | N/A                         | N/A                                                           | N/A                                                          | N/A                                              | N/A                         | 31000299                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input checked="" type="checkbox"/> <b>To Be Modified</b> <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 9a                       | Dehydrator Still Vent                        | P&A      | PM-10MM-1000-2P | 5282                        | 10 mmcf/d                                                     | 10 mmcf/d                                                    | 10/1991                                          | N/A                         | 31000227                         | <input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 9b                       | Dehydrator Reboiler                          | P&A      | PM-10MM-1000-2P | 5282                        | 0.6 MMBtu/hr                                                  | 0.6 MMBtu/hr                                                 | 10/1991                                          | N/A                         | 31000228                         | <input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 10a                      | Dehydrator Still Vent                        | P&A      | PM-10MM-1000-2P | 4303                        | 10 mmcf/d                                                     | 10 mmcf/d                                                    | 01/1991                                          | N/A                         | 31000227                         | <input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 10b                      | Dehydrator Reboiler                          | P&A      | PM-10MM-1000-2P | 4303                        | 0.6 MMBtu/hr                                                  | 0.6 MMBtu/hr                                                 | 10/1991                                          | N/A                         | 31000228                         | <input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 11a                      | Dehydrator Still Vent                        | TBD      | TBD             | TBD                         | 10 mmcf/d                                                     | 10 mmcf/d                                                    | TBD                                              | N/A                         | 31000227                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input checked="" type="checkbox"/> <b>New/Additional</b> <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |

**Table 2-A: Regulated Emission Sources**

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

| Unit Number <sup>1</sup> | Source Description    | Make    | Model # | Serial # | Manufacturer's Rated Capacity <sup>3</sup><br>(Specify Units) | Requested Permitted Capacity <sup>3</sup><br>(Specify Units) | Date of Manufacture <sup>2</sup>                 | Controlled by Unit #        | Source Classification Code (SCC) | For Each Piece of Equipment, Check One                                                                                                                                                                                                                                         | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) <sup>4</sup> | Replacing Unit No. |
|--------------------------|-----------------------|---------|---------|----------|---------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|-----------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------|
|                          |                       |         |         |          |                                                               |                                                              | Date of Construction/Reconstruction <sup>2</sup> | Emissions vented to Stack # |                                  |                                                                                                                                                                                                                                                                                |                                                            |                    |
| 11b                      | Dehydrator Reboiler   | TBD     | TBD     | TBD      | 0.6 MMBtu/hr                                                  | 0.6 MMBtu/hr                                                 | TBD                                              | N/A                         | 31000228                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input checked="" type="checkbox"/> <b>New/Additional</b> <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 12a                      | Dehydrator Still Vent | Enertek | TBD     | 41674    | 12 mmcf/d                                                     | 12 mmcf/d                                                    | 10/1990                                          | N/A                         | 31000227                         | <input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 12b                      | Dehydrator Reboiler   | Enertek | TBD     | 41674    | 1.1 MMBtu/hr                                                  | 1.1 MMBtu/hr                                                 | 04/1992                                          | N/A                         | 31000228                         | <input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 13a                      | Dehydrator Still Vent | TBD     | TBD     | TBD      | 10 mmcf/d                                                     | 10 mmcf/d                                                    | TBD                                              | N/A                         | 31000227                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input checked="" type="checkbox"/> <b>New/Additional</b> <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| 13b                      | Dehydrator Reboiler   | TBD     | TBD     | TBD      | 0.6 MMBtu/hr                                                  | 0.6 MMBtu/hr                                                 | TBD                                              | N/A                         | 31000228                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input checked="" type="checkbox"/> <b>New/Additional</b> <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| M1                       | Malfunctions          | N/A     | N/A     | N/A      | N/A                                                           | N/A                                                          | N/A                                              | N/A                         | 31000299                         | <input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> <b>To be Removed</b><br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| PC1 - PC37               | Pneumatic Controllers | N/A     | N/A     | N/A      | N/A                                                           | N/A                                                          | N/A                                              | N/A                         | 31000299                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input checked="" type="checkbox"/> <b>New/Additional</b> <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |
| PP1-PP5                  | Pneumatic Pumps       | N/A     | N/A     | N/A      | N/A                                                           | N/A                                                          | N/A                                              | N/A                         | 31000299                         | <input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input checked="" type="checkbox"/> <b>New/Additional</b> <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced | N/A                                                        | N/A                |

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

<sup>2</sup> Specify dates required to determine regulatory applicability.

<sup>3</sup> 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.

<sup>4</sup> "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

**Table 2-B: Insignificant Activities<sup>1</sup> (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)**

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 20.2.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see [http://www.env.nm.gov/aqb/permit/aqb\\_pol.html](http://www.env.nm.gov/aqb/permit/aqb_pol.html)), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

| Unit Number | Source Description             | Manufacturer | Model No.  | Max Capacity   | List Specific 20.2.72.202 NMAC Exemption<br>(e.g. 20.2.72.202.B.5) | Date of Manufacture<br>/Reconstruction <sup>2</sup> | For Each Piece of Equipment, Check One                                                                                                                                                                                                                                  |
|-------------|--------------------------------|--------------|------------|----------------|--------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                |              | Serial No. | Capacity Units | Insignificant Activity citation (e.g. IA List Item #1.a)           | Date of Installation<br>/Construction <sup>2</sup>  |                                                                                                                                                                                                                                                                         |
| T1 - T8     | Lubrication Oil Storage Tanks  |              |            | 500            | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T9          | Lubrication Oil Storage Tanks  |              |            | 100            | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | bbl            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T10         | Used Oil Storage Tank          |              |            | 160            | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | bbl            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T11 - T15   | Glycol Storage Tanks           |              |            | 100            | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T17         | Solvent Storage Tank           |              |            | 300            | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T19         | Antifreeze Storage Tank        |              |            | 500            | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T20         | Waste Water Storage Tank       |              |            | 165            | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | bbl            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T21         | Non-Potable Water Storage Tank |              |            | 3000           | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T22         | Produced Water Storage Tank    |              |            | 1000           | 20.2.72.202.B(5) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 1                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T25 - T32   | Antifreeze Storage Tanks       |              |            | 50             | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T33         | Detergent Storage Tank         |              |            | 300            | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T34         | Glycol Storage Tank            |              |            | 1000           | 20.2.72.202.B(2) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | gal            | Insignificant Activity Item No. 5                                  |                                                     |                                                                                                                                                                                                                                                                         |
| T35         | Produced Water Storage Tank    |              |            | 210            | 20.2.72.202.B(5) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                |              |            | bbl            | Insignificant Activity Item No. 1                                  |                                                     |                                                                                                                                                                                                                                                                         |

**Table 2-B: Insignificant Activities<sup>1</sup> (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)**

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

| Unit Number | Source Description                          | Manufacturer | Model No.  | Max Capacity   | List Specific 20.2.72.202 NMAC Exemption<br>(e.g. 20.2.72.202.B.5) | Date of Manufacture<br>/Reconstruction <sup>2</sup> | For Each Piece of Equipment, Check One                                                                                                                                                                                                                                  |
|-------------|---------------------------------------------|--------------|------------|----------------|--------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                             |              | Serial No. | Capacity Units | Insignificant Activity citation (e.g. IA List Item #1.a)           | Date of Installation<br>/Construction <sup>2</sup>  |                                                                                                                                                                                                                                                                         |
| F-1         | Fugitive Emissions<br>(Equipment leaks)     |              |            | -              | 20.2.72.202.B(5) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                             |              |            | -              | Insignificant Activity Item No. 1                                  |                                                     |                                                                                                                                                                                                                                                                         |
| L1          | Truck Loading Emissions<br>(Produced Water) |              |            | -              | 20.2.72.202.B(5) NMAC                                              |                                                     | <input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed<br><input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit<br><input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced |
|             |                                             |              |            | -              | Insignificant Activity Item No. 1                                  |                                                     |                                                                                                                                                                                                                                                                         |

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

<sup>2</sup> Specify date(s) required to determine regulatory applicability.

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

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

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

[illegible]

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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<sup>-4</sup>).

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

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

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

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

[illegible]

<sup>1</sup> 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.

<sup>2</sup> **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).

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

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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:

Form Revision: 11/18/2016 Table 2-H: Page 1 Printed 10/15/2025 10:00 AM

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

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

| Stack No. | Unit No.(s) | Total HAPs |        | Benzene<br>☑ HAP or ☐ TAP |        | Formaldehyde<br>☑ HAP or ☐ TAP |        | Toluene<br>☑ HAP or ☐ TAP |        | Xylene<br>☑ HAP or ☐ TAP |        | Provide Pollutant<br>Name Here<br>☐ HAP or ☐ TAP |        | Provide Pollutant<br>Name Here<br>☐ HAP or ☐ TAP |        | Provide Pollutant<br>Name Here<br>☐ HAP or ☐ TAP |        | Provide Pollutant<br>Name Here<br>HAP or ☐ TAP |        |
|-----------|-------------|------------|--------|---------------------------|--------|--------------------------------|--------|---------------------------|--------|--------------------------|--------|--------------------------------------------------|--------|--------------------------------------------------|--------|--------------------------------------------------|--------|------------------------------------------------|--------|
|           |             |            |        | lb/hr                     | ton/yr | lb/hr                          | ton/yr | lb/hr                     | ton/yr | lb/hr                    | ton/yr | lb/hr                                            | ton/yr | lb/hr                                            | ton/yr | lb/hr                                            | ton/yr | lb/hr                                          | ton/yr |
|           |             | lb/hr      | ton/yr | lb/hr                     | ton/yr | lb/hr                          | ton/yr | lb/hr                     | ton/yr | lb/hr                    | ton/yr | lb/hr                                            | ton/yr | lb/hr                                            | ton/yr | lb/hr                                            | ton/yr | lb/hr                                          | ton/yr |
| 1         | 1           | 0.3        | 1.2    | -                         | -      | 0.3                            | 1.1    | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 2         | 2           | 0.3        | 1.2    | -                         | -      | 0.3                            | 1.1    | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 3         | 3           | 0.3        | 1.2    | -                         | -      | 0.3                            | 1.1    | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 4         | 4           | 0.3        | 1.2    | -                         | -      | 0.3                            | 1.1    | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 5         | 5           | 0.2        | 0.6    | -                         | 0.2    | 0.1                            | 0.3    | -                         | 0.1    | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 6         | 6           | 0.2        | 0.6    | -                         | 0.2    | 0.1                            | 0.3    | -                         | 0.1    | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| SSM       | SSM         | -          | 0.1    | -                         | -      | -                              | -      | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 9a        | 9a          | 0.6        | 2.5    | 0.1                       | 0.3    | -                              | -      | 0.3                       | 1.1    | 0.2                      | 1.1    |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 9b        | 9b          | -          | -      | -                         | -      | -                              | -      | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 10a       | 10a         | 0.6        | 2.5    | 0.1                       | 0.3    | -                              | -      | 0.3                       | 1.1    | 0.2                      | 1.1    |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 10b       | 10b         | -          | -      | -                         | -      | -                              | -      | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 11a       | 11a         | 0.6        | 2.5    | 0.1                       | 0.3    | -                              | -      | 0.3                       | 1.1    | 0.2                      | 1.1    |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 11b       | 11b         | -          | -      | -                         | -      | -                              | -      | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 12a       | 12a         | 0.6        | 2.6    | 0.1                       | 0.3    | -                              | -      | 0.3                       | 1.1    | 0.3                      | 1.1    |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 12b       | 12b         | -          | -      | -                         | -      | -                              | -      | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 13a       | 13a         | 0.6        | 2.5    | 0.1                       | 0.3    | -                              | -      | 0.3                       | 1.1    | 0.2                      | 1.1    |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| 13b       | 13b         | -          | -      | -                         | -      | -                              | -      | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
| PP1-PP5   | PP1-PP5     | -          | -      | -                         | -      | -                              | -      | -                         | -      | -                        | -      |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |
|           |             |            |        |                           |        |                                |        |                           |        |                          |        |                                                  |        |                                                  |        |                                                  |        |                                                |        |

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

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

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

[illegible]

### Table 2-L: Tank Data

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

[illegible]

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

| Roof Type                                        | Seal Type, Welded Tank Seal Type |                               | Seal Type, Riveted Tank Seal Type |                                  | Roof, Shell Color       | Paint Condition |
|--------------------------------------------------|----------------------------------|-------------------------------|-----------------------------------|----------------------------------|-------------------------|-----------------|
| FX: Fixed Roof                                   | Mechanical Shoe Seal             | Liquid-mounted resilient seal | Vapor-mounted resilient seal      | Seal Type                        | WH: White               | Good            |
| IF: Internal Floating Roof                       | A: Primary only                  | A: Primary only               | A: Primary only                   | A: Mechanical shoe, primary only | AS: Aluminum (specular) | Poor            |
| EF: External Floating Roof                       | B: Shoe-mounted secondary        | B: Weather shield             | B: Weather shield                 | B: Shoe-mounted secondary        | AD: Aluminum (diffuse)  |                 |
| P: Pressure                                      | C: Rim-mounted secondary         | C: Rim-mounted secondary      | C: Rim-mounted secondary          | C: Rim-mounted secondary         | LG: Light Gray          |                 |
| Note: 1.00 bbl = 0.159 M <sup>3</sup> = 42.0 gal |                                  |                               |                                   |                                  | MG: Medium Gray         |                 |
|                                                  |                                  |                               |                                   |                                  | BL: Black               |                 |
|                                                  |                                  |                               |                                   |                                  | OT: Other (specify)     |                 |

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

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

[illegible]

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

Form Revision: 7/8/2011 Table 2-N: Page 1 Printed 10/15/2025 10:00 AM

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

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**Table 2-P: Greenhouse Gas Emissions**

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

|          |                   | CO <sub>2</sub><br>ton/yr | N <sub>2</sub> O<br>ton/yr | CH <sub>4</sub><br>ton/yr | SF <sub>6</sub><br>ton/yr | PFC/HFC<br>ton/yr <sup>2</sup> |  |  |  |  |  |  |  |  | Total<br>GHG Mass<br>Basis ton/yr <sup>4</sup> | Total<br>CO <sub>2</sub> e<br>ton/yr <sup>5</sup> |
|----------|-------------------|---------------------------|----------------------------|---------------------------|---------------------------|--------------------------------|--|--|--|--|--|--|--|--|------------------------------------------------|---------------------------------------------------|
| Unit No. | GWPs <sup>1</sup> | 1                         | 298                        | 25                        | 22,800                    | footnote 3                     |  |  |  |  |  |  |  |  |                                                |                                                   |
| 1        | mass GHG          | 6010.45                   | 1.13E-02                   | 1.13E-01                  |                           |                                |  |  |  |  |  |  |  |  | 6010.58                                        |                                                   |
|          | CO <sub>2</sub> e | 6010.45                   | 3.38                       | 2.83                      |                           |                                |  |  |  |  |  |  |  |  |                                                | 6016.66                                           |
| 2        | mass GHG          | 6010.45                   | 1.13E-02                   | 1.13E-01                  |                           |                                |  |  |  |  |  |  |  |  | 6010.58                                        |                                                   |
|          | CO <sub>2</sub> e | 6010.45                   | 3.38                       | 2.83                      |                           |                                |  |  |  |  |  |  |  |  |                                                | 6016.66                                           |
| 3        | mass GHG          | 6010.45                   | 1.13E-02                   | 1.13E-01                  |                           |                                |  |  |  |  |  |  |  |  | 6010.58                                        |                                                   |
|          | CO <sub>2</sub> e | 6010.45                   | 3.38                       | 2.83                      |                           |                                |  |  |  |  |  |  |  |  |                                                | 6016.66                                           |
| 4        | mass GHG          | 6010.45                   | 1.13E-02                   | 1.13E-01                  |                           |                                |  |  |  |  |  |  |  |  | 6010.58                                        |                                                   |
|          | CO <sub>2</sub> e | 6010.45                   | 3.38                       | 2.83                      |                           |                                |  |  |  |  |  |  |  |  |                                                | 6016.66                                           |
| 5        | mass GHG          | 7425.01                   | 1.40E-02                   | 1.40E-01                  |                           |                                |  |  |  |  |  |  |  |  | 7425.17                                        |                                                   |
|          | CO <sub>2</sub> e | 7425.01                   | 4.17                       | 3.50                      |                           |                                |  |  |  |  |  |  |  |  |                                                | 7432.68                                           |
| 6        | mass GHG          | 7425.01                   | 1.40E-02                   | 1.40E-01                  |                           |                                |  |  |  |  |  |  |  |  | 7425.17                                        |                                                   |
|          | CO <sub>2</sub> e | 7425.01                   | 4.17                       | 3.50                      |                           |                                |  |  |  |  |  |  |  |  |                                                | 7432.68                                           |
| SSM      | mass GHG          | 303.91                    | -                          | 497.61                    |                           |                                |  |  |  |  |  |  |  |  | 801.52                                         |                                                   |
|          | CO <sub>2</sub> e | 303.91                    | -                          | 12440.37                  |                           |                                |  |  |  |  |  |  |  |  |                                                | 12744.28                                          |
| 9a       | mass GHG          | 13.05                     | -                          | 6.00E-01                  |                           |                                |  |  |  |  |  |  |  |  | 13.65                                          |                                                   |
|          | CO <sub>2</sub> e | 13.05                     | -                          | 15.01                     |                           |                                |  |  |  |  |  |  |  |  |                                                | 28.06                                             |
| 9b       | mass GHG          | 336.94                    | 6.35E-04                   | 6.35E-03                  |                           |                                |  |  |  |  |  |  |  |  | 336.94                                         |                                                   |
|          | CO <sub>2</sub> e | 336.94                    | 1.89E-01                   | 1.59E-01                  |                           |                                |  |  |  |  |  |  |  |  |                                                | 337.29                                            |
| 10a      | mass GHG          | 13.05                     | -                          | 6.00E-01                  |                           |                                |  |  |  |  |  |  |  |  | 13.65                                          |                                                   |
|          | CO <sub>2</sub> e | 13.05                     | -                          | 15.01                     |                           |                                |  |  |  |  |  |  |  |  |                                                | 28.06                                             |
| 10b      | mass GHG          | 336.94                    | 6.35E-04                   | 6.35E-03                  |                           |                                |  |  |  |  |  |  |  |  | 336.94                                         |                                                   |
|          | CO <sub>2</sub> e | 336.94                    | 1.89E-01                   | 1.59E-01                  |                           |                                |  |  |  |  |  |  |  |  |                                                | 337.29                                            |
| 11a      | mass GHG          | 13.05                     | -                          | 6.00E-01                  |                           |                                |  |  |  |  |  |  |  |  | 13.65                                          |                                                   |
|          | CO <sub>2</sub> e | 13.05                     | -                          | 15.01                     |                           |                                |  |  |  |  |  |  |  |  |                                                | 28.06                                             |
| 11b      | mass GHG          | 336.94                    | 6.35E-04                   | 6.35E-03                  |                           |                                |  |  |  |  |  |  |  |  | 336.94                                         |                                                   |
|          | CO <sub>2</sub> e | 336.94                    | 1.89E-01                   | 1.59E-01                  |                           |                                |  |  |  |  |  |  |  |  |                                                | 337.29                                            |
| 12a      | mass GHG          | 12.96                     | -                          | 5.96E-01                  |                           |                                |  |  |  |  |  |  |  |  | 13.56                                          |                                                   |
|          | CO <sub>2</sub> e | 12.96                     | -                          | 14.90                     |                           |                                |  |  |  |  |  |  |  |  |                                                | 27.86                                             |
| 12b      | mass GHG          | 617.63                    | 1.16E-03                   | 1.16E-02                  |                           |                                |  |  |  |  |  |  |  |  | 617.65                                         |                                                   |
|          | CO <sub>2</sub> e | 617.63                    | 3.47E-01                   | 2.91E-01                  |                           |                                |  |  |  |  |  |  |  |  |                                                | 618.27                                            |
| 13a      | mass GHG          | 13.05                     | -                          | 6.00E-01                  |                           |                                |  |  |  |  |  |  |  |  | 13.65                                          |                                                   |
|          | CO <sub>2</sub> e | 13.05                     | -                          | 15.01                     |                           |                                |  |  |  |  |  |  |  |  |                                                | 28.06                                             |

|          |                   | CO <sub>2</sub><br>ton/yr | N <sub>2</sub> O<br>ton/yr | CH <sub>4</sub><br>ton/yr | SF <sub>6</sub><br>ton/yr | PFC/HFC<br>ton/yr <sup>2</sup> |  |  |  |  |  |  |  |  | Total<br>GHG Mass<br>Basis ton/yr <sup>4</sup> | Total<br>CO <sub>2</sub> e<br>ton/yr <sup>5</sup> |
|----------|-------------------|---------------------------|----------------------------|---------------------------|---------------------------|--------------------------------|--|--|--|--|--|--|--|--|------------------------------------------------|---------------------------------------------------|
| Unit No. | GWPs <sup>1</sup> | 1                         | 298                        | 25                        | 22,800                    | footnote 3                     |  |  |  |  |  |  |  |  |                                                |                                                   |
| 13b      | mass GHG          | 336.94                    | 6.35E-04                   | 6.35E-03                  |                           |                                |  |  |  |  |  |  |  |  | 336.94                                         |                                                   |
|          | CO <sub>2</sub> e | 336.94                    | 1.89E-01                   | 1.59E-01                  |                           |                                |  |  |  |  |  |  |  |  |                                                | 337.29                                            |
| PP1-PP5  | mass GHG          | 6.06                      |                            | 9.92                      |                           |                                |  |  |  |  |  |  |  |  | 15.98                                          |                                                   |
|          | CO <sub>2</sub> e | 6.06                      | -                          | 247.91                    |                           |                                |  |  |  |  |  |  |  |  |                                                | 253.97                                            |
|          | mass GHG          |                           |                            |                           |                           |                                |  |  |  |  |  |  |  |  |                                                |                                                   |
|          | CO <sub>2</sub> e |                           |                            |                           |                           |                                |  |  |  |  |  |  |  |  |                                                |                                                   |
|          | mass GHG          |                           |                            |                           |                           |                                |  |  |  |  |  |  |  |  |                                                |                                                   |
|          | CO <sub>2</sub> e |                           |                            |                           |                           |                                |  |  |  |  |  |  |  |  |                                                |                                                   |
| Total    | mass GHG          | 41232.36                  | 7.70E-02                   | 511.30                    |                           |                                |  |  |  |  |  |  |  |  | 41743.74                                       |                                                   |
|          | CO <sub>2</sub> e | 41232.36                  | 22.95                      | 12782.44                  |                           |                                |  |  |  |  |  |  |  |  |                                                | 54037.75                                          |

<sup>1</sup> 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.

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

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

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

<sup>5</sup> CO<sub>2</sub>e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

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# Section 3

## Application Summary

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The **Application Summary** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **Process Summary** shall include a brief description of the facility and its processes.

**Startup, Shutdown, and Maintenance (SSM) routine or predictable emissions:** Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications ([http://www.env.nm.gov/aqb/permit/app\\_form.html](http://www.env.nm.gov/aqb/permit/app_form.html)) for more detailed instructions on SSM emissions.

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### *Application Summary*

The HFC 32-9 CDP currently operates under construction permit number 0924-M3, dated March 24, 2011 (as revised) and Title V operating permit number P030-R5, dated October 17, 2024.

This application is being submitted to modify the construction permit as follows:

- Add catalytic convertors to four (4) of the existing Waukesha 7042GL 4SLB engines (Units 1-4) to comply with the ozone rule emission limits;
- Replace one (1) the existing Waukesha 7042GL 4SLB engine (Unit 5) with a Waukesha 7044GSI 4SRB engine (Unit 5). The replacement engine will be equipped with a catalytic convertor to comply with the ozone rule emission limits;
- Add one (1) Waukesha 7044GSI 4SRB engine (Unit 6). The engine will be equipped with a catalytic convertor to comply with the ozone rule emission limits;
- Identify the six (6) reciprocating compressors associated with the engines (Units RC1-RC6);
- Add two (2) 10 MMSCFD dehydrators (Units 11 and 13);
- Modify startup, shutdown, and maintenance emissions (Unit SSM) to include both engine and dehydrator blowdown events;
- Remove malfunction emissions (Unit M1);
- Identify the pneumatic controllers (Units PC1-PC37) at the facility;
- Add five (5) pneumatic pumps (Units PP1-PP5).

There is no de-bottlenecking of impacts associated with the modifications. With the modifications, the facility will no longer be a Title V major source. The facility will remain a PSD area source.

***Process Description***

The 32-9 CDP is a production gathering field compressor station that pressurizes and dehydrates natural gas for transport through natural gas pipelines. The facility is authorized to operate continuously.

***Startup, Shutdown and Maintenance Emissions (SSM)***

Except for facility compressor, piping and dehydrator blowdown events, there are no SSM emissions in excess of those identified for steady-state operation. Discussions justifying this conclusion are provided in Section 6.

# Section 4

## Process Flow Sheet

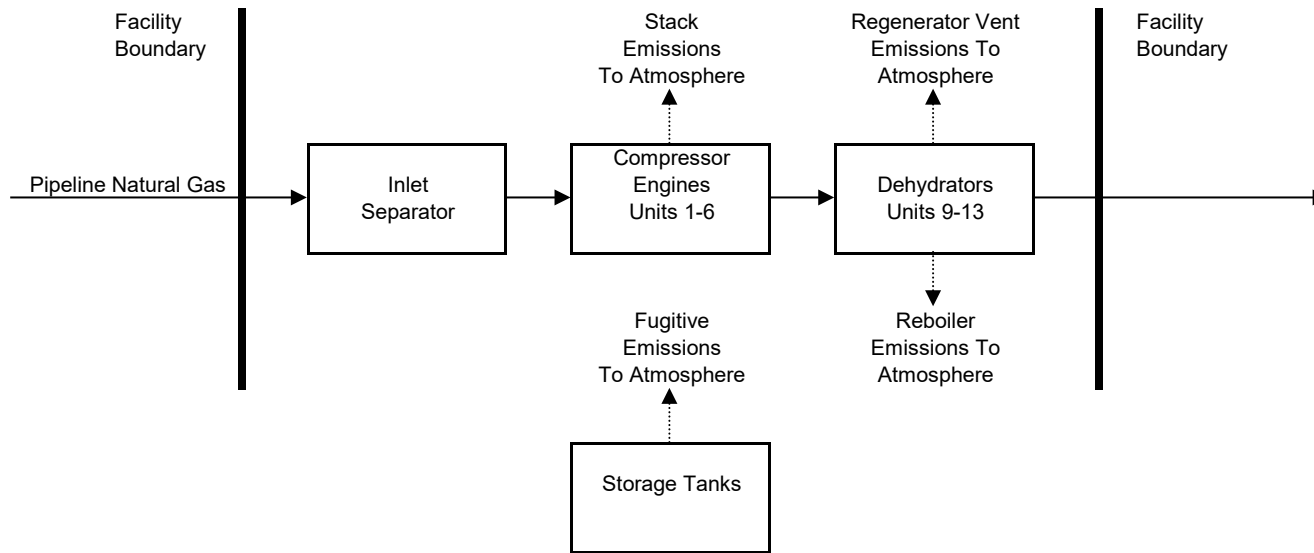
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A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

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A process flow sheet is provided in this section. Please see the following page.

## Flow Diagram



# Section 5

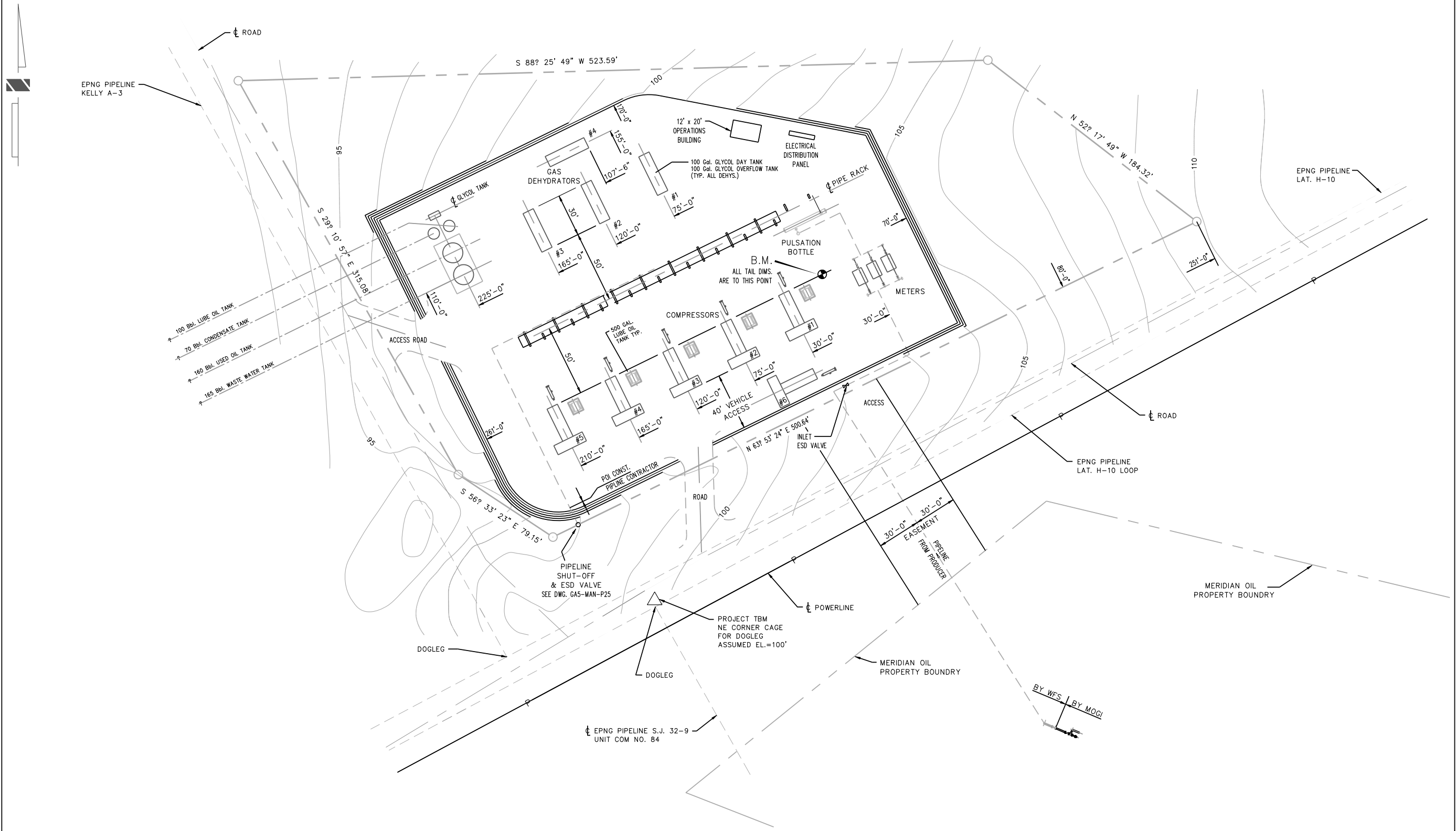
## Plot Plan Drawn to Scale

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

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A plot plan is provided in this section. Please see the following page.



# Section 6

## All Calculations

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**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](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.

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### ***Engines***

The NO<sub>2</sub>, CO, and VOC emissions from the engines were calculated from manufacturer's data. The SO<sub>2</sub> and particulate emissions were calculated using AP-42 emission factors from Table 3.2-2. HAP emissions were calculated using GRI-HAPCalc 3.01. All emissions were calculated assuming each engine operates at full site capacity for 8,760 hours per year. It was also assumed that all engines will be equipped with catalysts to control emissions.

The engines startup with no load and a rich fuel mixture. As a result, emissions are minimized. Because the engines take only minutes to reach operating temperature, emissions during startup are not expected to exceed the steady-state allowable limits. Similarly, emissions during shutdown do not exceed the steady-state allowable limits, because fuel and air flow cease within seconds of shutdown. Emissions due to scheduled maintenance are negligible as the engines are not in operation during maintenance.

### ***SSM Emissions***

SSM blowdown emissions from the compressors, piping and dehydrators associated with the facility occur when high pressure gas is used to purge air from the systems prior to startup. Also, after shutdowns, high pressure gas is released to atmosphere as a safety precaution.

VOC and HAP emissions from blowdowns were calculated from the quantity of gas vented during each event, the composition of the gas, and the number of events. The quantity of gas vented during each event was determined by HFC engineering. The composition of the gas was determined from a recent extended gas analysis. For each unit, the annual number of blowdown events were estimated based on historical operations. A safety factor was incorporated because emissions from each blowdown event are dependent on the composition of the gas in the pipeline and because the number of blowdowns in a year may vary.

### ***Dehydrator Still Vents***

VOC and HAP emissions from the dehydrator still vents were calculated using GRI-GLYCalc 4.0. The emission calculations assume each dehydrator operates at full capacity for 8,760 hours per year. The calculated dehydrator still vent VOC emission rates in this section are lower than those identified on Table 2-E, and demonstrate the dehydrators are in compliance with the currently permitted emission rates.

During startup, the dehydrator reboiler is brought up to temperature before allowing glycol into the absorber. This prevents excess VOC and HAP from collecting in the glycol stream and there are no excess startup emissions above those expected during steady-state operation. During shutdown, the reboiler is shut down in conjunction with the gas flow and glycol circulation. Again, this prevents excess VOC and HAP from collecting in the glycol stream and there are no excess shutdown emissions above those expected during steady-state operation. Emissions due to scheduled maintenance are negligible; either the unit will not be in operation during maintenance or maintenance is limited to tasks for which there are no excess emissions.

The currently permitted VOC emission rates are carried forward and not revised.

### ***Dehydrator Reboilers***

The NO<sub>x</sub> and CO emission factors for the reboiler emission calculations are from an Enertek letter dated August 19, 1994. The VOC and SO<sub>2</sub> emission factors are from an InFab letter dated July 22, 1998. The particulate and lead emissions were calculated using AP-42 emission factors from Table 1.4-2. HAP emissions were calculated using GRI-HAPCalc 3.01. All emissions were calculated assuming each reboiler operates 8,760 hours per year.

The dehydrator reboilers startup with less fuel input than during steady-state operation, so emissions are lower than during steady-state operation. During shutdown, the fuel supply stops quickly, but air flow may not, resulting in the continued formation of NO<sub>x</sub>. Even so, with no natural gas fuel the NO<sub>x</sub> formation should be less than during steady-state operation. Emissions due to scheduled maintenance are negligible as the units are not in operation.

For existing dehydrators, the permitted criteria pollutant emissions are carried forward and not revised.

### ***Equipment Leaks - Fugitive Emissions***

Fugitive VOC and HAP emissions from equipment leaks were calculated using emission factors from Table 2.4 of the 1995 Protocol for Equipment Leak Emission Estimates published by the Environmental Protection Agency (EPA) and the gas stream composition obtained from a recent extended gas analysis. Emissions were calculated assuming the equipment operates 8,760 hours per year.

Due to the nature of the source, it is estimated that SSM emissions from the equipment are accounted for in the calculations.

Based on the calculated potential to emit (PTE), the equipment leaks are exempt sources in accordance with 20.2.72.202.B(5) NMAC (VOC emissions are less than 0.5 tons per year). Note, however, that the equipment leaks are subject to 20.2.50 NMAC and are therefore regulated sources.

### ***Pneumatic Pumps***

VOC and HAP emissions from the pneumatic pumps were calculated from the quantity of gas vented during the year and the composition of the gas. The quantity of gas vented during each event was determined by Harvest engineering. The composition of the gas was determined from a recent extended gas analysis.

### ***Pneumatic Controllers***

VOC and HAP emissions from the pneumatic pumps were calculated from the quantity of gas vented during the year and the composition of the gas. The quantity of gas vented during each event was determined by Harvest engineering. The composition of the gas was determined from a recent extended gas analysis.

Based on the calculated PTE, the pneumatic controllers are exempt sources in accordance with 20.2.72.202.B(5) NMAC (VOC emissions are less than 0.5 tons per year). Note, however, that the pneumatic controllers are subject to 20.2.50 NMAC and are therefore regulated sources.

***Truck Loading - Produced Water***

The VOC emissions from truck loading of produced water were calculated using the AP-42 emissions factor identified in Section 5.2-1. The data used to calculate the emission factor was obtained assuming the liquid was pure water.

Due to the nature of the source, it is estimated that SSM emissions from truck loading are accounted for in the calculations; therefore, there are no SSM emissions associated with truck loading. No SSM maintenance activities are performed during the truck loading.

Based on calculated PTE, produced water truck loading is an exempt source in accordance with 20.2.72.202.B(5) NMAC (VOC emissions are less than 0.5 tons per year).

***Storage Tanks***

The PTE for VOC and HAP from the produced water tanks was calculated using the aggregated maximum facility throughput and emission factors from the Colorado Department of Public Health and Environment (CDPHE) and the Texas Commission on Environmental Quality (TCEQ). As the VOC emission rate from the produced water storage tanks are less than 0.5 tpy, the produced water storage tanks are NSR exempt sources in accordance with 20.2.72.202.B(5) NMAC.

For the remaining tanks, the following assumptions were made:

- Residual oil #6 was used as an estimate for lubrication oil, used lube oil, and solvent. As the vapor pressure of residual oil #6 is less than 0.2 psia, the tanks containing lubrication oil, used lube oil, and solvent are NSR exempt sources under 20.2.72.202.B(2) NMAC;
- The wastewater storage tank liquid composition is assumed to be 99% water and 1% residual oil. As the vapor pressure of residual oil is less than 0.2 psia, the wastewater storage tank is an exempt source under 20.2.72.202.B(2) NMAC;
- As the vapor pressure of triethylene glycol (TEG) is less than 0.2 psia, the TEG storage tanks are each an exempt source under 20.2.72.202.B(2) NMAC; and
- The anti-freeze is an inhibited ethylene glycol (EG) coolant containing 50 percent EG and 50 percent water. As the vapor pressure of EG is less than 0.2 psia, the antifreeze storage tanks are exempt sources under 20.2.72.202.B(2) NMAC.

Due to the nature of operations, startup and shutdown emissions from the storage tanks are assumed to be accounted for in the calculations discussed above. Emissions due to maintenance are negligible as the units are not in operation during maintenance.

## Engine Exhaust Emissions Calculations

Unit Number: **1-4**  
 Description: Waukesha L7042GL  
 Type: Four Stroke Lean Burn (Turbocharged)

Note: The data on this worksheet applies to each individual emissions unit identified above.

### Horsepower Calculations

|                           |                     |                                                                                                             |
|---------------------------|---------------------|-------------------------------------------------------------------------------------------------------------|
| <b>6,228</b> ft above MSL | Elevation           | Mfg. data                                                                                                   |
| <b>1,478</b> hp           | Nameplate hp        | NMAQB Procedure # 02.002-00                                                                                 |
| 1,379 hp                  | NMAQB Site-rated hp | (loss of 3% for every 1,000 ft over 4,000 ft)                                                               |
| 1,338 hp                  | Mfg. Site-rated hp  | Mfg. product bulletin Power Derate,<br>S8154-6, April 2001<br>(loss of 2% for every 1,000 ft over 1,500 ft) |

### Engine Specifications

|                   |                     |                                                                                                |
|-------------------|---------------------|------------------------------------------------------------------------------------------------|
| <b>1200</b> rpm   | Engine rpm          | Mfg. data                                                                                      |
| <b>7040</b> cu in | Engine displacement | Mfg. data                                                                                      |
| 129.30 psi        | BMEP                | Mfg. data $(+[(792,000 \times \text{NMAQB Site-rated hp}) / (\text{rpm} \times \text{in}^3)])$ |

### Fuel Consumption

|                       |                                 |                                             |
|-----------------------|---------------------------------|---------------------------------------------|
| <b>7359</b> Btu/hp-hr | Brake specific fuel consumption | Mfg. data                                   |
| 10.15 MMBtu/hr        | Hourly fuel consumption         | Btu/hp-hr x NMAQB site-rated hp / 1,000,000 |
| <b>900</b> Btu/scf    | Field gas heating value         | Nominal heat content                        |
| 11,277 scf/hr         | Hourly fuel consumption         | MMBtu/hr x 1,000,000 / Btu/scf              |
| <b>8,760</b> hr/yr    | Annual operating time           | Harvest Four Corners, LLC                   |
| 88,910 MMBtu/yr       | Annual fuel consumption         | MMBtu/hr x hr/yr                            |
| 98.79 MMscf/yr        | Annual fuel consumption         | scf/hr x hr/yr / 1,000,000                  |

### Steady-State Emission Rates

| Pollutants | Emission Factors, g/hp-hr | Uncontrolled Emission Rates, |       | Control Efficiencies, % | Controlled Emission Rates, |       |
|------------|---------------------------|------------------------------|-------|-------------------------|----------------------------|-------|
|            |                           | pph                          | tpy   |                         | pph                        | tpy   |
| NOX        | <b>1.50</b>               | 4.56                         | 19.98 | <b>0</b>                | 4.56                       | 19.98 |
| CO         | <b>3.00</b>               | 9.12                         | 39.95 | <b>80.00</b>            | 1.82                       | 7.99  |
| VOC        | <b>1.00</b>               | 3.04                         | 13.32 | <b>30.00</b>            | 2.13                       | 9.32  |

Emission factors taken from Waukesha Bulletin 7005 0102

Uncontrolled Emission Rates (pph) = g/hp-hr x NMAQB Site-rated hp / 453.59 g/lb

Uncontrolled Emission Rates (tpy) = Uncontrolled Emission Rates (pph) x hr/yr / 2,000 lb/ton

Control efficiencies calculated from ozone rule standards

Controlled Emission Rates (pph) = Uncontrolled Emission Rates (pph) x (1 - (% / 100))

Controlled Emission Rates (tpy) = Uncontrolled Emission Rates (tpy) x (1 - (% / 100))

The CO and VOC control efficiencies set to match pph emission rates required by ozone rule

| Pollutants | Emission Factors, lb/MMBtu | Uncontrolled Emission Rates, |          |
|------------|----------------------------|------------------------------|----------|
|            |                            | pph                          | tpy      |
| SO2        | <b>5.88E-04</b>            | 5.97E-03                     | 2.61E-02 |
| PM         | <b>9.99E-03</b>            | 1.01E-01                     | 4.44E-01 |
| PM10       | <b>9.99E-03</b>            | 1.01E-01                     | 4.44E-01 |
| PM2.5      | <b>9.99E-03</b>            | 1.01E-01                     | 4.44E-01 |

Emission factors taken from AP-42, Table 3.2-2

Particulate factors include both filterable and condensable emissions

Uncontrolled Emission Rates (pph) = lb/MMBtu x MMBtu/hr

Uncontrolled Emission Rates (tpy) = Uncontrolled Emission Rates (pph) x hr/yr / 2,000 lb/ton

Engine Exhaust Emissions Calculations

Unit Number: 1-4  
Description: Waukesha L7042GL  
Type: Four Stroke Lean Burn (Turbocharged)

| Exhaust Parameters |                        |                                                 |
|--------------------|------------------------|-------------------------------------------------|
| 803 °F             | Stack exit temperature | Mfg. data (carried forward from previous appl.) |
| 8248 acfm          | Stack flowrate         | Mfg. data (carried forward from previous appl.) |
| 1.02 ft            | Stack exit diameter    | Harvest Four Corners, LLC                       |
| 0.82 ft^2          | Stack exit area        | 3.1416 x ((ft / 2) ^2)                          |
| 167.96 fps         | Stack exit velocity    | acfm / ft^2 / 60 sec/min                        |
| 22.00 ft           | Stack height           | Harvest Four Corners, LLC                       |

Engine Exhaust Emissions Calculations

Unit Number: 5 & 6  
Description: Waukesha L7044GSI  
Type: Four Stroke Rich Burn (Turbocharged)

Note: The data on this worksheet applies to each individual emissions unit identified above.

Horsepower Calculations

|                    |                     |                                                                              |
|--------------------|---------------------|------------------------------------------------------------------------------|
| 6,228 ft above MSL | Elevation           |                                                                              |
| 1,680 hp           | Nameplate hp        | Mfg. data                                                                    |
| 1,568 hp           | NMAQB Site-rated hp | NMAQB Procedure # 02.002-00<br>(loss of 3% for every 1,000 ft over 4,000 ft) |
| 1,456              | Mfg. Site-rated hp  | Mfg. data                                                                    |

Fuel Consumption

|                  |                                 |                                             |
|------------------|---------------------------------|---------------------------------------------|
| 8,031 Btu/hp-hr  | Brake specific fuel consumption | Mfg. data                                   |
| 12.59 MMBtu/hr   | Hourly fuel consumption         | Btu/hp-hr x NMAQB site-rated hp / 1,000,000 |
| 900 Btu/scf      | Field gas heating value         | Nominal heat content                        |
| 13,989 scf/hr    | Hourly fuel consumption         | MMBtu/hr x 1,000,000 / Btu/scf              |
| 8,760 hr/yr      | Annual operating time           | Harvest Four Corners, LLC                   |
| 110,291 MMBtu/yr | Annual fuel consumption         | MMBtu/hr x hr/yr                            |
| 122.55 MMscf/yr  | Annual fuel consumption         | scf/hr x hr/yr / 1,000,000                  |

Steady-State Emission Rates

| Pollutants | Emission Factors, g/hp-hr | Uncontrolled Emission Rates, |        | Control Efficiencies, % | Controlled Emission Rates, |      |
|------------|---------------------------|------------------------------|--------|-------------------------|----------------------------|------|
|            |                           | pph                          | tpy    |                         | pph                        | tpy  |
| NOX        | 12.60                     | 43.55                        | 190.74 | 96.03                   | 1.73                       | 7.57 |
| CO         | 10.90                     | 37.67                        | 165.01 | 94.50                   | 2.07                       | 9.08 |
| VOC        | 0.60                      | 2.07                         | 9.08   | 0                       | 2.07                       | 9.08 |

NOx & CO emission factors taken from Waukesha specification sheet  
VOC emission factor set below ozone rule limit  
Uncontrolled Emission Rates (pph) = g/hp-hr x NMAQB Site-rated hp / 453.59 g/lb  
Uncontrolled Emission Rates (tpy) = Uncontrolled Emission Rates (pph) x hr/yr / 2,000 lb/ton  
Control efficiencies calculated from ozone rule standards  
Controlled Emission Rates (pph) = Uncontrolled Emission Rates (pph) x (1 - (% / 100))  
Controlled Emission Rates (tpy) = Uncontrolled Emission Rates (tpy) x (1 - (% / 100))

NOx and CO control efficiencies set to match pph emission rates required by ozone rule

| Pollutants | Emission Factors, lb/MMBtu | Uncontrolled Emission Rates, |          |
|------------|----------------------------|------------------------------|----------|
|            |                            | pph                          | tpy      |
| SO2        | 5.88E-04                   | 7.40E-03                     | 3.24E-02 |
| PM         | 1.94E-02                   | 2.44E-01                     | 1.07     |
| PM10       | 1.94E-02                   | 2.44E-01                     | 1.07     |
| PM2.5      | 1.94E-02                   | 2.44E-01                     | 1.07     |

Emission factors taken from AP-42, Table 3.2-3  
Particulate factors include both filterable and condensable emissions  
Uncontrolled Emission Rates (pph) = lb/MMBtu x MMBtu/hr  
Uncontrolled Emission Rates (tpy) = Uncontrolled Emission Rates (pph) x hr/yr / 2,000 lb/ton

Engine Exhaust Emissions Calculations

Unit Number: 5 & 6  
Description: Waukesha L7044GSI  
Type: Four Stroke Rich Burn (Turbocharged)

| Exhaust Parameters |                        |                           |
|--------------------|------------------------|---------------------------|
| 1,040 °F           | Stack exit temperature | Mfg. data                 |
| 4,426 acfm         | Stack flowrate         | Mfg. data                 |
| 1.33 ft            | Stack exit diameter    | Harvest Four Corners, LLC |
| 1.39 ft^2          | Stack exit area        | 3.1416 x ((ft / 2) ^2)    |
| 53.10 fps          | Stack exit velocity    | acfm / ft^2 / 60 sec/min  |
| 25.50 ft           | Stack height           | Harvest Four Corners, LLC |

**GRI-HAPCalc® 3.0**  
**Engines Report**

Facility ID: 32-9 CDP  
Operation Type: COMPRESSOR STATION  
Facility Name: 32-9 CENTRAL DELIVERY POINT  
User Name: Harvest Four Corners, LLC  
Units of Measure: U.S. STANDARD

Notes:

Note: Emissions less than 5.00E-09 tons (or tonnes) per year are considered insignificant and are treated as zero.  
These emissions are indicated on the report with a "0".  
Emissions between 5.00E-09 and 5.00E-05 tons (or tonnes) per year are represented on the report with "0.0000".

**Engine Unit**

Unit Name: 7042GL

Hours of Operation: 8,760 Yearly  
Rate Power: 1,379 hp  
Fuel Type: FIELD GAS  
Engine Type: 4-Stroke, Lean Burn  
Emission Factor Set: FIELD > EPA > LITERATURE  
Additional EF Set: -NONE-

**Calculated Emissions (ton/yr)**

| <u>Chemical Name</u> | <u>Emissions</u> | <u>Emission Factor</u> | <u>Emission Factor Set</u> |
|----------------------|------------------|------------------------|----------------------------|
| <b><u>HAPs</u></b>   |                  |                        |                            |
| Formaldehyde         | 2.2391           | 0.16830000 g/bhp-hr    | GRI Literature             |
| Benzene              | 0.0692           | 0.00520000 g/bhp-hr    | GRI Literature             |
| Toluene              | 0.0279           | 0.00210000 g/bhp-hr    | GRI Literature             |
| Xylenes(m,p,o)       | 0.0186           | 0.00140000 g/bhp-hr    | GRI Literature             |
| <b>Total</b>         | 2.3548           |                        |                            |

Unit Name: 7044GSI

Hours of Operation: 8,760 Yearly  
Rate Power: 1,568 hp  
Fuel Type: FIELD GAS  
Engine Type: 4-Stroke, Rich Burn  
Emission Factor Set: FIELD > EPA > LITERATURE  
Additional EF Set: -NONE-

**Calculated Emissions (ton/yr)**

| <u>Chemical Name</u> | <u>Emissions</u> | <u>Emission Factor</u> | <u>Emission Factor Set</u> |
|----------------------|------------------|------------------------|----------------------------|
| <b><u>HAPs</u></b>   |                  |                        |                            |
| Formaldehyde         | 0.6336           | 0.04188340 g/bhp-hr    | GRI Field                  |
| Methanol             | 0.1008           | 0.00666670 g/bhp-hr    | GRI Field                  |
| Benzene              | 0.3343           | 0.02210000 g/bhp-hr    | GRI Field                  |
| Toluene              | 0.1074           | 0.00710000 g/bhp-hr    | GRI Field                  |
| Xylenes(m,p,o)       | 0.0257           | 0.00170000 g/bhp-hr    | GRI Field                  |
| Naphthalene          | 0.0042           | 0.00027540 g/bhp-hr    | GRI Field                  |

|                         |               |                     |           |
|-------------------------|---------------|---------------------|-----------|
| 2-Methylnaphthalene     | 0.0008        | 0.00005050 g/bhp-hr | GRI Field |
| Acenaphthylene          | 0.0003        | 0.00001890 g/bhp-hr | GRI Field |
| Acenaphthene            | 0.0002        | 0.00001090 g/bhp-hr | GRI Field |
| Dibenzofuran            | 0.0001        | 0.00000570 g/bhp-hr | GRI Field |
| Fluorene                | 0.0003        | 0.00001720 g/bhp-hr | GRI Field |
| Anthracene              | 0.0001        | 0.00000400 g/bhp-hr | GRI Field |
| Phenanthrene            | 0.0005        | 0.00003210 g/bhp-hr | GRI Field |
| Fluoranthene            | 0.0002        | 0.00001260 g/bhp-hr | GRI Field |
| Pyrene                  | 0.0001        | 0.00000860 g/bhp-hr | GRI Field |
| Benz(a)anthracene       | 0.0000        | 0.00000180 g/bhp-hr | GRI Field |
| Chrysene                | 0.0000        | 0.00000220 g/bhp-hr | GRI Field |
| Benzo(a)pyrene          | 0.0000        | 0.00000040 g/bhp-hr | GRI Field |
| Benzo(b)fluoranthene    | 0.0000        | 0.00000220 g/bhp-hr | GRI Field |
| Benzo(k)fluoranthene    | 0.0000        | 0.00000220 g/bhp-hr | GRI Field |
| Benzo(g,h,i)perylene    | 0.0000        | 0.00000070 g/bhp-hr | GRI Field |
| Indeno(1,2,3-c,d)pyrene | 0.0000        | 0.00000050 g/bhp-hr | GRI Field |
| Dibenz(a,h)anthracene   | 0.0000        | 0.00000020 g/bhp-hr | GRI Field |
| <b>Total</b>            | <b>1.2086</b> |                     |           |

### Criteria Pollutants

|       |          |                     |           |
|-------|----------|---------------------|-----------|
| CO    | 137.4096 | 9.08349210 g/bhp-hr | GRI Field |
| NMEHC | 3.9932   | 0.26396820 g/bhp-hr | GRI Field |
| NOx   | 113.8571 | 7.52654670 g/bhp-hr | GRI Field |

### Other Pollutants

|           |         |                     |           |
|-----------|---------|---------------------|-----------|
| Methane   | 14.8249 | 0.98000000 g/bhp-hr | GRI Field |
| Ethylene  | 1.9161  | 0.12666670 g/bhp-hr | GRI Field |
| Ethane    | 4.6391  | 0.30666670 g/bhp-hr | GRI Field |
| Propylene | 0.3631  | 0.02400000 g/bhp-hr | GRI Field |
| Propane   | 1.4522  | 0.09600000 g/bhp-hr | GRI Field |

# GRI-GLYCalc VERSION 4.0 - SUMMARY OF INPUT VALUES

Case Name: 32-9 TEG Dehy (10 MMSCFD)

File Name: C:\1 - Cirrus\1 - Projects\1 - Harvest\1 - Permitting\1 - NSR\1 - 32-9\1  
- Application\32-9 - GRI-GLYCalc - 10 MMCFD (2025-10).ddf

Date: October 16, 2025

## DESCRIPTION:

Description: Capacity: 10 MMSCFD  
Unit Numbers: 9, 10, 11 & 13  
Operating Parameters: 2025  
Extended Gas Analysis Sampled 5/16/2025

Annual Hours of Operation: 8760.0 hours/yr

## WET GAS:

Temperature: 93.00 deg. F  
Pressure: 900.10 psig  
Wet Gas Water Content: Saturated

| Component         | Conc.<br>(vol %) |
|-------------------|------------------|
| Carbon Dioxide    | 17.9405          |
| Nitrogen          | 0.0321           |
| Methane           | 80.5991          |
| Ethane            | 1.1098           |
| Propane           | 0.2503           |
| Isobutane         | 0.0322           |
| n-Butane          | 0.0271           |
| Isopentane        | 0.0033           |
| n-Pentane         | 0.0023           |
| Cyclopentane      | 0.0001           |
| n-Hexane          | 0.0004           |
| Cyclohexane       | 0.0002           |
| Other Hexanes     | 0.0011           |
| Heptanes          | 0.0003           |
| Methylcyclohexane | 0.0004           |
| Benzene           | 0.0001           |
| Toluene           | 0.0002           |
| Xylenes           | 0.0001           |
| C8+ Heavies       | 0.0005           |

DRY GAS:

---

Flow Rate: 10.0 MMSCF/day  
Water Content: 7.0 lbs. H2O/MMSCF

LEAN GLYCOL:

---

Glycol Type: TEG  
Water Content: 1.5 wt% H2O  
Flow Rate: 1.5 gpm

PUMP:

---

Glycol Pump Type: Gas Injection  
Gas Injection Pump Volume Ratio: 0.080 acfm gas/gpm glycol

FLASH TANK:

---

Flash Control: Recycle/recompression  
Temperature: 87.0 deg. F  
Pressure: 53.0 psig

# GRI-GLYCalc VERSION 4.0 - AGGREGATE CALCULATIONS REPORT

Case Name: 32-9 TEG Dehy (10 MMSCFD)

File Name: C:\1 - Cirrus\1 - Projects\1 - Harvest\1 - Permitting\1 - NSR\1 - 32-9\1  
- Application\32-9 - GRI-GLYCalc - 10 MMCFD (2025-10).ddf

Date: October 16, 2025

## DESCRIPTION:

Description: Capacity: 10 MMSCFD

Unit Numbers: 9, 10, 11 & 13

Operating Parameters: 2025

Extended Gas Analysis Sampled 5/16/2025

Annual Hours of Operation: 8760.0 hours/yr

## EMISSIONS REPORTS:

### UNCONTROLLED REGENERATOR EMISSIONS

| Component         | lbs/hr | lbs/day | tons/yr |
|-------------------|--------|---------|---------|
| Methane           | 0.1370 | 3.289   | 0.6002  |
| Ethane            | 0.0173 | 0.416   | 0.0759  |
| Propane           | 0.0163 | 0.390   | 0.0712  |
| Isobutane         | 0.0051 | 0.122   | 0.0223  |
| n-Butane          | 0.0065 | 0.157   | 0.0286  |
| Isopentane        | 0.0012 | 0.028   | 0.0051  |
| n-Pentane         | 0.0012 | 0.028   | 0.0051  |
| Cyclopentane      | 0.0004 | 0.008   | 0.0015  |
| n-Hexane          | 0.0006 | 0.013   | 0.0024  |
| Cyclohexane       | 0.0018 | 0.043   | 0.0078  |
| Other Hexanes     | 0.0010 | 0.024   | 0.0045  |
| Heptanes          | 0.0012 | 0.029   | 0.0052  |
| Methylcyclohexane | 0.0049 | 0.118   | 0.0216  |
| Benzene           | 0.0092 | 0.220   | 0.0402  |
| Toluene           | 0.0316 | 0.759   | 0.1385  |
| Xylenes           | 0.0306 | 0.734   | 0.1340  |
| C8+ Heavies       | 0.0139 | 0.335   | 0.0611  |
| Total Emissions   | 0.2798 | 6.714   | 1.2253  |

|                             |        |       |        |
|-----------------------------|--------|-------|--------|
| Total Hydrocarbon Emissions | 0.2798 | 6.714 | 1.2253 |
| Total VOC Emissions         | 0.1254 | 3.009 | 0.5492 |
| Total HAP Emissions         | 0.0719 | 1.727 | 0.3151 |
| Total BTEX Emissions        | 0.0714 | 1.713 | 0.3127 |

#### FLASH GAS EMISSIONS

Note: Flash Gas Emissions are zero with the  
Recycle/recompression control option.

#### FLASH TANK OFF GAS

| Component                   | lbs/hr  | lbs/day | tons/yr |
|-----------------------------|---------|---------|---------|
| Methane                     | 18.5690 | 445.655 | 81.3321 |
| Ethane                      | 0.5825  | 13.980  | 2.5514  |
| Propane                     | 0.2198  | 5.274   | 0.9625  |
| Isobutane                   | 0.0410  | 0.984   | 0.1795  |
| n-Butane                    | 0.0382  | 0.916   | 0.1672  |
| Isopentane                  | 0.0056  | 0.133   | 0.0243  |
| n-Pentane                   | 0.0043  | 0.102   | 0.0187  |
| Cyclopentane                | 0.0003  | 0.008   | 0.0015  |
| n-Hexane                    | 0.0010  | 0.024   | 0.0044  |
| Cyclohexane                 | 0.0008  | 0.020   | 0.0036  |
| Other Hexanes               | 0.0025  | 0.061   | 0.0111  |
| Heptanes                    | 0.0009  | 0.022   | 0.0041  |
| Methylcyclohexane           | 0.0016  | 0.039   | 0.0070  |
| Benzene                     | 0.0005  | 0.011   | 0.0020  |
| Toluene                     | 0.0009  | 0.021   | 0.0039  |
| Xylenes                     | 0.0003  | 0.007   | 0.0013  |
| C8+ Heavies                 | 0.0012  | 0.030   | 0.0055  |
| Total Emissions             | 19.4703 | 467.288 | 85.2801 |
| Total Hydrocarbon Emissions | 19.4703 | 467.288 | 85.2801 |
| Total VOC Emissions         | 0.3188  | 7.652   | 1.3966  |
| Total HAP Emissions         | 0.0026  | 0.063   | 0.0116  |
| Total BTEX Emissions        | 0.0016  | 0.039   | 0.0072  |

COMBINED REGENERATOR VENT/FLASH GAS EMISSIONS

| Component                   | lbs/hr | lbs/day | tons/yr |
|-----------------------------|--------|---------|---------|
| Methane                     | 0.1370 | 3.289   | 0.6002  |
| Ethane                      | 0.0173 | 0.416   | 0.0759  |
| Propane                     | 0.0163 | 0.390   | 0.0712  |
| Isobutane                   | 0.0051 | 0.122   | 0.0223  |
| n-Butane                    | 0.0065 | 0.157   | 0.0286  |
| Isopentane                  | 0.0012 | 0.028   | 0.0051  |
| n-Pentane                   | 0.0012 | 0.028   | 0.0051  |
| Cyclopentane                | 0.0004 | 0.008   | 0.0015  |
| n-Hexane                    | 0.0006 | 0.013   | 0.0024  |
| Cyclohexane                 | 0.0018 | 0.043   | 0.0078  |
| Other Hexanes               | 0.0010 | 0.024   | 0.0045  |
| Heptanes                    | 0.0012 | 0.029   | 0.0052  |
| Methylcyclohexane           | 0.0049 | 0.118   | 0.0216  |
| Benzene                     | 0.0092 | 0.220   | 0.0402  |
| Toluene                     | 0.0316 | 0.759   | 0.1385  |
| Xylenes                     | 0.0306 | 0.734   | 0.1340  |
| C8+ Heavies                 | 0.0139 | 0.335   | 0.0611  |
| Total Emissions             | 0.2798 | 6.714   | 1.2253  |
| Total Hydrocarbon Emissions | 0.2798 | 6.714   | 1.2253  |
| Total VOC Emissions         | 0.1254 | 3.009   | 0.5492  |
| Total HAP Emissions         | 0.0719 | 1.727   | 0.3151  |
| Total BTEX Emissions        | 0.0714 | 1.713   | 0.3127  |

COMBINED REGENERATOR VENT/FLASH GAS EMISSION CONTROL REPORT:

| Component    | Uncontrolled<br>tons/yr | Controlled<br>tons/yr | % Reduction |
|--------------|-------------------------|-----------------------|-------------|
| Methane      | 81.9323                 | 0.6002                | 99.27       |
| Ethane       | 2.6274                  | 0.0759                | 97.11       |
| Propane      | 1.0338                  | 0.0712                | 93.11       |
| Isobutane    | 0.2019                  | 0.0223                | 88.95       |
| n-Butane     | 0.1957                  | 0.0286                | 85.39       |
| Isopentane   | 0.0294                  | 0.0051                | 82.68       |
| n-Pentane    | 0.0238                  | 0.0051                | 78.48       |
| Cyclopentane | 0.0030                  | 0.0015                | 48.52       |

|                             |         |        |       |
|-----------------------------|---------|--------|-------|
| n-Hexane                    | 0.0068  | 0.0024 | 64.32 |
| Cyclohexane                 | 0.0114  | 0.0078 | 31.42 |
| Other Hexanes               | 0.0156  | 0.0045 | 71.39 |
| Heptanes                    | 0.0093  | 0.0052 | 43.96 |
| Methylcyclohexane           | 0.0286  | 0.0216 | 24.53 |
| Benzene                     | 0.0422  | 0.0402 | 4.69  |
| Toluene                     | 0.1424  | 0.1385 | 2.75  |
| Xylenes                     | 0.1353  | 0.1340 | 0.97  |
| C8+ Heavies                 | 0.0665  | 0.0611 | 8.21  |
| -----                       |         |        |       |
| Total Emissions             | 86.5054 | 1.2253 | 98.58 |
| -----                       |         |        |       |
| Total Hydrocarbon Emissions | 86.5054 | 1.2253 | 98.58 |
| Total VOC Emissions         | 1.9457  | 0.5492 | 71.77 |
| Total HAP Emissions         | 0.3267  | 0.3151 | 3.55  |
| Total BTEX Emissions        | 0.3199  | 0.3127 | 2.25  |

#### EQUIPMENT REPORTS:

#### ABSORBER

NOTE: Because the Calculated Absorber Stages was below the minimum allowed, GRI-GLYCalc has set the number of Absorber Stages to 1.25 and has calculated a revised Dry Gas Dew Point.

Calculated Absorber Stages: 1.25  
 Calculated Dry Gas Dew Point: 3.10 lbs. H2O/MMSCF

Temperature: 93.0 deg. F  
 Pressure: 900.1 psig  
 Dry Gas Flow Rate: 10.0000 MMSCF/day  
 Glycol Losses with Dry Gas: 0.1047 lb/hr  
 Wet Gas Water Content: Saturated  
 Calculated Wet Gas Water Content: 53.42 lbs. H2O/MMSCF  
 Calculated Lean Glycol Recirc. Ratio: 4.29 gal/lb H2O

| Component | Remaining<br>in Dry Gas | Absorbed<br>in Glycol |
|-----------|-------------------------|-----------------------|
| -----     |                         |                       |
| Water     | 5.79%                   | 94.21%                |

|                   |        |        |
|-------------------|--------|--------|
| Carbon Dioxide    | 99.80% | 0.20%  |
| Nitrogen          | 99.98% | 0.02%  |
| Methane           | 99.99% | 0.01%  |
| Ethane            | 99.95% | 0.05%  |
| Propane           | 99.92% | 0.08%  |
| Isobutane         | 99.89% | 0.11%  |
| n-Butane          | 99.86% | 0.14%  |
| Isopentane        | 99.86% | 0.14%  |
| n-Pentane         | 99.82% | 0.18%  |
| Cyclopentane      | 99.22% | 0.78%  |
| n-Hexane          | 99.71% | 0.29%  |
| Cyclohexane       | 98.71% | 1.29%  |
| Other Hexanes     | 99.78% | 0.22%  |
| Heptanes          | 99.47% | 0.53%  |
| Methylcyclohexane | 98.60% | 1.40%  |
| Benzene           | 88.88% | 11.12% |
| Toluene           | 84.06% | 15.94% |
| Xylenes           | 73.64% | 26.36% |
| C8+ Heavies       | 98.49% | 1.51%  |

#### FLASH TANK

Flash Control: Recycle/recompression  
Flash Temperature: 87.0 deg. F  
Flash Pressure: 53.0 psig

| Component      | Left in<br>Glycol | Removed in<br>Flash Gas |
|----------------|-------------------|-------------------------|
| Water          | 99.92%            | 0.08%                   |
| Carbon Dioxide | 10.86%            | 89.14%                  |
| Nitrogen       | 0.70%             | 99.30%                  |
| Methane        | 0.73%             | 99.27%                  |
| Ethane         | 2.89%             | 97.11%                  |
| Propane        | 6.89%             | 93.11%                  |
| Isobutane      | 11.05%            | 88.95%                  |
| n-Butane       | 14.61%            | 85.39%                  |
| Isopentane     | 17.55%            | 82.45%                  |
| n-Pentane      | 21.75%            | 78.25%                  |
| Cyclopentane   | 51.69%            | 48.31%                  |
| n-Hexane       | 35.91%            | 64.09%                  |
| Cyclohexane    | 69.50%            | 30.50%                  |

|                   |        |        |
|-------------------|--------|--------|
| Other Hexanes     | 29.08% | 70.92% |
| Heptanes          | 56.22% | 43.78% |
| Methylcyclohexane | 76.38% | 23.62% |
| Benzene           | 95.54% | 4.46%  |
| Toluene           | 97.46% | 2.54%  |
| Xylenes           | 99.16% | 0.84%  |
| C8+ Heavies       | 92.71% | 7.29%  |

#### REGENERATOR

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No Stripping Gas used in regenerator.

| Component         | Remaining<br>in Glycol | Distilled<br>Overhead |
|-------------------|------------------------|-----------------------|
| Water             | 37.62%                 | 62.38%                |
| Carbon Dioxide    | 0.00%                  | 100.00%               |
| Nitrogen          | 0.00%                  | 100.00%               |
| Methane           | 0.00%                  | 100.00%               |
| Ethane            | 0.00%                  | 100.00%               |
| Propane           | 0.00%                  | 100.00%               |
| Isobutane         | 0.00%                  | 100.00%               |
| n-Butane          | 0.00%                  | 100.00%               |
| Isopentane        | 1.55%                  | 98.45%                |
| n-Pentane         | 1.40%                  | 98.60%                |
| Cyclopentane      | 0.84%                  | 99.16%                |
| n-Hexane          | 1.00%                  | 99.00%                |
| Cyclohexane       | 4.23%                  | 95.77%                |
| Other Hexanes     | 2.27%                  | 97.73%                |
| Heptanes          | 0.73%                  | 99.27%                |
| Methylcyclohexane | 4.85%                  | 95.15%                |
| Benzene           | 5.18%                  | 94.82%                |
| Toluene           | 8.05%                  | 91.95%                |
| Xylenes           | 12.96%                 | 87.04%                |
| C8+ Heavies       | 12.11%                 | 87.89%                |

#### STREAM REPORTS:

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## WET GAS STREAM

Temperature: 93.00 deg. F  
Pressure: 914.80 psia  
Flow Rate: 4.17e+005 scfh

| Component         | Conc.<br>(vol%) | Loading<br>(lb/hr) |
|-------------------|-----------------|--------------------|
| Water             | 1.13e-001       | 2.23e+001          |
| Carbon Dioxide    | 1.79e+001       | 8.67e+003          |
| Nitrogen          | 3.21e-002       | 9.88e+000          |
| Methane           | 8.05e+001       | 1.42e+004          |
| Ethane            | 1.11e+000       | 3.67e+002          |
| Propane           | 2.50e-001       | 1.21e+002          |
| Isobutane         | 3.22e-002       | 2.06e+001          |
| n-Butane          | 2.71e-002       | 1.73e+001          |
| Isopentane        | 3.30e-003       | 2.62e+000          |
| n-Pentane         | 2.30e-003       | 1.82e+000          |
| Cyclopentane      | 9.99e-005       | 7.70e-002          |
| n-Hexane          | 4.00e-004       | 3.79e-001          |
| Cyclohexane       | 2.00e-004       | 1.85e-001          |
| Other Hexanes     | 1.10e-003       | 1.04e+000          |
| Heptanes          | 3.00e-004       | 3.30e-001          |
| Methylcyclohexane | 4.00e-004       | 4.32e-001          |
| Benzene           | 9.99e-005       | 8.58e-002          |
| Toluene           | 2.00e-004       | 2.02e-001          |
| Xylenes           | 9.99e-005       | 1.17e-001          |
| C8+ Heavies       | 4.99e-004       | 9.36e-001          |
| Total Components  | 100.00          | 2.34e+004          |

## DRY GAS STREAM

Temperature: 93.00 deg. F  
Pressure: 914.80 psia  
Flow Rate: 4.17e+005 scfh

| Component      | Conc.<br>(vol%) | Loading<br>(lb/hr) |
|----------------|-----------------|--------------------|
| Water          | 6.53e-003       | 1.29e+000          |
| Carbon Dioxide | 1.79e+001       | 8.66e+003          |
| Nitrogen       | 3.21e-002       | 9.88e+000          |

|                   |           |           |
|-------------------|-----------|-----------|
| Methane           | 8.06e+001 | 1.42e+004 |
| Ethane            | 1.11e+000 | 3.66e+002 |
| Propane           | 2.50e-001 | 1.21e+002 |
| Isobutane         | 3.22e-002 | 2.05e+001 |
| n-Butane          | 2.71e-002 | 1.73e+001 |
| Isopentane        | 3.30e-003 | 2.61e+000 |
| n-Pentane         | 2.30e-003 | 1.82e+000 |
| Cyclopentane      | 9.93e-005 | 7.65e-002 |
| n-Hexane          | 3.99e-004 | 3.78e-001 |
| Cyclohexane       | 1.98e-004 | 1.83e-001 |
| Other Hexanes     | 1.10e-003 | 1.04e+000 |
| Heptanes          | 2.99e-004 | 3.29e-001 |
| Methylcyclohexane | 3.95e-004 | 4.25e-001 |
| Benzene           | 8.89e-005 | 7.63e-002 |
| Toluene           | 1.68e-004 | 1.70e-001 |
| Xylenes           | 7.37e-005 | 8.59e-002 |
| C8+ Heavies       | 4.93e-004 | 9.22e-001 |
| -----             |           |           |
| Total Components  | 100.00    | 2.34e+004 |

#### LEAN GLYCOL STREAM

Temperature: 93.00 deg. F  
Flow Rate: 1.50e+000 gpm

| Component      | Conc.<br>(wt%) | Loading<br>(lb/hr) |
|----------------|----------------|--------------------|
| -----          |                |                    |
| TEG            | 9.85e+001      | 8.32e+002          |
| Water          | 1.50e+000      | 1.27e+001          |
| Carbon Dioxide | 2.05e-010      | 1.73e-009          |
| Nitrogen       | 1.89e-014      | 1.60e-013          |
| Methane        | 8.22e-018      | 6.94e-017          |
| Ethane         | 9.52e-009      | 8.04e-008          |
| Propane        | 4.53e-010      | 3.82e-009          |
| Isobutane      | 7.81e-011      | 6.60e-010          |
| n-Butane       | 7.17e-011      | 6.06e-010          |
| Isopentane     | 2.17e-006      | 1.84e-005          |
| n-Pentane      | 1.96e-006      | 1.66e-005          |
| Cyclopentane   | 3.55e-007      | 3.00e-006          |
| n-Hexane       | 6.61e-007      | 5.58e-006          |
| Cyclohexane    | 9.33e-006      | 7.88e-005          |
| Other Hexanes  | 2.79e-006      | 2.36e-005          |

|                   |           |           |
|-------------------|-----------|-----------|
| Heptanes          | 1.04e-006 | 8.76e-006 |
| Methylcyclohexane | 2.98e-005 | 2.51e-004 |
| Benzene           | 5.94e-005 | 5.02e-004 |
| Toluene           | 3.28e-004 | 2.77e-003 |
| Xylenes           | 5.39e-004 | 4.55e-003 |

|             |           |           |
|-------------|-----------|-----------|
| C8+ Heavies | 2.27e-004 | 1.92e-003 |
|-------------|-----------|-----------|

|                  |        |           |
|------------------|--------|-----------|
| Total Components | 100.00 | 8.45e+002 |
|------------------|--------|-----------|

# RICH GLYCOL AND PUMP GAS STREAM

Temperature: 93.00 deg. F

Pressure: 914.80 psia

Flow Rate: 1.65e+000 gpm

NOTE: Stream has more than one phase.

| Component         | Conc.<br>(wt%) | Loading<br>(lb/hr) |
|-------------------|----------------|--------------------|
| TEG               | 9.11e+001      | 8.32e+002          |
| Water             | 3.69e+000      | 3.37e+001          |
| Carbon Dioxide    | 3.01e+000      | 2.75e+001          |
| Nitrogen          | 1.44e-003      | 1.32e-002          |
| Methane           | 2.05e+000      | 1.87e+001          |
| Ethane            | 6.57e-002      | 6.00e-001          |
| Propane           | 2.59e-002      | 2.36e-001          |
| Isobutane         | 5.05e-003      | 4.61e-002          |
| n-Butane          | 4.90e-003      | 4.47e-002          |
| Isopentane        | 7.38e-004      | 6.74e-003          |
| n-Pentane         | 5.97e-004      | 5.45e-003          |
| Cyclopentane      | 7.57e-005      | 6.90e-004          |
| n-Hexane          | 1.71e-004      | 1.56e-003          |
| Cyclohexane       | 2.94e-004      | 2.68e-003          |
| Other Hexanes     | 3.92e-004      | 3.58e-003          |
| Heptanes          | 2.34e-004      | 2.14e-003          |
| Methylcyclohexane | 7.44e-004      | 6.79e-003          |
| Benzene           | 1.11e-003      | 1.01e-002          |
| Toluene           | 3.87e-003      | 3.53e-002          |
| Xylenes           | 3.88e-003      | 3.54e-002          |

|             |           |           |
|-------------|-----------|-----------|
| C8+ Heavies | 1.87e-003 | 1.71e-002 |
|-------------|-----------|-----------|

|                  |        |           |
|------------------|--------|-----------|
| Total Components | 100.00 | 9.13e+002 |
|------------------|--------|-----------|

# FLASH TANK OFF GAS STREAM

Temperature: 87.00 deg. F  
 Pressure: 67.70 psia  
 Flow Rate: 6.61e+002 scfh

| Component         | Conc.<br>(vol%) | Loading<br>(lb/hr) |
|-------------------|-----------------|--------------------|
| Water             | 8.29e-002       | 2.60e-002          |
| Carbon Dioxide    | 3.19e+001       | 2.45e+001          |
| Nitrogen          | 2.68e-002       | 1.31e-002          |
| Methane           | 6.65e+001       | 1.86e+001          |
| Ethane            | 1.11e+000       | 5.83e-001          |
| Propane           | 2.86e-001       | 2.20e-001          |
| Isobutane         | 4.05e-002       | 4.10e-002          |
| n-Butane          | 3.77e-002       | 3.82e-002          |
| Isopentane        | 4.42e-003       | 5.55e-003          |
| n-Pentane         | 3.39e-003       | 4.26e-003          |
| Cyclopentane      | 2.73e-004       | 3.34e-004          |
| n-Hexane          | 6.66e-004       | 1.00e-003          |
| Cyclohexane       | 5.57e-004       | 8.17e-004          |
| Other Hexanes     | 1.69e-003       | 2.54e-003          |
| Heptanes          | 5.36e-004       | 9.36e-004          |
| Methylcyclohexane | 9.38e-004       | 1.60e-003          |
| Benzene           | 3.32e-004       | 4.52e-004          |
| Toluene           | 5.57e-004       | 8.95e-004          |
| Xylenes           | 1.61e-004       | 2.98e-004          |
| C8+ Heavies       | 4.20e-004       | 1.25e-003          |
| Total Components  | 100.00          | 4.40e+001          |

# FLASH TANK GLYCOL STREAM

Temperature: 87.00 deg. F  
 Flow Rate: 1.55e+000 gpm

| Component | Conc.<br>(wt%) | Loading<br>(lb/hr) |
|-----------|----------------|--------------------|
| TEG       | 9.57e+001      | 8.32e+002          |
| Water     | 3.88e+000      | 3.37e+001          |

|                   |           |           |
|-------------------|-----------|-----------|
| Carbon Dioxide    | 3.43e-001 | 2.98e+000 |
| Nitrogen          | 1.06e-005 | 9.20e-005 |
| Methane           | 1.58e-002 | 1.37e-001 |
| Ethane            | 2.00e-003 | 1.73e-002 |
| Propane           | 1.87e-003 | 1.63e-002 |
| Isobutane         | 5.86e-004 | 5.09e-003 |
| n-Butane          | 7.51e-004 | 6.53e-003 |
| Isopentane        | 1.36e-004 | 1.18e-003 |
| n-Pentane         | 1.36e-004 | 1.18e-003 |
| Cyclopentane      | 4.11e-005 | 3.57e-004 |
| n-Hexane          | 6.45e-005 | 5.60e-004 |
| Cyclohexane       | 2.14e-004 | 1.86e-003 |
| Other Hexanes     | 1.20e-004 | 1.04e-003 |
| Heptanes          | 1.38e-004 | 1.20e-003 |
| Methylcyclohexane | 5.97e-004 | 5.19e-003 |
| Benzene           | 1.12e-003 | 9.69e-003 |
| Toluene           | 3.96e-003 | 3.44e-002 |
| Xylenes           | 4.05e-003 | 3.51e-002 |
| C8+ Heavies       | 1.83e-003 | 1.59e-002 |
| -----             |           |           |
| Total Components  | 100.00    | 8.69e+002 |

#### FLASH GAS EMISSIONS

Control Method: Recycle/recompression  
Control Efficiency: 100.00

Note: Flash Gas Emissions are zero with the  
Recycle/recompression control option.

#### REGENERATOR OVERHEADS STREAM

Temperature: 212.00 deg. F  
Pressure: 14.70 psia  
Flow Rate: 4.72e+002 scfh

| Component      | Conc.<br>(vol%) | Loading<br>(lb/hr) |
|----------------|-----------------|--------------------|
| -----          |                 |                    |
| Water          | 9.37e+001       | 2.10e+001          |
| Carbon Dioxide | 5.44e+000       | 2.98e+000          |
| Nitrogen       | 2.64e-004       | 9.20e-005          |

|                   |           |           |
|-------------------|-----------|-----------|
| Methane           | 6.86e-001 | 1.37e-001 |
| Ethane            | 4.63e-002 | 1.73e-002 |
| Propane           | 2.96e-002 | 1.63e-002 |
| Isobutane         | 7.04e-003 | 5.09e-003 |
| n-Butane          | 9.02e-003 | 6.53e-003 |
| Isopentane        | 1.30e-003 | 1.16e-003 |
| n-Pentane         | 1.30e-003 | 1.17e-003 |
| Cyclopentane      | 4.05e-004 | 3.54e-004 |
| n-Hexane          | 5.17e-004 | 5.55e-004 |
| Cyclohexane       | 1.70e-003 | 1.78e-003 |
| Other Hexanes     | 9.48e-004 | 1.02e-003 |
| Heptanes          | 9.57e-004 | 1.19e-003 |
| Methylcyclohexane | 4.04e-003 | 4.94e-003 |
| Benzene           | 9.45e-003 | 9.19e-003 |
| Toluene           | 2.76e-002 | 3.16e-002 |
| Xylenes           | 2.31e-002 | 3.06e-002 |
| C8+ Heavies       | 6.58e-003 | 1.39e-002 |
| -----             |           |           |
| Total Components  | 100.00    | 2.43e+001 |

# GRI-GLYCalc VERSION 4.0 - SUMMARY OF INPUT VALUES

Case Name: 32-9 TEG Dehy (10 MMSCFD)

File Name: C:\1 - Cirrus\1 - Projects\1 - Harvest\1 - Permitting\1 - NSR\1 - 32-9\1  
- Application\32-9 - GRI-GLYCalc - 12 MMCFD (2025-10).ddf

Date: October 16, 2025

## DESCRIPTION:

-----  
Description: Capacity: 12 MMSCFD  
Unit Number: 12  
Operating Parameters: 2025  
Extended Gas Analysis Sampled 5/16/2025

Annual Hours of Operation: 8760.0 hours/yr

## WET GAS:

-----  
Temperature: 93.00 deg. F  
Pressure: 900.10 psig  
Wet Gas Water Content: Saturated

| Component         | Conc.<br>(vol %) |
|-------------------|------------------|
| -----             | -----            |
| Carbon Dioxide    | 17.9405          |
| Nitrogen          | 0.0321           |
| Methane           | 80.5991          |
| Ethane            | 1.1098           |
| Propane           | 0.2503           |
| Isobutane         | 0.0322           |
| n-Butane          | 0.0271           |
| Isopentane        | 0.0033           |
| n-Pentane         | 0.0023           |
| Cyclopentane      | 0.0001           |
| n-Hexane          | 0.0004           |
| Cyclohexane       | 0.0002           |
| Other Hexanes     | 0.0011           |
| Heptanes          | 0.0003           |
| Methylcyclohexane | 0.0004           |
| Benzene           | 0.0001           |
| Toluene           | 0.0002           |
| Xylenes           | 0.0001           |
| C8+ Heavies       | 0.0005           |

DRY GAS:

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Flow Rate: 12.0 MMSCF/day  
Water Content: 7.0 lbs. H2O/MMSCF

LEAN GLYCOL:

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Glycol Type: TEG  
Water Content: 1.5 wt% H2O  
Flow Rate: 1.5 gpm

PUMP:

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Glycol Pump Type: Gas Injection  
Gas Injection Pump Volume Ratio: 0.080 acfm gas/gpm glycol

FLASH TANK:

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Flash Control: Recycle/recompression  
Temperature: 87.0 deg. F  
Pressure: 53.0 psig

# GRI-GLYCalc VERSION 4.0 - AGGREGATE CALCULATIONS REPORT

Case Name: 32-9 TEG Dehy (10 MMSCFD)

File Name: C:\1 - Cirrus\1 - Projects\1 - Harvest\1 - Permitting\1 - NSR\1 - 32-9\1  
- Application\32-9 - GRI-GLYCalc - 12 MMCFD (2025-10).ddf

Date: October 16, 2025

## DESCRIPTION:

Description: Capacity: 12 MMSCFD

Unit Number: 12

Operating Parameters: 2025

Extended Gas Analysis Sampled 5/16/2025

Annual Hours of Operation: 8760.0 hours/yr

## EMISSIONS REPORTS:

### UNCONTROLLED REGENERATOR EMISSIONS

| Component         | lbs/hr | lbs/day | tons/yr |
|-------------------|--------|---------|---------|
| Methane           | 0.1360 | 3.265   | 0.5959  |
| Ethane            | 0.0170 | 0.407   | 0.0743  |
| Propane           | 0.0162 | 0.388   | 0.0709  |
| Isobutane         | 0.0050 | 0.121   | 0.0221  |
| n-Butane          | 0.0065 | 0.155   | 0.0283  |
| Isopentane        | 0.0011 | 0.028   | 0.0050  |
| n-Pentane         | 0.0012 | 0.028   | 0.0051  |
| Cyclopentane      | 0.0003 | 0.008   | 0.0015  |
| n-Hexane          | 0.0005 | 0.013   | 0.0024  |
| Cyclohexane       | 0.0017 | 0.042   | 0.0076  |
| Other Hexanes     | 0.0010 | 0.024   | 0.0044  |
| Heptanes          | 0.0012 | 0.028   | 0.0051  |
| Methylcyclohexane | 0.0048 | 0.116   | 0.0212  |
| Benzene           | 0.0092 | 0.222   | 0.0405  |
| Toluene           | 0.0320 | 0.768   | 0.1401  |
| Xylenes           | 0.0315 | 0.756   | 0.1380  |
| C8+ Heavies       | 0.0137 | 0.329   | 0.0600  |
| Total Emissions   | 0.2791 | 6.698   | 1.2225  |

|                             |        |       |        |
|-----------------------------|--------|-------|--------|
| Total Hydrocarbon Emissions | 0.2791 | 6.698 | 1.2225 |
| Total VOC Emissions         | 0.1261 | 3.026 | 0.5522 |
| Total HAP Emissions         | 0.0733 | 1.759 | 0.3211 |
| Total BTEX Emissions        | 0.0728 | 1.746 | 0.3187 |

#### FLASH GAS EMISSIONS

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Note: Flash Gas Emissions are zero with the  
Recycle/recompression control option.

#### FLASH TANK OFF GAS

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| Component                   | lbs/hr  | lbs/day | tons/yr |
|-----------------------------|---------|---------|---------|
| Methane                     | 18.6333 | 447.200 | 81.6140 |
| Ethane                      | 0.5830  | 13.993  | 2.5537  |
| Propane                     | 0.2202  | 5.285   | 0.9645  |
| Isobutane                   | 0.0410  | 0.985   | 0.1798  |
| n-Butane                    | 0.0382  | 0.917   | 0.1673  |
| Isopentane                  | 0.0056  | 0.133   | 0.0244  |
| n-Pentane                   | 0.0043  | 0.102   | 0.0187  |
| Cyclopentane                | 0.0003  | 0.008   | 0.0015  |
| n-Hexane                    | 0.0010  | 0.024   | 0.0044  |
| Cyclohexane                 | 0.0008  | 0.020   | 0.0036  |
| Other Hexanes               | 0.0025  | 0.061   | 0.0111  |
| Heptanes                    | 0.0009  | 0.023   | 0.0041  |
| Methylcyclohexane           | 0.0016  | 0.039   | 0.0071  |
| Benzene                     | 0.0005  | 0.011   | 0.0020  |
| Toluene                     | 0.0009  | 0.022   | 0.0040  |
| Xylenes                     | 0.0003  | 0.008   | 0.0014  |
| C8+ Heavies                 | 0.0013  | 0.031   | 0.0056  |
| Total Emissions             | 19.5359 | 468.861 | 85.5672 |
| Total Hydrocarbon Emissions | 19.5359 | 468.861 | 85.5672 |
| Total VOC Emissions         | 0.3195  | 7.668   | 1.3994  |
| Total HAP Emissions         | 0.0027  | 0.065   | 0.0118  |
| Total BTEX Emissions        | 0.0017  | 0.041   | 0.0074  |

COMBINED REGENERATOR VENT/FLASH GAS EMISSIONS

| Component                   | lbs/hr | lbs/day | tons/yr |
|-----------------------------|--------|---------|---------|
| Methane                     | 0.1360 | 3.265   | 0.5959  |
| Ethane                      | 0.0170 | 0.407   | 0.0743  |
| Propane                     | 0.0162 | 0.388   | 0.0709  |
| Isobutane                   | 0.0050 | 0.121   | 0.0221  |
| n-Butane                    | 0.0065 | 0.155   | 0.0283  |
| Isopentane                  | 0.0011 | 0.028   | 0.0050  |
| n-Pentane                   | 0.0012 | 0.028   | 0.0051  |
| Cyclopentane                | 0.0003 | 0.008   | 0.0015  |
| n-Hexane                    | 0.0005 | 0.013   | 0.0024  |
| Cyclohexane                 | 0.0017 | 0.042   | 0.0076  |
| Other Hexanes               | 0.0010 | 0.024   | 0.0044  |
| Heptanes                    | 0.0012 | 0.028   | 0.0051  |
| Methylcyclohexane           | 0.0048 | 0.116   | 0.0212  |
| Benzene                     | 0.0092 | 0.222   | 0.0405  |
| Toluene                     | 0.0320 | 0.768   | 0.1401  |
| Xylenes                     | 0.0315 | 0.756   | 0.1380  |
| C8+ Heavies                 | 0.0137 | 0.329   | 0.0600  |
| Total Emissions             | 0.2791 | 6.698   | 1.2225  |
| Total Hydrocarbon Emissions | 0.2791 | 6.698   | 1.2225  |
| Total VOC Emissions         | 0.1261 | 3.026   | 0.5522  |
| Total HAP Emissions         | 0.0733 | 1.759   | 0.3211  |
| Total BTEX Emissions        | 0.0728 | 1.746   | 0.3187  |

COMBINED REGENERATOR VENT/FLASH GAS EMISSION CONTROL REPORT:

| Component    | Uncontrolled<br>tons/yr | Controlled<br>tons/yr | % Reduction |
|--------------|-------------------------|-----------------------|-------------|
| Methane      | 82.2099                 | 0.5959                | 99.28       |
| Ethane       | 2.6281                  | 0.0743                | 97.17       |
| Propane      | 1.0353                  | 0.0709                | 93.16       |
| Isobutane    | 0.2019                  | 0.0221                | 89.05       |
| n-Butane     | 0.1956                  | 0.0283                | 85.53       |
| Isopentane   | 0.0294                  | 0.0050                | 82.87       |
| n-Pentane    | 0.0237                  | 0.0051                | 78.72       |
| Cyclopentane | 0.0030                  | 0.0015                | 49.27       |

|                             |         |        |       |
|-----------------------------|---------|--------|-------|
| n-Hexane                    | 0.0068  | 0.0024 | 64.75 |
| Cyclohexane                 | 0.0113  | 0.0076 | 32.12 |
| Other Hexanes               | 0.0155  | 0.0044 | 71.76 |
| Heptanes                    | 0.0092  | 0.0051 | 44.57 |
| Methylcyclohexane           | 0.0283  | 0.0212 | 25.15 |
| Benzene                     | 0.0425  | 0.0405 | 4.75  |
| Toluene                     | 0.1442  | 0.1401 | 2.80  |
| Xylenes                     | 0.1394  | 0.1380 | 0.98  |
| C8+ Heavies                 | 0.0656  | 0.0600 | 8.52  |
| -----                       |         |        |       |
| Total Emissions             | 86.7896 | 1.2225 | 98.59 |
| -----                       |         |        |       |
| Total Hydrocarbon Emissions | 86.7896 | 1.2225 | 98.59 |
| Total VOC Emissions         | 1.9517  | 0.5522 | 71.70 |
| Total HAP Emissions         | 0.3329  | 0.3211 | 3.55  |
| Total BTEX Emissions        | 0.3261  | 0.3187 | 2.28  |

#### EQUIPMENT REPORTS:

#### ABSORBER

NOTE: Because the Calculated Absorber Stages was below the minimum allowed, GRI-GLYCalc has set the number of Absorber Stages to 1.25 and has calculated a revised Dry Gas Dew Point.

Calculated Absorber Stages: 1.25  
 Calculated Dry Gas Dew Point: 3.43 lbs. H2O/MMSCF

Temperature: 93.0 deg. F  
 Pressure: 900.1 psig  
 Dry Gas Flow Rate: 12.0000 MMSCF/day  
 Glycol Losses with Dry Gas: 0.1257 lb/hr  
 Wet Gas Water Content: Saturated  
 Calculated Wet Gas Water Content: 53.42 lbs. H2O/MMSCF  
 Calculated Lean Glycol Recirc. Ratio: 3.60 gal/lb H2O

| Component | Remaining<br>in Dry Gas | Absorbed<br>in Glycol |
|-----------|-------------------------|-----------------------|
| -----     |                         |                       |
| Water     | 6.42%                   | 93.58%                |

|                   |        |        |
|-------------------|--------|--------|
| Carbon Dioxide    | 99.83% | 0.17%  |
| Nitrogen          | 99.99% | 0.01%  |
| Methane           | 99.99% | 0.01%  |
| Ethane            | 99.96% | 0.04%  |
| Propane           | 99.94% | 0.06%  |
| Isobutane         | 99.91% | 0.09%  |
| n-Butane          | 99.88% | 0.12%  |
| Isopentane        | 99.88% | 0.12%  |
| n-Pentane         | 99.85% | 0.15%  |
| Cyclopentane      | 99.36% | 0.64%  |
| n-Hexane          | 99.76% | 0.24%  |
| Cyclohexane       | 98.94% | 1.06%  |
| Other Hexanes     | 99.81% | 0.19%  |
| Heptanes          | 99.57% | 0.43%  |
| Methylcyclohexane | 98.85% | 1.15%  |
| Benzene           | 90.67% | 9.33%  |
| Toluene           | 86.55% | 13.45% |
| Xylenes           | 77.36% | 22.64% |
| C8+ Heavies       | 98.76% | 1.24%  |

#### FLASH TANK

Flash Control: Recycle/recompression  
Flash Temperature: 87.0 deg. F  
Flash Pressure: 53.0 psig

| Component      | Left in Glycol | Removed in Flash Gas |
|----------------|----------------|----------------------|
| Water          | 99.92%         | 0.08%                |
| Carbon Dioxide | 10.78%         | 89.22%               |
| Nitrogen       | 0.69%          | 99.31%               |
| Methane        | 0.72%          | 99.28%               |
| Ethane         | 2.83%          | 97.17%               |
| Propane        | 6.84%          | 93.16%               |
| Isobutane      | 10.95%         | 89.05%               |
| n-Butane       | 14.47%         | 85.53%               |
| Isopentane     | 17.35%         | 82.65%               |
| n-Pentane      | 21.52%         | 78.48%               |
| Cyclopentane   | 50.95%         | 49.05%               |
| n-Hexane       | 35.49%         | 64.51%               |
| Cyclohexane    | 68.83%         | 31.17%               |

|                   |        |        |
|-------------------|--------|--------|
| Other Hexanes     | 28.71% | 71.29% |
| Heptanes          | 55.61% | 44.39% |
| Methylcyclohexane | 75.78% | 24.22% |
| Benzene           | 95.48% | 4.52%  |
| Toluene           | 97.42% | 2.58%  |
| Xylenes           | 99.14% | 0.86%  |
| C8+ Heavies       | 92.44% | 7.56%  |

#### REGENERATOR

---

No Stripping Gas used in regenerator.

| Component         | Remaining<br>in Glycol | Distilled<br>Overhead |
|-------------------|------------------------|-----------------------|
| Water             | 33.60%                 | 66.40%                |
| Carbon Dioxide    | 0.00%                  | 100.00%               |
| Nitrogen          | 0.00%                  | 100.00%               |
| Methane           | 0.00%                  | 100.00%               |
| Ethane            | 0.00%                  | 100.00%               |
| Propane           | 0.00%                  | 100.00%               |
| Isobutane         | 0.00%                  | 100.00%               |
| n-Butane          | 0.00%                  | 100.00%               |
| Isopentane        | 1.56%                  | 98.44%                |
| n-Pentane         | 1.41%                  | 98.59%                |
| Cyclopentane      | 0.85%                  | 99.15%                |
| n-Hexane          | 1.00%                  | 99.00%                |
| Cyclohexane       | 4.27%                  | 95.73%                |
| Other Hexanes     | 2.29%                  | 97.71%                |
| Heptanes          | 0.73%                  | 99.27%                |
| Methylcyclohexane | 4.88%                  | 95.12%                |
| Benzene           | 5.18%                  | 94.82%                |
| Toluene           | 8.05%                  | 91.95%                |
| Xylenes           | 12.96%                 | 87.04%                |
| C8+ Heavies       | 12.13%                 | 87.87%                |

#### STREAM REPORTS:

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## WET GAS STREAM

Temperature: 93.00 deg. F  
Pressure: 914.80 psia  
Flow Rate: 5.01e+005 scfh

| Component         | Conc.<br>(vol%) | Loading<br>(lb/hr) |
|-------------------|-----------------|--------------------|
| Water             | 1.13e-001       | 2.68e+001          |
| Carbon Dioxide    | 1.79e+001       | 1.04e+004          |
| Nitrogen          | 3.21e-002       | 1.19e+001          |
| Methane           | 8.05e+001       | 1.70e+004          |
| Ethane            | 1.11e+000       | 4.40e+002          |
| Propane           | 2.50e-001       | 1.46e+002          |
| Isobutane         | 3.22e-002       | 2.47e+001          |
| n-Butane          | 2.71e-002       | 2.08e+001          |
| Isopentane        | 3.30e-003       | 3.14e+000          |
| n-Pentane         | 2.30e-003       | 2.19e+000          |
| Cyclopentane      | 9.99e-005       | 9.24e-002          |
| n-Hexane          | 4.00e-004       | 4.54e-001          |
| Cyclohexane       | 2.00e-004       | 2.22e-001          |
| Other Hexanes     | 1.10e-003       | 1.25e+000          |
| Heptanes          | 3.00e-004       | 3.96e-001          |
| Methylcyclohexane | 4.00e-004       | 5.18e-001          |
| Benzene           | 9.99e-005       | 1.03e-001          |
| Toluene           | 2.00e-004       | 2.43e-001          |
| Xylenes           | 9.99e-005       | 1.40e-001          |
| C8+ Heavies       | 4.99e-004       | 1.12e+000          |
| Total Components  | 100.00          | 2.81e+004          |

## DRY GAS STREAM

Temperature: 93.00 deg. F  
Pressure: 914.80 psia  
Flow Rate: 5.00e+005 scfh

| Component      | Conc.<br>(vol%) | Loading<br>(lb/hr) |
|----------------|-----------------|--------------------|
| Water          | 7.24e-003       | 1.72e+000          |
| Carbon Dioxide | 1.79e+001       | 1.04e+004          |
| Nitrogen       | 3.21e-002       | 1.19e+001          |

|                   |           |           |
|-------------------|-----------|-----------|
| Methane           | 8.06e+001 | 1.70e+004 |
| Ethane            | 1.11e+000 | 4.40e+002 |
| Propane           | 2.50e-001 | 1.45e+002 |
| Isobutane         | 3.22e-002 | 2.46e+001 |
| n-Butane          | 2.71e-002 | 2.07e+001 |
| Isopentane        | 3.30e-003 | 3.14e+000 |
| n-Pentane         | 2.30e-003 | 2.18e+000 |
| Cyclopentane      | 9.94e-005 | 9.19e-002 |
| n-Hexane          | 3.99e-004 | 4.53e-001 |
| Cyclohexane       | 1.98e-004 | 2.20e-001 |
| Other Hexanes     | 1.10e-003 | 1.25e+000 |
| Heptanes          | 2.99e-004 | 3.95e-001 |
| Methylcyclohexane | 3.96e-004 | 5.12e-001 |
| Benzene           | 9.07e-005 | 9.34e-002 |
| Toluene           | 1.73e-004 | 2.10e-001 |
| Xylenes           | 7.74e-005 | 1.08e-001 |
| C8+ Heavies       | 4.94e-004 | 1.11e+000 |
| -----             |           |           |
| Total Components  | 100.00    | 2.81e+004 |

#### LEAN GLYCOL STREAM

Temperature: 93.00 deg. F  
Flow Rate: 1.50e+000 gpm

| Component      | Conc.<br>(wt%) | Loading<br>(lb/hr) |
|----------------|----------------|--------------------|
| -----          |                |                    |
| TEG            | 9.85e+001      | 8.32e+002          |
| Water          | 1.50e+000      | 1.27e+001          |
| Carbon Dioxide | 2.04e-010      | 1.72e-009          |
| Nitrogen       | 1.87e-014      | 1.58e-013          |
| Methane        | 8.15e-018      | 6.88e-017          |
| Ethane         | 9.41e-009      | 7.95e-008          |
| Propane        | 4.51e-010      | 3.81e-009          |
| Isobutane      | 7.77e-011      | 6.56e-010          |
| n-Butane       | 7.13e-011      | 6.02e-010          |
| Isopentane     | 2.16e-006      | 1.82e-005          |
| n-Pentane      | 1.95e-006      | 1.64e-005          |
| Cyclopentane   | 3.51e-007      | 2.96e-006          |
| n-Hexane       | 6.55e-007      | 5.53e-006          |
| Cyclohexane    | 9.20e-006      | 7.77e-005          |
| Other Hexanes  | 2.77e-006      | 2.34e-005          |

|                   |           |           |
|-------------------|-----------|-----------|
| Heptanes          | 1.03e-006 | 8.66e-006 |
| Methylcyclohexane | 2.94e-005 | 2.48e-004 |
| Benzene           | 5.99e-005 | 5.06e-004 |
| Toluene           | 3.32e-004 | 2.80e-003 |
| Xylenes           | 5.56e-004 | 4.69e-003 |

|             |           |           |
|-------------|-----------|-----------|
| C8+ Heavies | 2.24e-004 | 1.89e-003 |
|-------------|-----------|-----------|

|                  |        |           |
|------------------|--------|-----------|
| Total Components | 100.00 | 8.45e+002 |
|------------------|--------|-----------|

# RICH GLYCOL AND PUMP GAS STREAM

Temperature: 93.00 deg. F

Pressure: 914.80 psia

Flow Rate: 1.65e+000 gpm

NOTE: Stream has more than one phase.

| Component         | Conc.<br>(wt%) | Loading<br>(lb/hr) |
|-------------------|----------------|--------------------|
| TEG               | 9.07e+001      | 8.32e+002          |
| Water             | 4.12e+000      | 3.77e+001          |
| Carbon Dioxide    | 3.00e+000      | 2.75e+001          |
| Nitrogen          | 1.44e-003      | 1.32e-002          |
| Methane           | 2.05e+000      | 1.88e+001          |
| Ethane            | 6.55e-002      | 6.00e-001          |
| Propane           | 2.58e-002      | 2.36e-001          |
| Isobutane         | 5.03e-003      | 4.61e-002          |
| n-Butane          | 4.87e-003      | 4.47e-002          |
| Isopentane        | 7.34e-004      | 6.73e-003          |
| n-Pentane         | 5.93e-004      | 5.44e-003          |
| Cyclopentane      | 7.45e-005      | 6.83e-004          |
| n-Hexane          | 1.69e-004      | 1.55e-003          |
| Cyclohexane       | 2.89e-004      | 2.65e-003          |
| Other Hexanes     | 3.89e-004      | 3.56e-003          |
| Heptanes          | 2.31e-004      | 2.12e-003          |
| Methylcyclohexane | 7.32e-004      | 6.71e-003          |
| Benzene           | 1.11e-003      | 1.02e-002          |
| Toluene           | 3.90e-003      | 3.57e-002          |
| Xylenes           | 3.98e-003      | 3.65e-002          |
| C8+ Heavies       | 1.84e-003      | 1.69e-002          |

|                  |        |           |
|------------------|--------|-----------|
| Total Components | 100.00 | 9.17e+002 |
|------------------|--------|-----------|

# FLASH TANK OFF GAS STREAM

Temperature: 87.00 deg. F  
 Pressure: 67.70 psia  
 Flow Rate: 6.63e+002 scfh

| Component         | Conc.<br>(vol%) | Loading<br>(lb/hr) |
|-------------------|-----------------|--------------------|
| Water             | 9.30e-002       | 2.93e-002          |
| Carbon Dioxide    | 3.19e+001       | 2.45e+001          |
| Nitrogen          | 2.68e-002       | 1.31e-002          |
| Methane           | 6.65e+001       | 1.86e+001          |
| Ethane            | 1.11e+000       | 5.83e-001          |
| Propane           | 2.86e-001       | 2.20e-001          |
| Isobutane         | 4.04e-002       | 4.10e-002          |
| n-Butane          | 3.76e-002       | 3.82e-002          |
| Isopentane        | 4.41e-003       | 5.56e-003          |
| n-Pentane         | 3.39e-003       | 4.27e-003          |
| Cyclopentane      | 2.73e-004       | 3.35e-004          |
| n-Hexane          | 6.65e-004       | 1.00e-003          |
| Cyclohexane       | 5.61e-004       | 8.25e-004          |
| Other Hexanes     | 1.69e-003       | 2.54e-003          |
| Heptanes          | 5.38e-004       | 9.41e-004          |
| Methylcyclohexane | 9.47e-004       | 1.62e-003          |
| Benzene           | 3.38e-004       | 4.61e-004          |
| Toluene           | 5.73e-004       | 9.22e-004          |
| Xylenes           | 1.69e-004       | 3.13e-004          |
| C8+ Heavies       | 4.29e-004       | 1.28e-003          |
| Total Components  | 100.00          | 4.41e+001          |

# FLASH TANK GLYCOL STREAM

Temperature: 87.00 deg. F  
 Flow Rate: 1.56e+000 gpm

| Component | Conc.<br>(wt%) | Loading<br>(lb/hr) |
|-----------|----------------|--------------------|
| TEG       | 9.53e+001      | 8.32e+002          |
| Water     | 4.32e+000      | 3.77e+001          |

|                   |           |           |
|-------------------|-----------|-----------|
| Carbon Dioxide    | 3.39e-001 | 2.96e+000 |
| Nitrogen          | 1.04e-005 | 9.08e-005 |
| Methane           | 1.56e-002 | 1.36e-001 |
| Ethane            | 1.95e-003 | 1.70e-002 |
| Propane           | 1.85e-003 | 1.62e-002 |
| Isobutane         | 5.78e-004 | 5.05e-003 |
| n-Butane          | 7.41e-004 | 6.46e-003 |
| Isopentane        | 1.34e-004 | 1.17e-003 |
| n-Pentane         | 1.34e-004 | 1.17e-003 |
| Cyclopentane      | 3.99e-005 | 3.48e-004 |
| n-Hexane          | 6.31e-005 | 5.51e-004 |
| Cyclohexane       | 2.09e-004 | 1.82e-003 |
| Other Hexanes     | 1.17e-004 | 1.02e-003 |
| Heptanes          | 1.35e-004 | 1.18e-003 |
| Methylcyclohexane | 5.83e-004 | 5.08e-003 |
| Benzene           | 1.12e-003 | 9.75e-003 |
| Toluene           | 3.99e-003 | 3.48e-002 |
| Xylenes           | 4.15e-003 | 3.62e-002 |
| C8+ Heavies       | 1.79e-003 | 1.56e-002 |
| -----             |           |           |
| Total Components  | 100.00    | 8.73e+002 |

#### FLASH GAS EMISSIONS

Control Method: Recycle/recompression  
Control Efficiency: 100.00

Note: Flash Gas Emissions are zero with the  
Recycle/recompression control option.

#### REGENERATOR OVERHEADS STREAM

Temperature: 212.00 deg. F  
Pressure: 14.70 psia  
Flow Rate: 5.57e+002 scfh

| Component      | Conc.<br>(vol%) | Loading<br>(lb/hr) |
|----------------|-----------------|--------------------|
| -----          |                 |                    |
| Water          | 9.47e+001       | 2.50e+001          |
| Carbon Dioxide | 4.58e+000       | 2.96e+000          |
| Nitrogen       | 2.21e-004       | 9.08e-005          |

|                   |           |           |
|-------------------|-----------|-----------|
| Methane           | 5.78e-001 | 1.36e-001 |
| Ethane            | 3.85e-002 | 1.70e-002 |
| Propane           | 2.50e-002 | 1.62e-002 |
| Isobutane         | 5.91e-003 | 5.05e-003 |
| n-Butane          | 7.58e-003 | 6.46e-003 |
| Isopentane        | 1.09e-003 | 1.15e-003 |
| n-Pentane         | 1.09e-003 | 1.15e-003 |
| Cyclopentane      | 3.35e-004 | 3.45e-004 |
| n-Hexane          | 4.31e-004 | 5.45e-004 |
| Cyclohexane       | 1.41e-003 | 1.74e-003 |
| Other Hexanes     | 7.90e-004 | 1.00e-003 |
| Heptanes          | 7.96e-004 | 1.17e-003 |
| Methylcyclohexane | 3.36e-003 | 4.84e-003 |
| Benzene           | 8.06e-003 | 9.25e-003 |
| Toluene           | 2.37e-002 | 3.20e-002 |
| Xylenes           | 2.02e-002 | 3.15e-002 |
| C8+ Heavies       | 5.48e-003 | 1.37e-002 |
| -----             |           |           |
| Total Components  | 100.00    | 2.83e+001 |

## Dehydrator Reboiler Exhaust Emissions Calculations

Unit Number: 9b, 10b, 11b &amp; 13b

Description: Dehydrator Reboilers (10 MMSCFD)

Note: The data on this worksheet applies to each individual emissions unit identified above.

### Fuel Consumption

|                |                         |                              |
|----------------|-------------------------|------------------------------|
| 659 scf/hr     | Hourly fuel consumption | Mfg. data (Infab)            |
| 900 Btu/scf    | Field gas heating value | Nominal heat content         |
| 0.593 MMBtu/hr | Capacity                | scf/hr x Btu/scf / 1,000,000 |
| 8,760 hr/yr    | Annual operating time   | Harvest Four Corners, LLC    |
| 5,196 MMBtu/yr | Annual fuel consumption | MMBtu/hr x hr/yr             |
| 5.77 MMscf/yr  | Annual fuel consumption | scf/hr x hr/yr / 1,000,000   |

### Steady-State Emission Rates

| Pollutants | Emission Factors, lb/day | Uncontrolled Emission Rates, |          |
|------------|--------------------------|------------------------------|----------|
|            |                          | pph                          | tpy      |
| NOX        | 1.03                     | 4.29E-02                     | 1.88E-01 |
| CO         | 0.43                     | 1.79E-02                     | 7.85E-02 |
| VOC        | 0.07                     | 2.71E-03                     | 1.19E-02 |
| SO2        | 0.01                     | 4.17E-04                     | 1.83E-03 |

NOX emission factor taken from August 1994 Enertek Letter

CO, TOC and SO2 emission factors taken from July 1998 InFab Letter

50% of TOC emissions are assumed to be VOC emissions, consistent with AP-42, Table 1.4-2

Uncontrolled Emission Rates (pph) = lb/day / 24 hr/day

Uncontrolled Emission Rates (tpy) = Uncontrolled Emission Rates (pph) x hr/yr / 2,000 lb/ton

| Pollutants | Emission Factors, lb/MMscf | Uncontrolled Emission Rates, |          |
|------------|----------------------------|------------------------------|----------|
|            |                            | pph                          | tpy      |
| PM         | 7.60                       | 5.01E-03                     | 2.19E-02 |
| PM10       | 7.60                       | 5.01E-03                     | 2.19E-02 |
| PM2.5      | 7.60                       | 5.01E-03                     | 2.19E-02 |

Emission factors taken from AP-42, Table 1.4-2

Uncontrolled Emission Rates (pph) = lb/MMscf x (scf/hr / 1,000,000)

Uncontrolled Emission Rates (tpy) = Uncontrolled Emission Rates (pph) x hr/yr / 2,000 lb/ton

### Exhaust Parameters

|            |                     |                             |
|------------|---------------------|-----------------------------|
| 600 °F     | Exhaust temperature | Mfg. data (Enertek & InFab) |
| 199.62 cfm | Stack flowrate      | fps x ft^2 x 60 sec/min     |
| 0.83 ft    | Stack diameter      | Mfg. data (InFab)           |
| 0.55 ft^2  | Stack exit area     | 3.1416 x ((ft / 2) ^2)      |
| 6.1 fps    | Stack velocity      | Mfg. data (Enertek & InFab) |
| 19.0 ft    | Stack height        | Mfg. data (InFab)           |

## Dehydrator Reboiler Exhaust Emissions Calculations

Unit Number: 12b

Description: Dehydrator Reboilers (12 MMSCFD)

Note: The data on this worksheet applies to each individual emissions unit identified above.

### Fuel Consumption

1,208 scf/hr

900 Btu/scf

1.09 MMBtu/hr

8,760 hr/yr

9,524 MMBtu/yr

10.58 MMscf/yr

Hourly fuel consumption

Field gas heating value

Capacity

Annual operating time

Annual fuel consumption

Annual fuel consumption

Mfg. data (Infab)

Nominal heat content

scf/hr x Btu/scf / 1,000,000

Harvest Four Corners, LLC

MMBtu/hr x hr/yr

scf/hr x hr/yr / 1,000,000

### Steady-State Emission Rates

| Pollutants | Emission Factors, lb/day | Uncontrolled Emission Rates, |          |
|------------|--------------------------|------------------------------|----------|
|            |                          | pph                          | tpy      |
| NOX        | 1.03                     | 4.29E-02                     | 1.88E-01 |
| CO         | 0.78                     | 3.25E-02                     | 1.42E-01 |
| VOC        | 0.12                     | 4.79E-03                     | 2.10E-02 |
| SO2        | 0.02                     | 8.33E-04                     | 3.65E-03 |

NOX emission factor taken from August 1994 Enertek Letter

CO, TOC and SO2 emission factors taken from July 1998 InFab Letter

50% of TOC emissions are assumed to be VOC emissions, consistent with AP-42, Table 1.4-2

Uncontrolled Emission Rates (pph) = lb/day / 24 hr/day

Uncontrolled Emission Rates (tpy) = Uncontrolled Emission Rates (pph) x hr/yr / 2,000 lb/ton

| Pollutants | Emission Factors, lb/MMscf | Uncontrolled Emission Rates, |          |
|------------|----------------------------|------------------------------|----------|
|            |                            | pph                          | tpy      |
| PM         | 7.60                       | 9.18E-03                     | 4.02E-02 |
| PM10       | 7.60                       | 9.18E-03                     | 4.02E-02 |
| PM2.5      | 7.60                       | 9.18E-03                     | 4.02E-02 |

Emission factors taken from AP-42, Table 1.4-2

Uncontrolled Emission Rates (pph) = lb/MMscf x (scf/hr / 1,000,000)

Uncontrolled Emission Rates (tpy) = Uncontrolled Emission Rates (pph) x hr/yr / 2,000 lb/ton

### Exhaust Parameters

600 °F

199.62 cfm

0.83 ft

0.55 ft^2

6.1 fps

19.0 ft

Exhaust temperature

3.327041667

Stack flowrate

Stack diameter

Stack exit area

Stack velocity

Stack height

Mfg. data (Enertek &amp; InFab)

fps x ft^2 x 60 sec/min

Mfg. data (InFab)

3.1416 x ((ft / 2) ^2)

Mfg. data (Enertek &amp; InFab)

Mfg. data (InFab)

**GRI-HAPCalc® 3.0**  
**External Combustion Devices Report**

|                   |                             |        |
|-------------------|-----------------------------|--------|
| Facility ID:      | 32-9 CDP                    | Notes: |
| Operation Type:   | COMPRESSOR STATION          |        |
| Facility Name:    | 32-9 CENTRAL DELIVERY POINT |        |
| User Name:        | Harvest Four Corners, LLC   |        |
| Units of Measure: | U.S. STANDARD               |        |

*Note: Emissions less than 5.00E-09 tons (or tonnes) per year are considered insignificant and are treated as zero.  
These emissions are indicated on the report with a "0".  
Emissions between 5.00E-09 and 5.00E-05 tons (or tonnes) per year are represented on the report with "0.0000".*

**External Combustion Devices**

Unit Name: REBOILER#1

Hours of Operation: 8,760 Yearly  
Heat Input: 0.59 MMBtu/hr  
Fuel Type: NATURAL GAS  
Device Type: BURNER  
Emission Factor Set: FIELD > EPA > LITERATURE  
Additional EF Set: -NONE-

**Calculated Emissions (ton/yr)**

| <u>Chemical Name</u>           | <u>Emissions</u> | <u>Emission Factor</u> | <u>Emission Factor Set</u> |
|--------------------------------|------------------|------------------------|----------------------------|
| <b>HAPs</b>                    |                  |                        |                            |
| 7,12-Dimethylbenz(a)anthracene | 0.0000           | 0.0000000157 lb/MMBtu  | EPA                        |
| Formaldehyde                   | 0.0009           | 0.0003522500 lb/MMBtu  | GRI Field                  |
| Methanol                       | 0.0011           | 0.0004333330 lb/MMBtu  | GRI Field                  |
| Acetaldehyde                   | 0.0008           | 0.0002909000 lb/MMBtu  | GRI Field                  |
| 1,3-Butadiene                  | 0.0000           | 0.0000001830 lb/MMBtu  | GRI Field                  |
| Benzene                        | 0.0000           | 0.0000062550 lb/MMBtu  | GRI Field                  |
| Toluene                        | 0.0000           | 0.0000053870 lb/MMBtu  | GRI Field                  |
| Ethylbenzene                   | 0.0000           | 0.0000000720 lb/MMBtu  | GRI Field                  |
| Xylenes(m,p,o)                 | 0.0000           | 0.0000010610 lb/MMBtu  | GRI Field                  |
| 2,2,4-Trimethylpentane         | 0.0001           | 0.0000323000 lb/MMBtu  | GRI Field                  |
| n-Hexane                       | 0.0008           | 0.0003214790 lb/MMBtu  | GRI Field                  |
| Phenol                         | 0.0000           | 0.0000000950 lb/MMBtu  | GRI Field                  |
| Naphthalene                    | 0.0000           | 0.0000002950 lb/MMBtu  | GRI Field                  |
| 2-Methylnaphthalene            | 0.0000           | 0.0000000700 lb/MMBtu  | GRI Field                  |
| Acenaphthylene                 | 0.0000           | 0.0000000550 lb/MMBtu  | GRI Field                  |
| Biphenyl                       | 0.0000           | 0.0000011500 lb/MMBtu  | GRI Field                  |
| Acenaphthene                   | 0.0000           | 0.0000000800 lb/MMBtu  | GRI Field                  |
| Fluorene                       | 0.0000           | 0.0000000700 lb/MMBtu  | GRI Field                  |
| Anthracene                     | 0.0000           | 0.0000000750 lb/MMBtu  | GRI Field                  |
| Phenanthrene                   | 0.0000           | 0.0000000550 lb/MMBtu  | GRI Field                  |
| Fluoranthene                   | 0.0000           | 0.0000000800 lb/MMBtu  | GRI Field                  |
| Pyrene                         | 0.0000           | 0.0000000750 lb/MMBtu  | GRI Field                  |
| Benz(a)anthracene              | 0.0000           | 0.0000000750 lb/MMBtu  | GRI Field                  |
| Chrysene                       | 0.0000           | 0.0000001000 lb/MMBtu  | GRI Field                  |
| Benzo(a)pyrene                 | 0.0000           | 0.0000000600 lb/MMBtu  | GRI Field                  |
| Benzo(b)fluoranthene           | 0.0000           | 0.0000001350 lb/MMBtu  | GRI Field                  |

|                         |        |              |          |           |
|-------------------------|--------|--------------|----------|-----------|
| Benzo(k)fluoranthene    | 0.0000 | 0.0000004400 | lb/MMBtu | GRI Field |
| Benzo(g,h,i)perylene    | 0.0000 | 0.0000001500 | lb/MMBtu | GRI Field |
| Indeno(1,2,3-c,d)pyrene | 0.0000 | 0.0000001000 | lb/MMBtu | GRI Field |
| Dibenz(a,h)anthracene   | 0.0000 | 0.0000000950 | lb/MMBtu | GRI Field |
| Lead                    | 0.0000 | 0.0000004902 | lb/MMBtu | EPA       |
| <b>Total</b>            | 0.0037 |              |          |           |

### Criteria Pollutants

|                 |        |              |          |           |
|-----------------|--------|--------------|----------|-----------|
| VOC             | 0.0139 | 0.0053921569 | lb/MMBtu | EPA       |
| PM              | 0.0193 | 0.0074509804 | lb/MMBtu | EPA       |
| PM, Condensable | 0.0144 | 0.0055882353 | lb/MMBtu | EPA       |
| PM, Filterable  | 0.0048 | 0.0018627451 | lb/MMBtu | EPA       |
| CO              | 0.0794 | 0.0307275000 | lb/MMBtu | GRI Field |
| NMHC            | 0.0220 | 0.0085294118 | lb/MMBtu | EPA       |
| NOx             | 0.2281 | 0.0882553330 | lb/MMBtu | GRI Field |
| SO2             | 0.0015 | 0.0005880000 | lb/MMBtu | EPA       |

### Other Pollutants

|                   |          |                |          |           |
|-------------------|----------|----------------|----------|-----------|
| Dichlorobenzene   | 0.0000   | 0.0000011765   | lb/MMBtu | EPA       |
| Methane           | 0.0152   | 0.0058790650   | lb/MMBtu | GRI Field |
| Acetylene         | 0.0138   | 0.0053314000   | lb/MMBtu | GRI Field |
| Ethylene          | 0.0014   | 0.0005264000   | lb/MMBtu | GRI Field |
| Ethane            | 0.0043   | 0.0016804650   | lb/MMBtu | GRI Field |
| Propylene         | 0.0024   | 0.0009333330   | lb/MMBtu | GRI Field |
| Propane           | 0.0031   | 0.0012019050   | lb/MMBtu | GRI Field |
| Butane            | 0.0036   | 0.0013866350   | lb/MMBtu | GRI Field |
| Cyclopentane      | 0.0001   | 0.0000405000   | lb/MMBtu | GRI Field |
| Pentane           | 0.0053   | 0.0020656400   | lb/MMBtu | GRI Field |
| n-Pentane         | 0.0052   | 0.0020000000   | lb/MMBtu | GRI Field |
| Cyclohexane       | 0.0001   | 0.0000451000   | lb/MMBtu | GRI Field |
| Methylcyclohexane | 0.0004   | 0.0001691000   | lb/MMBtu | GRI Field |
| n-Octane          | 0.0001   | 0.0000506000   | lb/MMBtu | GRI Field |
| n-Nonane          | 0.0000   | 0.0000050000   | lb/MMBtu | GRI Field |
| CO2               | 304.0235 | 117.6470588235 | lb/MMBtu | EPA       |

Unit Name: REBOILER#2

Hours of Operation: 8,760 Yearly  
Heat Input: 1.09 MMBtu/hr  
Fuel Type: NATURAL GAS  
Device Type: BURNER  
Emission Factor Set: FIELD > EPA > LITERATURE  
Additional EF Set: -NONE-

### Calculated Emissions (ton/yr)

| <u>Chemical Name</u>           | <u>Emissions</u> | <u>Emission Factor</u> | <u>Emission Factor Set</u> |
|--------------------------------|------------------|------------------------|----------------------------|
| <u>HAPs</u>                    |                  |                        |                            |
| 3-Methylchloranthrene          | 0.0000           | 0.0000000018 lb/MMBtu  | EPA                        |
| 7,12-Dimethylbenz(a)anthracene | 0.0000           | 0.0000000157 lb/MMBtu  | EPA                        |
| Formaldehyde                   | 0.0017           | 0.0003522500 lb/MMBtu  | GRI Field                  |
| Methanol                       | 0.0021           | 0.0004333330 lb/MMBtu  | GRI Field                  |
| Acetaldehyde                   | 0.0014           | 0.0002909000 lb/MMBtu  | GRI Field                  |

|                         |        |              |          |           |
|-------------------------|--------|--------------|----------|-----------|
| 1,3-Butadiene           | 0.0000 | 0.0000001830 | lb/MMBtu | GRI Field |
| Benzene                 | 0.0000 | 0.0000062550 | lb/MMBtu | GRI Field |
| Toluene                 | 0.0000 | 0.0000053870 | lb/MMBtu | GRI Field |
| Ethylbenzene            | 0.0000 | 0.0000000720 | lb/MMBtu | GRI Field |
| Xylenes(m,p,o)          | 0.0000 | 0.0000010610 | lb/MMBtu | GRI Field |
| 2,2,4-Trimethylpentane  | 0.0002 | 0.0000323000 | lb/MMBtu | GRI Field |
| n-Hexane                | 0.0015 | 0.0003214790 | lb/MMBtu | GRI Field |
| Phenol                  | 0.0000 | 0.0000000950 | lb/MMBtu | GRI Field |
| Naphthalene             | 0.0000 | 0.0000002950 | lb/MMBtu | GRI Field |
| 2-Methylnaphthalene     | 0.0000 | 0.0000000700 | lb/MMBtu | GRI Field |
| Acenaphthylene          | 0.0000 | 0.0000000550 | lb/MMBtu | GRI Field |
| Biphenyl                | 0.0000 | 0.0000011500 | lb/MMBtu | GRI Field |
| Acenaphthene            | 0.0000 | 0.0000000800 | lb/MMBtu | GRI Field |
| Fluorene                | 0.0000 | 0.0000000700 | lb/MMBtu | GRI Field |
| Anthracene              | 0.0000 | 0.0000000750 | lb/MMBtu | GRI Field |
| Phenanthrene            | 0.0000 | 0.0000000550 | lb/MMBtu | GRI Field |
| Fluoranthene            | 0.0000 | 0.0000000800 | lb/MMBtu | GRI Field |
| Pyrene                  | 0.0000 | 0.0000000750 | lb/MMBtu | GRI Field |
| Benz(a)anthracene       | 0.0000 | 0.0000000750 | lb/MMBtu | GRI Field |
| Chrysene                | 0.0000 | 0.0000001000 | lb/MMBtu | GRI Field |
| Benzo(a)pyrene          | 0.0000 | 0.0000000600 | lb/MMBtu | GRI Field |
| Benzo(b)fluoranthene    | 0.0000 | 0.0000001350 | lb/MMBtu | GRI Field |
| Benzo(k)fluoranthene    | 0.0000 | 0.0000004400 | lb/MMBtu | GRI Field |
| Benzo(g,h,i)perylene    | 0.0000 | 0.0000001500 | lb/MMBtu | GRI Field |
| Indeno(1,2,3-c,d)pyrene | 0.0000 | 0.0000001000 | lb/MMBtu | GRI Field |
| Dibenz(a,h)anthracene   | 0.0000 | 0.0000000950 | lb/MMBtu | GRI Field |
| Lead                    | 0.0000 | 0.0000004902 | lb/MMBtu | EPA       |

|              |        |  |  |  |
|--------------|--------|--|--|--|
| <b>Total</b> | 0.0069 |  |  |  |
|--------------|--------|--|--|--|

### Criteria Pollutants

|                 |        |              |          |           |
|-----------------|--------|--------------|----------|-----------|
| VOC             | 0.0257 | 0.0053921569 | lb/MMBtu | EPA       |
| PM              | 0.0356 | 0.0074509804 | lb/MMBtu | EPA       |
| PM, Condensable | 0.0267 | 0.0055882353 | lb/MMBtu | EPA       |
| PM, Filterable  | 0.0089 | 0.0018627451 | lb/MMBtu | EPA       |
| CO              | 0.1467 | 0.0307275000 | lb/MMBtu | GRI Field |
| NMHC            | 0.0407 | 0.0085294118 | lb/MMBtu | EPA       |
| NOx             | 0.4213 | 0.0882553330 | lb/MMBtu | GRI Field |
| SO2             | 0.0028 | 0.0005880000 | lb/MMBtu | EPA       |

### Other Pollutants

|                   |        |              |          |           |
|-------------------|--------|--------------|----------|-----------|
| Dichlorobenzene   | 0.0000 | 0.0000011765 | lb/MMBtu | EPA       |
| Methane           | 0.0281 | 0.0058790650 | lb/MMBtu | GRI Field |
| Acetylene         | 0.0255 | 0.0053314000 | lb/MMBtu | GRI Field |
| Ethylene          | 0.0025 | 0.0005264000 | lb/MMBtu | GRI Field |
| Ethane            | 0.0080 | 0.0016804650 | lb/MMBtu | GRI Field |
| Propylene         | 0.0045 | 0.0009333330 | lb/MMBtu | GRI Field |
| Propane           | 0.0057 | 0.0012019050 | lb/MMBtu | GRI Field |
| Butane            | 0.0066 | 0.0013866350 | lb/MMBtu | GRI Field |
| Cyclopentane      | 0.0002 | 0.0000405000 | lb/MMBtu | GRI Field |
| Pentane           | 0.0099 | 0.0020656400 | lb/MMBtu | GRI Field |
| n-Pentane         | 0.0095 | 0.0020000000 | lb/MMBtu | GRI Field |
| Cyclohexane       | 0.0002 | 0.0000451000 | lb/MMBtu | GRI Field |
| Methylcyclohexane | 0.0008 | 0.0001691000 | lb/MMBtu | GRI Field |
| n-Octane          | 0.0002 | 0.0000506000 | lb/MMBtu | GRI Field |

n-Nonane

0.0000

0.0000050000 lb/MMBtu

GRI Field

CO2

561.6706

117.6470588235 lb/MMBtu

EPA

## Compressor Blowdown Emissions Calculations

Unit Number: **SSM**

Description: Compressors &amp; Piping Associated With Station

### Throughput

**6** # of units  
**365** events/yr/unit  
**6,804** scf/event  
 14,900,760 scf/yr

Number of units  
 Blowdowns per year per unit  
 Gas loss per blowdown  
 Annual gas loss

Harvest Four Corners, LLC  
 Harvest Four Corners, LLC  
 Harvest Four Corners, LLC  
 # of units x events/yr/unit x scf/event

### Emission Rates

| Pollutants   | Emission Factors, lb/scf | Uncontrolled, Emission Rates, tpy |
|--------------|--------------------------|-----------------------------------|
| VOC          | 4.006E-04                | 2.98                              |
| Benzene      | 2.059E-07                | 1.53E-03                          |
| Ethylbenzene | 0.000E+00                | 0.00E+00                          |
| n-Hexane     | 9.085E-07                | 6.77E-03                          |
| Isooctane    | 0.000E+00                | 0.00E+00                          |
| Toluene      | 4.857E-07                | 3.62E-03                          |
| Xylene       | 2.798E-07                | 2.08E-03                          |

Emission factors calculated from gas composition (see table below)

Uncontrolled Emission Rates (tpy) = scf/yr x lb/scf / 2,000 lb/ton

### Gas Composition

| Components        | Mole Percents, % | Molecular Weights, lb/lb-mole | Emission Factors, lb/scf |
|-------------------|------------------|-------------------------------|--------------------------|
| Carbon dioxide    | 17.9405          | 44.01                         | 2.081E-02                |
| Hydrogen sulfide  | 0.0000           | 34.07                         | 0.000E+00                |
| Nitrogen          | 0.0321           | 28.01                         | 2.370E-05                |
| Methane           | 80.5991          | 16.04                         | 3.408E-02                |
| Ethane            | 1.1098           | 30.07                         | 8.796E-04                |
| Propane           | 0.2503           | 44.09                         | 2.909E-04                |
| Isobutane         | 0.0322           | 58.12                         | 4.933E-05                |
| n-Butane          | 0.0271           | 58.12                         | 4.151E-05                |
| Isopentane        | 0.0033           | 72.15                         | 6.276E-06                |
| n-Pentane         | 0.0023           | 72.15                         | 4.374E-06                |
| Cyclopentane      | 0.0001           | 70.14                         | 1.849E-07                |
| n-Hexane          | 0.0004           | 86.17                         | 9.085E-07                |
| Cyclohexane       | 0.0002           | 84.16                         | 4.436E-07                |
| Other hexanes     | 0.0011           | 86.18                         | 2.499E-06                |
| Heptanes          | 0.0003           | 100.20                        | 7.923E-07                |
| Methylcyclohexane | 0.0004           | 98.19                         | 1.035E-06                |
| Isooctane         | 0.0000           | 100.21                        | 0.000E+00                |
| Benzene           | 0.0001           | 78.11                         | 2.059E-07                |
| Toluene           | 0.0002           | 92.14                         | 4.857E-07                |
| Ethylbenzene      | 0.0000           | 106.17                        | 0.000E+00                |
| Xylenes           | 0.0001           | 106.17                        | 2.798E-07                |
| C8+ Heavies       | 0.0005           | 110.00                        | 1.450E-06                |
| Total             | 100.0001         |                               |                          |
| Total VOC         |                  |                               | 4.006E-04                |

Gas stream composition obtained from 32-9 extended gas analysis sampled 05/16/2025

Emission Factors (lb/scf) = (% / 100) x lb/lb-mole / 379.4 scf/lb-mole

## Dehydrator Blowdown Emissions Calculations

Unit Number: **SSM**  
 Description: Dehydrators

### Throughput

**5** # of units  
**365** events/yr/unit  
**7,839** scf/event  
 14,306,175 scf/yr

Number of units  
 Blowdowns per year per unit  
 Gas loss per blowdown  
 Annual gas loss

Harvest Four Corners, LLC  
 Harvest Four Corners, LLC  
 Harvest Four Corners, LLC  
 # of units x events/yr/unit x scf/event

### Emission Rates

| Pollutants   | Emission Factors, lb/scf | Uncontrolled, Emission Rates, tpy |
|--------------|--------------------------|-----------------------------------|
| VOC          | 4.006E-04                | 2.87                              |
| Benzene      | 2.059E-07                | 1.47E-03                          |
| Ethylbenzene | 0.000E+00                | 0.00E+00                          |
| n-Hexane     | 9.085E-07                | 6.50E-03                          |
| Isooctane    | 0.000E+00                | 0.00E+00                          |
| Toluene      | 4.857E-07                | 3.47E-03                          |
| Xylene       | 2.798E-07                | 2.00E-03                          |

Emission factors calculated from gas composition (see table below)

Uncontrolled Emission Rates (tpy) = scf/yr x lb/scf / 2,000 lb/ton

### Gas Composition

| Components        | Mole Percents, % | Molecular Weights, lb/lb-mole | Emission Factors, lb/scf |
|-------------------|------------------|-------------------------------|--------------------------|
| Carbon dioxide    | 17.9405          | 44.01                         | 2.081E-02                |
| Hydrogen sulfide  | 0.0000           | 34.07                         | 0.000E+00                |
| Nitrogen          | 0.0321           | 28.01                         | 2.370E-05                |
| Methane           | 80.5991          | 16.04                         | 3.408E-02                |
| Ethane            | 1.1098           | 30.07                         | 8.796E-04                |
| Propane           | 0.2503           | 44.09                         | 2.909E-04                |
| Isobutane         | 0.0322           | 58.12                         | 4.933E-05                |
| n-Butane          | 0.0271           | 58.12                         | 4.151E-05                |
| Isopentane        | 0.0033           | 72.15                         | 6.276E-06                |
| n-Pentane         | 0.0023           | 72.15                         | 4.374E-06                |
| Cyclopentane      | 0.0001           | 70.14                         | 1.849E-07                |
| n-Hexane          | 0.0004           | 86.17                         | 9.085E-07                |
| Cyclohexane       | 0.0002           | 84.16                         | 4.436E-07                |
| Other hexanes     | 0.0011           | 86.18                         | 2.499E-06                |
| Heptanes          | 0.0003           | 100.20                        | 7.923E-07                |
| Methylcyclohexane | 0.0004           | 98.19                         | 1.035E-06                |
| Isooctane         | 0.0000           | 100.21                        | 0.000E+00                |
| Benzene           | 0.0001           | 78.11                         | 2.059E-07                |
| Toluene           | 0.0002           | 92.14                         | 4.857E-07                |
| Ethylbenzene      | 0.0000           | 106.17                        | 0.000E+00                |
| Xylenes           | 0.0001           | 106.17                        | 2.798E-07                |
| C8+ Heavies       | 0.0005           | 110.00                        | 1.450E-06                |
| Total             | 100.0001         |                               |                          |
| Total VOC         |                  |                               | 4.006E-04                |

Gas stream composition obtained from 32-9 extended gas analysis sampled 05/16/2025

Emission Factors (lb/scf) = (% / 100) x lb/lb-mole / 379.4 scf/lb-mole

## Pneumatic Controller Emissions Calculations

Unit Number: **PC1-PC37**

Description: Pneumatic Controllers (Exempt Sources)

**Throughput****1,158,609** scf/yr

Annual gas loss

Harvest Four Corners, LLC

**Emission Rates**

| Pollutants   | Emission Factors,<br>lb/scf | Uncontrolled,<br>Emission Rates,<br>tpy |
|--------------|-----------------------------|-----------------------------------------|
| VOC          | 4.006E-04                   | 2.32E-01                                |
| Benzene      | 2.059E-07                   | 1.19E-04                                |
| Ethylbenzene | 0.000E+00                   | 0.00E+00                                |
| n-Hexane     | 9.085E-07                   | 5.26E-04                                |
| Isooctane    | 0.000E+00                   | 0.00E+00                                |
| Toluene      | 4.857E-07                   | 2.81E-04                                |
| Xylene       | 2.798E-07                   | 1.62E-04                                |

Emission factors calculated from gas composition (see table below)

Uncontrolled Emission Rates (tpy) = scf/yr x lb/scf / 2,000 lb/ton

**Gas Composition**

| Components        | Mole<br>Percents,<br>% | Molecular<br>Weights,<br>lb/lb-mole | Emission<br>Factors,<br>lb/scf |
|-------------------|------------------------|-------------------------------------|--------------------------------|
| Carbon dioxide    | 17.9405                | 44.01                               | 2.081E-02                      |
| Hydrogen sulfide  | 0.0000                 | 34.07                               | 0.000E+00                      |
| Nitrogen          | 0.0321                 | 28.01                               | 2.370E-05                      |
| Methane           | 80.5991                | 16.04                               | 3.408E-02                      |
| Ethane            | 1.1098                 | 30.07                               | 8.796E-04                      |
| Propane           | 0.2503                 | 44.09                               | 2.909E-04                      |
| Isobutane         | 0.0322                 | 58.12                               | 4.933E-05                      |
| n-Butane          | 0.0271                 | 58.12                               | 4.151E-05                      |
| Isopentane        | 0.0033                 | 72.15                               | 6.276E-06                      |
| n-Pentane         | 0.0023                 | 72.15                               | 4.374E-06                      |
| Cyclopentane      | 0.0001                 | 70.14                               | 1.849E-07                      |
| n-Hexane          | 0.0004                 | 86.17                               | 9.085E-07                      |
| Cyclohexane       | 0.0002                 | 84.16                               | 4.436E-07                      |
| Other hexanes     | 0.0011                 | 86.18                               | 2.499E-06                      |
| Heptanes          | 0.0003                 | 100.20                              | 7.923E-07                      |
| Methylcyclohexane | 0.0004                 | 98.19                               | 1.035E-06                      |
| Isooctane         | 0.0000                 | 100.21                              | 0.000E+00                      |
| Benzene           | 0.0001                 | 78.11                               | 2.059E-07                      |
| Toluene           | 0.0002                 | 92.14                               | 4.857E-07                      |
| Ethylbenzene      | 0.0000                 | 106.17                              | 0.000E+00                      |
| Xylenes           | 0.0001                 | 106.17                              | 2.798E-07                      |
| C8+ Heavies       | 0.0005                 | 110.00                              | 1.450E-06                      |
| Total             | 100.0001               |                                     |                                |
| Total VOC         |                        |                                     | 4.006E-04                      |

#REF!

Emission Factors (lb/scf) = (% / 100) x lb/lb-mole / 379.4 scf/lb-mole

## Pneumatic Pump Emissions Calculations

Unit Number: **PP1-PP5**  
 Description: Pneumatic Pumps

### Throughput

**4,927,500** scf/yr

Annual gas loss

Harvest Four Corners, LLC

### Emission Rates

| Pollutants   | Emission Factors, lb/scf | Uncontrolled, Emission Rates, tpy |
|--------------|--------------------------|-----------------------------------|
| VOC          | 4.006E-04                | 9.87E-01                          |
| Benzene      | 2.059E-07                | 5.07E-04                          |
| Ethylbenzene | 0.000E+00                | 0.00E+00                          |
| n-Hexane     | 9.085E-07                | 2.24E-03                          |
| Isooctane    | 0.000E+00                | 0.00E+00                          |
| Toluene      | 4.857E-07                | 1.20E-03                          |
| Xylene       | 2.798E-07                | 6.89E-04                          |

Emission factors calculated from gas composition (see table below)

Uncontrolled Emission Rates (tpy) = scf/yr x lb/scf / 2,000 lb/ton

### Gas Composition

| Components        | Mole Percents, % | Molecular Weights, lb/lb-mole | Emission Factors, lb/scf |
|-------------------|------------------|-------------------------------|--------------------------|
| Carbon dioxide    | 17.9405          | 44.01                         | 2.081E-02                |
| Hydrogen sulfide  | 0.0000           | 34.07                         | 0.000E+00                |
| Nitrogen          | 0.0321           | 28.01                         | 2.370E-05                |
| Methane           | 80.5991          | 16.04                         | 3.408E-02                |
| Ethane            | 1.1098           | 30.07                         | 8.796E-04                |
| Propane           | 0.2503           | 44.09                         | 2.909E-04                |
| Isobutane         | 0.0322           | 58.12                         | 4.933E-05                |
| n-Butane          | 0.0271           | 58.12                         | 4.151E-05                |
| Isopentane        | 0.0033           | 72.15                         | 6.276E-06                |
| n-Pentane         | 0.0023           | 72.15                         | 4.374E-06                |
| Cyclopentane      | 0.0001           | 70.14                         | 1.849E-07                |
| n-Hexane          | 0.0004           | 86.17                         | 9.085E-07                |
| Cyclohexane       | 0.0002           | 84.16                         | 4.436E-07                |
| Other hexanes     | 0.0011           | 86.18                         | 2.499E-06                |
| Heptanes          | 0.0003           | 100.20                        | 7.923E-07                |
| Methylcyclohexane | 0.0004           | 98.19                         | 1.035E-06                |
| Isooctane         | 0.0000           | 100.21                        | 0.000E+00                |
| Benzene           | 0.0001           | 78.11                         | 2.059E-07                |
| Toluene           | 0.0002           | 92.14                         | 4.857E-07                |
| Ethylbenzene      | 0.0000           | 106.17                        | 0.000E+00                |
| Xylenes           | 0.0001           | 106.17                        | 2.798E-07                |
| C8+ Heavies       | 0.0005           | 110.00                        | 1.450E-06                |
| Total             | 100.0001         |                               |                          |
| Total VOC         |                  |                               | 4.006E-04                |

#REF!

Emission Factors (lb/scf) = (% / 100) x lb/lb-mole / 379.4 scf/lb-mole

## Equipment Leaks Emissions Calculations

Unit Number: **F1**Description: Valves, Connectors, Seals & Open-Ended Lines (**Exempt Source**)

### Steady-State Emission Rates

| Equipment              | Number of Components,<br># of sources | Emission Factors,<br>kg/hr/source | Emission Factors,<br>lb/hr/source | Uncontrolled Emission Rates, |              |
|------------------------|---------------------------------------|-----------------------------------|-----------------------------------|------------------------------|--------------|
|                        |                                       |                                   |                                   | pph                          | tpy          |
| Valves                 | 558                                   | 0.0045                            | 0.0099                            | 5.52                         | 24.20        |
| Connectors             | 551                                   | 0.0002                            | 0.0004                            | 0.24                         | 1.06         |
| Pump Seals             | 6                                     | 0.0024                            | 0.0053                            | 0.03                         | 0.14         |
| Compressor Seals       | 44                                    | 0.0088                            | 0.0194                            | 0.85                         | 3.73         |
| Pressure Relief Valves | 46                                    | 0.0088                            | 0.0194                            | 0.89                         | 3.90         |
| Open-Ended Lines       | 160                                   | 0.0020                            | 0.0044                            | 0.70                         | 3.08         |
| Total                  |                                       |                                   |                                   | <b>8.24</b>                  | <b>36.11</b> |

Number of components based on the numbers of compressors and dehydrators at the station (see next page)

Emission factors taken from the EPA "1995 Protocol for Equipment Leak Emission Estimates"

Emission factors (lb/hr/source) = Emission factors (kg/hr/source) x 2.2 lb/kg

Uncontrolled TOC Emission Rates (pph) = lb/hr/source x # of sources

Uncontrolled TOC Emission Rates (tpy) = Uncontrolled TOC Emission Rates (pph) x 8,760 hr/yr / 2,000 lb/ton

| Components                         | Mole<br>Percents,<br>% | Molecular<br>Weights,<br>lb/lb-mole | Component<br>Weights,<br>lb/lb-mole | Weight,<br>Percent<br>% | Uncontrolled Emission Rates, |          |
|------------------------------------|------------------------|-------------------------------------|-------------------------------------|-------------------------|------------------------------|----------|
|                                    |                        |                                     |                                     |                         | pph                          | tpy      |
| Carbon dioxide                     | 17.9405                | 44.010                              | 7.896                               | 37.032                  | 3.05E+00                     | 1.34E+01 |
| Hydrogen sulfide                   | 0.0000                 | 34.070                              | 0.000                               | 0.000                   | 0.00E+00                     | 0.00E+00 |
| Nitrogen                           | 0.0321                 | 28.013                              | 0.009                               | 0.042                   | 3.48E-03                     | 1.52E-02 |
| Methane                            | 80.5991                | 16.043                              | 12.931                              | 60.647                  | 5.00E+00                     | 2.19E+01 |
| Ethane                             | 1.1098                 | 30.070                              | 0.334                               | 1.565                   | 1.29E-01                     | 5.65E-01 |
| Propane                            | 0.2503                 | 44.097                              | 0.110                               | 0.518                   | 4.27E-02                     | 1.87E-01 |
| Isobutane                          | 0.0322                 | 58.123                              | 0.019                               | 0.088                   | 7.24E-03                     | 3.17E-02 |
| n-Butane                           | 0.0271                 | 58.123                              | 0.016                               | 0.074                   | 6.09E-03                     | 2.67E-02 |
| Isopentane                         | 0.0033                 | 72.150                              | 0.002                               | 0.011                   | 9.21E-04                     | 4.03E-03 |
| n-Pentane                          | 0.0023                 | 72.150                              | 0.002                               | 0.008                   | 6.42E-04                     | 2.81E-03 |
| Cyclopentane                       | 0.0001                 | 70.134                              | 0.000                               | 0.000                   | 2.71E-05                     | 1.19E-04 |
| n-Hexane                           | 0.0004                 | 86.177                              | 0.000                               | 0.002                   | 1.33E-04                     | 5.84E-04 |
| Cyclohexane                        | 0.0002                 | 84.161                              | 0.000                               | 0.001                   | 6.51E-05                     | 2.85E-04 |
| Other hexanes                      | 0.0011                 | 86.177                              | 0.001                               | 0.004                   | 3.67E-04                     | 1.61E-03 |
| Heptanes                           | 0.0003                 | 100.204                             | 0.000                               | 0.001                   | 1.16E-04                     | 5.09E-04 |
| Methylcyclohexane                  | 0.0004                 | 98.188                              | 0.000                               | 0.002                   | 1.52E-04                     | 6.65E-04 |
| 2,2,4-Trimethylpentane (Isooctane) | 0.0000                 | 114.231                             | 0.000                               | 0.000                   | 0.00E+00                     | 0.00E+00 |
| Benzene                            | 0.0001                 | 78.114                              | 0.000                               | 0.000                   | 3.02E-05                     | 1.32E-04 |
| Toluene                            | 0.0002                 | 92.141                              | 0.000                               | 0.001                   | 7.13E-05                     | 3.12E-04 |
| Ethylbenzene                       | 0.0000                 | 106.167                             | 0.000                               | 0.000                   | 0.00E+00                     | 0.00E+00 |
| Xylenes                            | 0.0001                 | 106.167                             | 0.000                               | 0.000                   | 4.11E-05                     | 1.80E-04 |
| C8+ Heavies                        | 0.0005                 | 114.231                             | 0.001                               | 0.003                   | 2.21E-04                     | 9.67E-04 |
| Total                              | 100.0001               |                                     | 21.321                              |                         |                              |          |
| Total VOC                          |                        |                                     |                                     | 0.713                   | 5.88E-02                     | 2.58E-01 |

#REF!

Component Weights (lb/lb-mole) = (% / 100) \* Molecular Weights (lb/lb-mole)

Weight Percent (%) = 100 x Component Weights (lb/lb-mole) / Total Component Weight (lb/lb-mole)

Uncontrolled Emission Rates (pph) = Total Uncontrolled Emission Rate (from Table 1 above) (pph) x (% / 100)

Uncontrolled Emission Rates (tpy) = Total Uncontrolled Emission Rate (from Table 1 above) (tpy) x (% / 100)

## Equipment Leaks Emissions Calculations

Unit Number: **F1**

Description: Valves, Connectors, Seals &amp; Open-Ended Lines (Exempt Source)

### Component Count

Number of Compressors at the Facility: **5**Number of Dehydrators at the Facility: **3**

| Process Equipment Description                               | Equipment Count |            |            |                  |                        |          | Instrument Count |       |          |
|-------------------------------------------------------------|-----------------|------------|------------|------------------|------------------------|----------|------------------|-------|----------|
|                                                             | Valves          | Connectors | Pump Seals | Compressor Seals | Pressure Relief Valves | Open-End | Flow             | Level | Pressure |
| Station inlet, meter run to pulsation dampener              | 17              | 14         | 0          | 0                | 1                      | 13       | 3                | 0     | 3        |
| Pulsation dampener                                          | 12              | 8          | 0          | 0                | 0                      | 2        | 0                | 4     | 1        |
| Compressor suction header                                   | 7               | 4          | 0          | 0                | 0                      | 3        | 0                | 0     | 1        |
| Suction header feed to instrument gas header                | 3               | 1          | 0          | 0                | 0                      | 1        | 0                | 0     | 0        |
| Compressor discharge header and bypass to station discharge | 6               | 5          | 0          | 0                | 0                      | 3        | 0                | 1     | 1        |
| Compressor discharge header and suction header bypass lines | 4               | 2          | 0          | 0                | 0                      | 2        | 0                | 0     | 1        |
| Fuel gas header                                             | 2               | 2          | 0          | 0                | 1                      | 2        | 0                | 0     | 1        |
| Instrument gas header                                       | 2               | 2          | 0          | 0                | 1                      | 2        | 0                | 0     | 0        |
| Station discharge header                                    | 9               | 5          | 0          | 0                | 1                      | 6        | 0                | 0     | 2        |
| Fuel gas recovery header                                    | 2               | 2          | 0          | 0                | 1                      | 2        | 0                | 0     | 0        |
| Fuel gas feed and filter loop                               | 15              | 9          | 0          | 0                | 0                      | 1        | 0                | 4     | 1        |
| Instrument gas feed and filter loop                         | 9               | 11         | 0          | 0                | 0                      | 3        | 0                | 0     | 0        |
| Produced water storage tank                                 | 1               | 0          | 0          | 0                | 0                      | 1        | 0                | 1     | 0        |
| ESD panel                                                   | 12              | 0          | 0          | 0                | 0                      | 0        | 0                | 0     | 0        |
| Starting gas header                                         | 6               | 2          | 0          | 0                | 1                      | 3        | 0                | 0     | 0        |
| Hot gas header                                              | 2               | 2          | 0          | 0                | 0                      | 2        | 0                | 0     | 0        |
| Volume bottle lop                                           | 12              | 4          | 0          | 24               | 1                      | 2        | 0                | 0     | 1        |
| Components from Compressors                                 | 220             | 295        | 0          | 20               | 30                     | 55       | 0                | 20    | 45       |
| Components from dehydrators                                 | 18              | 30         | 6          | 0                | 9                      | 18       | 0                | 9     | 12       |
| Total                                                       | 359             | 398        | 6          | 44               | 46                     | 121      | 3                | 39    | 69       |
| Adjusted Total                                              | 558             | 551        | 6          | 44               | 46                     | 160      |                  |       |          |

The following additions are included in the Adjusted Total:

- 1 valve is added for each open end line
- 2 connectors are added for each flow meter
- 2 valves, 2 connectors and 1 open end line are added for each level gauge
- 1 connector is added for each pressure gauge

The component count is based on the evaluation of a comparable facility (Sim Mesa Central Delivery Point)

Storage Tank Emissions Calculations

Unit Number: T35  
Description: Produced Water Tank (Exempt Source)

Throughput

142,884 gal/yr  
3,402 bbl/yr

Annual liquid throughput  
Annual liquid throughput

Harvest Four Corners, LLC  
gal/yr x 1 bbl/42 gal

Emission Rates

| Pollutant    | Emission Factor, lb/bbl | Uncontrolled, Emission Rate, tpy |
|--------------|-------------------------|----------------------------------|
| VOC          | 0.262                   | 4.46E-01                         |
| Benzene      | 0.007                   | 1.19E-02                         |
| Ethylbenzene | 0.0007                  | 1.19E-03                         |
| n-Hexane     | 0.022                   | 3.74E-02                         |
| Toluene      | 0.009                   | 1.53E-02                         |
| Xylene       | 0.006                   | 1.02E-02                         |

VOC, Benzene, and n-Hexane emission factors are taken from the CDPHE PS Memo 09-02 (Oil & Gas Produced Water Tank Batteries - Regulatory Definitions & Permitting Guidance)

Ethylbenzene, toluene, and xylene emissions factors (Non-Texas) are taken from the TCEQ Project 2010-29 (Emission Factor Determination for Produced Water Storage Tanks) report

Uncontrolled Emission Rates (tpy) = lb/bbl x bbl/yr / 2,000 lb/ton

Truck Loading (Produced Water) Emissions Calculations

Unit Number: L1

Description: Produced Water Truck Loading (Exempt Source)

Emission Factor

|                                       |                                  |                                                             |
|---------------------------------------|----------------------------------|-------------------------------------------------------------|
| 0.6                                   | Saturation factor, S             | AP-42, Table 5.2-1 (submerged loading & dedicated service)  |
| 0.4581 psia (maximum)                 | True vapor pressure of liquid, P | Estimated using Antoine's Equation (see calculations below) |
| 0.3045 psia (average)                 | True vapor pressure of liquid, P | Estimated using Antoine's Equation (see calculations below) |
| 18.02 lb/lb-mole                      | Molecular weight of vapors, M    | TANKS 4.0 Database                                          |
| 77 °F (maximum)                       | Temperature of liquid            | Estimated (see calculations below)                          |
| 65 °F (average)                       | Temperature of liquid            | Estimated (see calculations below)                          |
| 536.67 °R (maximum)                   | Temperature of liquid, T         | °F + 459.67                                                 |
| 524.67 °R (average)                   | Temperature of liquid, T         | °F + 459.67                                                 |
| 0.11 lb/10 <sup>3</sup> gal (maximum) | Emission factor, L               | AP-42, Section 5.2, Equation 1                              |
| 0.08 lb/10 <sup>3</sup> gal (average) | Emission factor, L               | AP-42, Section 5.2, Equation 1                              |

$$L = 12.46 \frac{SPM}{T}$$

Production Rate

|                               |                                |                           |
|-------------------------------|--------------------------------|---------------------------|
| 3.36 10 <sup>3</sup> gal/hr   | Maximum hourly production rate | Harvest Four Corners, LLC |
| 142.88 10 <sup>3</sup> gal/yr | Maximum annual production rate | Harvest Four Corners, LLC |

Steady-State Emission Rates

| Pollutant | Uncontrolled Emission Rates, |          |
|-----------|------------------------------|----------|
|           | pph                          | tpy      |
| VOC       | 3.86E-01                     | 5.59E-03 |

The short-term emission rates are calculated using the maximum true vapor pressure and maximum temperature of the liquid

The annual emission rates are calculated using the average true vapor pressure and average temperature of the liquid

Uncontrolled Emission Rate (pph) = lb/10<sup>3</sup> gal x 10<sup>3</sup> gal/hr

Uncontrolled Emission Rate (tpy) = lb/10<sup>3</sup> gal x 10<sup>3</sup> gal/yr / 2,000 lb/ton

| Pollutants   | Mass Fraction | Uncontrolled Emission Rates, |          |
|--------------|---------------|------------------------------|----------|
|              |               | pph                          | tpy      |
| Benzene      | 0.0267        | 1.03E-04                     | 1.49E-06 |
| Ethylbenzene | 0.0027        | 1.03E-05                     | 1.49E-07 |
| n-Hexane     | 0.0840        | 3.24E-04                     | 4.69E-06 |
| Toluene      | 0.0344        | 1.33E-04                     | 1.92E-06 |
| m-Xylene     | 0.0229        | 8.85E-05                     | 1.28E-06 |

HAP mass fractions are estimated from the produced water tank emission factors

HAP Mass Fraction = HAP Emission Factor (lb/bbl) / VOC Emission Factor (lb/bbl)

Emission Rates (pph) = VOC Emission Rate (pph) x HAP Mass Fraction

Emission Rates (tpy) = VOC Emission Rate (tpy) x HAP Mass Fraction

Truck Loading (Produced Water) Emissions Calculations

Unit Number: L1  
Description: Produced Water Truck Loading (Exempt Source)

Vapor Pressure of Produced Water:

It is estimated that the true vapor pressure of produced water is approximately equal to the true vapor pressure of pure water. An estimate of the true vapor pressure for water is calculated using Antoine's equation (see AP-42, Section 7.1, Equation 1-25).

Maximum:

Temperature = 77 °F

log P = A - (B / (C + T))

A = 8.07131

B = 1730.63

C = 233.426

T = 25.00 °C

P = mmHg

P = 10^(A - (B / (C + T)))

P = 23.69 mmHg

P = 0.4581 psi

Average:

Temperature = 65 °F

log P = A - (B / (C + T))

A = 8.07131

B = 1730.63

C = 233.426

T = 18.33 °C

P = mmHg

P = 10^(A - (B / (C + T)))

P = 15.75 mmHg

P = 0.3045 psi

Note: 760 mmHg = 14.7 psia

# Section 6.a

## Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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**Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC)** applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O), methane (CH<sub>4</sub>), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>).

### Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO<sub>2</sub>e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO<sub>2</sub>e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO<sub>2</sub>e 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 CO<sub>2</sub>e 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 CO<sub>2</sub>e emissions are less than 75,000 tons per year.

### Sources for Calculating GHG Emissions:

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

### Global Warming Potentials (GWP):

Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO<sub>2</sub> 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)

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CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O stack exhaust emissions for combustion sources were calculated using emission factors from 40 Code of Federal Regulations (CFR), Part C, Tables C-1 & C-2 and the combustion source higher heating value (HHV) design heat rates.

The SSM CO<sub>2</sub> and CH<sub>4</sub> emissions from blowdown events were calculated from the annual blowdown volumes and gas composition.

CO<sub>2</sub> and CH<sub>4</sub> emissions from the dehydrators were obtained from the GRI-GLYCalc output files.

The pneumatic pump CO<sub>2</sub> and CH<sub>4</sub> emissions were calculated from the annual blowdown volumes and gas composition.

## Green House Gas Emissions Data and Calculations

| Sources                                   | Facility Total Emissions |                          |                          |             |                           |
|-------------------------------------------|--------------------------|--------------------------|--------------------------|-------------|---------------------------|
|                                           | CO <sub>2</sub> ,<br>tpy | N <sub>2</sub> O,<br>tpy | CH <sub>4</sub> ,<br>tpy | GHG,<br>tpy | CO <sub>2</sub> e,<br>tpy |
| Engine & Turbine Exhaust                  | 38,891.83                | 7.33E-02                 | 7.33E-01                 | 38,892.6    | 38932.00                  |
| SSM Blowdowns                             | 303.91                   | --                       | 497.61                   | 801.52      | 12744.28                  |
| Dehydrators                               | 65.17                    | --                       | 3.00                     | 68.17       | 140.09                    |
| Reboiler Exhaust                          | 1,965.38                 | 3.70E-03                 | 3.70E-02                 | 1,965.42    | 1967.41                   |
| Natural Gas Driven Pneumatic Pump Venting | 6.06                     | --                       | 9.92                     | 15.98       | 253.97                    |
| Total                                     | 41,232.36                | 7.70E-02                 | 511.30                   | 41,743.74   | 54,037.75                 |

### Engine & Turbine Exhaust Emissions

| Unit Numbers | Description      | Emission Factors              |                               |                               | Emission Rates           |                          |                          |
|--------------|------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|--------------------------|--------------------------|
|              |                  | CO <sub>2</sub> ,<br>kg/MMBtu | N <sub>2</sub> O,<br>kg/MMBtu | CH <sub>4</sub> ,<br>kg/MMBtu | CO <sub>2</sub> ,<br>tpy | N <sub>2</sub> O,<br>tpy | CH <sub>4</sub> ,<br>tpy |
| 1            | Waukesha 7042GL  | 53.06                         | 1.00E-04                      | 1.00E-03                      | 6,010.45                 | 0.011                    | 0.113                    |
| 2            | Waukesha 7042GL  | 53.06                         | 1.00E-04                      | 1.00E-03                      | 6,010.45                 | 0.011                    | 0.113                    |
| 3            | Waukesha 7042GL  | 53.06                         | 1.00E-04                      | 1.00E-03                      | 6,010.45                 | 0.011                    | 0.113                    |
| 4            | Waukesha 7042GL  | 53.06                         | 1.00E-04                      | 1.00E-03                      | 6,010.45                 | 0.011                    | 0.113                    |
| 5            | Waukesha 7044GSI | 53.06                         | 1.00E-04                      | 1.00E-03                      | 7,425.01                 | 0.014                    | 0.140                    |
| 6            | Waukesha 7044GSI | 53.06                         | 1.00E-04                      | 1.00E-03                      | 7,425.01                 | 0.014                    | 0.140                    |
|              | Total            |                               |                               |                               | 38,891.83                | 0.073                    | 0.733                    |

The emissions factors are taken from 40 CFR 98, Subpart C, Tables C-1 & C-2

Emission Rates (tpy) = kg/MMBtu x 2.2 lb/kg x MMBtu/yr / 2,000 lb/ton

| Unit Numbers | Description      | Fuel Types | Operating Times,<br>hr/yr | LHV Design Heat Rates,<br>MMBtu/hr | HHV                            |                          |
|--------------|------------------|------------|---------------------------|------------------------------------|--------------------------------|--------------------------|
|              |                  |            |                           |                                    | Design Heat Rates,<br>MMBtu/hr | Fuel Usages,<br>MMBtu/yr |
| 1            | Waukesha 7042GL  | Nat. Gas   | 8,760                     | 10.58                              | 11.76                          | 102,979                  |
| 2            | Waukesha 7042GL  | Nat. Gas   | 8,760                     | 10.58                              | 11.76                          | 102,979                  |
| 3            | Waukesha 7042GL  | Nat. Gas   | 8,760                     | 10.58                              | 11.76                          | 102,979                  |
| 4            | Waukesha 7042GL  | Nat. Gas   | 8,760                     | 10.58                              | 11.76                          | 102,979                  |
| 6            | Waukesha 7044GSI | Nat. Gas   | 8,760                     | 13.07                              | 14.52                          | 127,215                  |
| 14           | Waukesha 7044GSI | Nat. Gas   | 8,760                     | 13.07                              | 14.52                          | 127,215                  |

The fuel types and operating times are provided by Harvest

The LHV design heat rates are taken from manufacturers data

HHV Design Heat Rates (MMBtu/hr) = LHV Design Heat Rates (MMBtu/hr) / 0.9 LHV/HHV

HHV Fuel Usages (MMBtu/yr) = HHV Design Heat Rates (MMBtu/hr) x hr/yr

### SSM Blowdown Emissions

| Unit Numbers | Description   | Total Gas Losses,<br>scf/yr | CO <sub>2</sub> Emission Factors,<br>lb/scf | CH <sub>4</sub> Emission Factors,<br>lb/scf | Emission Rates           |                          |                          |
|--------------|---------------|-----------------------------|---------------------------------------------|---------------------------------------------|--------------------------|--------------------------|--------------------------|
|              |               |                             |                                             |                                             | CO <sub>2</sub> ,<br>tpy | N <sub>2</sub> O,<br>tpy | CH <sub>4</sub> ,<br>tpy |
| SSM          | SSM Blowdowns | 29,206,935                  | 0.0208                                      | 0.0341                                      | 303.91                   | -                        | 497.61                   |

The annual blowdown volumes are calculated from data provided by Harvest

The CO<sub>2</sub> and CH<sub>4</sub> emission factors are calculated from the facility extended gas analysis

Emission Rates (tpy) = scf/yr x lb/scf / 2,000 lb/ton

## Green House Gas Emissions Data and Calculations

### Dehydrator Emissions

| Unit Numbers | Description            | Emission Rates        |                       |
|--------------|------------------------|-----------------------|-----------------------|
|              |                        | CO <sub>2</sub> , tpy | CH <sub>4</sub> , tpy |
| 9a           | Dehydrator (10 MMSCFD) | 13.05                 | 0.60                  |
| 10a          | Dehydrator (10 MMSCFD) | 13.05                 | 0.60                  |
| 11a          | Dehydrator (10 MMSCFD) | 13.05                 | 0.60                  |
| 12a          | Dehydrator (12 MMSCFD) | 12.96                 | 0.60                  |
| 13a          | Dehydrator (10 MMSCFD) | 13.05                 | 0.60                  |
| Total        |                        | 65.17                 | 3.00                  |

The emission rates are taken from the GRI-GLYCalc output file

### Reboiler Exhaust Emissions

| Unit Numbers | Description          | Emission Factors           |                            |                            | Emission Rates        |                       |                       |
|--------------|----------------------|----------------------------|----------------------------|----------------------------|-----------------------|-----------------------|-----------------------|
|              |                      | CO <sub>2</sub> , kg/MMBtu | CH <sub>4</sub> , kg/MMBtu | N <sub>2</sub> O, kg/MMBtu | CO <sub>2</sub> , tpy | N <sub>2</sub> O, tpy | CH <sub>4</sub> , tpy |
| 9b           | Reboiler (10 MMSCFD) | 53.06                      | 1.00E-03                   | 1.00E-04                   | 336.94                | 6.35E-04              | 6.35E-03              |
| 10b          | Reboiler (10 MMSCFD) | 53.06                      | 1.00E-03                   | 1.00E-04                   | 336.94                | 6.35E-04              | 6.35E-03              |
| 11b          | Reboiler (10 MMSCFD) | 53.06                      | 1.00E-03                   | 1.00E-04                   | 336.94                | 6.35E-04              | 6.35E-03              |
| 12b          | Reboiler (12 MMSCFD) | 53.06                      | 1.00E-03                   | 1.00E-04                   | 617.63                | 1.16E-03              | 1.16E-02              |
| 13b          | Reboiler (10 MMSCFD) | 53.06                      | 1.00E-03                   | 1.00E-04                   | 336.94                | 6.35E-04              | 6.35E-03              |
| Total        |                      |                            |                            |                            | 1,965.38              | 3.70E-03              | 3.70E-02              |

The emissions factors are taken from 40 CFR 98, Subpart C, Tables C-1 & C-2

Emission Rates (tpy) = kg/MMBtu x 2.2 lb/kg x MMBtu/yr / 2,000 lb/ton

| Unit Numbers | Description          | Fuel Types | Operating Times hr/yr | LHV                 |                             |                       | HHV                   |                       |
|--------------|----------------------|------------|-----------------------|---------------------|-----------------------------|-----------------------|-----------------------|-----------------------|
|              |                      |            |                       | Fuel Usages, scf/hr | Fuel Heat Contents, Btu/scf | Fuel Usages, MMBtu/hr | Fuel Usages, MMBtu/hr | Fuel Usages, MMBtu/yr |
| 9b           | Reboiler (10 MMSCFD) | Nat. Gas   | 8,760                 | 659                 | 900                         | 0.59                  | 0.66                  | 5,773                 |
| 10b          | Reboiler (10 MMSCFD) | Nat. Gas   | 8,760                 | 659                 | 900                         | 0.59                  | 0.66                  | 5,773                 |
| 11b          | Reboiler (10 MMSCFD) | Nat. Gas   | 8,760                 | 659                 | 900                         | 0.59                  | 0.66                  | 5,773                 |
| 12b          | Reboiler (12 MMSCFD) | Nat. Gas   | 8,760                 | 1,208               | 900                         | 1.09                  | 1.21                  | 10,582                |
| 13b          | Reboiler (10 MMSCFD) | Nat. Gas   | 8,760                 | 659                 | 900                         | 0.59                  | 0.66                  | 5,773                 |

The fuel types and operating times are provided by Harvest

The LHV fuel usages (scf/hr) are taken from manufacturer's data

The LHV fuel heat contents are estimated based on the value typically used by manufacturers

LHV Fuel Usages (MMBtu/hr) = LHV Fuel Usages (scf/hr) x Btu/scf / 1,000,000 Btu/MMBtu

HHV Fuel Usages (MMBtu/hr) = LHV Fuel Usages (MMBtu/hr) / 0.9 LHV/HHV

HHV Fuel Usages (MMBtu/yr) = HHV Fuel Usages (MMBtu/hr) x hr/yr

## Green House Gas Emissions Data and Calculations

### Natural Gas Driven Pneumatic Pump Venting Emissions

#### Emission Rates

| Unit Number | Description            | Number of Pumps, # | Emission Factor, scf/hr/pump | Operating Time, hr/yr | Emission Rates |          |          |
|-------------|------------------------|--------------------|------------------------------|-----------------------|----------------|----------|----------|
|             |                        |                    |                              |                       | CO2, tpy       | N2O, tpy | CH4, tpy |
| NA          | Pneumatic Pump Venting | 5                  | 13.3                         | 8,760                 | 6.06           | -        | 9.92     |

The number of pumps is provided by Harvest

The emission factor is taken from Subpart W, Table W-1A (Western U.S. - Gas Service)

The operating time is provided by Harvest (default is the entire year)

Equation W-2 (Subpart W) is used to calculate CO2 & CH4 emissions

As the NMED requires CO2 & CH4 emissions in addition to CO2e emissions, it is necessary to divide by the global warming potentials

CO2 Emission Rate (tpy) = # x scf/hr/pump x (CO2 Content (mole %) / 100) x CO2 Conversion Factor (tonne CO2e/scf) x hr/yr  
x (2,204.6 lb/tonne / 2,000 lb/ton) / CO2 Global Warming Potentials (tonne CO2e/tonne CO2)

CH4 Emission Rate (tpy) = # x scf/hr/pump x (CH4 Content (mole %) / 100) x CH4 Conversion Factor (tonne CO2e/scf) x hr/yr  
x (2,204.6 lb/tonne / 2,000 lb/ton) / CH4 Global Warming Potentials (tonne CO2e/tonne CH4)

| Unit Number | Description            | CO2 Content, mole % | CH4 Content, mole % | CO2 Conversion Factor, tonne CO2e /scf | CH4 Conversion Factor, tonne CO2e /scf | CO2 Global Warming Potential, tonne CO2e /tonne CO2 | CH4 Global Warming Potential, tonne CO2e /tonne CH4 |
|-------------|------------------------|---------------------|---------------------|----------------------------------------|----------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| NA          | Pneumatic Pump Venting | 17.94               | 80.60               | 5.262E-05                              | 4.790E-04                              | 1                                                   | 25                                                  |

The facility CO2 and CH4 contents are taken from the facility extended gas analysis

The conversion factors are taken from Subpart W, Paragraph 98.233(a)

The operating time is provided by Harvest (the default is the entire year)

The global warming potentials are taken from 40 CFR Part 98, Table A-1

## Green House Gas Emissions Data and Calculations

### Gas Stream Composition

| Components             | Mole<br>Percents,<br>% | Molecular<br>Weights,<br>lb/lb-mole | Component<br>Weights,<br>lb/lb-mole | Weight<br>Percent<br>of Total,<br>% | Emission<br>Factors,<br>lb/scf |
|------------------------|------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------|
| Carbon Dioxide         | 17.9405                | 44.01                               | 7.90                                | 37.0366                             | 0.0208                         |
| Hydrogen Sulfide       | 0.0000                 | 34.07                               | 0.00                                | 0.0000                              | 0.0000                         |
| Nitrogen               | 0.0321                 | 28.01                               | 0.01                                | 0.0422                              | 0.0000                         |
| Methane                | 80.5991                | 16.04                               | 12.93                               | 60.6428                             | 0.0341                         |
| Ethane                 | 1.1098                 | 30.07                               | 0.33                                | 1.5654                              | 0.0009                         |
| Propane                | 0.2503                 | 44.09                               | 0.11                                | 0.5177                              | 0.0003                         |
| IsoButane              | 0.0322                 | 58.12                               | 0.02                                | 0.0878                              | 0.0000                         |
| Normal Butane          | 0.0271                 | 58.12                               | 0.02                                | 0.0739                              | 0.0000                         |
| IsoPentane             | 0.0033                 | 72.15                               | 0.00                                | 0.0112                              | 0.0000                         |
| Normal Pentane         | 0.0023                 | 72.15                               | 0.00                                | 0.0078                              | 0.0000                         |
| Cyclopentane           | 0.0001                 | 70.14                               | 0.00                                | 0.0003                              | 0.0000                         |
| n-Hexane               | 0.0004                 | 86.17                               | 0.00                                | 0.0016                              | 0.0000                         |
| Cyclohexane            | 0.0002                 | 84.16                               | 0.00                                | 0.0008                              | 0.0000                         |
| Other Hexanes          | 0.0011                 | 86.18                               | 0.00                                | 0.0044                              | 0.0000                         |
| Heptanes               | 0.0003                 | 100.20                              | 0.00                                | 0.0014                              | 0.0000                         |
| Methylcyclohexane      | 0.0004                 | 98.19                               | 0.00                                | 0.0018                              | 0.0000                         |
| 2,2,4-Trimethylpentane | 0.0000                 | 100.21                              | 0.00                                | 0.0000                              | 0.0000                         |
| Benzene                | 0.0001                 | 78.11                               | 0.00                                | 0.0004                              | 0.0000                         |
| Toluene                | 0.0002                 | 92.14                               | 0.00                                | 0.0009                              | 0.0000                         |
| Ethylbenzene           | 0.0000                 | 106.17                              | 0.00                                | 0.0000                              | 0.0000                         |
| Xylenes                | 0.0001                 | 106.17                              | 0.00                                | 0.0005                              | 0.0000                         |
| C8+ heavies            | 0.0005                 | 110.00                              | 0.00                                | 0.0026                              | 0.0000                         |
| Total                  | 100.0001               |                                     | 21.32                               | 100.0000                            | 0.0562                         |
| VOC                    |                        |                                     | 0.15                                | --                                  | 0.0004                         |

Gas stream composition obtained from 32-9 extended gas analysis sampled 05/16/2025

Component Weights (lb/lb-mole) = [Mole Percents (%) / 100] x Molecular Weights (lb/lb-mole)

Weight Percent of Total (%) = 100 x Component Weights (lb/lb-mole) / Total Component Weight (lb/lb-mole)

Emission Factors (lb/scf) = [Mole Percents (%) / 100] x Molecular Weights (lb/lb-mole) / 379.4 scf/lb-mole

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# Section 7

## Information Used to Determine Emissions

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**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.
- 

Please see the following pages.

## STANDARD EQUIPMENT

**AIR CLEANER** – Two, dry type with rain shield and service indicator.

**BARRING DEVICE** – Manual.

**BEARINGS** – Heavy duty, replaceable, precision type.

**BREATHER** – Closed system.

**CONNECTING RODS** – Drop forged steel, rifle drilled.

**CONTROL SYSTEM** – Pneumatic. Includes pilot operated valves for air start and prelube. Engine mounted control panel with two push button valves. Pilot operated air start valves omitted when starter is not furnished by Waukesha. Includes engine On/Off push button. One mounted on either side of the engine.

**CRANKCASE** – Integral crankcase and cylinder frame. Main bearing caps drilled and tapped for temperature sensors. Does not include sensors.

**CRANKSHAFT** – Counterweighted, forged steel, seven main bearings, and dynamically balanced.

**CYLINDERS** – Removable wet type cylinder liners, chrome plated on outer diameter. Induction hardened.

**CYLINDER HEADS** – Twelve interchangeable. Two hard faced intake and two hard faced exhaust valves per cylinder. Hard faced intake and exhaust valve seat inserts. Roller valve lifters and hydraulic push rods. Includes prechamber and related fuel control valves.

**ENGINE ROTATION** – Counterclockwise when facing flywheel.

**ENGINE MONITORING DEVICES** – Engine thermocouples, K-type, for jacket water temperature, lube oil temperature, intake manifold temperature, individual cylinder exhaust temperature and a common pre turbine temperatures, one on each bank. Magnetic pickup wired for customer supplied tachometer. Lube oil pressure and intake manifold pressure sensing lines are terminated in a common bulk head.

**EXHAUST OUTLET** – Single vertical at rear. Flexible stainless steel connection with 8" (203 mm) pipe flange.

**FLYWHEEL** – Approx.  $WR^2 = 155000 \text{ lb-in}^2$ ; with ring gear (208 teeth), machined to accept two drive adapters: 31.88" (810 mm) pilot bore, 30.25" (768 mm) bolt circle, (12) 0.75"-10 tapped holes; or 28.88" (734 mm) pilot bore, 27.25" (692 mm) bolt circle, (12) 0.625"-11 tapped holes and (12) 0.75"-10 tapped holes.

**FLYWHEEL HOUSING** – No. 00 SAE.

**FUEL SYSTEM** – Dual natural gas, 4" (102 mm) duplex updraft carburetors. Two Fisher Model 99, 2" (51 mm) gas regulators, 30 – 50 psi (241 – 345 kPa) gas inlet pressure required. Prechamber fuel system and control logic.

**GOVERNOR** – Woodward UG-8 LD hydraulic lever type, with friction type speed control. Mounted on right hand side.

**IGNITION** – Waukesha Custom Engine Control Ignition Module. Electronic digital ignition system. 24V DC power required.

**INTERCOOLER** – Air-to-water.

**LEVELING BOLTS**

**LIFTING EYES**

**LUBRICATION** – Full pressure. Gear type pump. Full flow filter, 36 gallon (136 litres) capacity, not mounted. Includes flexible connections. Includes lube oil strainer, mounted on engine. Air/gas motor driven prelube pump. Requires final piping.

**MANIFOLDS** – Exhaust, (2) water cooled.

**OIL COOLER** – With thermostatic temperature controller and pressure regulating valve. Not mounted.

**OIL PAN** – Base type. 90 gallon (340 litres) capacity including filter and cooler.

**PAINT** – Oilfield orange primer.

**PISTONS** – Aluminum with floating pin. 10.5:1 compression ratio. Oil cooled.

**SHIPPING SKID** – Steel for domestic truck or rail.

**TURBOCHARGERS** – Two, dry type. Wastegate controlled.

**VIBRATION DAMPER** – Two, viscous type. Guard included with remote mounted radiator or no radiator.

### WATER CIRCULATING SYSTEM

**Auxiliary Circuit** – For oil cooler and intercooler. Pump is belt driven from crankshaft pulley. Includes thermostatic valve.

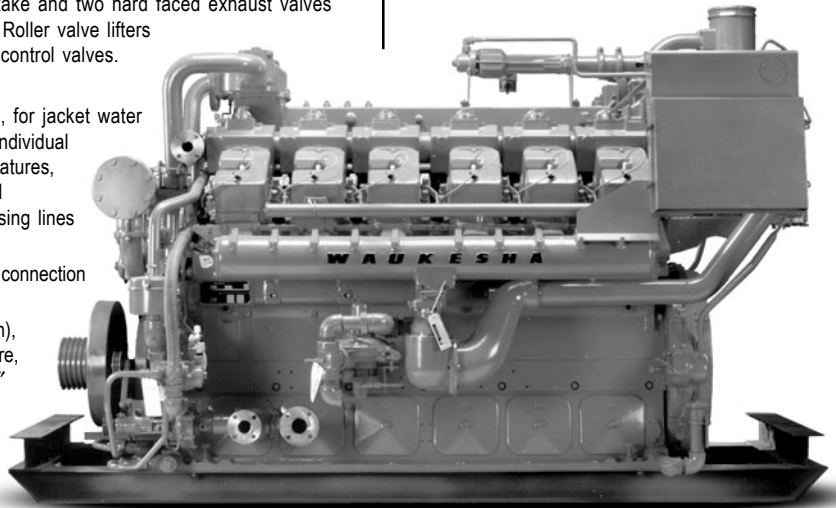
**Engine Jacket** – Belt driven water circulating pump, cluster type thermostatic temperature regulating valve, full flow bypass type. Flange connections and mating flanges for (2) 4" (102 mm) inlets and (1) 5" (127 mm) outlet.

**WAUKESHA CUSTOM ENGINE CONTROL, DETONATION SENSING MODULE (DSM)** – Includes individual cylinder sensors, Detonation Sensing Module, filter and cables. Device is compatible with Waukesha CEC Ignition Module only. Sensors are mounted and wired to engine junction box. Detonation Sensing Module and filter are shipped loose. One 11 ft. cable provided for connection between engine junction box and filter. One each 15 ft. cable provided for connection between filter and DSM and Ignition Module and DSM. One 20 ft. cable provided for power and ground for filter. All cables are shipped loose. Packager is responsible for power supply and ground to the DSM. 24V DC power is required. The DSM meets Canadian Standards Association Class 1, Group D, Division 2, hazardous location requirements.

**Waukesha**  
**VHP**

# L7042GL

**VHP™ Series Gas Engine**  
**886 - 1547 BHP**



**Model L7042GL** Turbocharged and Intercooled,  
Twelve Cylinder, Lean Combustion, Four-Cycle  
Gas Engine

## SPECIFICATIONS

### Cylinders

V 12

### Piston Displacement

7040 cu. in.

(115 L)

### Bore & Stroke

9.375" x 8.5"

(238 x 216 mm)

### Compression Ratio

10.5:1

### Jacket Water

### System Capacity

107 gal.

(405 L)

### Lube Oil Capacity

90 gal.

(340 L)

### Starting System

125 - 150 psi air/gas

24/32V electric

### Dry Weight

21,000 lb.

(9525 kg)

### Full Load Exhaust

### Emissions

Nox - 1.50 g/bhp-hr

CO - 2.65 g/bhp-hr

HC - 1.00 g/bhp-hr  
(non-methane)

Waukesha Engine  
**ISO 9001**  
CERTIFIED

## POWER RATINGS: L7042GL VHP SERIES GAS ENGINES

| Brake Horsepower (kWb Output) |                                                       |        |            |            |            |             |             |
|-------------------------------|-------------------------------------------------------|--------|------------|------------|------------|-------------|-------------|
| Model                         | I.C. Water Inlet Temp.<br>°F (°C) (T <sub>cra</sub> ) | C.R.   | 800 rpm    | 900 rpm    | 1000 rpm   | 1100 rpm    | 1200 rpm    |
| High Speed Turbo <sup>1</sup> | 85° (29°)                                             | 10.5:1 | 928 (692)  | 1160 (865) | 1289 (961) | 1418 (1057) | 1547 (1154) |
| High Speed Turbo <sup>1</sup> | 130° (54°)                                            | 10.5:1 | 886 (661)  | 1108 (826) | 1232 (919) | 1355 (1010) | 1478 (1102) |
| Low Speed Turbo <sup>2</sup>  | 85° (29°)                                             | 10.5:1 | 1031 (769) | 1160 (865) | 1289 (961) | — —         | — —         |
| Low Speed Turbo <sup>2</sup>  | 130° (54°)                                            | 10.5:1 | 985 (735)  | 1108 (826) | 1232 (919) | — —         | — —         |

<sup>1</sup>High speed turbocharger match – 1001-1200 rpm

<sup>2</sup>Low speed turbocharger match – 700-1000 rpm

**Rating Standard:** All models: Ratings are based on ISO 3046/1-1995 with mechanical efficiency of 90% and auxiliary water temperature T<sub>cra</sub> (clause 10.1) as specified above limited to ± 10° F (± 5° C). Ratings are also valid for SAE J1349, BS5514, DIN6271 and AP17B-11C standard atmospheric conditions.

**ISO Standard Power/Continuous Power Rating:** The highest load and speed which can be applied 24 hours a day, seven days a week, 365 days per year except for normal maintenance. It is permissible to operate the engine at up to 10% overload, or maximum load indicated by the intermittent rating, whichever is lower, for two hours in each 24 hour period.

All natural gas engine ratings are based on a fuel of 900 Btu/ft<sup>3</sup> (35.3 MJ/nm<sup>3</sup>) SLHV value, with a 91 Waukesha Knock Index®.

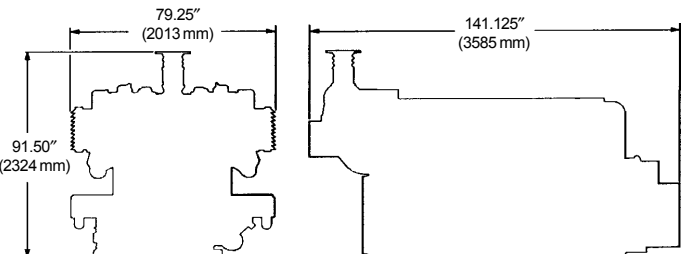
For conditions or fuels other than standard, the Waukesha Engine Sales Engineering Department.

## PERFORMANCE: L7042GL VHP SERIES GAS ENGINES

| English                       |                                | 130° F ICW |      | 85° F ICW |      | Metric                               |  | 54° C ICW |      | 29° C ICW |      |
|-------------------------------|--------------------------------|------------|------|-----------|------|--------------------------------------|--|-----------|------|-----------|------|
| Low NO <sub>x</sub> Settings  | RPM                            | 1200       | 1000 | 1200      | 1000 | RPM                                  |  | 1200      | 1000 | 1200      | 1000 |
|                               | Power (Bhp)                    | 1478       | 1232 | 1547      | 1289 | Power (kWb)                          |  | 1103      | 919  | 1154      | 962  |
|                               | BSFC (Btu/bhp-hr)              | 7155       | 6815 | 7180      | 6840 | BSFC (kJ/kW-hr)                      |  | 10124     | 9643 | 10160     | 9679 |
|                               | NO <sub>x</sub> (grams/bhp-hr) | 0.90       | 0.90 | 0.70      | 0.70 | NO <sub>x</sub> (g/nm <sup>3</sup> ) |  | 0.37      | 0.37 | 0.29      | 0.29 |
|                               | CO (grams/bhp-hr)              | 2.75       | 2.65 | 2.65      | 2.55 | CO (g/nm <sup>3</sup> )              |  | 1.14      | 1.10 | 1.10      | 1.05 |
|                               | NMHC (grams/bhp-hr)            | 1.00       | 1.00 | 1.10      | 1.10 | NMHC (g/nm <sup>3</sup> )            |  | 0.41      | 0.41 | 0.45      | 0.45 |
| Low Fuel Consumption Settings | BSFC (Btu/bhp-hr)              | 6910       | 6615 | 6935      | 6640 | BSFC (kJ/kW-hr)                      |  | 9778      | 9360 | 9813      | 9396 |
|                               | NO <sub>x</sub> (grams/bhp-hr) | 1.50       | 1.60 | 1.30      | 1.40 | NO <sub>x</sub> (g/nm <sup>3</sup> ) |  | 0.62      | 0.66 | 0.54      | 0.58 |
|                               | CO (grams/bhp-hr)              | 3.00       | 2.75 | 2.90      | 2.65 | CO (g/nm <sup>3</sup> )              |  | 1.24      | 1.14 | 1.20      | 1.10 |
|                               | NMHC (grams/bhp-hr)            | 0.70       | 1.00 | 0.80      | 1.10 | NMHC (g/nm <sup>3</sup> )            |  | 0.29      | 0.41 | 0.33      | 0.45 |

### NOTES:

- Performance ratings are based on ISO 3046/1-1995 with mechanical efficiency of 90% and T<sub>cra</sub> limited to ± 10° F.
- Fuel consumptions based on ISO 3046/1-1995 with a +5% tolerance for commercial quality natural gas having a 900 Btu/ft<sup>3</sup> saturated low heat value.
- Data based on standard conditions of 77° F (25° C) ambient temperature, 29.53 inches Hg (100kPa) barometric pressure, 30% relative humidity (0.3 inches Hg / 1 kPa water vapor pressure).
- Data will vary due to variations in site conditions. For conditions and/or fuels other than standard, consult the Waukesha Engine Sales Engineering Department.



**Waukesha**

**WAUKESHA ENGINE  
DRESSER, INC.**

1000 West St. Paul Avenue  
Waukesha, WI 53188-4999  
Phone: (262) 547-3311 Fax: (262) 549-2795  
waukeshaengine.dresser.com

Bulletin 7005 0102

**WAUKESHA ENGINE  
DRESSER INDUSTRIAL PRODUCTS, B.V.**

Farmsumerweg 43, Postbus 330  
9900 AH Appingedam, The Netherlands  
Phone: (31) 596-652222 Fax: (31) 596-628111

Consult your local Waukesha Distributor for system application assistance. The manufacturer reserves the right to change or modify without notice, the design or equipment specifications as herein set forth without incurring any obligation either with respect to equipment previously sold or in the process of construction except where otherwise specifically guaranteed by the manufacturer.

## Harvest 32-9

## L7044GSI S5

WPI Aaron Countryman 5052589536 aaron.countryman@wpi.com

Gas Compression

|                           |                         |                                       |                   |
|---------------------------|-------------------------|---------------------------------------|-------------------|
| ENGINE SPEED (rpm):       | 1200                    | NOx SELECTION (g/bhp-hr):             | Customer Catalyst |
| DISPLACEMENT (in3):       | 7040                    | COOLING SYSTEM:                       | JW, IC + OC       |
| COMPRESSION RATIO:        | 9.7:1                   | INTERCOOLER WATER INLET (°F):         | 130               |
| IGNITION SYSTEM:          | ESM2                    | JACKET WATER OUTLET (°F):             | 180               |
| EXHAUST MANIFOLD:         | Water Cooled            | JACKET WATER CAPACITY (gal):          | 100               |
| COMBUSTION:               | Rich Burn, Turbocharged | AUXILIARY WATER CAPACITY (gal):       | 11                |
| ENGINE DRY WEIGHT (lbs):  | 24250                   | LUBE OIL CAPACITY (gal):              | 190               |
| AIR/FUEL RATIO SETTING:   | 0.38% CO                | MAX. EXHAUST BACKPRESSURE (in. H2O):  | 20                |
| ENGINE SOUND LEVEL (dBA): | 105.00                  | MAX. AIR INLET RESTRICTION (in. H2O): | 15                |
|                           |                         | EXHAUST SOUND LEVEL (dBA):            | 113               |

### SITE CONDITIONS:

|                             |             |                                     |       |
|-----------------------------|-------------|-------------------------------------|-------|
| FUEL:                       | Natural Gas | ALTITUDE (ft):                      | 6230  |
| FUEL PRESSURE RANGE (psig): | 43 - 60     | MAXIMUM INLET AIR TEMPERATURE (°F): | 100   |
| FUEL HHV (BTU/ft3):         | 849.55      | FUEL WKI:                           | 107.2 |
| FUEL LHV (BTU/ft3):         | 768         |                                     |       |

### SITE SPECIFIC TECHNICAL DATA

| POWER RATING                      | UNITS     |  | MAXIMUM<br>CONTINUOUS<br>RATING AT<br>100°F INLET<br>AIR | SITE RATING AT INLET AIR<br>TEMPERATURE OF 100°F |      |      |
|-----------------------------------|-----------|--|----------------------------------------------------------|--------------------------------------------------|------|------|
|                                   |           |  |                                                          | 100 %                                            | 75 % | 65 % |
| CONTINUOUS ENGINE POWER           | BHP       |  | 1456                                                     | 1456                                             | 1092 | 950  |
| OVERLOAD                          | % 2/24 hr |  | 0                                                        | 0                                                |      |      |
| MECHANICAL EFFICIENCY (LHV)       | %         |  | 32.4                                                     | 32.4                                             | 30.4 | 29.2 |
| CONTINUOUS POWER AT FLYWHEEL      | BHP       |  | 1381                                                     | 1381                                             | 1017 | 875  |
| <i>based on 75 HP cooling fan</i> |           |  |                                                          |                                                  |      |      |
| AVAILABLE TURNDOWN SPEED RANGE    | RPM       |  | 1150 - 1200                                              |                                                  |      |      |

| FUEL CONSUMPTION       |            |                                   |      |      |      |      |
|------------------------|------------|-----------------------------------|------|------|------|------|
| FUEL CONSUMPTION (LHV) | BTU/BHP-hr |                                   | 7449 | 7449 | 7794 | 8031 |
| FUEL CONSUMPTION (HHV) | BTU/BHP-hr |                                   | 8240 | 8240 | 8621 | 8884 |
| FUEL FLOW              | SCFM       | <i>based on fuel analysis LHV</i> | 235  | 235  | 185  | 166  |

| HEAT REJECTION    |               |  |      |      |      |      |
|-------------------|---------------|--|------|------|------|------|
| JACKET WATER (JW) | BTU/hr x 1000 |  | 3094 | 3094 | 2501 | 2283 |
| LUBE OIL (OC)     | BTU/hr x 1000 |  | 488  | 488  | 451  | 436  |
| INTERCOOLER (IC)  | BTU/hr x 1000 |  | 526  | 526  | 301  | 224  |
| EXHAUST           | BTU/hr x 1000 |  | 2728 | 2728 | 2134 | 1909 |
| RADIATION         | BTU/hr x 1000 |  | 515  | 515  | 510  | 508  |

| EMISSIONS (ENGINE OUT): |          |  |       |       |       |       |
|-------------------------|----------|--|-------|-------|-------|-------|
| NOx (NO + NO2)          | g/bhp-hr |  | 12.5  | 12.5  | 12.6  | 12.5  |
| CO                      | g/bhp-hr |  | 10.8  | 10.8  | 10.8  | 10.9  |
| THC                     | g/bhp-hr |  | 0.6   | 0.6   | 0.8   | 0.9   |
| NMHC                    | g/bhp-hr |  | 0.029 | 0.029 | 0.038 | 0.042 |
| NM,NEHC (VOC)           | g/bhp-hr |  | 0.014 | 0.014 | 0.018 | 0.019 |
| CO2                     | g/bhp-hr |  | 545   | 545   | 570   | 587   |
| CO2e (Methane GWP: 25)  | g/bhp-hr |  | 560   | 560   | 590   | 609   |
| HCHO                    | g/bhp-hr |  | 0.050 | 0.050 | 0.050 | 0.050 |
| CH4                     | g/bhp-hr |  | 0.61  | 0.61  | 0.79  | 0.87  |

| AIR INTAKE / EXHAUST GAS |       |                                   |      |      |      |      |
|--------------------------|-------|-----------------------------------|------|------|------|------|
| INDUCTION AIR FLOW       | SCFM  |                                   | 2030 | 2030 | 1593 | 1428 |
| EXHAUST GAS MASS FLOW    | lb/hr |                                   | 9438 | 9438 | 7406 | 6639 |
| EXHAUST GAS FLOW         | ACFM  | <i>at exhaust temp, 14.5 psia</i> | 6321 | 6321 | 4944 | 4426 |
| EXHAUST TEMPERATURE      | °F    |                                   | 1047 | 1047 | 1042 | 1040 |

### HEAT EXCHANGER SIZING<sup>12</sup>

|                                         |               |  |      |
|-----------------------------------------|---------------|--|------|
| TOTAL JACKET WATER CIRCUIT (JW)         | BTU/hr x 1000 |  | 3509 |
| TOTAL AUXILIARY WATER CIRCUIT (IC + OC) | BTU/hr x 1000 |  | 1150 |

### COOLING SYSTEM WITH ENGINE MOUNTED WATER PUMPS

|                                            |      |       |
|--------------------------------------------|------|-------|
| JACKET WATER PUMP MIN.DESIGN FLOW          | GPM  | 450   |
| JACKET WATER PUMP MAX.EXTERNAL RESTRICTION | psig | 15.80 |
| AUX WATER PUMP MIN. DESIGN FLOW            | GPM  | 79    |
| AUX WATER PUMP MAX. EXTERNAL RESTRICTION   | psig | 36.00 |

## Harvest 32-9

**L7044GSI S5**

WPI Aaron Countryman 5052589536 aaron.countryman@wpi.com

Gas Compression

### FUEL COMPOSITION

| <u>HYDROCARBONS:</u>     |         |  | <u>Mole or Volume %</u> | FUEL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Natural Gas |
|--------------------------|---------|--|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Methane                  | CH4     |  | 80.6                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Ethane                   | C2H6    |  | 1.11                    | FUEL WKI:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 107.2       |
| Propane                  | C3H8    |  | 0.25                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Iso-Butane               | I-C4H10 |  | 0.032                   | FUEL SLHV (BTU/ft3):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 754.6       |
| Normal Butane            | N-C4H10 |  | 0.271                   | FUEL SLHV (MJ/Nm3):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 29.67       |
| Iso-Pentane              | I-C5H12 |  | 0.003                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Normal Pentane           | N-C5H12 |  | 0                       | FUEL LHV (BTU/ft3):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 768         |
| Hexane                   | C6H14   |  | 0                       | FUEL LHV (MJ/Nm3):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30.2        |
| Heptane                  | C7H16   |  | 0                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Ethene                   | C2H4    |  | 0                       | FUEL HHV (BTU/ft3):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 849.55      |
| Propene                  | C3H6    |  | 0                       | FUEL HHV (MJ/Nm3):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 33.41       |
| SUM HYDROCARBONS         |         |  | 82.59                   | FUEL DENSITY (SG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.74        |
|                          |         |  |                         | WOBBE (BTU/ft3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 985.3       |
|                          |         |  |                         | WOBBE (MJ/Nm3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 38.74       |
| <u>NON-HYDROCARBONS:</u> |         |  |                         | Standard Conditions per ASTM D3588-91 [60°F and 14.696psia] and ISO 6976:1996-02-01[25, V(0;101.325)]. Based on the fuel composition, supply pressure and temperature, liquid hydrocarbons may be present in the fuel. No liquid hydrocarbons are allowed in the fuel. The fuel must not contain any liquid water. Waukesha recommends both of the following:<br>1) Dew point of the fuel gas to be at least 20°F (11°C) below the measured temperature of the gas at the inlet of the engine fuel regulator.<br>2) A fuel filter separator to be used on all fuels except commercial quality natural gas. Refer to the 'Fuel and Lubrication' section of 'Technical Data' or contact the Waukesha Application Engineering Department for additional information on fuels, or LHV and WKI* calculations.<br>* Trademark of INNIO Waukesha Gas Engines Inc. |             |
| Nitrogen                 | N2      |  | 0.32                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Oxygen                   | O2      |  | 0                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Helium                   | He      |  | 0                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Carbon Dioxide           | CO2     |  | 17.941                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Carbon Monoxide          | CO      |  | 0                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Hydrogen                 | H2      |  | 0                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Water Vapor              | H2O     |  | 0                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| TOTAL FUEL               |         |  | 100.53                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |

### FUEL CONTAMINANTS

Total Sulfur Compounds 0 % volume Total Sulfur Compounds 0 µg/BTU

*Calculated fuel contaminant analysis will depend on the entered fuel composition.*

Fuel Composition does not add to 100% --- analysis may be inaccurate.  
No water or hydrocarbon condensates are allowed in the engine. Requires liquids removal.

## Harvest 32-9

WPI Aaron Countryman 5052589536 aaron.countryman@wpi.com

## L7044GSI S5

Gas Compression

### NOTES

1. All data is based on engines with standard configurations unless noted otherwise.
2. Power rating is adjusted for fuel, site altitude, and site air inlet temperature, in accordance with ISO 3046/1 with tolerance of  $\pm 3\%$ .
3. Fuel consumption is presented in accordance with ISO 3046/1 with a tolerance of  $-0 / +5\%$  at maximum rating. Fuel flow calculation based on fuel LHV and fuel consumption with a tolerance of  $-0/+5\%$ . For sizing piping and fuel equipment, it is recommended to include the 5% tolerance.
4. Heat rejection tolerances are  $\pm 30\%$  for radiation, and  $\pm 8\%$  for jacket water, lube oil, intercooler, and exhaust energy.
5. Emission levels for engines with Waukesha supplied 3-way catalyst are given at catalyst outlet flange. For all other engine models, emission levels are given at engine exhaust outlet flange prior to any after treatment. Values are based on a new engine operating at indicated site conditions, and adjusted to the specified timing and air/fuel ratio at rated load. Catalyst out emission levels represent emission levels the catalyst is sized to achieve. Manual adjustment may be necessary to achieve compliance as catalyst/engine age. Catalyst-out emission levels are valid for the duration of the engine warranty. Emissions are at an absolute humidity of 75 grains H<sub>2</sub>O/lb (10.71 g H<sub>2</sub>O/kg) of dry air. Emission levels may vary subject to instrumentation, measurement, ambient conditions, fuel quality, and engine variation. Engine may require adjustment on-site to meet emission values, which may affect engine performance and heat output. NO<sub>x</sub>, CO, THC, NMHC, CO<sub>2</sub>, and CO<sub>2e</sub> emission levels are listed as a not to exceed limit, all other emission levels are estimated. CO<sub>2</sub> emissions based on EPA Federal Register/Vol. 74, No. 209/Friday, October 30, 2009 Rules and Regulations 56398, 56399 (3) Tier 3 Calculation Methodology, Equation C-5.
6. Air flow is based on undried air with a tolerance of  $\pm 7\%$ .
7. Exhaust temperature given at engine exhaust outlet flange with a tolerance of  $\pm 50^{\circ}\text{F}$  ( $28^{\circ}\text{C}$ ).
8. Exhaust gas mass flow value is based on a "wet basis" with a tolerance of  $\pm 7\%$ .
9. Inlet air restrictions based on full rated engine load. Exhaust backpressure based on 178.1 PSI BMEP and 1200 RPM. Refer to the engine specification section of Waukesha's standard technical data for more information.
10. Cooling circuit capacity, lube oil capacity, and engine dry weight values are typical.
11. Fuel must conform to Waukesha's "Gaseous Fuel Specification" S7884-7 or most current version. Fuel may require treatment to meet current fuel specification.
12. Heat exchanger sizing values given as the maximum heat rejection of the circuit, with applied tolerances and an additional 5% reserve factor.
13. Fuel volume flow calculation in english units is based on 100% relative humidity of the fuel gas at standard conditions of 60°F and 14.696 psia (29.92 inches of mercury; 101.325 kPa).
14. Fuel volume flow calculation in metric units is based on 100% relative humidity of the fuel gas at a combustion temperature of 25°C and metering conditions of 0°C and 101.325 kPa (14.696 psia; 29.92 inches of mercury). This is expressed as [25, V(0;101.325)].
15. Engine sound data taken with the microphone at 1 m (3.3 ft) from the side of the engine at the approximate front-to-back centerline. Microphone height was at intake manifold level. Engine sound pressure data may be different at front, back and opposite side locations. Exhaust sound data taken with microphone 1 meter (3.3 ft) away and 1 meter (3.3 ft) to the side of the exhaust outlet.
16. Due to variation between test conditions and final site conditions, such as exhaust configuration and background sound level, sound pressure levels under site conditions may be different than those tabulated above.
17. Cooling system design flow is based on minimum allowable cooling system flow. Cooling system maximum external restriction is defined as the allowable restriction at the minimum cooling system flow.
18. Continuous Power Rating: The highest load and speed that can be applied 24 hours per day, seven days per week, 365 days per year except for normal maintenance at indicated ambient reference conditions and fuel. If there is any overload available, it is shown in the power rating section and is available for two hours in every 24 hour period.
19. emPact emission compliance available for entire range of operable fuels; however, fuel system and/or O<sub>2</sub> set point may need to be adjusted in order to maintain compliance. VHP emPact particulate emissions measured as condensable PM<sub>2.5</sub> per 40 CFR Part 1065 gravimetric reference method.
20. In cold ambient temperatures, heating of the engine jacket water, lube oil and combustion air may be required. See Waukesha Technical Data.
21. Available Turndown Speed Range refers to the constant torque speed range available. Reduced power may be available at speeds outside of this range. Contact application engineering.

### SPECIAL REQUIREMENTS

- Requires option code 2200 for 700-850 BTU/ft<sup>3</sup> (27.5 - 33.4 MJ/m<sup>3</sup>) fuel system.



**Quote Number:** 20250729\_01\_MM\_Harvest Midstream\_MS

**Date:** 7/29/2025

**Expiration Date:** 8/28/2025

**Customer Detail** Harvest Midstream  
**Contact:** Monica Smith  
[\(505\)947-1852](tel:(505)947-1852)  
[msmith@harvestmidstream.com](mailto:msmith@harvestmidstream.com)

**Description:** RT-2415-T Catalysts

**EMIT Contact:** Mikaela Moore  
Inside Sales Representative  
(307)752-3691  
[mmoore@emittechnologies.com](mailto:mmoore@emittechnologies.com)

# Catalyst Performance

## Driver

Make: Waukesha  
Model: 7044  
Horsepower: 1456  
RPM: 1200  
Compression Ratio: 9.7:1  
Exhaust Flow Rate: 6321  
Exhaust Temperature: 1047  
Reference: EngCalc  
Fuel: Natural Gas  
Annual Operating Hours: 8760

## Uncontrolled Emissions Data

|           | <u>g/bhp-hr</u> | <u>lb/hr</u> | <u>Tons/Year</u> |
|-----------|-----------------|--------------|------------------|
| NOx:      | 12.50           | 40.12        | 175.74           |
| CO:       | 10.80           | 34.67        | 151.84           |
| NMHC:     | 0.03            | 0.09         | 0.41             |
| HCHO      | 0.05            | 0.16         | 0.70             |
| NMNEHC    | 0.01            | 0.04         | 0.20             |
| THC       | 0.60            | 1.93         | 8.44             |
| Oxygen %: | 8.70%           |              |                  |

## Catalyst Element

Model: RT-2415-T  
Catalyst Type: NSCR  
Substrate Type: Brazed  
Element Size: Rectangle, 24" x 15"  
Element Quantity: 3

## Post Catalyst Emissions Data

|      | <u>g/bhp-hr</u> | <u>lb/hr</u> | <u>Tons/Year</u> |
|------|-----------------|--------------|------------------|
| NOx: | 0.50            | 1.60         | 7.03             |
| CO:  | 0.60            | 1.93         | 8.44             |
| VOC: | 0.70            | 2.25         | 9.84             |

Catalyst Temperature: 950\* F

# Product Pricing (Lead Time: 10-14 Days)

|                                                   | Price    | Quantity     | Extended Price |
|---------------------------------------------------|----------|--------------|----------------|
| 1 <b>RT-2415-T</b> , Rectangle 24" x 15" Catalyst | \$ 3,210 | 3            | \$ 9,630       |
|                                                   |          | <b>Total</b> | \$ 9,630       |

# Warranty

EMIT Technologies, Inc. warrants that the goods supplied will be free from defects in workmanship by EMIT Technologies, Inc. for a period of one (1) year from date of shipment. EMIT Technologies, Inc. will not be responsible for any defects which result from improper use, neglect, failure to properly maintain or which are attributable to defects, errors or omissions in any drawings, specifications, plans or descriptions, whether written or oral, supplied to EMIT Technologies, Inc. by Buyer.

Shipment - Promised shipping dates are approximate and are not guaranteed and are from the point of manufacture. EMIT Technologies, Inc. will not be liable for any loss, damage or delay in manufacture or delivery resulting from any cause beyond its control including, but not limited to a period equal to the time lost by reason of that delay. All products will be crated as per best practice to prevent any damage during shipment. Unless otherwise specified, Buyer will pay for any special packing and shipping requirements. Acceptance of goods by common carrier constitutes delivery to Buyer. EMIT Technologies, Inc. shall not be responsible for goods damaged or lost in transit.

# Payment Terms

Credit is extended to purchaser for net 30 time period. If payment is not received in the net 30 timeframe, interest on the unpaid balance will accrue at a rate of 1.5% per month from the invoice date.

Proposals with a project value of \$100,000 or greater, and 60 days or greater time to completion, will require an advance payment of 30% of the total value. The advance payment will be invoiced to the customer upon receipt of the customer's purchase order. Advance payment is due 30 days after the date of the invoice. If payment is not received in the net 30 timeframe, interest on the unpaid balance will accrue at the rate of 1.5% per month from the invoice date. Failure to pay this invoice may delay completion of the project outlined in this proposal.

Upon cancellation of an order once submittal of a Purchase Order has occurred, the customer will pay a 10% fee and for any orders that have either been processed or have an age of >30 days a 25% fee will be charged to the customer.

# Warranty & Performance

EMIT Technologies, Inc. warrants that the goods supplied will be free from defects in workmanship by EMIT Technologies, Inc. for a period of one (1) year from date of shipment. EMIT Technologies, Inc. will not be responsible for any defects which result from improper use, neglect, failure to properly maintain or which are attributable to defects, errors or omissions in any drawings, specifications, plans or descriptions, whether written or oral, supplied to EMIT Technologies, Inc. by Buyer.

Catalyst performance using an EMIT Air/Fuel ratio controller is dependent upon properly defined set-points, variable with engine and fuel gas composition. Air/fuel ratio controller performance is guaranteed, but not limited, to fuel gas with an HHV content of 1400 BTU/SCF.

Catalyst performance will be guaranteed for a period of 2 years from installation, or 17,000 operating hours, whichever comes first. The catalyst shall be operated with an automatic air/fuel ratio controller. The performance guarantee shall not cover the effects of excessive ash masking due to operation at low load, improper engine maintenance, or inappropriate lubrication oil. The performance guarantee shall not cover the effects of continuous engine misfires (cylinder or ignition) exposing the catalyst to excessive exothermic reaction temperatures.

Unless otherwise stated the exhaust temperature operating range at the converter inlet is 600°F minimum and 1150°F maximum.

If a high temperature shut down switch is not installed, thermal deactivation of catalyst at temperatures above 1300 °F is not covered.

The catalyst conversion efficiencies (% reduction) will be guaranteed for engine loads of 50 to 100 percent.

Engine lubrication oil shall contain less than 0.6% ash (by weight) with a maximum allowable specific oil consumption of 0.01 gal/bhp-hr. The maximum ash loading on the catalyst shall be limited to 350 g/m<sup>3</sup>. Phosphorous and zinc additives are limited to 0.03% (by weight).

The catalyst must not be exposed to the following known poisoning agents, including: iron, nickel, sodium, chromium, arsenic, zinc, lead, phosphorous, silicon, potassium, magnesium, copper, tin, and mercury. Total poison concentrations in the gas are limited to 0.3 ppm.

Shipment - Promised shipping dates are approximate and are not guaranteed and are from the point of manufacture. EMIT Technologies, Inc. will not be liable for any loss, damage or delay in manufacture or delivery resulting from any cause beyond its control including, but not limited to a period equal to the time lost by reason of that delay. All products will be crated as per best practice to prevent any damage during shipment. Unless otherwise specified, Buyer will pay for any special packing and shipping requirements. Acceptance of goods by common carrier constitutes delivery to Buyer. EMIT Technologies, Inc. shall not be responsible for goods damaged or lost in transit.

# Payment Terms

**Terms:** Credit is extended to purchaser for net 30 time period. If payment is not received in the net 30 timeframe, interest on the unpaid balance will accrue at a rate of 1.5% per month from the invoice date.

**Advance Payment Requirement:** Proposals with a project value of \$100,000 or greater, and 60 days or greater time to completion, will require an advance payment of 30% of the total value. The advance payment will be invoiced to the customer upon receipt of the customer's purchase order. Advance payment is due 30 days after the date of the invoice. If payment is not received in the net 30 timeframe, interest on the unpaid balance will accrue at the rate of 1.5% per month from the invoice date. Failure to pay this invoice may delay completion of the project outlined in this proposal.

**Order Cancellation Terms:** Upon cancellation of an order once submittal of a Purchase Order has occurred, the customer will pay a 10% fee and for any orders that have either been processed or have an age of >30 days a 25% fee will be charged to the customer.

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES<sup>a</sup>  
(SCC 2-02-002-54)

| Pollutant                                   | Emission Factor<br>(lb/MMBtu) <sup>b</sup><br>(fuel input) | Emission Factor<br>Rating |
|---------------------------------------------|------------------------------------------------------------|---------------------------|
| Criteria Pollutants and Greenhouse Gases    |                                                            |                           |
| NO <sub>x</sub> <sup>c</sup> 90 - 105% Load | 4.08 E+00                                                  | B                         |
| NO <sub>x</sub> <sup>c</sup> <90% Load      | 8.47 E-01                                                  | B                         |
| CO <sup>c</sup> 90 - 105% Load              | 3.17 E-01                                                  | C                         |
| CO <sup>c</sup> <90% Load                   | 5.57 E-01                                                  | B                         |
| CO <sub>2</sub> <sup>d</sup>                | 1.10 E+02                                                  | A                         |
| SO <sub>2</sub> <sup>e</sup>                | 5.88 E-04                                                  | A                         |
| TOC <sup>f</sup>                            | 1.47 E+00                                                  | A                         |
| Methane <sup>g</sup>                        | 1.25 E+00                                                  | C                         |
| VOC <sup>h</sup>                            | 1.18 E-01                                                  | C                         |
| PM10 (filterable) <sup>i</sup>              | 7.71 E-05                                                  | D                         |
| PM2.5 (filterable) <sup>i</sup>             | 7.71 E-05                                                  | D                         |
| PM Condensable <sup>j</sup>                 | 9.91 E-03                                                  | D                         |
| Trace Organic Compounds                     |                                                            |                           |
| 1,1,2,2-Tetrachloroethane <sup>k</sup>      | <4.00 E-05                                                 | E                         |
| 1,1,2-Trichloroethane <sup>k</sup>          | <3.18 E-05                                                 | E                         |
| 1,1-Dichloroethane                          | <2.36 E-05                                                 | E                         |
| 1,2,3-Trimethylbenzene                      | 2.30 E-05                                                  | D                         |
| 1,2,4-Trimethylbenzene                      | 1.43 E-05                                                  | C                         |
| 1,2-Dichloroethane                          | <2.36 E-05                                                 | E                         |
| 1,2-Dichloropropane                         | <2.69 E-05                                                 | E                         |
| 1,3,5-Trimethylbenzene                      | 3.38 E-05                                                  | D                         |
| 1,3-Butadiene <sup>k</sup>                  | 2.67E-04                                                   | D                         |
| 1,3-Dichloropropene <sup>k</sup>            | <2.64 E-05                                                 | E                         |
| 2-Methylnaphthalene <sup>k</sup>            | 3.32 E-05                                                  | C                         |
| 2,2,4-Trimethylpentane <sup>k</sup>         | 2.50 E-04                                                  | C                         |
| Acenaphthene <sup>k</sup>                   | 1.25 E-06                                                  | C                         |

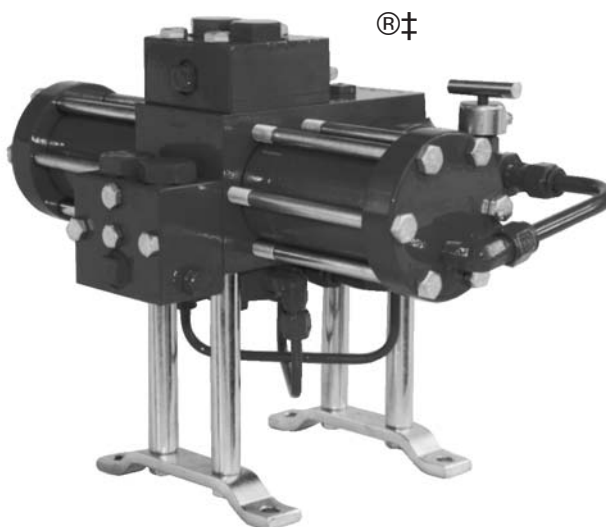
Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN  
 ENGINES<sup>a</sup>  
 (SCC 2-02-002-53)

| Pollutant                                   | Emission Factor<br>(lb/MMBtu) <sup>b</sup><br>(fuel input) | Emission Factor<br>Rating |
|---------------------------------------------|------------------------------------------------------------|---------------------------|
| Criteria Pollutants and Greenhouse Gases    |                                                            |                           |
| NO <sub>x</sub> <sup>c</sup> 90 - 105% Load | 2.21 E+00                                                  | A                         |
| NO <sub>x</sub> <sup>c</sup> <90% Load      | 2.27 E+00                                                  | C                         |
| CO <sup>c</sup> 90 - 105% Load              | 3.72 E+00                                                  | A                         |
| CO <sup>c</sup> <90% Load                   | 3.51 E+00                                                  | C                         |
| CO <sub>2</sub> <sup>d</sup>                | 1.10 E+02                                                  | A                         |
| SO <sub>2</sub> <sup>e</sup>                | 5.88 E-04                                                  | A                         |
| TOC <sup>f</sup>                            | 3.58 E-01                                                  | C                         |
| Methane <sup>g</sup>                        | 2.30 E-01                                                  | C                         |
| VOC <sup>h</sup>                            | 2.96 E-02                                                  | C                         |
| PM10 (filterable) <sup>i,j</sup>            | 9.50 E-03                                                  | E                         |
| PM2.5 (filterable) <sup>j</sup>             | 9.50 E-03                                                  | E                         |
| PM Condensable <sup>k</sup>                 | 9.91 E-03                                                  | E                         |
| Trace Organic Compounds                     |                                                            |                           |
| 1,1,2,2-Tetrachloroethane <sup>l</sup>      | 2.53 E-05                                                  | C                         |
| 1,1,2-Trichloroethane <sup>l</sup>          | <1.53 E-05                                                 | E                         |
| 1,1-Dichloroethane                          | <1.13 E-05                                                 | E                         |
| 1,2-Dichloroethane                          | <1.13 E-05                                                 | E                         |
| 1,2-Dichloropropane                         | <1.30 E-05                                                 | E                         |
| 1,3-Butadiene <sup>l</sup>                  | 6.63 E-04                                                  | D                         |
| 1,3-Dichloropropene <sup>l</sup>            | <1.27 E-05                                                 | E                         |
| Acetaldehyde <sup>l,m</sup>                 | 2.79 E-03                                                  | C                         |
| Acrolein <sup>l,m</sup>                     | 2.63 E-03                                                  | C                         |
| Benzene <sup>l</sup>                        | 1.58 E-03                                                  | B                         |
| Butyr/isobutyraldehyde                      | 4.86 E-05                                                  | D                         |
| Carbon Tetrachloride <sup>l</sup>           | <1.77 E-05                                                 | E                         |

|                     |                    |                   |                  |
|---------------------|--------------------|-------------------|------------------|
| Description:        | 32-9 CDP           | Company:          | HARVESTMIDSTREAM |
| Field:              |                    | WorkOrder:        |                  |
| Meter Number:       |                    | GPAMethod:        | GPA2286          |
| Analysis Date/Time: | 5/21/2025 10:55:24 | Sampled By:       | David Whitehorn  |
| Date Sampled:       | 5/16/2025          | Analyst Initials: | PK               |
| Sample Temperature: | 72                 | Instrument:       | SRI8610          |
| Sample Pressure:    | 911                |                   |                  |

#### GRIGlyCalc Information

| Component                   | Mol%     | Normalized Weight % |
|-----------------------------|----------|---------------------|
| Carbon Dioxide              | 17.9405  | 37.0320             |
| Hydrogen Sulfide            | N/R      | 0.0000              |
| Nitrogen                    | 0.0321   | 0.0422              |
| Methane                     | 80.5991  | 60.6467             |
| Ethane                      | 1.1098   | 1.5652              |
| Propane                     | 0.2503   | 0.5177              |
| Iso-Butane                  | 0.0322   | 0.0878              |
| n-Butane                    | 0.0271   | 0.0739              |
| Iso-Pentane                 | 0.0033   | 0.0112              |
| n-Pentane                   | 0.0023   | 0.0078              |
| Cyclopentane                | 0.0001   | 0.0003              |
| n-Hexane                    | 0.0004   | 0.0017              |
| Cyclohexane                 | 0.0002   | 0.0008              |
| Other Hexanes               | 0.0011   | 0.0052              |
| Heptanes                    | 0.0003   | 0.0014              |
| Methylcyclohexane           | 0.0004   | 0.0018              |
| 2 2 4 Trimethylpentane      | 0.0000   | 0.0000              |
| Benzene                     | 0.0001   | 0.0004              |
| Toluene                     | 0.0002   | 0.0009              |
| Ethylbenzene                | 0.0000   | 0.0000              |
| Xylenes                     | 0.0001   | 0.0005              |
| C8+ Heavies                 | 0.0005   | 0.0027              |
| Subtotal                    | 100.0001 |                     |
| Oxygen                      | N/R      |                     |
| Subtotal                    | 100.0001 | 100.0000            |
| Calculated Molecular Weight |          | 21.3211             |



#### PUMPS AVAILABLE:

| “PV” SERIES GLYCOL PUMPS |              |                     |         |                  |      |
|--------------------------|--------------|---------------------|---------|------------------|------|
| Catalog Number           | Model Number | Capacity Gal. / Hr. |         | Working Pressure |      |
|                          |              | Min.                | Max. ** | Min.             | Max. |
| GAA                      | 315 PV       | 3                   | 13      | 100              | 1500 |
| GAD                      | 1715 PV      | 8                   | 40      | 300              | 1500 |
| GAB                      | 4015 PV      | 12                  | 40      | 300              | 1500 |
| GAF                      | 9015 PV      | 27                  | 90      | 300              | 1500 |
| GAH                      | 21015 PV     | 66                  | 210     | 400              | 1500 |
| GAJ                      | 45015 PV     | 166                 | 450     | 400              | 1500 |

| “SC” SERIES GLYCOL PUMPS |              |                     |         |                  |      |
|--------------------------|--------------|---------------------|---------|------------------|------|
| Catalog Number           | Model Number | Capacity Gal. / Hr. |         | Working Pressure |      |
|                          |              | Min.                | Max. ** | Min.             | Max. |
| GAC                      | 2015 SC*     | 8                   | 20      | 100              | 500  |
| GAG                      | 5015 SC*     | 12                  | 50      | 100              | 500  |
| GAI                      | 10015 SC*    | 22                  | 100     | 100              | 500  |
| GAK                      | 20015 SC*    | 60                  | 200     | 100              | 500  |

\*\*Maximum output is affected by system pressure drops. See system operation parameter for maximum output curves.

NOTE: To order a Pump with Viton O Rings add 1 to Catalog number. Example: To order GAA with Viton O Rings, specify: GAA1.

MAXIMUM DESIGN PRESSURE FOR P.V. AND S.C. MODELS IS 1500 psig

#### APPLICATIONS:

- Circulating pump for gas glycol dehydrators
- Circulating pump for gas amine desulphurizers

#### FEATURES:

- Eliminates absorber liquid level controls
- No auxiliary power supply required
- Low gas consumption
- Completely sealed system prevents loss glycol
- No springs or toggles, only two moving assemblies
- Hydraulic “cushioned” check valves with removable seats of hardened stainless steel

#### OPERATION:

Materials for the vital working parts have been selected for greatest wear resistance. These materials include stainless steel, hard chrome plating, satellite, nylon and teflon. Moving “O” Ring seals are compounded specifically for ethylene glycol service. A complete operational check is given each pump after assembly.

“O” Ring sealed check valve darts are standard in all except the model 315 PV. Teflon sealed darts are available. Capsule type ball checks are used in the 315 PV and are available for 1715 PV, 2015 SC and 4015 PV.

\*These pumps are designed for operating pressures between 100 and 500 psig maximum design pressure for all models is 1500 psig.

‡Configuration of Glycol Pump is a trademark of Kimray, Inc.

Oil and Gas  
 Production Equipment  
 J. Envertek, Inc.  
 4401 East Main Street  
 Farmington, NM 87401  
 505/326-1151  
 FAX 505/325-0317



VIA FACSIMILE  
 Fax No. (801) 534-7760  
 Page: 1

August 19, 1994

Mr. Lee Bauerle  
 Williams Field Services  
 Salt Lake City, UT

The following table shows the stack emissions at maximum firing conditions for the dehydrators noted:

| Dehydrator  | NO <sub>x</sub><br>#/Day | CO<br>#/Day | Fuel<br>\$/CEH | Total Stack<br>Gas \$/CEH | Stack<br>Ht. Ft. | Stack Dia<br>Inches | Stack<br>Temp. F | Stack<br>Velocity FPM |
|-------------|--------------------------|-------------|----------------|---------------------------|------------------|---------------------|------------------|-----------------------|
| J2P10M11109 | 0.86                     | 0.17        | 357            | 10010                     | 18'-8"           | 8                   | 600              | 5.1                   |
| J2P10M749   | 1.03                     | 0.21        | 429            | 12012                     | 19'-1"           | 10                  | 600              | 6.1                   |
| J2P12M11109 | 0.86                     | 0.17        | 357            | 10010                     | 18'-8"           | 8                   | 600              | 5.1                   |
| J2P12M749   | 1.03                     | 0.21        | 429            | 12012                     | 19'-1"           | 10                  | 600              | 6.1                   |
| J2P20M11109 | 1.03                     | 0.21        | 429            | 12012                     | 19'-1"           | 10                  | 600              | 6.1                   |

Please call me if you need additional information.

Sincerely,

Frosty Heath

FH/nb

5928 U.S. Highway 64  
Farmington, NM 87401

# InFab

INDUSTRIAL FABRICATION

Office: (505)632-2200  
Fax: (505)632-8070

July 22, 1998

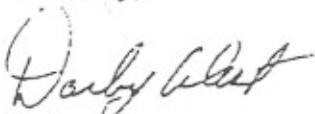
Mr. Bobby Myers  
Williams Field Services  
Environmental Affairs  
295 Chipeta Way  
P O Box 58900  
Salt Lake City, UT 84158-0900

The table shown below gives the stack emissions for our larger dehydrators:

| Unit Description | SO lb/day | NO <sub>x</sub> lb/Day | CO lb/Day | Fuel SCFH | Total Organic Comp. Lb/d | Stack Ht. Ft. | Stack Dia inches | Stack Temp °F | Stack Velocity |
|------------------|-----------|------------------------|-----------|-----------|--------------------------|---------------|------------------|---------------|----------------|
| 10 MM LP         | .01       | .27                    | .43       | 659       | .13                      | 10'           | 8                | 600           | 5.1            |
| 10 MM HP         | .01       | .27                    | .43       | 659       | .13                      | 10'           | 10               | 600           | 6.1            |
| 12 MM LP         | .02       | .49                    | .78       | 1208      | .23                      | 10'           | 8                | 600           | 5.1            |
| 12 MM HP         | .02       | .49                    | .78       | 1208      | .23                      | 10'           | 10               | 600           | 6.1            |
| 15 MM            | .02       | .54                    | .85       | 1318      | .25                      | 10'           | 8                | 600           | 5.1            |
| 20 MM LP         | .02       | .67                    | 1.07      | 1648      | .31                      | 10'           | 8                | 600           | 5.1            |
| 20 MM HP         | .02       | .67                    | 1.07      | 1648      | .31                      | 10'           | 12               | 600           | 6.1            |

If you need any additional information please call me.

Sincerely,



Darby West  
VP Engineering

TABLE 2-4. OIL AND GAS PRODUCTION OPERATIONS AVERAGE EMISSION FACTORS (kg/hr/source)

| Equipment Type      | Service <sup>a</sup> | Emission Factor (kg/hr/source) <sup>b</sup> |
|---------------------|----------------------|---------------------------------------------|
| Valves              | Gas                  | 4.5E-03                                     |
|                     | Heavy Oil            | 8.4E-06                                     |
|                     | Light Oil            | 2.5E-03                                     |
|                     | Water/Oil            | 9.8E-05                                     |
| Pump seals          | Gas                  | 2.4E-03                                     |
|                     | Heavy Oil            | NA                                          |
|                     | Light Oil            | 1.3E-02                                     |
|                     | Water/Oil            | 2.4E-05                                     |
| Others <sup>c</sup> | Gas                  | 8.8E-03                                     |
|                     | Heavy Oil            | 3.2E-05                                     |
|                     | Light Oil            | 7.5E-03                                     |
|                     | Water/Oil            | 1.4E-02                                     |
| Connectors          | Gas                  | 2.0E-04                                     |
|                     | Heavy Oil            | 7.5E-06                                     |
|                     | Light Oil            | 2.1E-04                                     |
|                     | Water/Oil            | 1.1E-04                                     |
| Flanges             | Gas                  | 3.9E-04                                     |
|                     | Heavy Oil            | 3.9E-07                                     |
|                     | Light Oil            | 1.1E-04                                     |
|                     | Water/Oil            | 2.9E-06                                     |
| Open-ended lines    | Gas                  | 2.0E-03                                     |
|                     | Heavy Oil            | 1.4E-04                                     |
|                     | Light Oil            | 1.4E-03                                     |
|                     | Water/Oil            | 2.5E-04                                     |

<sup>a</sup>Water/Oil emission factors apply to water streams in oil service with a water content greater than 50%, from the point of origin to the point where the water content reaches 99%. For water streams with a water content greater than 99%, the emission rate is considered negligible.

<sup>b</sup>These factors are for total organic compound emission rates (including non-VOC's such as methane and ethane) and apply to light crude, heavy crude, gas plant, gas production, and off shore facilities. "NA" indicates that not enough data were available to develop the indicated emission factor.

<sup>c</sup>The "other" equipment type was derived from compressors, diaphragms, drains, dump arms, hatches, instruments, meters, pressure relief valves, polished rods, relief valves, and vents. This "other" equipment type should be applied for any equipment type other than connectors, flanges, open-ended lines, pumps, or valves.

Table A-1 to Subpart A of Part 98—Global Warming Potentials

## GLOBAL WARMING POTENTIALS

[100-Year Time Horizon]

| Name                                  | CAS No.     | Chemical formula                                                                   | Global warming potential<br>(100 yr.) |
|---------------------------------------|-------------|------------------------------------------------------------------------------------|---------------------------------------|
| Carbon dioxide                        | 124-38-9    | CO <sub>2</sub>                                                                    | 1                                     |
| Methane                               | 74-82-8     | CH <sub>4</sub>                                                                    | <sup>a</sup> 25                       |
| Nitrous oxide                         | 10024-97-2  | N <sub>2</sub> O                                                                   | <sup>a</sup> 298                      |
| HFC-23                                | 75-46-7     | CHF <sub>3</sub>                                                                   | <sup>a</sup> 14,800                   |
| HFC-32                                | 75-10-5     | CH <sub>2</sub> F <sub>2</sub>                                                     | <sup>a</sup> 675                      |
| HFC-41                                | 593-53-3    | CH <sub>3</sub> F                                                                  | <sup>a</sup> 92                       |
| HFC-125                               | 354-33-6    | C <sub>2</sub> HF <sub>5</sub>                                                     | <sup>a</sup> 3,500                    |
| HFC-134                               | 359-35-3    | C <sub>2</sub> H <sub>2</sub> F <sub>4</sub>                                       | <sup>a</sup> 1,100                    |
| HFC-134a                              | 811-97-2    | CH <sub>2</sub> FCF <sub>3</sub>                                                   | <sup>a</sup> 1,430                    |
| HFC-143                               | 430-66-0    | C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>                                       | <sup>a</sup> 353                      |
| HFC-143a                              | 420-46-2    | C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>                                       | <sup>a</sup> 4,470                    |
| HFC-152                               | 624-72-6    | CH <sub>2</sub> FCH <sub>2</sub> F                                                 | 53                                    |
| HFC-152a                              | 75-37-6     | CH <sub>3</sub> CHF <sub>2</sub>                                                   | <sup>a</sup> 124                      |
| HFC-161                               | 353-36-6    | CH <sub>3</sub> CH <sub>2</sub> F                                                  | 12                                    |
| HFC-227ea                             | 431-89-0    | C <sub>3</sub> HF <sub>7</sub>                                                     | <sup>a</sup> 3,220                    |
| HFC-236cb                             | 677-56-5    | CH <sub>2</sub> FCF <sub>2</sub> CF <sub>3</sub>                                   | 1,340                                 |
| HFC-236ea                             | 431-63-0    | CHF <sub>2</sub> CHFCF <sub>3</sub>                                                | 1,370                                 |
| HFC-236fa                             | 690-39-1    | C <sub>3</sub> H <sub>2</sub> F <sub>6</sub>                                       | <sup>a</sup> 9,810                    |
| HFC-245ca                             | 679-86-7    | C <sub>3</sub> H <sub>3</sub> F <sub>5</sub>                                       | <sup>a</sup> 693                      |
| HFC-245fa                             | 460-73-1    | CHF <sub>2</sub> CH <sub>2</sub> CF <sub>3</sub>                                   | 1,030                                 |
| HFC-365mfc                            | 406-58-6    | CH <sub>3</sub> CF <sub>2</sub> CH <sub>2</sub> CF <sub>3</sub>                    | 794                                   |
| HFC-43-10mee                          | 138495-42-8 | CF <sub>3</sub> CFHCFHCF <sub>2</sub> CF <sub>3</sub>                              | <sup>a</sup> 1,640                    |
| Sulfur hexafluoride                   | 2551-62-4   | SF <sub>6</sub>                                                                    | <sup>a</sup> 22,800                   |
| Trifluoromethyl sulphur pentafluoride | 373-80-8    | SF <sub>5</sub> CF <sub>3</sub>                                                    | 17,700                                |
| Nitrogen trifluoride                  | 7783-54-2   | NF <sub>3</sub>                                                                    | 17,200                                |
| PFC-14 (Perfluoromethane)             | 75-73-0     | CF <sub>4</sub>                                                                    | <sup>a</sup> 7,390                    |
| PFC-116 (Perfluoroethane)             | 76-16-4     | C <sub>2</sub> F <sub>6</sub>                                                      | <sup>a</sup> 12,200                   |
| PFC-218 (Perfluoropropane)            | 76-19-7     | C <sub>3</sub> F <sub>8</sub>                                                      | <sup>a</sup> 8,830                    |
| Perfluorocyclopropane                 | 931-91-9    | C-C <sub>3</sub> F <sub>6</sub>                                                    | 17,340                                |
| PFC-3-1-10 (Perfluorobutane)          | 355-25-9    | C <sub>4</sub> F <sub>10</sub>                                                     | <sup>a</sup> 8,860                    |
| PFC-318 (Perfluorocyclobutane)        | 115-25-3    | C-C <sub>4</sub> F <sub>8</sub>                                                    | <sup>a</sup> 10,300                   |
| PFC-4-1-12 (Perfluoropentane)         | 678-26-2    | C <sub>5</sub> F <sub>12</sub>                                                     | <sup>a</sup> 9,160                    |
| PFC-5-1-14 (Perfluorohexane, FC-72)   | 355-42-0    | C <sub>6</sub> F <sub>14</sub>                                                     | <sup>a</sup> 9,300                    |
| PFC-9-1-18                            | 306-94-5    | C <sub>10</sub> F <sub>18</sub>                                                    | 7,500                                 |
| HCFE-235da2 (Isoflurane)              | 26675-46-7  | CHF <sub>2</sub> OCHClCF <sub>3</sub>                                              | 350                                   |
| HFE-43-10pccc (H-Galden 1040x, HG-11) | E1730133    | CHF <sub>2</sub> OCF <sub>2</sub> OC <sub>2</sub> F <sub>4</sub> OCHF <sub>2</sub> | 1,870                                 |

|                                                 |             |                                                                                        |        |
|-------------------------------------------------|-------------|----------------------------------------------------------------------------------------|--------|
| HFE-125                                         | 3822-68-2   | CHF <sub>2</sub> OCF <sub>3</sub>                                                      | 14,900 |
| HFE-134 (HG-00)                                 | 1691-17-4   | CHF <sub>2</sub> OCHF <sub>2</sub>                                                     | 6,320  |
| HFE-143a                                        | 421-14-7    | CH <sub>3</sub> OCF <sub>3</sub>                                                       | 756    |
| HFE-227ea                                       | 2356-62-9   | CF <sub>3</sub> CHFOCF <sub>3</sub>                                                    | 1,540  |
| HFE-236ca12 (HG-10)                             | 78522-47-1  | CHF <sub>2</sub> OCF <sub>2</sub> OCHF <sub>2</sub>                                    | 2,800  |
| HFE-236ea2 (Desflurane)                         | 57041-67-5  | CHF <sub>2</sub> OCHF <sub>2</sub> CF <sub>3</sub>                                     | 989    |
| HFE-236fa                                       | 20193-67-3  | CF <sub>3</sub> CH <sub>2</sub> OCF <sub>3</sub>                                       | 487    |
| HFE-245cb2                                      | 22410-44-2  | CH <sub>3</sub> OCF <sub>2</sub> CF <sub>3</sub>                                       | 708    |
| HFE-245fa1                                      | 84011-15-4  | CHF <sub>2</sub> CH <sub>2</sub> OCF <sub>3</sub>                                      | 286    |
| HFE-245fa2                                      | 1885-48-9   | CHF <sub>2</sub> OCH <sub>2</sub> CF <sub>3</sub>                                      | 659    |
| HFE-254cb2                                      | 425-88-7    | CH <sub>3</sub> OCF <sub>2</sub> CHF <sub>2</sub>                                      | 359    |
| HFE-263fb2                                      | 460-43-5    | CF <sub>3</sub> CH <sub>2</sub> OCH <sub>3</sub>                                       | 11     |
| HFE-329mcc2                                     | 134769-21-4 | CF <sub>3</sub> CF <sub>2</sub> OCF <sub>2</sub> CHF <sub>2</sub>                      | 919    |
| HFE-338mcf2                                     | 156053-88-2 | CF <sub>3</sub> CF <sub>2</sub> OCH <sub>2</sub> CF <sub>3</sub>                       | 552    |
| HFE-338pcc13 (HG-01)                            | 188690-78-0 | CHF <sub>2</sub> OCF <sub>2</sub> CF <sub>2</sub> OCHF <sub>2</sub>                    | 1,500  |
| HFE-347mcc3 (HFE-7000)                          | 375-03-1    | CH <sub>3</sub> OCF <sub>2</sub> CF <sub>2</sub> CF <sub>3</sub>                       | 575    |
| HFE-347mcf2                                     | 171182-95-9 | CF <sub>3</sub> CF <sub>2</sub> OCH <sub>2</sub> CHF <sub>2</sub>                      | 374    |
| HFE-347pcf2                                     | 406-78-0    | CHF <sub>2</sub> CF <sub>2</sub> OCH <sub>2</sub> CF <sub>3</sub>                      | 580    |
| HFE-356mec3                                     | 382-34-3    | CH <sub>3</sub> OCF <sub>2</sub> CHF <sub>2</sub> CF <sub>3</sub>                      | 101    |
| HFE-356pcc3                                     | 160620-20-2 | CH <sub>3</sub> OCF <sub>2</sub> CF <sub>2</sub> CHF <sub>2</sub>                      | 110    |
| HFE-356pcf2                                     | 50807-77-7  | CHF <sub>2</sub> CH <sub>2</sub> OCF <sub>2</sub> CHF <sub>2</sub>                     | 265    |
| HFE-356pcf3                                     | 35042-99-0  | CHF <sub>2</sub> OCH <sub>2</sub> CF <sub>2</sub> CHF <sub>2</sub>                     | 502    |
| HFE-365mcf3                                     | 378-16-5    | CF <sub>3</sub> CF <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>                       | 11     |
| HFE-374pc2                                      | 512-51-6    | CH <sub>3</sub> CH <sub>2</sub> OCF <sub>2</sub> CHF <sub>2</sub>                      | 557    |
| HFE-449s1 (HFE-7100)                            | 163702-07-6 | C <sub>4</sub> F <sub>9</sub> OCH <sub>3</sub>                                         | 297    |
| Chemical blend                                  | 163702-08-7 | (CF <sub>3</sub> ) <sub>2</sub> CFCF <sub>2</sub> OCH <sub>3</sub>                     |        |
| HFE-569sf2 (HFE-7200)                           | 163702-05-4 | C <sub>4</sub> F <sub>9</sub> OC <sub>2</sub> H <sub>5</sub>                           | 59     |
| Chemical blend                                  | 163702-06-5 | (CF <sub>3</sub> ) <sub>2</sub> CFCF <sub>2</sub> OC <sub>2</sub> H <sub>5</sub>       |        |
| Sevoflurane (HFE-347mmz1)                       | 28523-86-6  | CH <sub>2</sub> FOCH(CF <sub>3</sub> ) <sub>2</sub>                                    | 345    |
| HFE-356mm1                                      | 13171-18-1  | (CF <sub>3</sub> ) <sub>2</sub> CHOCH <sub>3</sub>                                     | 27     |
| HFE-338mmz1                                     | 26103-08-2  | CHF <sub>2</sub> OCH(CF <sub>3</sub> ) <sub>2</sub>                                    | 380    |
| (Octafluorotetramethyl-ene) hydroxymethyl group | NA          | X-(CF <sub>2</sub> ) <sub>4</sub> CH(OH)-X                                             | 73     |
| HFE-347mmy1                                     | 22052-84-2  | CH <sub>3</sub> OCF(CF <sub>3</sub> ) <sub>2</sub>                                     | 343    |
| Bis(trifluoromethyl)-methanol                   | 920-66-1    | (CF <sub>3</sub> ) <sub>2</sub> CHOH                                                   | 195    |
| 2,2,3,3,3-pentafluoropropanol                   | 422-05-9    | CF <sub>3</sub> CF <sub>2</sub> CH <sub>2</sub> OH                                     | 42     |
| PPFMIE (HT-70)                                  | NA          | CF <sub>3</sub> OCF(CF <sub>3</sub> )CF <sub>2</sub> OCF <sub>2</sub> OCF <sub>3</sub> | 10,300 |

<sup>a</sup>The GWP for this compound is different than the GWP in the version of Table A-1 to subpart A of part 98 published on October 30, 2009.

**Table C-1 to Subpart C of Part 98—Default CO<sub>2</sub> Emission Factors and High Heat Values for Various Types of Fuel**

**DEFAULT CO<sub>2</sub> EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL**

| <b>Fuel type</b>                             | <b>Default high heat value</b> | <b>Default CO<sub>2</sub> emission factor</b> |
|----------------------------------------------|--------------------------------|-----------------------------------------------|
| <b>Coal and coke</b>                         | <b>mmBtu/short ton</b>         | <b>kg CO<sub>2</sub>/mmBtu</b>                |
| Anthracite                                   | 25.09                          | 103.69                                        |
| Bituminous                                   | 24.93                          | 93.28                                         |
| Subbituminous                                | 17.25                          | 97.17                                         |
| Lignite                                      | 14.21                          | 97.72                                         |
| Coal Coke                                    | 24.80                          | 113.67                                        |
| Mixed (Commercial sector)                    | 21.39                          | 94.27                                         |
| Mixed (Industrial coking)                    | 26.28                          | 93.90                                         |
| Mixed (Industrial sector)                    | 22.35                          | 94.67                                         |
| Mixed (Electric Power sector)                | 19.73                          | 95.52                                         |
| <b>Natural gas</b>                           | <b>mmBtu/scf</b>               | <b>kg CO<sub>2</sub>/mmBtu</b>                |
| (Weighted U.S. Average)                      | $1.026 \times 10^{-3}$         | 53.06                                         |
| <b>Petroleum products</b>                    | <b>mmBtu/gallon</b>            | <b>kg CO<sub>2</sub>/mmBtu</b>                |
| Distillate Fuel Oil No. 1                    | 0.139                          | 73.25                                         |
| Distillate Fuel Oil No. 2                    | 0.138                          | 73.96                                         |
| Distillate Fuel Oil No. 4                    | 0.146                          | 75.04                                         |
| Residual Fuel Oil No. 5                      | 0.140                          | 72.93                                         |
| Residual Fuel Oil No. 6                      | 0.150                          | 75.10                                         |
| Used Oil                                     | 0.138                          | 74.00                                         |
| Kerosene                                     | 0.135                          | 75.20                                         |
| Liquefied petroleum gases (LPG) <sup>1</sup> | 0.092                          | 61.71                                         |
| Propane <sup>1</sup>                         | 0.091                          | 62.87                                         |
| Propylene <sup>2</sup>                       | 0.091                          | 67.77                                         |
| Ethane <sup>1</sup>                          | 0.068                          | 59.60                                         |
| Ethanol                                      | 0.084                          | 68.44                                         |
| Ethylene <sup>2</sup>                        | 0.058                          | 65.96                                         |
| Isobutane <sup>1</sup>                       | 0.099                          | 64.94                                         |
| Isobutylene <sup>1</sup>                     | 0.103                          | 68.86                                         |
| Butane <sup>1</sup>                          | 0.103                          | 64.77                                         |
| Butylene <sup>1</sup>                        | 0.105                          | 68.72                                         |
| Naphtha (<401 deg F)                         | 0.125                          | 68.02                                         |
| Natural Gasoline                             | 0.110                          | 66.88                                         |
| Other Oil (>401 deg F)                       | 0.139                          | 76.22                                         |
| Pentanes Plus                                | 0.110                          | 70.02                                         |

|                                                  |                          |                           |
|--------------------------------------------------|--------------------------|---------------------------|
| Petrochemical Feedstocks                         | 0.125                    | 71.02                     |
| Petroleum Coke                                   | 0.143                    | 102.41                    |
| Special Naphtha                                  | 0.125                    | 72.34                     |
| Unfinished Oils                                  | 0.139                    | 74.54                     |
| Heavy Gas Oils                                   | 0.148                    | 74.92                     |
| Lubricants                                       | 0.144                    | 74.27                     |
| Motor Gasoline                                   | 0.125                    | 70.22                     |
| Aviation Gasoline                                | 0.120                    | 69.25                     |
| Kerosene-Type Jet Fuel                           | 0.135                    | 72.22                     |
| Asphalt and Road Oil                             | 0.158                    | 75.36                     |
| Crude Oil                                        | 0.138                    | 74.54                     |
| Other fuels—solid                                | mmBtu/short ton          | kg CO <sub>2</sub> /mmBtu |
| Municipal Solid Waste                            | 9.95 <sup>3</sup>        | 90.7                      |
| Tires                                            | 28.00                    | 85.97                     |
| Plastics                                         | 38.00                    | 75.00                     |
| Petroleum Coke                                   | 30.00                    | 102.41                    |
| Other fuels—gaseous                              | mmBtu/scf                | kg CO <sub>2</sub> /mmBtu |
| Blast Furnace Gas                                | 0.092 × 10 <sup>-3</sup> | 274.32                    |
| Coke Oven Gas                                    | 0.599 × 10 <sup>-3</sup> | 46.85                     |
| Propane Gas                                      | 2.516 × 10 <sup>-3</sup> | 61.46                     |
| Fuel Gas <sup>4</sup>                            | 1.388 × 10 <sup>-3</sup> | 59.00                     |
| Biomass fuels—solid                              | mmBtu/short ton          | kg CO <sub>2</sub> /mmBtu |
| Wood and Wood Residuals (dry basis) <sup>5</sup> | 17.48                    | 93.80                     |
| Agricultural Byproducts                          | 8.25                     | 118.17                    |
| Peat                                             | 8.00                     | 111.84                    |
| Solid Byproducts                                 | 10.39                    | 105.51                    |
| Biomass fuels—gaseous                            | mmBtu/scf                | kg CO <sub>2</sub> /mmBtu |
| Landfill Gas                                     | 0.485 × 10 <sup>-3</sup> | 52.07                     |
| Other Biomass Gases                              | 0.655 × 10 <sup>-3</sup> | 52.07                     |
| Biomass Fuels—Liquid                             | mmBtu/gallon             | kg CO <sub>2</sub> /mmBtu |
| Ethanol                                          | 0.084                    | 68.44                     |
| Biodiesel (100%)                                 | 0.128                    | 73.84                     |
| Rendered Animal Fat                              | 0.125                    | 71.06                     |
| Vegetable Oil                                    | 0.120                    | 81.55                     |

<sup>1</sup>The HHV for components of LPG determined at 60 °F and saturation pressure with the exception of ethylene.

<sup>2</sup>Ethylene HHV determined at 41 °F (5 °C) and saturation pressure.

<sup>3</sup>Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.

<sup>4</sup>Reporters subject to subpart X of this part that are complying with §98.243(d) or subpart Y of this part may only use the default HHV and the default CO<sub>2</sub> emission factor for fuel gas combustion under the conditions prescribed in §98.243(d)(2)(i) and (d)(2)(ii) and §98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C-5) or Tier 4.

<sup>5</sup>Use the following formula to calculate a wet basis HHV for use in Equation C-1:  $HHV_w = ((100 - M)/100) * HHV_d$  where  $HHV_w$  = wet basis HHV, M = moisture content (percent) and  $HHV_d$  = dry basis HHV from Table C-1.

[78 FR 71950, Nov. 29, 2013]

 [Back to Top](#)

**Table C-2 to Subpart C of Part 98—Default CH<sub>4</sub> and N<sub>2</sub>O Emission Factors for Various Types of Fuel**

| Fuel type                                                                         | Default CH <sub>4</sub> emission factor (kg CH <sub>4</sub> /mmBtu) | Default N <sub>2</sub> O emission factor (kg N <sub>2</sub> O/mmBtu) |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|
| Coal and Coke (All fuel types in Table C-1)                                       | $1.1 \times 10^{-02}$                                               | $1.6 \times 10^{-03}$                                                |
| Natural Gas                                                                       | $1.0 \times 10^{-03}$                                               | $1.0 \times 10^{-04}$                                                |
| Petroleum (All fuel types in Table C-1)                                           | $3.0 \times 10^{-03}$                                               | $6.0 \times 10^{-04}$                                                |
| Fuel Gas                                                                          | $3.0 \times 10^{-03}$                                               | $6.0 \times 10^{-04}$                                                |
| Municipal Solid Waste                                                             | $3.2 \times 10^{-02}$                                               | $4.2 \times 10^{-03}$                                                |
| Tires                                                                             | $3.2 \times 10^{-02}$                                               | $4.2 \times 10^{-03}$                                                |
| Blast Furnace Gas                                                                 | $2.2 \times 10^{-05}$                                               | $1.0 \times 10^{-04}$                                                |
| Coke Oven Gas                                                                     | $4.8 \times 10^{-04}$                                               | $1.0 \times 10^{-04}$                                                |
| Biomass Fuels—Solid (All fuel types in Table C-1, except wood and wood residuals) | $3.2 \times 10^{-02}$                                               | $4.2 \times 10^{-03}$                                                |
| Wood and wood residuals                                                           | $7.2 \times 10^{-03}$                                               | $3.6 \times 10^{-03}$                                                |
| Biomass Fuels—Gaseous (All fuel types in Table C-1)                               | $3.2 \times 10^{-03}$                                               | $6.3 \times 10^{-04}$                                                |
| Biomass Fuels—Liquid (All fuel types in Table C-1)                                | $1.1 \times 10^{-03}$                                               | $1.1 \times 10^{-04}$                                                |

Note: Those employing this table are assumed to fall under the IPCC definitions of the “Energy Industry” or “Manufacturing Industries and Construction”. In all fuels except for coal the values for these two categories are identical. For coal combustion, those who fall within the IPCC “Energy Industry” category may employ a value of 1g of CH<sub>4</sub>/mmBtu.

# Section 8

## Map(s)

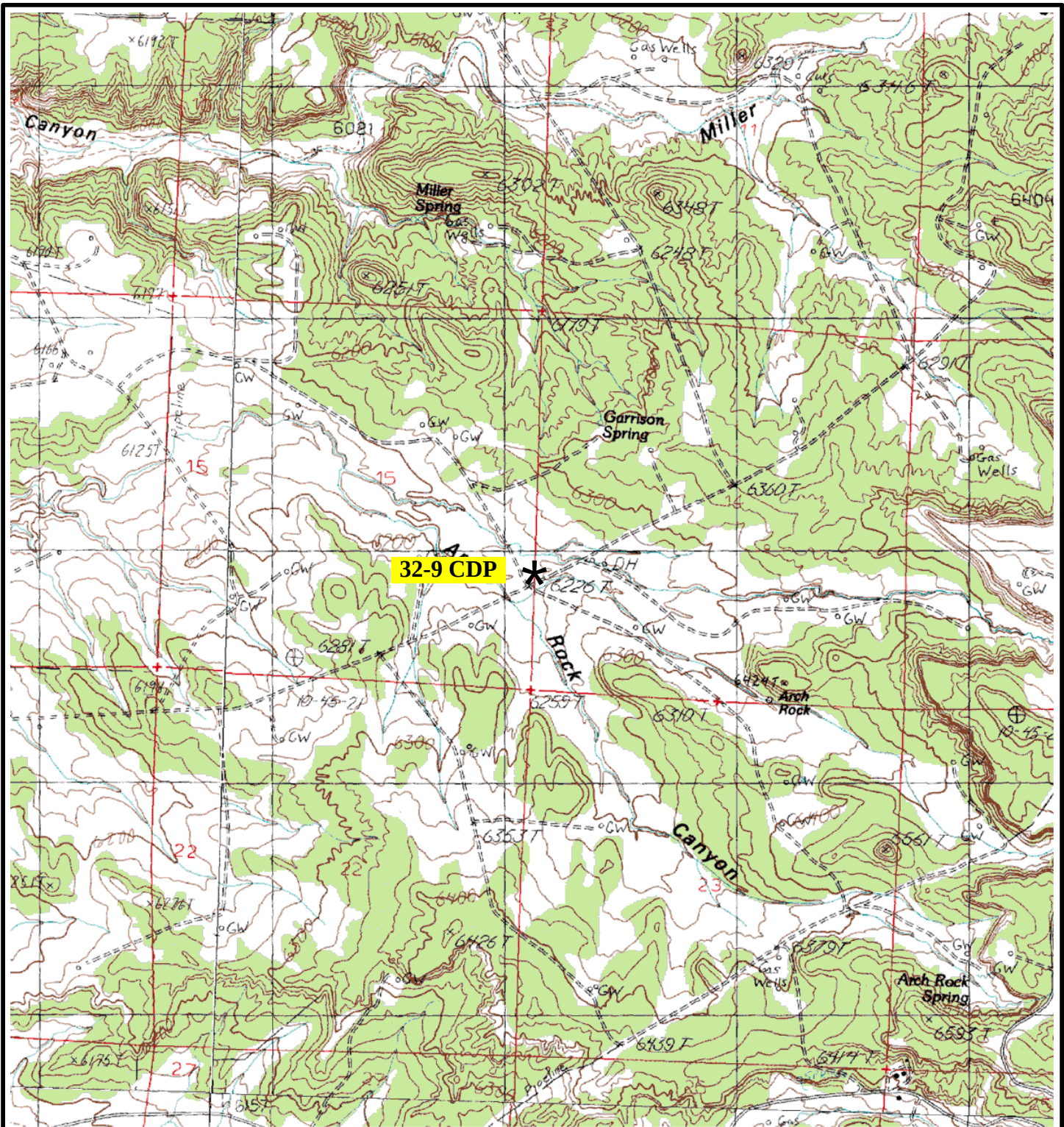
---

**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                                      |                                                    |

---

A topographic map is provided in this section. Please see the following page.



Source: USGS Cedar Hill and Mount Nebo, NM Quadrangles

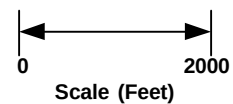


**Figure 1 Site Vicinity / Topographic Map**  
**32-9 CDP Compressor Station**  
 Sections 14 & 15, Township 31N Range 10W  
 San Juan County, New Mexico

# Section 9

## Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)

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

---

☐ **I have read the AQB "Guidelines for Public Notification for Air Quality Permit Applications"**

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

---

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

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

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

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

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

Landowners around the 32-9 CDP were identified using the San Juan County Assessor's Office website. Table 1 identifies the land owners within 100 feet of the station who received public notice letters. As there is no further identification on the website, it is assumed the federal land surrounding the facility is owned by the Bureau of Land Management (BLM).

**Table 1**

| Land Owners Within 100 Feet of 32-9 CDP Receiving Public Notice Letters |                           |
|-------------------------------------------------------------------------|---------------------------|
| Bennett Richard E Trustees                                              | Bureau of Land Management |
| USA                                                                     |                           |

Table 2 identifies the counties, municipalities and tribes located within ten miles of the 32-9 CDP that received public notice letters.

**Table 2**

| Counties, Municipalities & Tribes<br>Within 10 Miles of 32-9 CDP | Public Notice Letter Sent To |
|------------------------------------------------------------------|------------------------------|
| Counties<br>San Juan                                             | County Clerk                 |
| Municipalities<br>Aztec                                          | City Clerk                   |
| Indian Tribes<br>None                                            | NA                           |

Note that though the Southern Ute Indian Reservation is located within 10 miles of the 32-9 CDP, it is located in Colorado, not New Mexico.

Documentation for the newspaper ads, posting notices, and public service announcement request are also provided in this section.



Harvest Four Corners, LLC  
1755 Arroyo Drive  
Bloomfield, NM 87413  
Phone: 505/632-4600  
Fax: 505/209632-4782  
harvestmidstream.com

**CERTIFIED MAIL 7021 0950 0000 2267 9909**

October 17, 2025

San Juan County Clerk  
100 South Oliver Drive, Suite 200  
Aztec, New Mexico 87410

Dear Madam/Sir,

Harvest Four Corners, LLC announces the submittal of an application to the New Mexico Environment Department to revise the air quality permit for its compressor station known as the 32-9 Central Delivery Point (CDP). The expected date of application submittal to the Air Quality Bureau is on or near October 24, 2025.

The exact location of the facility, known as the 32-9 Central Delivery Point, is latitude 36.8953° and longitude -107.8611°. The approximate location of this facility is approximately 9 miles northeast of Aztec, New Mexico. From Aztec, drive north on Hwy 550 to mile marker 164 (Hart Canyon Road), turn right on CR 2770 and drive 2.8 miles (to Lat-B-3 pipe marker), turn left and drive 1.2 miles (to H-10 Loop pipe marker), turn right and drive approximately 3 miles, the site is on left side of the road.

The proposed modifications include the following: add catalytic convertors to four of the existing Waukesha 7042GL engines, replace one Waukesha 7042GL engine with one Waukesha 7044GSI engine (with a catalytic convertor), add one new Waukesha 7044GSI (with a catalytic convertor), add two dehydrators, add pneumatic controllers and pumps, modify startup, shutdown and maintenance emissions, and remove malfunction emissions.

The estimated maximum quantities of any regulated air contaminants will be as follows in pounds per hour and tons per year and may change slightly during the course of the Department's review:

| Pollutant:                                                       | Pounds per hour | Tons per year |
|------------------------------------------------------------------|-----------------|---------------|
| Nitrogen Oxides (NO <sub>x</sub> )                               | 22              | 96            |
| Carbon Monoxide (CO)                                             | 12              | 51            |
| Volatile Organic Compounds (VOC)                                 | 18              | 91            |
| Particulate Matter (PM)                                          | 1               | 5             |
| Particulate Matter less than 10 um diameter (PM <sub>10</sub> )  | 1               | 5             |
| Particulate Matter less than 10 um diameter (PM <sub>2.5</sub> ) | 1               | 5             |
| Total sum of all Hazardous Air Pollutants (HAPs)                 | 4               | 17            |
| Green House Gas Emissions as Total CO <sub>2</sub> e             | N/A             | 54,038        |

The standard and maximum operating schedules for the station will be 24 hours per day, 7 days per 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.

### **Atención**

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

Sincerely,

Monica Smith  
Environmental Specialist  
Harvest Four Corners, LLC  
1755 Arroyo Drive  
Bloomfield, NM 87413

### **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](mailto: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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Phone: 505/632-4600  
Fax: 505/209632-4782  
harvestmidstream.com

**CERTIFIED MAIL 7021 0950 0000 2267 9893**

October 17, 2025

Bureau of Land Management  
6251 College Blvd., Suite A  
Farmington, New Mexico 87402

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Monica Smith  
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7021 0950 0000 2267 9879

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

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Aztec, NM 87410

Certified Mail Fee \$5.30

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

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.78

Total Postage and Fees \$6.08

Sent To

Aztec City Clerk  
201 West Chaco Street  
Aztec, NM 87410

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7021 0950 0000 2267 9886

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

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Palm Desert, CA 92260

Certified Mail Fee \$5.30

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

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.78

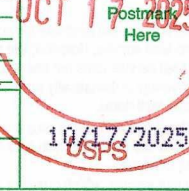
Total Postage and Fees \$6.08

Sent To

Bennett Richard Trustees  
39905 Via Scene, Apt 204  
Palm Desert, CA 92260

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7021 0950 0000 2267 9893

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

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Farmington, NM 87402

Certified Mail Fee \$5.30

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

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.78

Total Postage and Fees \$6.08

Sent To

Bureau of Land Management  
6251 College Blvd., Suite A  
Farmington, NM 87402

PS Form 3800, April 2015 PSN 7530-02-000-9047

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Certified Mail Fee \$5.30

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☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

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Postage \$0.78

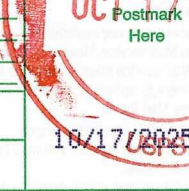
Total Postage and Fees \$6.08

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San Juan County Clerk  
100 South Oliver Drive, Suite 200  
Aztec, NM 87410

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

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Albuquerque, NM 87109

Certified Mail Fee \$5.30

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

☐ Return Receipt (hardcopy) \$0.00

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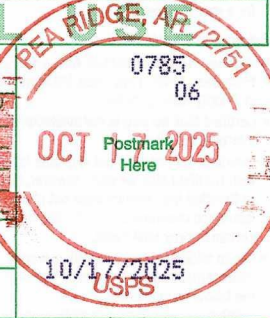
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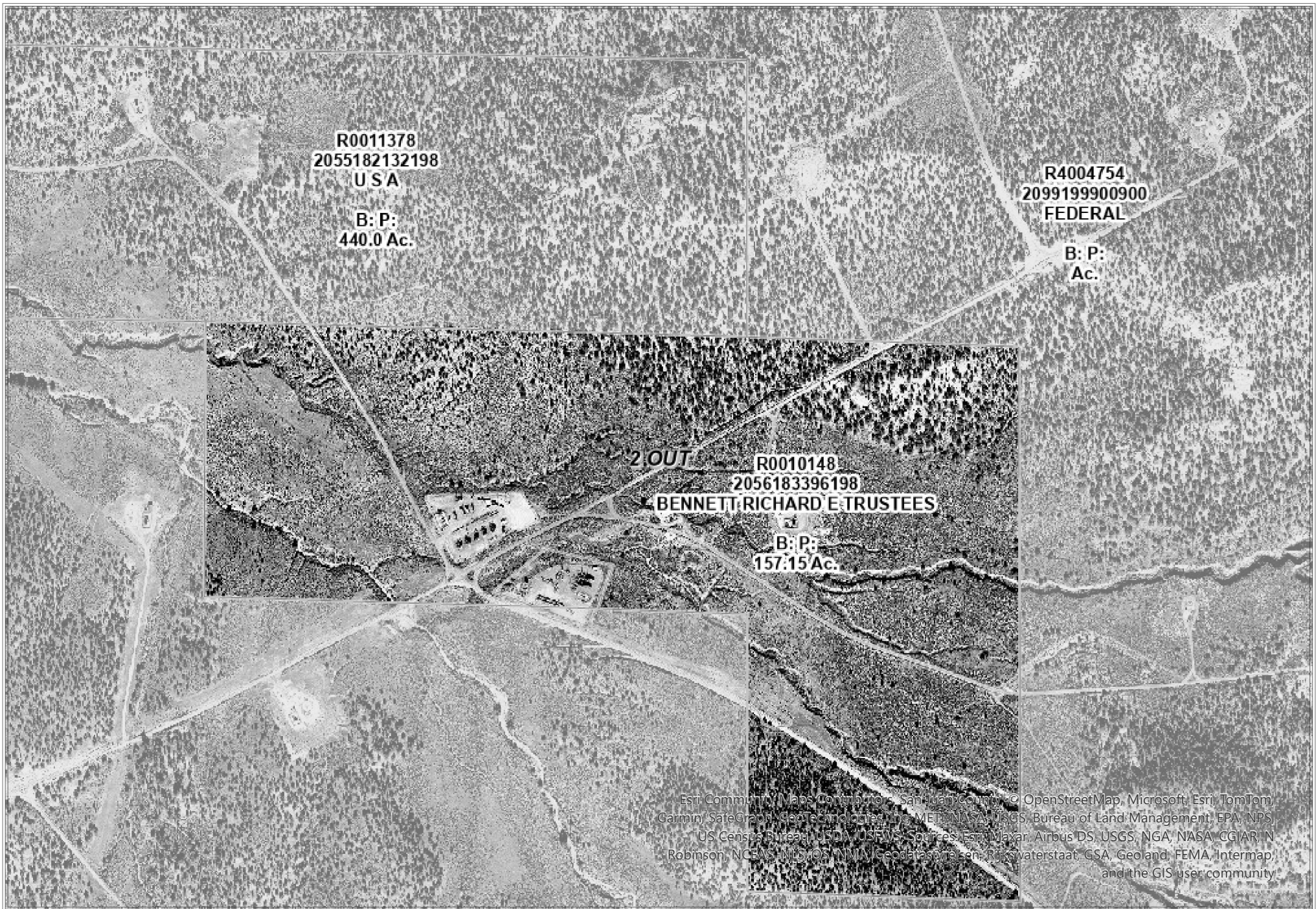
USA  
100 Sun Avenue NE, Suite 330  
Albuquerque, NM 87109

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



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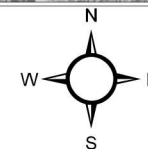
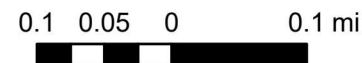


The San Juan County Assessor's Office assumes no liability for the accuracy of the information provided and it is not intended to be used as a survey.

The data contained herein was derived from the most current information available at the time of publishing. While the San Juan County Assessor's Office makes every effort to provide accurate and complete information, the data contained on this map is subject to change.

The San Juan County Assessor's Office provides no warranty, expressed or implied, as to the accuracy, reliability or completeness of the furnished data.

Date: 9/25/2025



San Juan County  
 Assessor's Office  
 100 S. Oliver Dr.  
 Aztec, NM 87410  
 505-334-6157

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## NOTICE OF AIR QUALITY PERMIT APPLICATION

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The proposed modifications include the following: add catalytic converters to four of the existing Waukesha 7042GL engines, replace one Waukesha 7042GL engine with one Waukesha 7044GSI engine (with a catalytic converter), add one new Waukesha 7044GSI (with a catalytic converter), add two dehydrators, add pneumatic controllers and pumps, modify startup, shutdown and maintenance emissions, and remove malfunction emissions.

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| TOTAL SUM OF ALL HAZARDOUS AIR POLLUTANTS (HAPs)                 | 4               | 17            |
| GREEN HOUSE GAS EMISSIONS AS TOTAL CO <sub>2e</sub>              | N/A             | 54,038        |

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

The owner and operator of the facility is: Harvest Four Corners, LLC, 1755 Arroyo Drive, Bloomfield, New Mexico 87413.

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

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

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

### Atención

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### Notice of Non-Discrimination

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

Private Legals

Bradford J. Oldfield, District Judge of the Eleventh Judicial District Court of the State of New Mexico and the Seal of the District Court of said County, on 9/11/2025.

CLERK OF THE DISTRICT COURT

Published in Tri-City Record October 8, 15, 22, 2025

31271  
STATE OF NEW MEXICO  
IN THE PROBATE COURT  
SAN JUAN COUNTY

IN THE MATTER OF THE  
ESTATE OF Lillian A Roberts,  
DECEASED.  
No. 7544

**NOTICE TO CREDITORS**  
NOTICE IS HEREBY GIVEN that the undersigned has been appointed personal representative of the estate of the decedent. All persons having claims against the estate of the decedent are required to present their claims within four (4) months after the date of the first publication of any published notice to creditors or sixty (60) days after the date of mailing or other delivery of this notice, whichever is later, or the claims will be forever barred. Claims must be presented either to the undersigned personal

Private Legals

representative at the address listed below, or filed with the Probate Court of San Juan County, New Mexico, located at the following address: 100 S. Oliver Ste 200, Aztec, NM 87410.

Dated: 10/07/2025

Edward A Horvat  
3101 W 2nd Ave  
Durango, CO 81301

Published in Tri-City Record  
Oct. 8, 15, 22, 2025

31340  
**Notice of Sale**

NOTICE IS HEREBY GIVEN that Armored Storage 4200 U.S. Highway 64, Kirtland, NM 87417 will sell at public auction to satisfy the Owner's lien the following:  
Nathan Ross  
17 Rd 6408  
Kirtland, NM 87417  
Misc. furniture, Suitcases, Décor, Tubs, and Misc. Cash only transactions at the address above. The auction to be held online at [storageauction.com](http://storageauction.com) November 1-13, 2025. Armored Storage may refuse any bid and may rescind any purchase up until the winning bidder takes possession of the personal property.

Private Legals

Published in Tri-City Record  
October 15 and 22, 2025

31414  
**REQUEST FOR PROPOSAL –  
AUDITING SERVICES FOR  
CH'OOOSHGAI COMMUNITY  
SCHOOL, INC.  
PO BOX 321,  
TOHATCHI, NM 87325**

Notice is hereby given that the Governing Board of Ch'oooshgai Community School, Inc., McKinley County, New Mexico, will receive proposals from Prospective Independent, CPA Accounting/Auditing firms for Single Audit in accordance with Government Audit, Uniform Guidance, for FY 2025-26.

RFP shall be labeled and filed with Ch'oooshgai Community School at: ½ mile E NM Hwy 491; PO Box 321; Tohatchi, New Mexico 87325; on or before October 30, 2025 at 12:00 pm MST. RFP can be hand delivered or mailed to Ch'oooshgai Community School at the above address. Any questions regarding the RFP project or proposals shall be directed to the Business Office at (505) 733-2730.

The Governing Board reserves the right to reject any or all RFPs.

Private Legals

Published in Tri-City Record  
October 20, 22, 24, 27, 2025

31418  
**REQUEST FOR PROPOSAL –  
LEGAL SERVICES FOR  
CH'OOOSHGAI COMMUNITY  
SCHOOL BOARD OF  
EDUCATION, INC.**

Notice is hereby given that the Ch'oooshgai Community School Board of Education, Inc., McKinley County, New Mexico, will receive proposals from Prospective Law Firms to provide LEGAL services for FY 2025-26.

RFP shall be labeled LEGAL SERVICES and filed with Ch'oooshgai Community School at: ½ mile E NM Hwy 491; PO Box 321 Tohatchi, New Mexico 87325; on or before October 30, 2025 at 12:00 pm MST. RFP can be hand delivered or mailed to Ch'oooshgai Community School at the above address. Any questions regarding the RFP project or proposals shall be directed to the Human Resources office at (505) 733-2725.

The Governing Board reserves the right to reject any or all RFPs.

Published in Tri-City Record  
October 20, 22, 24, 27, 2025

31430  
**Recovery Housing Program  
(RHP) Performance Report  
State of New Mexico/Housing  
New Mexico | (MFA)  
Reporting Period: October  
30, 2025**

Program Overview

The Recovery Housing Program (RHP), administered by Housing New Mexico | MFA, is a pilot initiative that began in 2020. The program's goal is to provide temporary supportive housing for low- to middle-income individuals impacted by substance use disorders (SUD). State of New Mexico entered into a contract with Housing New Mexico to oversee the development, implementation, distribution, and reporting of RHP activities and funds. As of the reporting period, Housing New Mexico has approved and awarded five (5) Recovery Housing projects.

Action Plan and Fund Allocation

Overview FY2020/FY2021  
Action Plan:

The FY2020/FY2021 Action Plan was approved and focused on the "Acquisition" of properties for use in temporary supportive housing for individuals impacted by substance use disorders (SUD). Housing New Mexico worked with the State's Learning Collaborative, but there were challenges in aligning the action plan and associated timelines with Housing New Mexico's HUD-approved RHP Action Plan. These discrepancies affected the ability to meet RHP expenditure deadlines.

**Method of Distribution:**  
The FY2020/FY2021 funding

Private Legals

was distributed through a competitive Request for Proposals (RFP) process. The total funds allocated for RHP projects are outlined below:

**RHP Grant / Allocation / Admin Fee / RHP Funds Available**  
B-20-RH-35-0001 / \$940,000.00 / \$47,000.00 / \$893,000.00  
B-21-RH-35-0001 / \$902,621.00 / \$45,131.05 / \$857,489.95  
B-22-RH-35-0001 / \$1,013,918.00 / \$50,695.90 / \$963,222.10  
B-23-RH-35-0001 / \$1,268,811.00 / \$63,440.55 / \$1,205,370.45  
B-24-RH-35-0001 / \$1,450,399.00 / \$72,519.95 / \$1,377,879.05  
B-25-RH-35-0001 / \$1,450,399.00 / \$72,519.95 / \$1,377,879.05

July 20, 2022

State of New Mexico received FY2022 funds and continued with the contract with Housing New Mexico for administration of RHP funds. Housing New Mexico updated the FY2022 Action Plan to include:  
• Remaining FY2020/FY2021 Funds  
• Add FY2022 Allocation  
• Update Action Plan to include all activities allowed under the RHP; and  
• Changed the method of distribution to an "open" Notice of Funding Availability (NOFA)

Housing New Mexico received 3 applications, 2 met the qualifications and scoring criteria and were awarded.

May 17, 2023 – New Awards

• **Hozho Center for Personal Enhancement**

• **Award:** \$969,499.00  
• **Project Description:** This project will create National Alliance for Recovery Residences (NARR) Level 2 recovery housing in Gallup, New Mexico, addressing the gap between a 30-day detox program and long-term housing. As of September 2025, 59.7% of the total award has been expended.

• **Crossroads for Women (CRFW)**

• **Award:** \$1,144,213.00  
• **Project Description:** The project supports the rehabilitation of a 30,000 sq. ft. facility previously purchased by CRFW, to serve individuals impacted by substance use disorder, with housing and services.

With the aforementioned awards, all RHP funds through FY2022 were allocated.

FY2023 Fund Distribution March 20, 2024

The State of New Mexico received FY2023 funds and continued its partnership with Housing New Mexico for the administration of RHP funds. Housing New Mexico prepared an Action Plan amendment that included the return of FY2022 funds from CRFW. This return

Private Legals

posed a challenge to meet the FY2022 expenditure deadline of 30%.

Details of FY2023 Funds:

• **FY2023 Allocation:**  
\$1,268,811.00  
• **Returned Award (CRFW):**  
\$1,144,213.00

**Notice of Funding Availability (NOFA)** was released on May 1, 2024, with minor updates to dates and timelines. Outreach efforts were also focused on rural areas of New Mexico, with collaboration from the Fletcher Group; a federally funded recovery housing technical support group.

July 17, 2024 – New Award

New Mexico Reentry Center

• **Award:** \$1,000,000.00  
• **Project Description:** The center serves low to moderate-income individuals impacted by substance use disorders, specifically focusing on opioid use disorders. RHP funds will be used to purchase or lease additional transitional housing, expanding services to support clients in their reintegration into the community. The center has assisted 250 individuals in its first three years, with this number growing to 650 in 2024. Approximately 70% of these clients have received supportive housing. In March of 2025, New Mexico Reentry Center finalized the purchase of a new sober living space to better serve their clients. Currently, New Mexico Reentry Center has assisted 68 individuals under the Recovery Housing program since January 2025. 58.1% of the total award has been expended to date.

October 30, 2024 – Annual Reporting

As of October 30, 2024, Housing New Mexico has awarded a total of \$3.7 million of New Mexico's RHP allocations to five approved recipients. After a period of 6 months, one of the awards was respectfully returned due to executive staff turnover experienced by the service provider.

Of the remaining four awards, one is fully drawn and has experienced a complete loss of their facility due to fire in January 2024. The project was at a point where the rehabilitation of a sixteen-unit multi-family property had completed 50% of the units to place in service. Now, they are working with the insurance company to settle their total loss claim and will repay funds to the RHP based on the amounts paid by the insurance, covering the superior mortgage first, then the balance to Housing New Mexico. Housing New Mexico is working to recapture the \$800,000 award and include these recaptured funds in an amended NOFA. Housing New Mexico intends to allocate all RHP funds by January 2026.

• **Hozho Center for Personal Development:** The acquisition

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| PARTICULATE MATTER (PM)                              | 1               | 5             |
| PARTICULATE MATTER LESS THAN 10 UM DIAMETER (PM10)   | 1               | 5             |
| PARTICULATE MATTER LESS THAN 2.5 UM DIAMETER (PM2.5) | 1               | 5             |
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| GREEN HOUSE GAS EMISSIONS AS TOTAL CO2E              | N/A             | 54,038        |

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A sign that reads "Closed due to federal government shutdown," is seen outside of the National Gallery of Art on the 6th day of the government shutdown, Oct. 6 in Washington.

## Heinrich, Luján back bill to protect federal contractors

Bill would provide back pay as well as other benefits

SOURCE NM STAFF REPORT

New Mexico Democratic U.S. Senators Martin Heinrich and Ben Ray Luján announced on Monday they had co-sponsored legislation backed by 31 Senate Democrats and sponsored by U.S. Sen. Tina Smith of Minnesota to protect federal contractors during the governmental shutdown.

"Republicans control the White House, the Senate, and the House, but they refuse to come to the table and work with Democrats to lower costs and health care premiums. And every day Trump keeps the government shut down, New Mexico working families suffer," Heinrich said in a statement. "I'm proud to introduce legislation that will help ensure New Mexicans are paid for the wages and benefits lost during Trump's manufactured crisis. Every hardworking New Mexican deserves access to affordable health care and the dignity of financial security."

According to a news release, the Fair Pay for Federal Contractors Act will provide federal contract workers, "including low-wage service workers" with back pay and restored paid-leave benefits if used; cover costs associated with backpay in amounts equal to their weekly compensation up to \$1,442; and require the Office of Federal Procurement Policy to submit a report on federal contractors accessing back pay.

"Federal contractors, like those from the Department of Energy and Department of Defense that are safeguarding our national security, should not miss a paycheck because of the Republican shutdown," Luján said in a statement. "These skilled workers are essential for our defense and innovation, and they deserve the same backpay protections as other federal employees. It's time to right this wrong, and I will fight to ensure that contractors are paid for what they have earned."

The bill also has been introduced in the U.S. House of Representatives, where it is sponsored by U.S. Rep. Ayanna Pressley (D-MA); New Mexico

Democratic U.S. Rep. Melanie Stansbury has signed on as a co-sponsor. The bill has endorsements from numerous unions, including the American Federation of State, County and Municipal Employees; the American Federation of Teachers; and the International Association of Machinists and Aerospace Workers.

"Through no fault of their own, many of these families faced the reality of missing payments on their mortgages, student loans, school tuition, car loans, health care premiums, daycare, interest fees, and so many other expenses," IAM Union International President Brian Bryant wrote to lawmakers in the House and Senate. "Today, they are looking down the barrel of a similar fate. Contract workers and their families should not suffer the consequences of a shutdown they had no hand in creating. Dedicated federal contract workers maintain the aircraft, vehicles and systems that keep our military mission-ready and our nation secure. Many live paycheck to paycheck and are among the first to feel the devastating impact of a government shutdown."

## Farmington man arrested and charged with 11th DWI

Open containers of 99 Cherries and Arizona Hard Iced Tea found in car

BY DEBRA MAYEUX  
TRI-CITY RECORD

Dusty Bryant Cook, 38, of Farmington, was charged Oct. 14 with aggravated DWI, a second-degree felony; resisting, evading or obstructing an officer; a misdemeanor; open container; a petty misdemeanor; and three other petty misdemeanor traffic offenses.

Farmington police reportedly found Cook at 4:34 p.m. "obstructing traffic" near East 20th Street and Brookside Drive, according to the statement of probable cause.

The white passenger



Dusty Bryant Cook

car reportedly blocked the roadway for "15 seconds" before turning "eastbound onto 20th going into the center left turn lane," the statement said.

Police followed the car and attempted a traffic stop, but Cook reportedly "swerved" in his lane and continued driving before pulling into the Smith's Grocery Store parking lot at 600 E. 20th St., court records said.

When police approached, Cook reportedly "appeared to be too confused and disoriented" to put the car in park. Officers reached in and took

the keys as Cook pressed the ignition button, according to the statement.

An officer opened the driver's side door and had Cook step out, at which point he "appeared unsteady on his feet."

He reportedly had a "bloody lower lip" and allegedly told police he had committed a "federal crime" and was "battered by 'vagabonds,'" court records state.

During a tow inventory, police found open containers of 99 Cherries and Arizona Hard Iced Tea.

Cook was taken to San Juan Regional Medical Center. Police obtained a warrant to draw his blood for testing.

He was later booked into the county jail and released the next day.

Cook's hearing is set for 8:30 a.m. Oct. 22 in Farmington Magistrate Court.

### NOTICE OF AIR QUALITY PERMIT APPLICATION

Harvest Four Corners, LLC announces the submittal of an application to the New Mexico Environment Department to revise the air quality permit for one of its natural gas compressor stations. The expected date of application submittal to the Air Quality Bureau is on or near October 24, 2025.

The exact location of the facility, known as the 32-9 Central Delivery Point, is latitude 36.8953° and longitude -107.8617°. The approximate location of this facility is approximately 9 miles northeast of Aztec, New Mexico. From Aztec, drive north on Hwy 550 to mile marker 164 (Hart Canyon Road), turn right on CR 2770 and drive 2.8 miles (to Lat-9-3 pipe marker), turn left and drive 1.2 miles (to H-10 Loop pipe marker), turn right and drive approximately 3 miles, the site is on left side of the road.

The proposed modifications include the following: add catalytic converters to four of the existing Waukesha 70426L engines, replace one Waukesha 70426L engine with one Waukesha 70446S engine (with a catalytic converter), add one new Waukesha 70446S (with a catalytic converter), add two dehydrators, add pneumatic controllers and pumps, modify startup, shutdown and maintenance emissions, and remove malfunction emissions.

The estimated maximum quantities of any regulated air contaminants will be as follows in pounds per hour and tons per year and may change slightly during the course of the Department's review:

| POLLUTANT:                                           | POUNDS PER HOUR | TONS PER YEAR |
|------------------------------------------------------|-----------------|---------------|
| NITROGEN OXIDES (NOx)                                | 22              | 96            |
| CARBON MONOXIDE (CO)                                 | 12              | 51            |
| VOLATILE ORGANIC COMPOUNDS (VOC)                     | 18              | 91            |
| PARTICULATE MATTER (PM)                              | 1               | 5             |
| PARTICULATE MATTER LESS THAN 10 UM DIAMETER (PM10)   | 1               | 5             |
| PARTICULATE MATTER LESS THAN 2.5 UM DIAMETER (PM2.5) | 1               | 5             |
| TOTAL SUM OF ALL HAZARDOUS AIR POLLUTANTS (HAPs)     | 4               | 17            |
| GREEN HOUSE GAS EMISSIONS AS TOTAL CO2E              | N/A             | 54,038        |

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

The owner and operator of the facility is: Harvest Four Corners, LLC, 1735 Arroyo Drive, Bloomfield, New Mexico 87413.

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 87505-1806. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

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

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

### Atención

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

### Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975; Title IX of the Education Amendments of 1972; and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Non-Discrimination Coordinator, NMED, 1901 St. Francis Dr., Suite M4050, P.O. Box 5469, Santa Fe, NM 87502. (505) 827-2855; [nd.coordinator@nem.gov](mailto:nd.coordinator@nem.gov). You may also visit our website at <https://www.nm.gov/non-employee-discrimination-complaint-page/> to learn how and where to file a complaint of discrimination.

# NOTICE

Harvest Four Corners, LLC announces the submittal of an application to the New Mexico Environment Department to revise the air quality permit for one of its natural gas compressor stations. The expected date of application submittal to the Air Quality Bureau is October 1, 2025.

The exact location of the facility, known as the 32-9 Central Delivery Point, is latitude 36.8953° and longitude -107.8611°. The approximate location of this facility is approximately 9 miles northeast of Aztec, New Mexico. From Aztec, drive north on Hwy 550 to mile marker 164 (Hart Canyon Road), turn right on CR 2770 and drive 2.8 miles (to Lat-B-3 pipe marker), turn left and drive 1.2 miles (to H-10 Loop pipe marker), turn right and drive approximately 3 miles, the site is on left side of the road.

The proposed modifications include the following: add catalytic convertors to four of the existing Waukesha 7042GL engines, replace one Waukesha 7042GL engine with one Waukesha 7044GSI engine (with a catalytic convertor), add one new Waukesha 7044GSI (with a catalytic convertor), add two dehydrators, add pneumatic controllers and pumps, modify startup, shutdown and maintenance emissions, and remove malfunction emissions.

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

|                                                               | Pounds Per Hour | Tons Per Year |
|---------------------------------------------------------------|-----------------|---------------|
| Nitrogen Oxides (NO <sub>x</sub> )                            | <u>22</u>       | <u>96</u>     |
| Carbon Monoxide (CO)                                          | <u>12</u>       | <u>51</u>     |
| Volatile Organic Compounds (VOCs)                             | <u>18</u>       | <u>91</u>     |
| Particulate Matter (PM)                                       | <u>1</u>        | <u>5</u>      |
| Particulate Matter Less Than 10 Microns (PM <sub>10</sub> )   | <u>1</u>        | <u>5</u>      |
| Particulate Matter Less Than 2.5 Microns (PM <sub>2.5</sub> ) | <u>1</u>        | <u>5</u>      |
| Total Sum of all Hazardous Air Pollutants (HAPs)              | <u>4</u>        | <u>17</u>     |
| Green House Gas Emissions as Total CO <sub>2</sub> e          | <u>N/A</u>      | <u>54,038</u> |

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

The owner and/or operator of the facility is: Harvest Four Corners, LLC, 1755 Arroyo Drive, Bloomfield, New Mexico 87413

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

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

### **Atención**

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

### **Notice of Non-Discrimination**

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

## General Posting of Notices – Certification

I, Kayleigh Ruybalid, the undersigned, certify that on September 30<sup>th</sup>, 2025, I posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in San Juan County, State of New Mexico on the following dates:

| Posting Location                                         | Date of Posting   |
|----------------------------------------------------------|-------------------|
| 1. <u>32-9 Facility Entrance</u>                         | <u>09/30/2025</u> |
| 2. <u>Aztec Public Library, Aztec NM 87410</u>           | <u>09/30/2025</u> |
| 3. <u>Aztec Post Office, Aztec NM 87410</u>              | <u>09/30/2025</u> |
| 4. <u>San Juan County Clerk's Office, Aztec NM 87410</u> | <u>09/30/2025</u> |

Signed this 30th day of September, 2025,

Kayleigh Ruybalid  
Signature

9/30/2025  
Date

Kayleigh Ruybalid  
Printed Name

EHS  
Title (Applicant or Relationship to Applicant)

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# NOTICE

Harvest Four Corners, LLC announces the submittal of an application to the New Mexico Environment Department to revise the air quality permit for one of its natural gas compressor stations. The expected date of application submittal to the Air Quality Bureau is October 1, 2023.

The exact location of the facility, known as the 32-9 Central Delivery Point, is latitude 34.8913° and longitude -107.8611°. The approximate location of this facility is approximately 9 miles northeast of Aztec, New Mexico. From Aztec, drive north on Hwy 350 to mile marker 164 (Start Canyon Road), turn right on CR 2770 and drive 2.8 miles (to 1st R-1 pipe marker), turn left and drive 1.2 miles (to 10-10 Loop pipe marker), turn right and drive approximately 3 miles, the site is on left side of the road.

The proposed modifications include the following: add catalytic converters to four of the existing Waukesha 7642GL engines, replace one Waukesha 7642GL engine with one Waukesha 7644GL engine (with a catalytic converter), add one new Waukesha 7644GL (with a catalytic converter), add two dehydrators, add pneumatic controllers and pumps, modify startup, shutdown and maintenance emissions, and remove malfunction emissions.

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

|                                                               | Pounds Per Hour | Tons Per Year |
|---------------------------------------------------------------|-----------------|---------------|
| Nitrogen Oxides (NO <sub>x</sub> )                            | 22              | 96            |
| Carbon Monoxide (CO)                                          | 11              | 41            |
| Volatile Organic Compounds (VOCs)                             | 18              | 71            |
| Particulate Matter (PM)                                       | 4               | 1             |
| Particulate Matter Less Than 10 Microns (PM <sub>10</sub> )   | 4               | 1             |
| Particulate Matter Less Than 2.5 Microns (PM <sub>2.5</sub> ) | 4               | 1             |
| Total Load of all Hazardous Air Pollutants (HAPs)             | 12              | 3             |
| Green House Gas Emissions as Total CO <sub>2</sub> e          | 30.3            | 34,818        |

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

The owner and/or operator of the facility is: Harvest Four Corners, LLC, 1715 Arroyo Drive, Bloomfield, New Mexico 87403.

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, 323 Camino de los Mariposas, Suite 1, Santa Fe, New Mexico, 87505-1818, (505) 476-4306, 1-800-224-7609, [https://permits.enr.state.nm.gov/submit/submit\\_draft\\_permit.html](https://permits.enr.state.nm.gov/submit/submit_draft_permit.html). Other comments and questions may be submitted verbally.

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

## Advertencia

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de los comentarios profesionales por un solicitante de una licencia. Si usted desea información en español, por favor comuníquese con una oficina al teléfono 505-476-5177.

## Notice of Non-Discrimination

NMDEQ 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. NMDEQ is responsible for the coordination of compliance efforts and receipt of requests concerning non-discrimination requirements implemented by its C, D, R, Part 1, 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 17 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMDEQ's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMDEQ program or activity, you may contact: Rebecca Varela, Non-Discrimination Coordinator, NMDEQ, 1715 St. Francis St., Santa Fe, NM 87505, Santa Fe, NM 87505, (505) 827-1821, [rebecca.varela@state.nm.gov](mailto:rebecca.varela@state.nm.gov). You may also visit our website at <https://www.state.nm.gov/non-discrimination-compliance-page/> to learn more and submit to this a complaint of discrimination.

32-9 Facility Notice Posting

Tuesday • Sep 30, 2025 • 2:09 PM



32-9 Aztec Post Office Notice Posting

Tuesday • Sep 30, 2025 • 2:54 PM



32-9 Aztec Post Office Notice Posting

Tuesday • Sep 30, 2025 • 2:55 PM



32-9 Aztec Public Library Notice Posting

Tuesday • Sep 30, 2025 • 3:04 PM



32-9 Aztec Public Library Notice Posting

Tuesday • Sep 30, 2025 • 3:04 PM





## 32-9 SJ County Clerk Notice Posting

Tuesday • Sep 30, 2025 • 3:15 PM

psa@radiodurango.com

### **Public Service Announcement**

Name: Submitted by James Newby, Cirrus Consulting, LLC (801) 294-3024

Organization: Harvest Four Corners, LLC

Date and Day: Application to NMED Friday October 24, 2025

Time: Business Hours

Location: 32-9 CDP

Event Contact Person: Monica Smith

Phone Number: (505) 632-4625

Announcement:

Harvest Four Corners, LLC announces its intent to apply to the New Mexico Environment Department for a revision to the air quality permit for the 32-9 Central Delivery Point located approximately 9 miles northeast of Aztec, New Mexico. From Aztec, drive north on Hwy 550 to mile marker 164 (Hart Canyon Road), turn right on CR 2770 and drive 2.8 miles (to Lat-B-3 pipe marker), turn left and drive 1.2 miles (to H-10 Loop pipe marker), turn right and drive approximately 3 miles, the site is on left side of the road.

The proposed modifications include the following: add catalytic convertors to four of the existing Waukesha 7042GL engines, replace one Waukesha 7042GL engine with one Waukesha 7044GSI engine (with a catalytic convertor), add one new Waukesha 7044GSI (with a catalytic convertor), add two dehydrators, add pneumatic controllers and pumps, modify startup, shutdown and maintenance emissions, and remove malfunction emissions.

Notices regarding the application have been posted at the following locations:

1. 32-9 Facility Entrance
2. Aztec Public Library, Aztec NM 87410
3. Aztec Post Office, Aztec NM 87410
4. San Juan County Clerk's Office, Aztec NM 87410

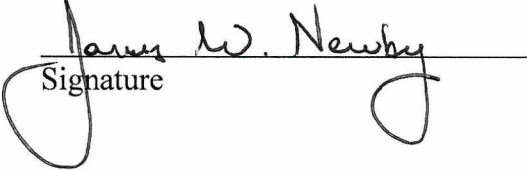
Comments regarding the application may be directed to:

Permit Programs Manager  
New Mexico Environment Department  
Air Quality Bureau  
525 Camino de los Marquez, Suite 1  
Santa Fe, New Mexico 87505-1816  
505- 476-4300 or 1-800-224-7009

## **Submittal of Public Service Announcement – Certification**

I, James Newby, the undersigned, certify that on October 16, 2025, I submitted a public service announcement to Four Corners Broadcasting that serves San Juan County, State of New Mexico, in which the source is or is proposed to be located and that Four Corners Broadcasting did not respond.

Signed this 16th day of October, 2025,

  
Signature

10/17/2025  
Date

James W Newby

Printed Name

Consultant

Title (Applicant or Relationship to Applicant)

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# Section 10

## Written Description of the Routine Operations of the Facility

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**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.

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The 32-9 CDP compresses and dehydrates natural gas for midstream pipeline transmission (i.e., prior to entering a fractionating gas plant).

Natural gas from independent producers in the production fields is piped to the facility inlet via gathering pipelines. The natural gas contains entrained produced water. The natural gas-produced water mixture passes through an inlet separator, where the produced water drops out from the natural gas and is piped to a storage tank where it is stored until it is transported offsite via a tank truck. The natural gas is sent to the compressors for pressurization, and is then routed to TEG dehydrators for additional moisture removal. Following dehydration, the natural gas exits the facility for transport via pipeline to a downstream gas processing facility. A portion of the gas is routed to the compressor engines for use as fuel.

A waste water storage tank collects storm water runoff and small amounts of heavy hydrocarbon residues resulting from any drips or spills that may occur from machinery, where it is stored until transport offsite via tank truck. The hydrocarbon residues are of low volatility. The lube oil and used lube oil tanks store heavy hydrocarbon machinery oils, also with low volatility. Similarly, the stored contents of the TEG, antifreeze tanks, and solvent tank also have low volatility.

Other emission sources include startups, shutdowns and routine maintenance (SSM) from the compressors, piping and dehydrators (Unit SSM), and fugitive emissions from process piping (valves, flanges, seals, etc.).

The facility is authorized to operate continuously.

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# Section 11

## Source Determination

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

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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):**

32-9 CDP (production field natural gas gathering and boosting station)

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

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

☒ Yes ☐ No

**C. Make a determination:**

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

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

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# Section 12.A

## PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

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

A. This facility is:

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

B. This facility is not] one of the listed 20.2.74.501 Table I – PSD Source Categories. The “project” emissions for this modification are not significant], as the facility is an area source before and after this modification. The “project” emissions listed below only result from changes described in this permit application, thus no emissions from other modifications, past or future, to this facility. This project does not result in “de-bottlenecking”, or other associated emissions resulting in higher emissions. The project emissions (before netting) for this project are as follows [see Table 2 in 20.2.74.502 NMAC for a complete list of significance levels]:

- a. NOx: XX.X TPY
- b. CO: XX.X TPY
- c. VOC: XX.X TPY
- d. SOx: XX.X TPY
- e. PM: XX.X TPY
- f. PM10: XX.X TPY
- g. PM2.5: XX.X TPY
- h. Fluorides: XX.X TPY
- i. Lead: XX.X TPY
- j. Sulfur compounds (listed in Table 2): XX.X TPY
- k. GHG: XX.X TPY

C. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered.

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The facility is a PSD area source before and after the proposed modifications. There are no PSD considerations required for this application.

## Section 12.B

### Special Requirements for a PSD Application

(Submitting under 20.2.74 NMAC)

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**Prior to Submitting a PSD application, the permittee shall:**

- ☐ Submit the BACT analysis for review prior to submittal of the application. No application will be ruled complete until the final determination regarding BACT is made, as this determination can ultimately affect information to be provided in the application. A pre-application meeting is recommended to discuss the requirements of the BACT analysis.
- ☐ Submit a modeling protocol prior to submitting the permit application. **[Except for GHG]**
- ☐ Submit the monitoring exemption analysis protocol prior to submitting the application. **[Except for GHG]**

**For PSD applications, the permittee shall also include the following:**

- ☐ Documentation containing an analysis on the impact on visibility. **[Except for GHG]**
  - ☐ Documentation containing an analysis on the impact on soil. **[Except for GHG]**
  - ☐ Documentation containing an analysis on the impact on vegetation, including state and federal threatened and endangered species. **[Except for GHG]**
  - ☐ Documentation containing an analysis on the impact on water consumption and quality. **[Except for GHG]**
  - ☐ Documentation that the federal land manager of a Class I area within 100 km of the site has been notified and provided a copy of the application, including the BACT and modeling results. The name of any Class I Federal area located within one hundred (100) kilometers of the facility.
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The facility is a PSD area source before and after the proposed modifications. There are no PSD considerations required for this application.

# Section 13

## Determination of State & Federal Air Quality Regulations

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

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

### **Required Information for Specific Equipment:**

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

### **Required Information for Regulations that Apply to the Entire Facility:**

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

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

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

### **Regulatory Citations for Emission Standards:**

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

### **Federally Enforceable Conditions:**

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

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

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

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## State Regulations

Applicable state requirements are embodied in the New Mexico SIP, the New Mexico Administrative Code (NMAC), and the terms and conditions of any preconstruction permits issued pursuant to regulations promulgated through rulemaking under Title I of the CAA.

**Table for STATE REGULATIONS:**

| <u>STATE<br/>REGU-<br/>LATIONS<br/>CITATION</u> | <b>Title</b>                                      | <b>Applies?<br/>Enter<br/>Yes or No</b> | <b>Unit(s) or<br/>Facility</b> | <b>JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|---------------------------------------------------|-----------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20.2.1<br>NMAC                                  | General Provisions                                | Yes                                     | Facility                       | This regulation is applicable because it establishes procedures for protecting confidential information, procedures for seeking a variance, NMAQB's authority to require sampling equipment, severability, and the effective date for conformance with the NMACs, and prohibits the violation of other requirements in attempting to comply with the NMACs.<br><br>Although this regulation is applicable, it does not impose any specific requirements. |
| 20.2.3<br>NMAC                                  | Ambient Air Quality Standards NMAAQS              | Yes                                     | Facility                       | This is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentrations of Total Suspended Particulates, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide.                                                                                                                                                                                                                                                  |
| 20.2.7<br>NMAC                                  | Excess Emissions                                  | Yes                                     | Facility                       | This regulation is applicable because it prohibits excess emissions unless proper notification procedures are followed.                                                                                                                                                                                                                                                                                                                                  |
| 20.2.8<br>NMAC                                  | Emissions Leaving New Mexico                      | Yes                                     | Facility                       | This regulation is applicable because it establishes prohibitions on the release of pollutants that cross New Mexico State boundaries.                                                                                                                                                                                                                                                                                                                   |
| 20.2.14<br>NMAC                                 | Particulate Emissions from Coal Burning Equipment | No                                      | N/A                            | This regulation is not applicable because the facility does not burn coal (see 20.2.14.5 NMAC).                                                                                                                                                                                                                                                                                                                                                          |
| 20.2.18<br>NMAC                                 | Oil Burning Equipment - Particulate Matter        | No                                      | N/A                            | This regulation is not applicable because the facility does not burn oil (see 20.2.18.5 NMAC).                                                                                                                                                                                                                                                                                                                                                           |
| 20.2.31<br>NMAC                                 | Coal Burning Equipment – Sulfur Dioxide           | No                                      | N/A                            | This regulation is not applicable because the facility does not burn coal (see 20.2.31.6 NMAC).                                                                                                                                                                                                                                                                                                                                                          |
| 20.2.32<br>NMAC                                 | Coal Burning Equipment – Nitrogen Dioxide,        | No                                      | N/A                            | This regulation is not applicable because the facility does not burn coal (see 20.2.32.6 NMAC).                                                                                                                                                                                                                                                                                                                                                          |
| 20.2.33<br>NMAC                                 | Gas Burning Equipment - Nitrogen Dioxide          | No                                      | N/A                            | This regulation is not applicable because the facility is not equipped with external gas burning equipment which have heat input rates exceeding the trigger level (one million MMBtu/year) established by the regulation (see 20.2.33.108 NMAC).                                                                                                                                                                                                        |
| 20.2.34<br>NMAC                                 | Oil Burning Equipment: NO <sub>2</sub>            | No                                      | N/A                            | This regulation is not applicable because the facility does not burn oil (see 20.2.34.6 NMAC).                                                                                                                                                                                                                                                                                                                                                           |
| 20.2.35<br>NMAC                                 | Natural Gas Processing Plant – Sulfur             | No                                      | N/A                            | This regulation is not applicable because the facility is not a natural gas processing plant (see 20.2.35.6 NMAC).                                                                                                                                                                                                                                                                                                                                       |
| 20.2.38<br>NMAC                                 | Hydrocarbon Storage Facility                      | No                                      | N/A                            | This regulation is not applicable because the facility does not store hydrocarbons containing hydrogen sulfide, nor is there a tank battery storing hydrocarbon liquids with a capacity greater than or equal to 65,000 gallons (see 20.2.38.112 NMAC).                                                                                                                                                                                                  |
| 20.2.39<br>NMAC                                 | Sulfur Recovery Plant - Sulfur                    | No                                      | N/A                            | This regulation is not applicable because the facility is not equipped with a sulfur recovery plant (see 20.2.39.6 NMAC).                                                                                                                                                                                                                                                                                                                                |

| <u>STATE<br/>REGU-<br/>LATIONS<br/>CITATION</u> | <b>Title</b>                                                        | <b>Applies?<br/>Enter<br/>Yes or No</b> | <b>Unit(s) or<br/>Facility</b>                    | <b>JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20.2.50<br>NMAC                                 | Oil and Gas<br>Sector – Ozone<br>Precursor<br>Pollutants            | Yes                                     | Units 1-6, 9-<br>13, F1,<br>PC1-PC37<br>& PP1-PP5 | This regulation is applicable because the facility is equipped with affected equipment as defined by the regulation: natural gas-fired spark ignition engines; reciprocating compressors; glycol dehydrator still vents; equipment leaks and fugitive emissions; and pneumatic controllers and pumps.                             |
| 20.2.61.109<br>NMAC                             | Smoke & Visible<br>Emissions                                        | Yes                                     | Units 1-6 &<br>9-13,                              | This regulation is applicable because the facility is equipped with stationary combustion sources. Emissions from these combustion sources are limited to less than 20% opacity (see 20.2.61.109 NMAC). The regulation is not applicable to Title V insignificant heaters (see 20.2.61.111.D NMAC).                               |
| 20.2.70<br>NMAC                                 | Operating Permits                                                   | No                                      | N/A                                               | This regulation is not applicable because with the modification the facility is an area source (see 20.2.70.200 NMAC).                                                                                                                                                                                                            |
| 20.2.71<br>NMAC                                 | Operating Permit<br>Fees                                            | No                                      | N/A                                               | This regulation is not applicable because with the modification the facility is an area Title V source (see 20.2.70.200 NMAC).                                                                                                                                                                                                    |
| 20.2.72<br>NMAC                                 | Construction<br>Permits                                             | Yes                                     | Facility                                          | This regulation is applicable because the facility has potential emission rates (PER) greater than 10 pph or 25 tpy for pollutants subject to a state or federal ambient air quality standards (does not include VOCs or HAPs).                                                                                                   |
| 20.2.73<br>NMAC                                 | NOI & Emissions<br>Inventory<br>Requirements                        | Yes                                     | Facility                                          | The Notice of Intent requirements of this regulation were fulfilled with the construction permit application.<br><br>The emissions inventory portion of this regulation is not applicable since the facility is a Title V area source (see 20.2.73.300.B(1) & (2)).                                                               |
| 20.2.74<br>NMAC                                 | Permits –<br>Prevention of<br>Significant<br>Deterioration<br>(PSD) | No                                      | N/A                                               | This regulation is not applicable because the facility is not a PSD major source.                                                                                                                                                                                                                                                 |
| 20.2.75<br>NMAC                                 | Construction<br>Permit Fees                                         | Yes                                     | Facility                                          | This regulation is applicable because the facility is subject to 20.2.72 NMAC and it establishes the fee schedule associated with the filing of construction permits (see 20.2.75.6 NMAC).                                                                                                                                        |
| 20.2.77<br>NMAC                                 | New Source<br>Performance                                           | No                                      | N/A                                               | This regulation adopts by reference the federal NSPS codified in 40 CFR 60 (see 20.2.77.6 NMAC). None of the equipment at the facility is subject to NSPS under 40 CFR 60.                                                                                                                                                        |
| 20.2.78<br>NMAC                                 | Emission<br>Standards for<br>HAPS                                   | No                                      | N/A                                               | This regulation is not applicable because it incorporates by reference the NESHAPs codified under 40 CFR 61 (see 20.2.78.6 NMAC). The facility is not subject to 40 CFR 61.                                                                                                                                                       |
| 20.2.79<br>NMAC                                 | Permits –<br>Nonattainment<br>Areas                                 | No                                      | N/A                                               | This regulation is not applicable because the facility is neither located in nor has a significant impact on a nonattainment area (see 20.2.79.6 NMAC).                                                                                                                                                                           |
| 20.2.80<br>NMAC                                 | Stack Heights                                                       | Yes                                     | Units 1-6 &<br>9-13                               | This regulation is applicable because it establishes guidelines for the selection of an appropriate stack height for the purpose of atmospheric dispersion modeling (see 20.2.80.6 NMAC); however, it only imposes those requirements when modeling is required as a part of the application. This application requires modeling. |
| 20.2.82<br>NMAC                                 | MACT Standards<br>for Source<br>Categories of<br>HAPS               | Yes                                     | Units 9-13                                        | This regulation is applicable because it adopts by reference the federal MACT Standards for source categories codified in 40 CFR 63 (see 20.2.82.6 NMAC). The TEG dehydrators are subject to 40 CFR 63, subparts A and HH.                                                                                                        |

## Federal Regulations

Federal standards and requirements are embodied in Title 40 (Protection of the Environment), Subchapter C (Air Programs) of the CFR, Parts 50 through 99.

### FEDERAL REGULATIONS APPLICABILITY CHECKLIST

| <u>FEDERAL<br/>REGU-<br/>LATIONS<br/>CITATION</u> | <b>Title</b>                                                                                                                                                                                            | <b>Applies?<br/>Enter Yes<br/>or No</b> | <b>Unit(s) or<br/>Facility</b> | <b>JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40 CFR 50                                         | NAAQS                                                                                                                                                                                                   | Yes                                     | Facility                       | This regulation is applicable because it applies to all sources in the state of New Mexico.                                                                                                                                                                                                                                                                                           |
| 40 CFR 52                                         | Approval and Promulgation of Implementation Plans                                                                                                                                                       | No                                      | N/A                            | 40 CFR 52.21 <i>Prevention of Significant Deterioration of Air Quality</i> is not applicable because the facility is not a major Prevention of Significant Deterioration source. The remainder of 40 CFR 52 is not applicable because it addresses approval and promulgation of implementation plans.                                                                                 |
| NSPS<br>40 CFR 60,<br>Subpart A                   | General Provisions                                                                                                                                                                                      | Potentially applicable                  | Potentially applicable         | The regulation applies if 40 CFR Part 60 subpart is determined to be applicable. None of the 40 CFR 60 subparts is currently applicable to the facility equipment.                                                                                                                                                                                                                    |
| NSPS<br>40 CFR 60,<br>Subpart K                   | Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978                     | No                                      | N/A                            | This regulation is not applicable because the petroleum liquids storage tanks at the facility have capacities less than the minimum applicability threshold capacity of 40,000 gallons (see §60.110(a)).                                                                                                                                                                              |
| NSPS<br>40 CFR 60,<br>Subpart Ka                  | Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984                     | No                                      | N/A                            | This regulation is not applicable because the storage tanks at the facility have capacities less than the minimum applicability threshold capacity of 40,000 gallons (see §60.110a(a)).                                                                                                                                                                                               |
| NSPS<br>40 CFR 60,<br>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                            | This regulation is not applicable because all storage tanks at the facility have capacities less than the minimum applicability threshold capacity of 75 cubic meters (19,812 gallons) or they have a capacity between 75 and 151 cubic meters (40,000 gallons) and store a liquid with a maximum true vapor pressure less than 15.0 kPa (2.2 psi) (see § 60.110b(a) & § 60.110b(b)). |

| <u>FEDERAL<br/>REGU-<br/>LATIONS<br/>CITATION</u> | <b>Title</b>                                                                                                                                                                                                                                                              | <b>Applies?<br/>Enter Yes<br/>or No</b> | <b>Unit(s) or<br/>Facility</b>                 | <b>JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NSPS<br>40 CFR 60,<br>Subpart<br>KKK              | Standards of<br>Performance for<br>Equipment Leaks<br>of VOC from<br>Onshore Gas<br>Plants                                                                                                                                                                                | No                                      | N/A                                            | This regulation is not applicable because the facility is not an onshore natural gas processing plant as defined by the subpart (see §60.630(a)(1)). Natural gas processing plant (gas plant) means any processing site engaged in the extraction of natural gas liquids from field gas, fractionation of mixed natural gas liquids to natural gas products, or both (see §60.631).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| NSPS<br>40 CFR 60,<br>Subpart LLL                 | Standards of<br>Performance for<br>Onshore Natural<br>Gas Processing;<br>SO <sub>2</sub> Emissions                                                                                                                                                                        | No                                      | N/A                                            | This regulation is not applicable because the facility is not a natural gas processing plant as defined by the subpart. It is not equipped with a sweetening unit (see §60.640(a)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| NSPS<br>40 CFR 60,<br>Subpart IIII                | Standards of<br>Performance for<br>Stationary<br>Compression<br>Ignition Internal<br>Combustion<br>Engines                                                                                                                                                                | No                                      | N/A                                            | This regulation is not applicable because the facility is not equipped with stationary compression ignition (CI) internal combustion engines (ICE) that commenced construction after July 11, 2005 and were manufactured after April 1, 2006 (see §60.4200(a)(2)(i)).<br><br>For the purpose of this subpart, construction commences on the date the engine is ordered by the owner or operator (see §60.4200(a)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NSPS<br>40 CFR 60,<br>Subpart JJJJ                | Standards of<br>Performance for<br>Stationary Spark<br>Ignition Internal<br>Combustion<br>Engines                                                                                                                                                                         | Potentially<br>applicable               | Potentially<br>applicable<br>to Units 5 &<br>6 | The regulation is applicable to spark ignition (SI) internal combustion engines (ICE) constructed, modified, or reconstructed after June 12, 2006.<br><br>Units 1 through 4 were constructed prior to the applicability date and have not been modified or reconstructed. Therefore, the subpart does not apply to these RICE.<br><br>The applicability to Units 5 & 6 will be determined upon installation.<br><br>See the definitions of construction, modification, and reconstruction referenced in Subpart OOOO below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NSPS<br>40 CFR 60,<br>Subpart<br>OOOO             | Standards of<br>Performance for<br>Crude Oil and<br>Natural Gas<br>Production,<br>Transmission, and<br>Distribution for<br>which<br>Construction,<br>Modification or<br>Reconstruction<br>Commenced After<br>August 23, 2011<br>and On or Before<br>September 18,<br>2015 | No                                      | N/A                                            | This regulation is not applicable because the facility is not equipped with "affected" sources that commenced construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015: gas wells, centrifugal or reciprocating compressors, pneumatic controllers, and storage vessels (see §60.5365).<br><br>Note that the facility is not a natural gas processing plant as defined by the subpart (see §60.5430).<br><br>Commenced construction means a continuous program of fabrication, erection or installation (see §60.2).<br><br>Modification means any physical change in or change in the method of operation of an existing facility which increases emissions or results in new emissions (see §60.2). The following, by themselves, are not modifications: routine maintenance, repair or replacement, production increase without capital expenditure, increase in hours of operation, addition of emission controls, or the relocation or change in ownership of an existing facility (see §60.14).<br><br>Reconstruction means the replacement of components of an existing facility such that the fixed capital cost of the new components exceeds 50 % of the fixed capital cost required to construct a comparable entirely new facility. Fixed capital cost means the capital needed to provide all the depreciable components (see §60.15). |

| <b><u>FEDERAL<br/>REGU-<br/>LATIONS<br/>CITATION</u></b> | <b>Title</b>                                                                                                                                                                                  | <b>Applies?<br/>Enter Yes<br/>or No</b> | <b>Unit(s) or<br/>Facility</b> | <b>JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NSPS<br>40 CFR 60,<br>Subpart<br>OOOOa                   | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 and On or Before December 6, 2022 | No                                      | N/A                            | The facility is not currently equipped with one or more “affected” sources that commenced construction, modification or reconstruction after September 18, 2015 and on or after December 6, 2022: gas wells, centrifugal or reciprocating compressors, pneumatic controllers, storage vessels, sweetening units, pneumatic pumps, and equipment leaks (see §60.5365a).                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NSPS<br>40 CFR 60,<br>Subpart<br>OOOOb                   | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022                                     | Potentially applicable                  | Potentially applicable         | The facility is not currently equipped with one or more “affected” sources that commenced construction, modification or reconstruction after December 6, 2022: gas wells, centrifugal or reciprocating compressors, pneumatic controllers, storage vessels, sweetening units, pneumatic pumps, and equipment leaks (see §60.5365a).<br><br>Note that a modification occurs if an additional compressor is installed or if an existing compressor is replaced by a larger compressor.                                                                                                                                                                                                                                                                                                                                |
| NESHAP<br>40 CFR 61,<br>Subpart A                        | General Provisions                                                                                                                                                                            | No                                      | N/A                            | This regulation is not applicable because no other 40 CFR Part 61 subparts apply (see §61.01(c)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NESHAP<br>40 CFR 61,<br>Subpart V                        | National Emission Standards for Equipment Leaks (Fugitive Emission Sources)                                                                                                                   | No                                      | N/A                            | This regulation is not applicable because none of the listed equipment at the facility is in VHAP service.<br><br>The provisions of this subpart apply to each of the following sources that are intended to operate in volatile hazardous air pollutant (VHAP) service: pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by this subpart (see §61.240(a)). VHAP service means a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 10 percent by weight of VHAP. VHAP means a substance regulated under this subpart for which a standard for equipment leaks of the substance has been promulgated (see §61.241). |
| MACT<br>40 CFR 63,<br>Subpart A                          | General Provisions                                                                                                                                                                            | Yes                                     | Units 1-6 & 9-13               | This regulation is applicable because 40 CFR 63, Subparts HH and ZZZZ apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| <u>FEDERAL<br/>REGU-<br/>LATIONS<br/>CITATION</u> | <b>Title</b>                                                                                                                           | <b>Applies?<br/>Enter Yes<br/>or No</b> | <b>Unit(s) or<br/>Facility</b> | <b>JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MACT<br>40 CFR 63,<br>Subpart HH                  | National Emission Standards for Hazardous Air Pollutants For Oil and Natural Gas Production Facilities                                 | Yes                                     | Units 9-13                     | <p>This regulation is applicable because the facility is equipped with affected equipment subject to 40 CFR 63, subpart HH.</p> <p>As the facility is a production field facility located prior to the point of custody transfer, only HAP emissions from glycol dehydration units and storage vessels (crude oil tanks, condensate tanks, intermediate hydrocarbon liquid tanks, and produced water tanks) are aggregated for a major source determination (see §63.761). As defined under the subpart, the facility is an <b>area</b> source of HAP. The facility is located in an area that is not within an UA plus offset and UC boundary (as defined in §63.761).</p> <p>At a HAP area source, the only affected unit is each dehydration unit (see §63.760(b)(2)).</p> <p>Under §63.764(e)(1)(ii), the owner or operator of an affected area source [TEG dehydrator] with <b>actual</b> average benzene emissions from the process vent to the atmosphere of less than 0.90 megagrams per year (~1 tpy) is exempt from the operational, recordkeeping and notification requirements in §63.764(d), provided that documentation of the exemption determination is maintained as required in §63.774(d)(1).</p> |
| MACT<br>40 CFR 63,<br>Subpart HHH                 | National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities                          | No                                      | N/A                            | <p>This regulation is not applicable because the facility is not a natural gas transmission and storage facility as defined by the subpart.</p> <p>A compressor station that transports natural gas prior to the point of custody transfer or to a natural gas processing plant (if present) are not considered a part of the natural gas transmission and storage source category (see §63.1270(a)).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MACT<br>40 CFR 63,<br>Subpart ZZZZ                | National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)         | Yes                                     | Units 1-6                      | <p>40 CFR 63, Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from existing, new, modified and reconstructed stationary reciprocating internal combustion engines (RICE) located at both major and area sources of HAP, including provisions for initial and continuous compliance demonstration.</p> <p>As defined at §63.6585(b), the station is an <b>area</b> source of HAP emissions. Each of the engines at the facility are “existing” engines, as defined under the regulation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| MACT<br>40 CFR 63,<br>Subpart DDDDD               | National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters | No                                      | N/A                            | <p>This regulation is not applicable both because the facility is an area HAP source as defined by the subpart (see §63.7480) and is not equipped with boilers and process heaters.</p> <p>For natural gas production facilities, only HAP emissions from dehydrators and storage vessels with the potential for flash emissions are aggregated for a major source determination (see §63.7575).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MACT<br>40 CFR 63,<br>Subpart JJJJJ               | National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers at Area Sources         | No                                      | N/A                            | <p>This regulation is not applicable because the facility is not equipped with industrial, commercial, or institutional boilers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 40 CFR 64                                         | Compliance Assurance Monitoring                                                                                                        | Yes                                     | Units 5 & 6                    | <p>This regulation is applicable because two engines at the facility require control devices to achieve compliance with emission limits or standards where pre control emissions equal or exceed the major source threshold (100 tons per year). (see §64.2(a)).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| <b><u>FEDERAL<br/>REGU-<br/>LATIONS</u><br/>CITATION</b> | <b>Title</b>                            | <b>Applies?<br/>Enter Yes<br/>or No</b> | <b>Unit(s) or<br/>Facility</b> | <b>JUSTIFICATION:</b>                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40 CFR 68                                                | Chemical<br>Accident<br>Prevention      | No                                      | N/A                            | This regulation is not applicable because the facility does not store any of the identified toxic and flammable substances in quantities exceeding the applicability thresholds (see §68.10(a), §68.115(a), and §68.130 Tables 1-4).                                                                                                                                 |
| 40 CFR 70                                                | State Operating<br>Permit Programs      | No                                      | N/A                            | This regulation is not applicable, as the requirements associated with Title V are delegated to the State of New Mexico and implemented under 20 NMAC 2.70.                                                                                                                                                                                                          |
| 40 CFR 82                                                | Protection of<br>Stratospheric<br>Ozone | No                                      | N/A                            | This regulation is not applicable because the facility does not produce, transform, destroy, import, or export ozone-depleting substances (see §82.1(b)); does not service motor vehicle air conditioning units (see §82.30(b)); and does not sell, distribute, or offer for sale or distribution any product that contains ozone-depleting substances (see §82.64). |

# Section 14

## Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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- ☒ **Title V Sources** (20.2.70 NMAC): By checking this box and certifying this application the permittee certifies that it has developed an Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- ☒ **NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- ☒ **Title V** (20.2.70 NMAC), **NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.
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# Section 15

## Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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

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

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Not applicable, as there are no alternative operating scenarios for this facility.

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# 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](http://www.env.nm.gov/aqb/permit/app_form.html)) for more detailed instructions on SSM emissions modeling requirements.
- 3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

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

**Check each box that applies:**

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

# Universal Application 4

## Air Dispersion Modeling Report

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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.

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### Introduction

In support of this application, air dispersion modeling was conducted for the following pollutants: nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), particulate matter less than or equal to 10 microns (PM<sub>10</sub>) and particulate matter less than or equal to 2.5 microns (PM<sub>2.5</sub>). This analysis evaluates compliance with the National Ambient Air Quality Standards (NAAQS), New Mexico Ambient Air Quality Standards (NMAAQs) and Prevention of Significant Deterioration (PSD) increment consumption.

### Facility

The 32-9 CDP is located approximately 14 miles north northeast of Bloomfield, San Juan County, New Mexico. The Universal Transverse Mercator (UTM) coordinates for the facility are approximately 245,085 meters easting, 4,087,120 meters northing, zone 13 (North American Datum 1983 [NAD83]). The facility is situated at an elevation of approximately 6,228 feet above mean sea level.

The facility is a natural gas compressor station. Sources at the facility include the following:

- Five (5) Waukesha 7042GL four-stroke lean burn (4SLB) reciprocating internal combustion engines (RICE);
- Two (2) dehydrators rated at 10 million standard cubic feet per day (mmscfd); and
- One (1) dehydrator rated at 12 mmscfd.

Modifications to the facility include:

- Replace one (1) of the existing Waukesha 7042GL RICE with a Waukesha 7044GSI four-stroke rich burn (4SRB) RICE (with catalyst);
- Add one (1) Waukesha 7044GSI RICE (with catalyst);
- Add catalysts to the remaining four Waukesha 4042GL RICE; and
- Add two (2) dehydrators rated at 10 mmscfd.

The facility operates 24 hours per day 365 days per year.

**16-A: Identification**

|   |                              |                           |
|---|------------------------------|---------------------------|
| 1 | Name of facility:            | 32-9 CDP                  |
| 2 | Name of company:             | Harvest Four Corners, LLC |
| 3 | Current Permit number:       | 924-M3 (as revised)       |
| 4 | Name of applicant's modeler: | James W Newby             |
| 5 | Phone number of modeler:     | (801) 294-3024            |
| 6 | E-mail of modeler:           | jnewby@cirrusllc.com      |

**16-B: Brief**

|    |                                                                                                       |                                         |                                        |
|----|-------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| 1  | Was a modeling protocol submitted and approved?                                                       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
| 2  | Why is the modeling being done?                                                                       | Adding New Equipment                    |                                        |
| 3  | Describe the permit changes relevant to the modeling.                                                 |                                         |                                        |
|    | See the modifications identified above.                                                               |                                         |                                        |
| 4  | What geodetic datum was used in the modeling?                                                         | WGS84                                   |                                        |
| 5  | How long will the facility be at this location?                                                       | Indefinitely                            |                                        |
| 6  | Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?         | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |
| 7  | Identify the Air Quality Control Region (AQCR) in which the facility is located                       | 14                                      |                                        |
|    | List the PSD baseline dates for this region (minor or major, as appropriate).                         |                                         |                                        |
| 8  | NO <sub>2</sub>                                                                                       | 6/6/1989                                |                                        |
|    | SO <sub>2</sub>                                                                                       | 8/7/1978                                |                                        |
|    | PM <sub>10</sub>                                                                                      | 8/7/1978                                |                                        |
|    | PM <sub>2.5</sub>                                                                                     | Not established                         |                                        |
| 9  | Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits). |                                         |                                        |
|    | N/A                                                                                                   |                                         |                                        |
| 10 | Is the facility located in a non-attainment area? If so, describe below                               | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |
|    | N/A                                                                                                   |                                         |                                        |
| 11 | Describe any special modeling requirements, such as streamline permit requirements.                   |                                         |                                        |
|    | N/A                                                                                                   |                                         |                                        |

**16-C: Modeling History of Facility**

|   |                                                                                                                                                                                                                                                       |                                                                                 |                |          |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------|----------|
| 1 | Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQs), and PSD increments modeled. (Do not include modeling waivers). |                                                                                 |                |          |
|   | Pollutant                                                                                                                                                                                                                                             | Latest permit and modification number that modeled the pollutant facility-wide. | Date of Permit | Comments |
|   | CO                                                                                                                                                                                                                                                    | Unknown                                                                         |                |          |
|   | NO <sub>2</sub>                                                                                                                                                                                                                                       | Unknown                                                                         |                |          |
|   | SO <sub>2</sub>                                                                                                                                                                                                                                       | Unknown                                                                         |                |          |
|   | H <sub>2</sub> S                                                                                                                                                                                                                                      | N/A                                                                             |                |          |
|   | PM <sub>2.5</sub>                                                                                                                                                                                                                                     | Unknown                                                                         |                |          |
|   | PM <sub>10</sub>                                                                                                                                                                                                                                      | Unknown                                                                         |                |          |
|   | Lead                                                                                                                                                                                                                                                  | N/A                                                                             |                |          |
|   | Ozone (PSD only)                                                                                                                                                                                                                                      | N/A                                                                             |                |          |
|   | NM Toxic Air Pollutants (20.2.72.402 NMAC)                                                                                                                                                                                                            | N/A                                                                             |                |          |

### 16-D: Modeling performed for this application

|   |                                                                                                                                                                                                                                                  |                                     |                                     |                          |                          |                                       |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|---------------------------------------|
| 1 | For each pollutant, indicate the modeling performed and submitted with this application. Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed. |                                     |                                     |                          |                          |                                       |
|   | Pollutant                                                                                                                                                                                                                                        | ROI                                 | Cumulative analysis                 | Culpability analysis     | Waiver approved          | Pollutant not emitted or not changed. |
|   | CO                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>              |
|   | NO <sub>2</sub>                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>              |
|   | SO <sub>2</sub>                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>              |
|   | H <sub>2</sub> S                                                                                                                                                                                                                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/>   |
|   | PM <sub>2.5</sub>                                                                                                                                                                                                                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>              |
|   | PM <sub>10</sub>                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>              |
|   | Lead                                                                                                                                                                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/>   |
|   | Ozone                                                                                                                                                                                                                                            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/>   |
|   | State air toxic(s) (20.2.72.402 NMAC)                                                                                                                                                                                                            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/>   |

Both significant and cumulative impact modeling was conducted using the latest version of the AMS/EPA Regulatory Model (AERMOD). The Beeline Software BEEST for Windows modeling manager was used to prepare the input files and manage processing. As the facility is located in a rural area, urban area modeling was not conducted.

The modeling was conducted in accordance with the approved protocol and the NMAQB Air Dispersion Modeling Guidelines. First, emissions from the facility sources were modeled to determine if there are significant impacts. For pollutant averaging periods where impacts were less than the SIL (CO, SO<sub>2</sub> & PM<sub>10</sub>), no additional modeling was conducted. Second, where pollutant impacts exceed the SIL (NO<sub>2</sub> & PM<sub>2.5</sub>), cumulative impacts for comparison with the NAAQS, NMAAQs & PSD increment were determined using methodologies identified in the modeling guidelines.

**16-E: New Mexico toxic air pollutants modeling**

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

**16-F: Modeling options**

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

**16-G: Surrounding source modeling**

|   |                                                                                                                                                                                                                                                                                                |                                                                                    |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1 | Date of surrounding source retrieval                                                                                                                                                                                                                                                           | <b>09/16/2025</b>                                                                  |
| 2 | If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed. |                                                                                    |
|   | AQB Source ID                                                                                                                                                                                                                                                                                  | Description of Corrections                                                         |
|   | <b>1277E76</b>                                                                                                                                                                                                                                                                                 | <b>Filled using 1277E1 location, since the Mergemaster location is 612 km away</b> |
|   | <b>1277E77</b>                                                                                                                                                                                                                                                                                 | <b>Filled using 1277E1 location, since the Mergemaster location is 612 km away</b> |
|   | <b>1177E7</b>                                                                                                                                                                                                                                                                                  | <b>Filled using 1177E1 location, since the Mergemaster location is 82 km away</b>  |
|   | <b>1177E27</b>                                                                                                                                                                                                                                                                                 | <b>Filled using 1177E1 location, since the Mergemaster location is 82 km away</b>  |
|   | <b>1177E28</b>                                                                                                                                                                                                                                                                                 | <b>Filled using 1177E1 location, since the Mergemaster location is 82 km away</b>  |
|   |                                                                                                                                                                                                                                                                                                |                                                                                    |

There were no significant CO, SO<sub>2</sub> & PM<sub>10</sub> impacts.

Cumulative NO<sub>2</sub> annual NAAQS impacts were calculated using background concentrations rather than neighboring sources. Cumulative NO<sub>2</sub> 1-hour NAAQS impacts and NO<sub>2</sub> annual PSD impacts were calculated using neighboring sources.

Cumulative PM<sub>2.5</sub> annual and 24-hour NAAQS impacts were calculated using background concentrations rather than neighboring sources.

**16-H: Building and structure downwash**

|   |                                                                                      |                                                                                   |
|---|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1 | How many buildings are present at the facility?                                      | <b>16</b>                                                                         |
| 2 | How many above ground storage tanks are present at the facility?                     | <b>6</b>                                                                          |
| 3 | Was building downwash modeled for all buildings and tanks? If not explain why below. | <b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/> |
|   | <b>N/A</b>                                                                           |                                                                                   |
| 4 | Building comments                                                                    | <b>N/A</b>                                                                        |

## 16-I: Receptors and modeled property boundary

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |           |                                                           |                                                         |                              |                                        |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-----------------------------------------------------------|---------------------------------------------------------|------------------------------|----------------------------------------|
| 1 | <p>“Restricted Area” is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility.</p> <p>Describe the fence or other physical barrier at the facility that defines the restricted area.</p> <p><b>Fence</b></p> |             |           |                                                           |                                                         |                              |                                        |
| 2 | Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |           |                                                           |                                                         | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 3 | Are restricted area boundary coordinates included in the modeling files?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |           |                                                           |                                                         | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 4 | Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |           |                                                           |                                                         |                              |                                        |
|   | Grid Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Shape       | Spacing   | Start distance from restricted area or center of facility | End distance from restricted area or center of facility | Comments                     |                                        |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rectangular | 50-meter  | 0 meters                                                  | 500 meters                                              | N/A                          |                                        |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rectangular | 100-meter | 500 meters                                                | 1,000 meters                                            | N/A                          |                                        |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rectangular | 250-meter | 1,000 meters                                              | 3,000 meters                                            | N/A                          |                                        |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rectangular | 500-meter | 3,000 meters                                              | 5,000 meters                                            | N/A                          |                                        |
| 5 | Describe receptor spacing along the fence line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |           |                                                           |                                                         |                              |                                        |
|   | 25-meter spacing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |           |                                                           |                                                         |                              |                                        |
| 6 | Describe the PSD Class I area receptors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |           |                                                           |                                                         |                              |                                        |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |           |                                                           |                                                         |                              |                                        |

A Cartesian grid with variable receptor spacing was used to evaluate significant impacts around the facility. The grid contained receptors with 25-meter spacing around the fence line, 50-meter spacing from the fence line out to at least 500 meters, 100-meter spacing from the 500 meters beyond the fence line out to at least 1,000 meters, 250-meter spacing from 1,000 meters beyond the fence line out to at least 3,000 meters, and 500-meter spacing from 3,000 meters beyond the fence line out to at least 5,000 meters.

Cumulative impact modeling was conducted using only those receptors from the grid defined above for which there were significant impacts. There were no cumulative impacts greater than or equal to 75 percent of the applicable standards within the 100-meter, 250-meter, or 500-meter interval portions of the grid, so refined grids with 50-meter spacing were not needed to identify local highs.

The coordinate system used to reference receptor locations was of the UTM convention (NAD83).

## 16-J: Modeling Scenarios

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------|---------------------------|-----------------------------------|---------------------------|-----------------------------------|---------------------------|-------------------------------|-----------------------------------------|----------------------------------------|-----------------------|
| 1 | Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).           |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |
| 2 | Which scenario produces the highest concentrations? Why?                                                                                                                                                                                                                                                                                                                                                                                        |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |
| 3 | Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)                                                                                                                                                                                                           |                           |                                   |                           |                                   |                           |                                   |                           |                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                       |
| 4 | <p>If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.)</p> <p><b>No emission factor sets were used for facility sources.</b></p> <p><b>Emissions factor sets for the NAAQS and PSD neighboring sources were those identified by Mergemaster.</b></p> |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |
| 5 | ONE1<br>Mon-Sat<br>Hour of<br>Day                                                                                                                                                                                                                                                                                                                                                                                                               | ONE1<br>Mon-SAT<br>Factor | ONE1<br>Mon-Sat<br>Hour of<br>Day | ONE1<br>Mon-Sat<br>Factor | ONE2<br>Mon-Fri<br>Hour of<br>Day | ONE2<br>Mon-Fri<br>Factor | ONE2<br>Mon-Fri<br>Hour of<br>Day | ONE2<br>Mon-Fri<br>Factor | ONE2<br>Sat<br>Hour of<br>Day | ONE2<br>Sat<br>Factor                   | ONE2<br>Sat<br>Hour of<br>Day          | ONE2<br>Sat<br>Factor |
|   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 13                                |                           | 1                                 |                           | 13                                |                           | 1                             |                                         | 13                                     |                       |
|   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 14                                |                           | 2                                 |                           | 14                                |                           | 2                             |                                         | 14                                     |                       |
|   | 3                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 15                                |                           | 3                                 |                           | 15                                |                           | 3                             |                                         | 15                                     |                       |
|   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 16                                |                           | 4                                 |                           | 16                                |                           | 4                             |                                         | 16                                     |                       |
|   | 5                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 17                                |                           | 5                                 |                           | 17                                |                           | 5                             |                                         | 17                                     |                       |
|   | 6                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 18                                |                           | 6                                 |                           | 18                                |                           | 6                             |                                         | 18                                     |                       |
|   | 7                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 19                                |                           | 7                                 |                           | 19                                |                           | 7                             |                                         | 19                                     |                       |
|   | 8                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 20                                |                           | 8                                 |                           | 20                                |                           | 8                             |                                         | 20                                     |                       |
|   | 9                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           | 21                                |                           | 9                                 |                           | 21                                |                           | 9                             |                                         | 21                                     |                       |
|   | 10                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           | 22                                |                           | 10                                |                           | 22                                |                           | 10                            |                                         | 22                                     |                       |
|   | 11                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           | 23                                |                           | 11                                |                           | 23                                |                           | 11                            |                                         | 23                                     |                       |
|   | 12                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           | 24                                |                           | 12                                |                           | 24                                |                           | 12                            |                                         | 24                                     |                       |
|   | If hourly, variable emission rates were used that were not described above, describe them below.                                                                                                                                                                                                                                                                                                                                                |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |
| 6 | Were different emission rates used for short-term and annual modeling? If so describe below.                                                                                                                                                                                                                                                                                                                                                    |                           |                                   |                           |                                   |                           |                                   |                           |                               | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |                       |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                   |                           |                                   |                           |                                   |                           |                               |                                         |                                        |                       |

## 16-K: NO<sub>2</sub> Modeling

|   |                                                                             |      |
|---|-----------------------------------------------------------------------------|------|
| 1 | Which types of NO <sub>2</sub> modeling were used?<br>Check all that apply. |      |
|   | <input checked="" type="checkbox"/>                                         | ARM2 |

|   |                                                                                                                                                                                                                                                  |                                                                                   |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|   | <input type="checkbox"/>                                                                                                                                                                                                                         | 100% NO <sub>x</sub> to NO <sub>2</sub> conversion                                |
|   | <input type="checkbox"/>                                                                                                                                                                                                                         | PVMRM                                                                             |
|   | <input type="checkbox"/>                                                                                                                                                                                                                         | OLM                                                                               |
|   | <input type="checkbox"/>                                                                                                                                                                                                                         | Other:                                                                            |
| 2 | Describe the NO <sub>2</sub> modeling.<br><b>First high impacts (using ARM2) were used to determine significant impacts.</b><br><b>Eighth high impacts (using ARM2) plus background concentration were used to determine cumulative impacts.</b> |                                                                                   |
| 3 | Were default NO <sub>2</sub> /NO <sub>x</sub> ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below.                                                                                          | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br><b>N/A</b> |
| 4 | Describe the design value used for each averaging period modeled.<br>1-hour: <b>High eighth high</b><br>Annual <b>One Year Annual Average</b>                                                                                                    |                                                                                   |

## 16-L: Ozone Analysis

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |               |                              |                                        |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|------------------------------|----------------------------------------|
| 1 | 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 <a href="#">Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program</a> , 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.                                                   |                     |               |                              |                                        |
| 2 | 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 <sub>x</sub> and no more than 250 tons/year of VOCs will cause less formation of O <sub>3</sub> than the O <sub>3</sub> significance level.<br><br>$[O_3]_{8-hour} = \left( \frac{250 \frac{ton}{yr}}{340_{MERP_{NOX}}} + \frac{250 \frac{ton}{yr}}{4679_{MERP_{VOC}}} \right) \times 1.96 \mu g/m^3$ $= 1.546 \mu g/m^3, \text{ which is below the significance level of } 1.96 \mu g/m^3.$ 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 <sub>x</sub> or at least 250 tons per year of VOCs? Sources that emit at least 250 tons per year of NO <sub>x</sub> or at least 250 tons per year of VOCs are covered by the analysis above and require an individual analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |               | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 5 | For new PSD Major Sources or PSD major modifications, if MERPs were used to account for ozone fill out the information below. If another method was used describe below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |               |                              |                                        |
|   | NO <sub>x</sub> (ton/yr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MERP <sub>NOX</sub> | VOCs (ton/yr) | MERP <sub>VOC</sub>          | [O <sub>3</sub> ] <sub>8-hour</sub>    |
|   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | N/A                 | N/A           | N/A                          | N/A                                    |

## 16-M: Particulate Matter Modeling

|   |                                                                    |
|---|--------------------------------------------------------------------|
| 1 | Select the pollutants for which plume depletion modeling was used. |
|---|--------------------------------------------------------------------|

|   |                                                                                                                                                                                                                                                                                                                                                               |                                         |                             |                                         |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|-----------------------------------------|
|   | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                      | PM <sub>2.5</sub>                       |                             |                                         |
|   | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                      | PM <sub>10</sub>                        |                             |                                         |
|   | <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                           | <b>None</b>                             |                             |                                         |
| 2 | Describe the particle size distributions used. Include the source of information.                                                                                                                                                                                                                                                                             |                                         |                             |                                         |
|   | <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                    |                                         |                             |                                         |
| 3 | Does the facility emit at least 40 tons per year of NO <sub>x</sub> or at least 40 tons per year of SO <sub>2</sub> ? Sources that emit at least 40 tons per year of NO <sub>x</sub> or at least 40 tons per year of SO <sub>2</sub> are considered to emit significant amounts of precursors and must account for secondary formation of PM <sub>2.5</sub> . | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                         |
| 4 | Was secondary PM modeled for PM <sub>2.5</sub> ?                                                                                                                                                                                                                                                                                                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                         |
| 5 | If MERPs were used to account for secondary PM <sub>2.5</sub> fill out the information below. If another method was used describe below.                                                                                                                                                                                                                      |                                         |                             |                                         |
|   | Pollutant                                                                                                                                                                                                                                                                                                                                                     | NO <sub>x</sub>                         | SO <sub>2</sub>             | [PM <sub>2.5</sub> ] <sub>24-hour</sub> |
|   | MERP <sub>annual</sub>                                                                                                                                                                                                                                                                                                                                        | <b>43833</b>                            | <b>48057</b>                | <b>0.0004388</b>                        |
|   | MERP <sub>24-hour</sub>                                                                                                                                                                                                                                                                                                                                       | <b>33634</b>                            | <b>11410</b>                | <b>0.0005740</b>                        |
|   | Emission rate (ton/yr)                                                                                                                                                                                                                                                                                                                                        | <b>96.00</b>                            | <b>0.18</b>                 | <b>96.18</b>                            |
|   | <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                    |                                         |                             |                                         |

### 16-N: Setback Distances

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

### 16-O: PSD Increment and Source IDs

|   |                                                                                                                                                                                                                       |                                         |                                        |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| 1 | The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
|   | Unit Number in UA-2                                                                                                                                                                                                   | Unit Number in Modeling Files           |                                        |
|   | <b>N/A</b>                                                                                                                                                                                                            | <b>N/A</b>                              |                                        |
|   |                                                                                                                                                                                                                       |                                         |                                        |
| 2 | The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.                                                                                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |
|   | <b>N/A</b>                                                                                                                                                                                                            |                                         |                                        |
| 3 | Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?                                                                                                              | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |

|   |                                                                                                                                                                                                                                                                                     |                 |                 |                              |                                        |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|------------------------------|----------------------------------------|
| 4 | Which units consume increment for which pollutants?                                                                                                                                                                                                                                 |                 |                 |                              |                                        |
|   | Unit ID                                                                                                                                                                                                                                                                             | NO <sub>2</sub> | SO <sub>2</sub> | PM10                         | PM2.5                                  |
|   | ENG_1 – ENG_6                                                                                                                                                                                                                                                                       | All             | All             | All                          | N/A                                    |
|   | REB_1 – REB_5                                                                                                                                                                                                                                                                       | All             | All             | All                          | N/A                                    |
| 5 | PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).                                                                                                                                                             |                 | N/A             |                              |                                        |
| 6 | Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below. |                 |                 | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
|   | Installation dates are not yet available for the new units.                                                                                                                                                                                                                         |                 |                 |                              |                                        |

### 16-P: Flare Modeling

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

### 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 installation dates below. | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
|   | N/A                                                                                                                                                                                                                                          |                              |                                        |
| 2 | Describe the determination of sigma-Y and sigma-Z for fugitive sources.                                                                                                                                                                      |                              |                                        |
|   | N/A                                                                                                                                                                                                                                          |                              |                                        |
| 3 | Describe how the volume sources are related to unit numbers. Or say they are the same.                                                                                                                                                       |                              |                                        |
|   | N/A                                                                                                                                                                                                                                          |                              |                                        |
| 4 | Describe any open pits.                                                                                                                                                                                                                      |                              |                                        |
|   | N/A                                                                                                                                                                                                                                          |                              |                                        |
| 5 | Describe emission units included in each open pit.                                                                                                                                                                                           |                              |                                        |
|   | N/A                                                                                                                                                                                                                                          |                              |                                        |

### 16-R: Background Concentrations

|   |                                                                                                                                                                                          |                                         |                             |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|
| 1 | Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
|   | CO: N/A                                                                                                                                                                                  |                                         |                             |
|   | NO <sub>2</sub> : Bloomfield (350450009)                                                                                                                                                 |                                         |                             |
|   | PM <sub>2.5</sub> : Farmington Environment Department Office (350450019)                                                                                                                 |                                         |                             |
|   | PM <sub>10</sub> : N/A                                                                                                                                                                   |                                         |                             |

|   |                                                                                           |            |                              |                                        |
|---|-------------------------------------------------------------------------------------------|------------|------------------------------|----------------------------------------|
|   | SO <sub>2</sub> : <b>N/A</b>                                                              |            |                              |                                        |
|   | Other: <b>N/A</b>                                                                         |            |                              |                                        |
|   | Comments:                                                                                 | <b>N/A</b> |                              |                                        |
| 2 | Were background concentrations refined to monthly or hourly values? If so describe below. |            | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
|   | <b>N/A</b>                                                                                |            |                              |                                        |

### 16-S: Meteorological Data

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

Modeling was conducted using Bloomfield meteorological data collected during 2019. Year 2019 data was used since the facility has short stacks.

### 16-T: Terrain

|   |                                                                                                                                                                                                                                                                                                                                                               |                                         |                             |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|
| 1 | Was complex terrain used in the modeling? If not, describe why below.                                                                                                                                                                                                                                                                                         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
|   | <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                    |                                         |                             |
| 2 | What was the source of the terrain data?                                                                                                                                                                                                                                                                                                                      |                                         |                             |
|   | Terrain elevation data were obtained from NED data (1/3 second) taken from the USGS website. The AERMOD Terrain Preprocessor (AERMAP) was used to calculate the receptor elevations and terrain maximums. The domain used to calculate terrain maximums was sufficient to identify all terrain nodes that create a slope greater than or equal to 10 percent. |                                         |                             |
|   | Note that terrain elevations within the facility were identified from a site plot plan.                                                                                                                                                                                                                                                                       |                                         |                             |

### 16-U: Modeling Files

| 1 | Describe the modeling files:               |                                                                                   |                                                            |
|---|--------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------|
|   | File name (or folder and file name)        | Pollutant(s)                                                                      | Purpose (ROI/SIA, cumulative, culpability analysis, other) |
|   | 32-9 – Modeling – AERMAP.zip               | <b>N/A</b>                                                                        | <b>Terrain Elevation Data</b>                              |
|   | 32-9 – Modeling – AERMOD ROI.zip           | <b>NO<sub>2</sub>, CO, SO<sub>2</sub>, PM<sub>10</sub> &amp; PM<sub>2.5</sub></b> | <b>ROI/SIA</b>                                             |
|   | 32-9 – Modeling – AERMOD NAAQS.zip         | <b>NO<sub>2</sub> &amp; PM<sub>2.5</sub></b>                                      | <b>Cumulative</b>                                          |
|   | 32-9 – Modeling – AERMOD PSD.zip           | <b>NO<sub>2</sub> &amp; PM<sub>2.5</sub></b>                                      | <b>Cumulative</b>                                          |
|   | 32-9 – Modeling – Input Data & Results.zip | <b>N/A</b>                                                                        | <b>Input data &amp; results workbook</b>                   |
|   | 32-9 – Modeling – Protocol.zip             | <b>N/A</b>                                                                        | <b>Copy of approved protocol</b>                           |
|   | 32-9 – Modeling – Report.zip               | <b>N/A</b>                                                                        | <b>Copy of report</b>                                      |

### 16-V: PSD New or Major Modification Applications

|   |                                                                                                              |                              |                                        |
|---|--------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|
| 1 | A new PSD major source or a major modification to an existing PSD major source requires additional analysis. | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
|---|--------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|

|   |                                                                                                                                                     |                              |                             |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
|   | Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)? <b>N/A</b>                           |                              |                             |
| 2 | If not, did AQB approve an exemption from preconstruction monitoring? <b>N/A</b>                                                                    | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3 | Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.<br><b>N/A</b> |                              |                             |
| 4 | Describe the additional impacts analysis required at 20.2.74.304 NMAC.<br><b>N/A</b>                                                                |                              |                             |
| 5 | If required, have ozone and secondary PM <sub>2.5</sub> ambient impacts analyses been completed? If so describe below.                              | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
|   | <b>N/A</b>                                                                                                                                          |                              |                             |

**16-W: Modeling Results**

| 1                                         | If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below. |                                                                 |                         |                                        |                                        |                                 |                        | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |                   |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------|----------------------------------------|----------------------------------------|---------------------------------|------------------------|------------------------------|----------------------------------------|-------------------|
|                                           | N/A                                                                                                                                                                                                                                                                                           |                                                                 |                         |                                        |                                        |                                 |                        |                              |                                        |                   |
| 2                                         | Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.                                                                                                                                                    |                                                                 |                         |                                        |                                        |                                 |                        |                              |                                        |                   |
| Pollutant,<br>Time Period<br>and Standard | Modeled<br>Facility<br>Concentration<br>(µg/m3)                                                                                                                                                                                                                                               | Modeled<br>Concentration<br>with Surrounding<br>Sources (µg/m3) | Secondary<br>PM (µg/m3) | Background<br>Concentration<br>(µg/m3) | Cumulative<br>Concentration<br>(µg/m3) | Value of<br>Standard<br>(µg/m3) | Percent of<br>Standard | Location                     |                                        |                   |
|                                           |                                                                                                                                                                                                                                                                                               |                                                                 |                         |                                        |                                        |                                 |                        | UTM E (m)                    | UTM N (m)                              | Elevation<br>(ft) |
| NO <sub>2</sub><br>1-Hr                   | 128.17                                                                                                                                                                                                                                                                                        | 135.11                                                          | N/A                     | N/A                                    | 135.11                                 | 188.03                          | 71.86                  | 249,500                      | 4,086,000                              | 6,358             |
| NO <sub>2</sub><br>Annual                 | 9.09                                                                                                                                                                                                                                                                                          | N/A                                                             | N/A                     | 18.50                                  | 27.59                                  | 99.66                           | 27.69                  | 245,173                      | 4,087,137                              | 6,237             |
| NO <sub>2</sub><br>Annual                 | 9.09                                                                                                                                                                                                                                                                                          | N/A                                                             | N/A                     | 18.50                                  | 27.59                                  | 94.02                           | 29.35                  | 245,173                      | 4,087,137                              | 6,237             |
| NO <sub>2</sub><br>Annual                 | 9.09                                                                                                                                                                                                                                                                                          | 12.13                                                           | N/A                     | N/A                                    | 12.13                                  | 25                              | 48.53                  | 245,173                      | 4,087,137                              | 6,237             |
| CO<br>1-Hr                                | 54.48                                                                                                                                                                                                                                                                                         | N/A                                                             | N/A                     | N/A                                    | N/A                                    | N/A                             | N/A                    | N/A                          | N/A                                    | N/A               |
| CO<br>8-Hr                                | 38.94                                                                                                                                                                                                                                                                                         | N/A                                                             | N/A                     | N/A                                    | N/A                                    | N/A                             | N/A                    | N/A                          | N/A                                    | N/A               |
| SO <sub>2</sub><br>1-Hr                   | 0.25                                                                                                                                                                                                                                                                                          | N/A                                                             | N/A                     | N/A                                    | N/A                                    | N/A                             | N/A                    | N/A                          | N/A                                    | N/A               |
| SO <sub>2</sub><br>3-Hr                   | 0.19                                                                                                                                                                                                                                                                                          | N/A                                                             | N/A                     | N/A                                    | N/A                                    | N/A                             | N/A                    | N/A                          | N/A                                    | N/A               |
| SO <sub>2</sub><br>24-Hr                  | 0.08                                                                                                                                                                                                                                                                                          | N/A                                                             | N/A                     | N/A                                    | N/A                                    | N/A                             | N/A                    | N/A                          | N/A                                    | N/A               |
| SO <sub>2</sub><br>Annual                 | 0.02                                                                                                                                                                                                                                                                                          | N/A                                                             | N/A                     | N/A                                    | N/A                                    | N/A                             | N/A                    | N/A                          | N/A                                    | N/A               |
| PM <sub>10</sub><br>24-Hr                 | 2.50                                                                                                                                                                                                                                                                                          | N/A                                                             | N/A                     | N/A                                    | N/A                                    | N/A                             | N/A                    | N/A                          | N/A                                    | N/A               |

| Pollutant,<br>Time Period<br>and Standard | Modeled<br>Facility<br>Concentration<br>(µg/m3) | Modeled<br>Concentration<br>with Surrounding<br>Sources (µg/m3) | Secondary<br>PM (µg/m3) | Background<br>Concentration<br>(µg/m3) | Cumulative<br>Concentration<br>(µg/m3) | Value of<br>Standard<br>(µg/m3) | Percent of<br>Standard | Location       |                  |                   |
|-------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------|-------------------------|----------------------------------------|----------------------------------------|---------------------------------|------------------------|----------------|------------------|-------------------|
|                                           |                                                 |                                                                 |                         |                                        |                                        |                                 |                        | UTM E (m)      | UTM N (m)        | Elevation<br>(ft) |
| <b>PM<sub>10</sub><br/>Annual</b>         | <b>0.34</b>                                     | <b>N/A</b>                                                      | <b>N/A</b>              | <b>N/A</b>                             | <b>N/A</b>                             | <b>N/A</b>                      | <b>N/A</b>             | <b>N/A</b>     | <b>N/A</b>       | <b>N/A</b>        |
| <b>PM<sub>2.5</sub><br/>24-Hr</b>         | <b>2.48</b>                                     | <b>N/A</b>                                                      | <b>0.00057</b>          | <b>11.77</b>                           | <b>14.25</b>                           | <b>35</b>                       | <b>40.72</b>           | <b>245,200</b> | <b>4,087,100</b> | <b>6,237</b>      |
| <b>PM<sub>2.5</sub><br/>Annual</b>        | <b>0.63</b>                                     | <b>N/A</b>                                                      | <b>0.00044</b>          | <b>4.19</b>                            | <b>4.82</b>                            | <b>9</b>                        | <b>53.51</b>           | <b>245,100</b> | <b>4,087,180</b> | <b>6,230</b>      |
|                                           |                                                 |                                                                 |                         |                                        |                                        |                                 |                        |                |                  |                   |

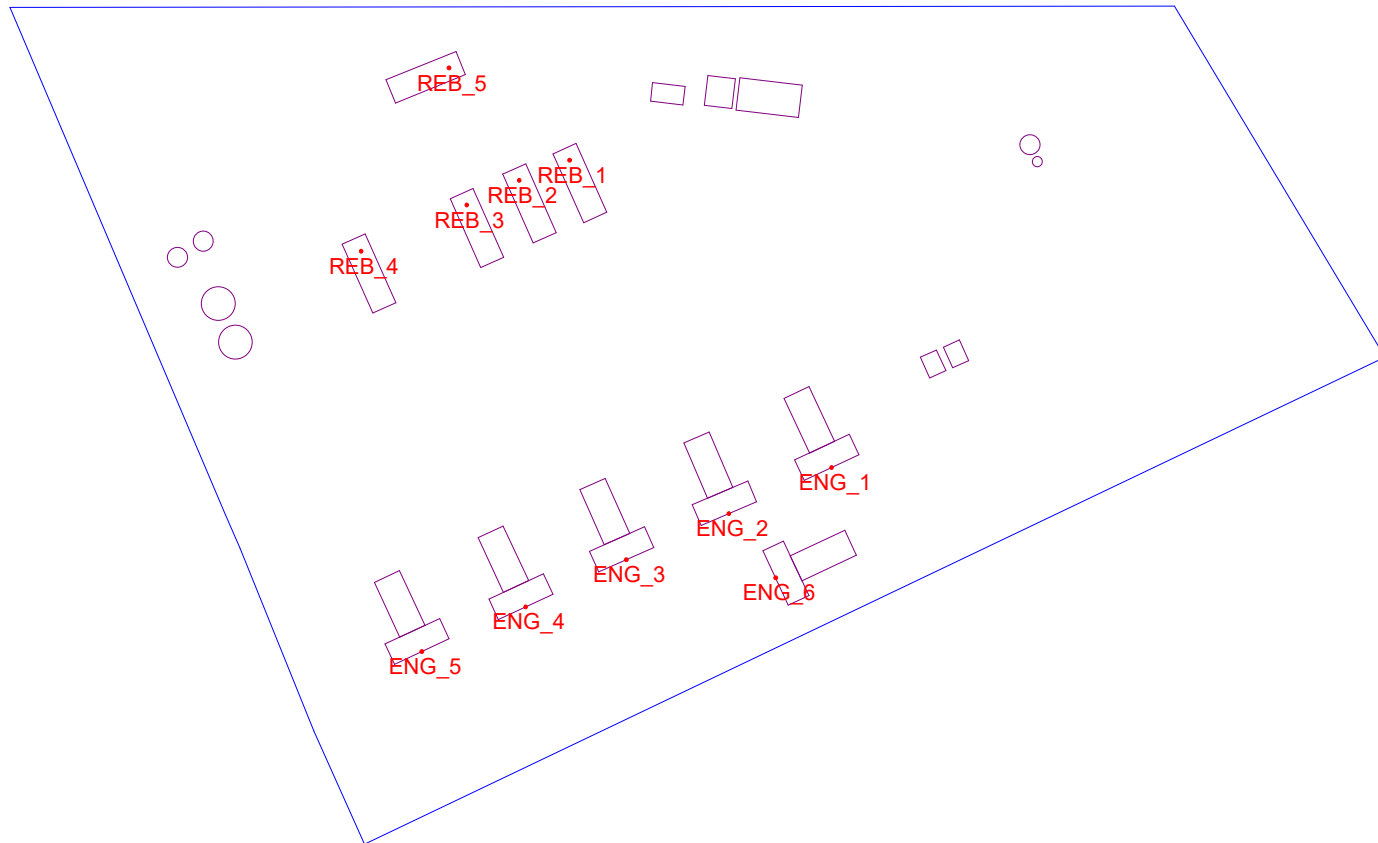
**16-X: Summary/conclusions**

1

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

**The modeling requirements have been satisfied and the permit can be issued.**

**Figure 1**



Scale: 1 inch = 23.3 Meters

# 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 |
|----------|------------------------------------------------------|-----------|
| 1        | Tested as required by the Title V permit (NO2 & CO). | 9/10/2024 |
| 2        | Tested as required by the Title V permit (NO2 & CO). | 9/10/2024 |
| 3        | Tested as required by the Title V permit (NO2 & CO). | 9/10/2024 |
| 4        | Tested as required by the Title V permit (NO2 & CO). | 9/10/2024 |
| 5        | Tested as required by the Title V permit (NO2 & CO). | 9/10/2024 |

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# Section 18

## Addendum for Streamline Applications

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Streamline Applications do not require a complete application. Submit Sections 1-A, 1-B, 1-D, 1-F, 1-G, 2-A, 2-C thru L, Sections 3 thru 8, Section 13, Section 18, Section 22, and Section 23 (Certification). Other sections may be required at the discretion of the Department. 20.2.72.202 NMAC Exemptions do not apply to Streamline sources. 20.2.72.219 NMAC revisions and modifications do not apply to Streamline sources, thus 20.2.72.219 type actions require a complete new application submittal. Please do not print sections of a streamline application that are not required.

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Not applicable, as this is not a streamline application.

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# Section 19

## Requirements for Title V Program

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**Who Must Use this Attachment:**

- \* Any major source as defined in 20.2.70 NMAC.
  - \* Any source, including an area source, subject to a standard or other requirement promulgated under Section 111 - Standards of Performance for New Stationary Sources, or Section 112 Hazardous Air Pollutants, of the 1990 federal Clean Air Act ("federal Act"). Non-major sources subject to Sections 111 or 112 of the federal Act are exempt from the obligation to obtain an 20.2.70 NMAC operating permit until such time that the EPA Administrator completes rulemakings that require such sources to obtain operating permits. In addition, sources that would be required to obtain an operating permit solely because they are subject to regulations or requirements under Section 112(r) of the federal Act are exempt from the requirement to obtain an Operating Permit.
  - \* Any Acid Rain source as defined under title IV of the federal Act. The Acid Rain program has additional forms. See [www.env.nm.gov/air-quality/air-quality-title-v-operating-permits-guidance-page/](http://www.env.nm.gov/air-quality/air-quality-title-v-operating-permits-guidance-page/). Sources that are subject to both the Title V and Acid Rain regulations are encouraged to submit both applications simultaneously.
  - \* Any source in a source category designated by the EPA Administrator ("Administrator"), in whole or in part, by regulation, after notice and comment.
- 

Not applicable, as this is not a Title V operating permit application.

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# Section 20

## Other Relevant Information

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**Other relevant information.** Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

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This section contains the NMAQB *Compliance History Disclosure Form*.



## 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                                 |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Harvest Four Corners, LLC                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | October 2025                                                        |
| Permittee/Company Contact                                                                                               | Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Email                                                               |
| Monica Smith                                                                                                            | 505-632-4625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MSmith@harvestmidstream.com                                         |
| <b>Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     |
| 1                                                                                                                       | Knowingly misrepresented a material fact in an application for a permit?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2                                                                                                                       | Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3                                                                                                                       | Been convicted of a felony related to environmental crime in any court of any state or the United States?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 4                                                                                                                       | Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States?                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 5b                                                                                                                      | <p>If "No" to question 5a, go to question 6.</p> <p>If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions:</p> <p>a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or</p> <p>b. The operator of the facility estimated that the facility's emissions would not require an air permit, <b>and</b> the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility.</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 6                                                                                                                       | Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 7                                                                                                                       | For each "yes" answer, please provide an explanation and documentation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                     |

# Section 21

## Addendum for Landfill Applications

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Landfill Applications are not required to complete Sections 1-C Input Capacity and Production Rate, 1-E Operating Schedule, 17 Compliance Test History, and 18 Streamline Applications. Section 12 – PSD Applicability is required only for Landfills with Gas Collection and Control Systems and/or landfills with other non-fugitive stationary sources of air emissions such as engines, turbines, boilers, heaters. All other Sections of the Universal Application Form are required.

EPA Background Information for MSW Landfill Air Quality Regulations: [www.epa.gov/stationary-sources-air-pollution/clean-air-act-guidelines-and-standards-waste-management](http://www.epa.gov/stationary-sources-air-pollution/clean-air-act-guidelines-and-standards-waste-management)

NM Solid Waste Bureau Website: [www.env.nm.gov/solid-waste/](http://www.env.nm.gov/solid-waste/)

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Not applicable, as the facility is not a landfill.

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## Section 22

### Certification

Company Name: Harvest Four Corners, LLC

I, Monica Smith, 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 10<sup>th</sup> 13 day of October, 2025, upon my oath or affirmation, before a notary of the State of New Mexico.

Monica Smith  
\*Signature

Oct. 13 2025  
Date

Monica Smith  
Printed Name

Environmental Specialist  
Title

Scribed and sworn before me on this 13 day of October, 2025.

My authorization as a notary of the State of New Mexico expires on the 23 day of November, 2025.

Jennifer Deal  
Notary's Signature

\_\_\_\_\_  
Date

Jennifer Deal  
Notary's Printed Name

STATE OF NEW MEXICO  
NOTARY PUBLIC  
JENNIFER DEAL  
COMMISSION # 1136075  
COMMISSION EXPIRES 11/23/2025

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

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