From: Rebecca Beatty < RBeatty@apexcos.com>
Sent: Wednesday, August 26, 2015 11:05 AM

**To:** Magee, Melanie

**Cc:** shrishti chhabra@kindermorgan.com

**Subject:** Copano - PSD-TX-104949-GHG Rescission Request

**Attachments:** TRV 104949 082012.docx; Registration 104949 082012.pdf; TRV 104949 070314.docx; Registration

104949 070314.pdf; Registration 101369 080812.pdf

Good morning, Melanie.

As I mentioned on the phone, the flare is authorized under a different standard permit registration.

The RTO authorized under standard permit registration 104949 in 2012 was removed from the same registration in 2014. Copano elected to install an electric compressor to pressurize the amine unit acid gas stream and route it to the sales gas pipeline rather than combusting it onsite.

I have attached copies of the TCEQ tech reviews and issued standard permit registration letters for both the 2012 and 2014 projects involving registration number 101369. I have also attached a copy of the issue letter for standard permit registration number 101369, which authorizes the flare.

Please let me know if you need any additional information. Thank you!



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| Permit No.:  | 104949 | Company Name:   | Copano Processing, L.P.                   | APD Reviewer: | Mr. Guillermo Reyes, P.E.     |
|--------------|--------|-----------------|---|---------------|-------------------------------|
| Project No.: | 178074 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - (PRE 2011-FEB-<br>27). |

| GENERAL INFORMATION     |                           |                            |                             |  |  |  |  |
|-------------------------|---------------------------|----------------------------|-----------------------------|--|--|--|--|
| Regulated Entity No.:   | RN101271419               | Project Type:              | Standard Permit Application |  |  |  |  |
| Customer Reference No.: | CN601465255               | Date Received by TCEQ:     | May 16, 2012                |  |  |  |  |
| Account No.:            | CR-0020-C                 | Date Received by Reviewer: | July 09, 2012               |  |  |  |  |
| City/County:            | Sheridan, Colorado County | Physical Location:         | 1650 County Rd 255 South    |  |  |  |  |

| CONTACT INFORMATION  |   |                        |                                  |        |  |  |  |
|--|---|------------------------|----------------------------------|--------|--|--|--|
| Responsible<br>Official/Primary Contact<br>Name and Title: | Mr. Rex J Prosser<br>Sr Director EH&sSCorporate | Phone No.:<br>Fax No.: | (713) 621-9547<br>(713) 737-9081 | Email: |  |  |  |
| Technical<br>Contact/Consultant<br>Name and Title:         |   | Phone No.:<br>Fax No.: |                                  | Email: |  |  |  |

| GENERAL RULES CHECK   | YES | NO | COMMENTS   |
|---|-----|----|--|
| Is confidential information included in the application?  |     | X  |  |
| Are there associated NSR or Title V permits at the site?  | Х   |    | The site operates under NSR permits 56613, 17117, 96187 and 17554/PSD-TX-709M1. Permit No. 56613 is affected. The site operates under standard permits No. 101369 and 96187. The site operates under PBR's 50221, 102105, 102542, 101750. The site operates under Title V permit No. O-00807 (SOP) and O-00871 (GOP) |
| Is the application for renewal of an existing standard permit?  |     | X  |  |
| Do NSPS, NESHAP, or MACT standards apply to this registration?  | X   |    | Turbines NSPS KKKK<br>Fugitives NSPS KKK   |
| Is the following documentation included with this registration?  1. The General Requirements Checklist demonstrating compliance with 30 TAC §§ 116.110 and 116.601-615  2. Process description  3. Project description  4. Descriptions of any equipment being installed  5. Emissions calculations including the basis of the calculations  6. Emission increases and/or decreases associated with this project (quantified)  7. Description of efforts to minimize any collateral emissions or collateral increases | X   |    | If NO, note any requests for additional information and date received:   |
| Are any requirements of 116.110 circumvented by: (1) artificially limiting feed or production rates below the maximum capacity of the project's equipment; (2) claiming a limited chemical list; or (3) dividing and registering a project in separate segments?  |     | X  | If YES, are the limits intended to allow the project to move forward while waiting for a permit or permit amendment that will allow full-scale operations, particularly when the project would not be economically feasible until fully authorized?  |

| YES | NO | COMMENTS  |
|-----|----|---|
| X   |    |   |
| X   |    | If YES, list contaminant and associated emission limit in \$\ \\$\ \$106.261(3)\ or (4)\ or 106.262(3): |
|     | X  |   |
|     | X  | If NO, list the emission rate (must be ≤4 lb/hr):   |
| X   |    | List vent heights: > 20 FT.   |
| X   |    | TURBINES =  |
|     |    | Hp= 15,000  |
|     |    | Fuel type=natural gas   |
|     |    | NOX emission factor=0.125 g/hp-hr   |
|     | X  | X X X X X   |

| Permit No.:  | 104949 | Company Name:   | Copano Processing, L.P.                   | APD Reviewer: | Mr. Guillermo Reyes, P.E.     |
|--------------|--------|-----------------|---|---------------|-------------------------------|
| Project No.: | 178074 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - (PRE 2011-FEB-<br>27). |

| Is there a natural gas glycol dehydration unit at the site that emits >10 tpy of VOCs?  |   | X  | If YES, mark the t flash tank Vapor Recove       | <i>type of control devic</i><br>ery Unit       | e used.             |
|---|---|----|--|--|---------------------|
|   |   |    | VOC destruct                                     |  |                     |
| Are any combustion units with a design maximum heat input value > 40 MBtu/hr at the site (other than flares, internal combustion engines, or natural gas turbines)? |   | X  | If YES, list NO <sub>x</sub> en < 0.06 lb/MBtu): | nissions in pounds p                           | er MBtu.(must be    |
| Are VOC process fugitive emissions uncontrolled?  | X |    | VOCs (tpy)                                       | receptor < 500'                                | receptor ≥500'      |
| If YES, mark applicable inspection and repair requirements. [§ 116.620(c)(1) or § 116.620(c)(2)]  |   |    | <u><b>X</b></u> <10                              | no LDAR  | no LDAR             |
| [310.020(c)(1) 01 3110.020(c)(2)]   |   |    | 10≤25  | 28M [(c)(1)]                                   | no LDAR             |
|   |   |    | <u> 25≤40</u>                                    | 28VHP [(c)(2)]                                 | 28M [(c)(1)]        |
|   |   |    | >40  | 28VHP [(c)(2)]                                 | 28VHP [(c)(2)]      |
| Are all components in sweet crude oil or gas service (defined in 30 TAC Chapter 101)?   | X |    | RECEPTOR<br>< ½ mile                             | <u>APPLICABLI</u><br>§ 116.62                  | E REQUIREMENT       |
| If NO, mark applicable inspection and monitoring requirements.  |   |    | < 74 mile<br>≥ ½ mile                            | _  | 20 (c)(3) or (e)(1) |
| [§§ 116.620(c)(3) and 116.620(e)(1)]  |   |    |  | 3 110,00                                       | (0) (0) 01 (0) (1)  |
| Are there flares at the facility?   |   | X  | If YES, fill in the a                            |  |                     |
|   |   |    |  | g value of waste gas.<br>ry for adequate com   |                     |
|   |   |    | Maximum tip vel                                  |  | oustion:            |
|   |   |    | Method of pilot fla                              |  |                     |
| Is a flare the only combustion unit at the site?  |   | No |  | uel type for all comb                          | ustion units.       |
|   |   |    | X sweet natural liquid petrole                   |  |                     |
|   |   |    |  | um gas<br>rains total sulfur/10                | 0 dscf              |
|   |   |    |  | grains H <sub>2</sub> S/100 dcfn               |                     |
|   |   |    | or ≤30 grain                                     | s total sulfur/100 ds                          | scf                 |
|   |   |    |  | grains H <sub>2</sub> S/100 dcfn               |                     |
|   |   |    |  | ns total sulfur/100 ds<br>ng requirements of § |                     |
|   |   |    | applicable)                                      | ng requirements or 3                           | 110.020(a)(10)      |
| Are all storage tanks onsite either (1) pressurized; (2) < 25,000 gallons   | X |    | If NO, mark the a                                |  |                     |
| in size; or (3) used for storage of compounds with vapor pressures <  |   |    |  | ng roof [§ 116.620(b)                          |                     |
| 0.5 psia?   |   |    |  | ng roof [§ 116.620(b)<br>on device with 98%    |                     |
|   |   |    | efficiency                                       | on device with 90%                             | acstraction         |
|   |   |    | Vapor Recove                                     | ry System with 95%                             |                     |
| Are there any fixed roof storage tanks onsite that emit > 10 tpy VOCs   |   | X  |  | oe of control device a                         | and its efficiency  |
| or sulfur compounds?  |   |    | [§ 116.620(b)(1)(1                               | <i>)</i> )]:                                   |                     |

**DESCRIBE OVERALL PROCESS AT THE SITE**Copano Processing, L.P. owns and operates the Houston Central Gas Plant (HCP), which is a natural gas processing, treatment, and fractionation facility that has a current capacity of 1.10 billion standard cubic feet per day (MMSCFD).

| ĺ | Permit No.:  | 104949 | Company Name:   | Copano Processing, L.P.                   | APD Reviewer: | Mr. Guillermo Reyes, P.E.     |
|---|--------------|--------|-----------------|---|---------------|-------------------------------|
|   | Project No.: | 178074 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - (PRE 2011-FEB-<br>27). |

#### DESCRIBE PROJECT AND INVOLVED PROCESS

Copano is proposing to add an additional 400 MMSCFD cryogenic process, bringing the total plant capacity up to 1.5 billion standard cubic feet per day (BSCFD).

New project air emission sources consist of two supplemental gas-fired heaters (HTR-3 and HTR-4), a LL Treater controlled by a new Regenerative Thermal Oxidizer (RTO-3), an amine storage tank (TANK-3), two (2) Solar Mars 100 combustion turbines (TURB-5 and TURB-6) used for compression of the residue gas, fugitive piping components (CRY03 FUG), and flaring of flash gas from the vent from the flasher in the LL Treater process. The flare (FLARE) has been previously authorized under TCEQ Standard Permit No. 101369.

High pressure natural gas from the inlet pipeline will enter the plant, where it is first dehydrated through a molecular sieve dehydrator. After dehydration, the dry gas will then be processed through a cryogenic process removing the natural gas liquids (NGLs) from the gas. The NGLs are then sent through the site's existing fractionation columns. The residue gas from the cryogenic process will then be compressed and sent to sales. The compressors are driven by two new gas-fired combustion turbines. The liquids will be treated in a liquid amine treating unit (LL Treater), where CO2 and trace amounts of H2S will be removed from the NGLs. The acid gas (mostly CO2 along with minor concentrations of H2S and hydrocarbons) will then be routed to a new regenerative thermal oxidizer.

PSD —The Houston Central Gas Plant is a PSD major source, but increases of VOC (12.04 tpy), NO<sub>x</sub> (38.35 tpy) CO (66.12), SO2 (3.51) and PM (6.78) are less than the PSD significance level.

There are two other cryogenic plants at the site. APD staff asked why this project should not be revision to one of the existing permits at the site. Copano Processing L.P. represented that the new cryogenic is a separate process that will operate independent of the other two cryogenic plants and as such should be an independent permitting project requiring a new permit.

Copano represents that the heaters (EPNs HTR-3 and HTR-4) will only operate 600 hrs per year.

No MSS emissions are being registered under this project.

#### TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES

| Permit No.:  | 104949 | Company Name:   | Copano Processing, L.P.                   | APD Reviewer: | Mr. Guillermo Reyes, P.E.     |
|--------------|--------|-----------------|---|---------------|-------------------------------|
| Project No.: | 178074 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - (PRE 2011-FEB-<br>27). |

#### §106.512. Stationary Engines and Turbines.

- (1) Turbines are rated at 15,000-hp, Form PI-1S, and Table 31s have been submitted.
- (2) NA, there are no engines being registered under this project.
- (3)  $NO_x$  emissions (0.125 g/hp-hr) will not exceed 3.0 g/hp-hr; turbines will meet all applicable  $NO_x$  and  $SO_2$  emission limits, monitoring requirements, and reporting requirements of NSPS Subpart GG.
- (4) NA, there are no engines being registered under this project.
- (5) Gas fuel will be limited to sweet natural gas.
- (6) Compliance with hourly and annual NO<sub>2</sub> NAAQS has been demonstrated using Screen 3.

The following

Stack heights = 20 feet for turbines, 30 feet for supplemental heaters, 25 feet for RTO

|          |                                  | ]      | NO.   |              | NO <sub>2</sub> | "SCREEN Impact<br>Max 1-hour Concentration |
|----------|----------------------------------|--------|-------|--------------|-----------------|--|
| EPN      | Source Name                      | lb/hr  | tpy   | NO2/NO.Ratio | lb/hr           | (ug/m <sup>6</sup> )                       |
| Existing | Sources:                         |        |       |              |                 |  |
| BLR-3N   | [ Boiler 3N                      | I 2.16 | 9.46  | 0.40         | 0.86            | 2.80                                       |
|          |                                  |        |       |              |                 |  |
| New Sou  | rces to be Authorized:           |        |       |              |                 |  |
| TURB-5   | Solar Turbine Mars 100           | 4.13   | 18.07 | 0.40         | 1.65            | 0.50                                       |
| TURB-6   | Solar Turbine Mars 100           | 4:13   | 18.07 | 0.40         | 1.66            | 0.50                                       |
| I-ITR-3  | 'Supplemental Gas Heater         | 2.45   | 0.74  | 0.80         | 1.96            | 17.97                                      |
| HTR-4    | Supplemental Gas Heater          | 2.45   | 0.74  | 0.80         | 1.96            | 17.97                                      |
| RT0-3    | Regenerative Thermal<br>Oxidizer | 0.317  | 0.733 | 0.80         | 0.25390         | 1.04                                       |
|          | 37.98                            |        |       |              |                 |  |

Annual Screen Model Results for NO2

| New Source Max 1-hour<br>Concentration |                       | Annual<br>Concentration | Background<br>Concentration | Total<br>Concentration | Annual NAAQS |                       |
|--|-----------------------|-------------------------|-----------------------------|------------------------|--------------|-----------------------|
| (ug/m³)                                | MuItiplying<br>Factor | (ug/m³)                 | (ug/m³)                     | (ug/m³)                | (ug/m³)      | Compliant with NAAQS? |
| 40.78                                  | 0.08                  | 3.26                    | 20                          | 23.26                  | 100          | Yes                   |

#### 1-Hour Screen Model Results for NO2

| New Source Max 1hour<br>Concentration | Background<br>Concentration | Total<br>Concentration | 1-Hour<br>NAAQS<br>Standard | Compliant with |
|---------------------------------------|-----------------------------|------------------------|-----------------------------|----------------|
| (ug/m³)                               | (ug/m³)                     | (ug/m³)                | (ug/m³)                     | NAAQS?         |
| 37.98                                 | 70                          | 107.98                 | 188                         | Yes            |

D = > 600 ft and K = 65

| PBR 106.261 and 106.262 Emission Limits |               |          |  |                          |                              |                            |  |  |  |
|---|---------------|----------|--|--------------------------|------------------------------|----------------------------|--|--|--|
| Chemical                                | PBR Claimed   | L, mg/m³ | Emission<br>Limit<br>(E = L/K),<br>lb/hr | Emission<br>Limit<br>tpy | Actual<br>Emissions<br>lb/hr | Actual<br>Emissions<br>tpy |  |  |  |
| Propane                                 | 106.261(a)(2) | -        | 6.00                                     | 10.00                    | 0.51                         | 2.21                       |  |  |  |
| Butanes                                 | 106.261(a)(2) | -        | 6.00                                     | 10.00                    | 0.39                         | 1.70                       |  |  |  |
| Pentanes                                | 106.262       | 350      | 6.00                                     | 5.00                     | 0.35                         | 1.54                       |  |  |  |
| C6+ (Hexanes+)                          | 106.262       | 176      | 2.71                                     | 5.00                     | 0.40                         | 1.76                       |  |  |  |
|   |               |          |  | Total Emissions:         | 1.65                         | 7.21                       |  |  |  |

| Permit No.:  | 104949 | Company Name:   | Copano Processing, L.P.                   | APD Reviewer: | Mr. Guillermo Reyes, P.E.     |
|--------------|--------|-----------------|---|---------------|-------------------------------|
| Project No.: | 178074 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - (PRE 2011-FEB-<br>27). |

| MAXIMUM ALL                       | OWABLE E                      | MISSIO | N RAT | ES TABL | E (MAI        | ERT)   |       |        |      |        |        |        |       |          |        |
|-----------------------------------|-------------------------------|--------|-------|---------|---------------|--------|-------|--------|------|--------|--------|--------|-------|----------|--------|
| EPN /                             | Specific                      | VO     | C     | NO      | x             | C      | 0     | PM     | 10   | PM     | 2.5    | SC     | )2    | Formalo  | dehyde |
| Emission<br>Source                | VOC or<br>Other<br>Pollutants | lbs/hr | tpy   | lbs/hr  | tpy           | lbs/hr | tpy   | lbs/hr | tpy  | lbs/hr | tpy    | lbs/hr | tpy   | lbs/hr   | tpy    |
| TURB-5/Solar<br>Mars 100 Turbine  |                               | 0.80   | 3.50  | 4.13    | 18.07         | 6.98   | 30.57 | 0.76   | 3.31 | 0.76   | 3.31   | 0.39   | 1.71  | 0.08     | 0.36   |
| TURB-6/Solar<br>Mars 100 Turbine  |                               | 0.80   | 3.50  | 4.13    | 18.07         | 6.98   | 30.57 | 0.76   | 3.31 | 0.76   | 3.31   | 0.39   | 1.71  | 0.08     | 0.36   |
| HTR-3/Gas<br>Heater               |                               | 0.13   | 0.04  | 2.45    | 0.74          | 2.06   | 0.62  | 0.19   | 0.06 | 0.19   | 0.06   | 0.01   | <0.01 | <0.01    | <0.01  |
| HTR-4/Gas<br>Heater               |                               | 0.13   | 0.04  | 2.45    | 0.74          | 2.06   | 0.62  | 0.19   | 0.06 | 0.19   | 0.06   | 0.01   | <0.01 | <0.01    | <0.01  |
| RTO-3/RTO                         |                               | 0.53   | 2.28  | 0.32    | 0.73          | 1.27   | 3.74  | 0.02   | 0.04 | 0.02   | 0.04   | 0.02   | 0.09  |          |        |
| TANkS-3/Storage<br>Tanks          |                               | 0.01   | 0.01  |         |               |        |       |        |      |        |        |        |       |          |        |
| CRYO3<br>FUG/Process<br>Fugitives |                               | 0.61   | 2.67  |         |               |        |       |        |      |        |        |        |       |          |        |
| TOTAL EMISSI                      | ONS (TPY):                    | 3.01   | 12.04 | 13.48   | 38.35         | 19.35  | 66.12 | 1.91   | 6.78 | 1.91   | 6.78   | 0.83   | 3.51  | 0.17     | 0.71   |
| MAXIMUM O                         | PERATING<br>CHEDULE:          |        |       | Hours/I | <b>Day</b> 24 | Days   | /Week | 7      |      | Weeks  | s/Year | 52     | Hou   | ırs/Year | 8760   |

|               | TECHNICAL REVIEWER           | PEER REVIEWER    | FINAL REVIEWER |
|---------------|------------------------------|------------------|----------------|
| SIGNATURE:    | Dulle of Estegen             | Monico Bande     | See Hard Copy. |
| PRINTED NAME: | Mr. Guillermo E. Reyes, P.E. | Mr. Monico Banda |                |
| DATE:         |                              | August 17, 2012  |                |

| BASIS OF PROJECT POINTS                          | POINTS |
|--|--------|
| Base Points:                                     | 2.5    |
| Project Complexity Description and Points:       | 1.0    |
| Technical Reviewer Project Points<br>Assessment: | 3.5    |
| Final Reviewer Project Points Confirmation:      |        |

| Permit No.:  | 104949 | Company Name:   | COPANO PROCESSING LLC                     | APD Reviewer: | Mr. Isaac Vela                    |
|--------------|--------|-----------------|---|---------------|-----------------------------------|
| Project No.: | 212536 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - 116.620 PRE<br>2011-FEB-27 |

| GENERAL INFORMATION     |                           |                            |                             |  |  |  |  |  |
|-------------------------|---------------------------|----------------------------|-----------------------------|--|--|--|--|--|
| Regulated Entity No.:   | RN101271419               | Project Type:              | Standard Permit Application |  |  |  |  |  |
| Customer Reference No.: | CN604532515               | Date Received by TCEQ:     | June 18, 2014               |  |  |  |  |  |
| Account No.:            | CR-0020-C                 | Date Received by Reviewer: | June 25, 2014               |  |  |  |  |  |
| City/County:            | Sheridan, Colorado County | Physical Location:         | 1650 County Rd 255 South    |  |  |  |  |  |

| CONTACT INFORMATION  |  |                        |                                  |        |                                       |  |  |
|--|--|------------------------|----------------------------------|--------|---------------------------------------|--|--|
| Responsible<br>Official/Primary Contact<br>Name and Title: | Mr. Michael Catt<br>VP Ops                     | Phone No.:<br>Fax No.: | (713) 420-2020<br>(713) 420-2010 | Email: | Michael catt@kinderm<br>organ.com     |  |  |
| Technical<br>Contact/Consultant<br>Name and Title:         | Mr. Michael Zeilstra<br>Environmental Engineer | Phone No.:<br>Fax No.: | 713-420-4333                     | Email: | Michael zeilstra@kinde<br>rmorgan.com |  |  |

| GENERAL RULES CHECK   | YES | NO | COMMENTS   |
|---|-----|----|--|
| Is confidential information included in the application?  |     | X  |  |
| Are there associated NSR or Title V permits at the site?  | X   |    | The site operates under NSR permits 56613, 17117, 96187 and 17554/PSD-TX-709M1. Permit No. 56613 is affected. The site operates under standard permits No. 101369 and 96187. The site operates under PBR's 50221, 102105, 102542, 101750. The site operates under Title V permit No. 0-00807 (SOP) and 0-00871 (GOP) |
| Is the application for renewal of an existing standard permit?  |     | X  |  |
| Do NSPS, NESHAP, or MACT standards apply to this registration?  | X   |    | Turbines NSPS KKKK<br>Fugitives NSPS KKK   |
| Is the following documentation included with this registration?  1. The General Requirements Checklist demonstrating compliance with 30 TAC §§ 116.110 and 116.601-615  2. Process description  3. Project description  4. Descriptions of any equipment being installed  5. Emissions calculations including the basis of the calculations  6. Emission increases and/or decreases associated with this project (quantified)  7. Description of efforts to minimize any collateral emissions or collateral increases | X   |    | If NO, note any requests for additional information and date received:   |
| Are any requirements of 116.110 circumvented by: (1) artificially limiting feed or production rates below the maximum capacity of the project's equipment; (2) claiming a limited chemical list; or (3) dividing and registering a project in separate segments?  |     | X  | If YES, are the limits intended to allow the project to move forward while waiting for a permit or permit amendment that will allow full-scale operations, particularly when the project would not be economically feasible until fully authorized?  |

| STANDARD PERMIT RULES CHECK:  | YES | NO | COMMENTS   |
|---|-----|----|--|
| Does the facility meet the § 116.14(2) definition of an Oil & Gas facility?   | X   |    |  |
| Are there any net increases in emissions associated with this registration?   |     | X  | The emissions have decreased due to the installation of a new electric driven compressor control system. |
| Does the facility vent or flare more than 0.3 long tons of sulfur (other than Sulfur Dioxide) per day?  |     | X  |  |
| Are all emissions of sulfur compounds (other than SO2 and fugitives) controlled?  |     | X  | If NO, list the emission rate (must be ≤4 lb/hr):  |
| Are all vents that emit sulfur compounds (other than SO2 and fugitives) to the atmosphere at least 20 feet above ground level (excluding emergency safety relief valves)? | X   |    | List vent heights: > 20 FT.  |
| Are there new or modified internal combustion reciprocating engines or gas turbines at the facility?  |     | X  |  |
| Is there a natural gas glycol dehydration unit at the site that emits >10 tpy of VOCs?  |     | X  | If YES, mark the type of control device used flash tank Vapor Recovery Unit VOC destruction device other |

| Permit No.:  | 104949 | Company Name:   | COPANO PROCESSING LLC                     | APD Reviewer: | Mr. Isaac Vela                    |
|--------------|--------|-----------------|---|---------------|-----------------------------------|
| Project No.: | 212536 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - 116.620 PRE<br>2011-FEB-27 |

| Are any combustion units with a design maximum heat input value > 40 MBtu/hr at the site (other than flares, internal combustion engines, or natural gas turbines)?                         |   | X  | If YES, list NO <sub>x</sub> emissions in pounds per MBtu.(must be < 0.06 lb/MBtu):   |
|---|---|----|---|
| Are VOC process fugitive emissions uncontrolled? <i>If YES, mark applicable inspection and repair requirements.</i> [§ 116.620(c)(1) or § 116.620(c)(2)]                                    | X |    | VOCs (tpy)       receptor < 500'       receptor ≥500'         X       <10 no LDAR no LDAR         10≤2528M [(c)(1)]       no LDAR         25≤40       28VHP [(c)(2)]       28M [(c)(1)]         >40       28VHP [(c)(2)]       28VHP [(c)(2)]   |
| Are all components in sweet crude oil or gas service (defined in 30 TAC Chapter 101)?  If NO, mark applicable inspection and monitoring requirements.  [§§ 116.620(c)(3) and 116.620(e)(1)] | X |    | RECEPTOR         APPLICABLE REQUIREMENT           < ½ mile  |
| Are there flares at the facility?   |   | X  | If YES, fill in the appropriate data. Minimum heating value of waste gas: Is gas necessary for adequate combustion? Maximum tip velocity: Method of pilot flame monitoring:   |
| Is a flare the only combustion unit at the site?  |   | No | If NO, mark the fuel type for all combustion units.  X sweet natural gas  liquid petroleum gas  fuel gas ≤10 grains total sulfur/100 dscf  field gas ≤1.5 grains H₂S/100 dcfm  or ≤30 grains total sulfur/100 dscf  field gas >1.5 grains H₂S/100 dcfm  or >30 grains total sulfur/100 dscf  (recordkeeping requirements of §  116.620(a)(18) applicable) |
| Are all storage tanks onsite either (1) pressurized; (2) < 25,000 gallons in size; or (3) used for storage of compounds with vapor pressures < 0.5 psia?                                    | X |    | If NO, mark the applicable control. internal floating roof [§ 116.620(b)(1)(A) & (C)] external floating roof [§ 116.620(b)(1)(B) & (C)] VOC destruction device with 98% destruction efficiency Vapor Recovery System with 95% recovery efficiency   |
| Are there any fixed roof storage tanks onsite that emit > 10 tpy VOCs or sulfur compounds?  |   | X  | If YES, list the type of control device and its efficiency [§ 116.620(b)(1)(D)]:  |

#### DESCRIBE OVERALL PROCESS AT THE SITE

Copano owns and operates the Houston Central Gas Plant, which is a natural gas processing, treatment and fractionation facility. Copano is proposing to upgrade the HCP Cryogenic Plant No. 3 train control system design by replacing the RTO with a new electric compressor that will increase the amine unit vent acid gas stream pressure and route it to the sales gas pipeline.

#### 4.1 Current Process Design

Copano's Cryogenic Plant No. 3 train begins with existing inlet compressors that compress a natural gas feed stream from the HCP inlet pipeline. The high pressure gas stream exiting the inlet compressors will be dehydrated as it passes through a molecular sieve dehydrator. Supplemental Heaters HTR-3 and HTR-4 will assist the molecular sieves in removing water from the hydrocarbon laden stream.

| Permit No.:  | 104949 | Company Name:   | COPANO PROCESSING LLC                     | APD Reviewer: | Mr. Isaac Vela                    |
|--------------|--------|-----------------|---|---------------|-----------------------------------|
| Project No.: | 212536 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - 116.620 PRE<br>2011-FEB-27 |

After the dehydration activities are complete, the dry gas will be routed to a cryogenic process that removes natural gas liquids (NGLs) as the gas stream passes through previously existing fractionation columns. The residue gas exiting the fractionation columns will be compressed and sent to the sales gas pipeline. Fractionation column liquids will be treated in a liquid amine treating unit, where CO<sub>2</sub> and trace amounts of H<sub>2</sub>S will be removed from the NGLs. Some of the y-grade NGLs will be sent to the fractionation plant and separated into individual liquid products (ethane, propane, n-butane, isobutane, and natural gasoline (C5+)). The isobutene and n-butane products will be sent offsite via truck, while the remaining y-grade and fractionated products will be sent offsite via pipeline.

Copano initially planned to control the amine unit vent acid gas stream with a RTO. As previously noted, HCP has recently decided to install a new electric compressor to control the liquid amine unit acid gas stream in place of the RTO and eliminate unnecessary combustion emissions. A process flow diagram for the current process design is shown in Figure 4-1 and a description of the proposed control system design revisions is included in Section 4.2.

#### 4.2 Proposed Process Revisions

In order to reduce liquid amine unit acid gas vent stream emissions, Copano has decided to upgrade the acid gas control system. Copano plans to install a new electric driven compressor to collect and compress the liquid amine unit acid gas vent stream and send it to the sales gas pipeline as a product, rather than combusting it in a RTO. This has the dual benefit of both increasing production and reducing air emissions at the site. Copano requests that TCEQ add the electric compressor control system to the Standard Permit No. 104949 authorization and remove the previously represented RTO, which will not be installed. A process flow diagram for the proposed process revisions are shown in Figure 4-2.

#### DESCRIBE PROJECT AND INVOLVED PROCESS

COPANO PROCESSING LLC has submitted a PI-1S to revise/certify the emissions from the Copano Processing Houston Central Gas Plt under the 116.620 standard permit rule. This project revision included the addition of a new electric driven compressor control system and the removal of the Regenerative Thermal Oxidizer.

#### TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES

There are no net emission increases resulting from this revision. This project revision included the addition of a new electric driven compressor control system and the removal of the Regenerative Thermal Oxidizer resulting in a net decrease of emissions.

#### 116.610 Applicability

This standard permit includes all facilities at this site and conditions (a)-(d) are met.

#### §116.611 Registration to Use a Standard Permit

All required documentation has been submitted. All of conditions (a)-(c) are met.

| Permit No.:  | 104949 | Company Name:   | COPANO PROCESSING LLC                     | APD Reviewer: | Mr. Isaac Vela                    |
|--------------|--------|-----------------|---|---------------|-----------------------------------|
| Project No.: | 212536 | Site/Area Name: | Copano Processing Houston Central Gas Plt | SP No.:       | 6002 - 116.620 PRE<br>2011-FEB-27 |

# **§116.614 Standard Permit Fees** The \$900 fee has been submitted.

§116.615 General Conditions
All of general conditions (1)-(10) will be met.

# 116.620 Installation and/or Modification of Oil and Gas Facilities This site meets all conditions (a)-(d) of the oil and gas standard permit.

| MAXIMUM ALLOV     | <b>VABLE EMISSION R</b> | ATES T | ABLI | E (MAE | RT)   |        |       |                  |      |         |      |                 |        |        |        |
|-------------------|-------------------------|--------|------|--------|-------|--------|-------|------------------|------|---------|------|-----------------|--------|--------|--------|
| EPN / Emission    | Specific VOC or         | VOC    |      | NOx    |       | CO     |       | PM <sub>10</sub> |      | PM 2.5  |      | SO <sub>2</sub> |        | Formal | dehyde |
| Source            | Other Pollutants        | lbs/hr | tpy  | lbs/hr | tpy   | lbs/hr | tpy   | lbs/hr           | tpy  | lbs/hr  | tpy  | lbs/hr          | tpy    | lbs/hr | tpy    |
| TURB-5/Solar Mars |                         | 0.80   | 3.50 | 4.13   | 18.07 | 6.98   | 30.57 | 0.76             | 3.31 | 0.76    | 3.31 | 0.39            | 1.71   | 0.08   | 0.36   |
| 100 Turbine       |                         |        |      |        |       |        |       |                  |      |         |      |                 |        |        |        |
| TURB-6/Solar Mars |                         | 0.80   | 3.50 | 4.13   | 18.07 | 6.98   | 30.57 | 0.76             | 3.31 | 0.76    | 3.31 | 0.39            | 1.71   | 0.08   | 0.36   |
| 100 Turbine       |                         |        |      |        |       |        |       |                  |      |         |      |                 |        |        |        |
| HTR-3/Gas Heater  |                         | 0.13   | 0.04 | 2.45   | 0.74  | 2.06   | 0.62  | 0.19             | 0.06 | 0.19    | 0.06 | 0.01            | < 0.01 | < 0.01 | < 0.01 |
| HTR-4/Gas Heater  |                         | 0.13   | 0.04 | 2.45   | 0.74  | 2.06   | 0.62  | 0.19             | 0.06 | 0.19    | 0.06 | 0.01            | < 0.01 | < 0.01 | < 0.01 |
| TANkS-3/Storage   |                         | 0.01   | 0.01 |        |       |        |       |                  |      |         |      |                 |        |        |        |
| Tanks             |                         |        |      |        |       |        |       |                  |      |         |      |                 |        |        |        |
| CRYO3 FUG/Process |                         | 0.61   | 2.67 |        |       |        |       |                  |      |         |      |                 |        |        |        |
| Fugitives         |                         |        |      |        |       |        |       |                  |      |         |      |                 |        |        |        |
| TOTAL EMISSIONS   | S (TPY):                | 2.49   | 9.77 | 13.15  | 37.61 | 18.07  | 62.38 | 1.89             | 6.74 | 1.89    | 6.74 | 0.81            | 3.42   | 0.17   | 0.71   |
| MAXIMUM OPERA     | ATING SCHEDULE:         | Hours  | /Day |        | 24    | Days/V | Neek  | 7                | Wee  | ks/Year | r    | 52              | Hour   | s/Year | 8760   |

| COMMUNICA  | ATION LOG |                        |  |
|------------|-----------|------------------------|--|
| Date       | Time      | Name/Company           | Subject of Communication   |
| 07/02/2014 | 9:00am    | Mr. Michael Zeilstra   | The company has been contacted with regards to the initial review yet no |
| 07/02/2014 | 9.00aiii  | Environmental Engineer | additional information has been requested.                               |

|               | TECHNICAL REVIEWER | PEER REVIEWER                | FINAL REVIEWER                   |
|---------------|--------------------|------------------------------|----------------------------------|
| SIGNATURE:    | denda              | Shire of Rega                | See Hard Copy.                   |
| PRINTED NAME: | Mr. Isaac Vela     | Mr. Guillermo E. Reyes, P.E. | Ms. Anne M. Inman, P.E., Manager |
| DATE:         | 07/1/2014          | 07/02/2014                   | 07/03/2014                       |

| BASIS OF PROJECT POINTS  | POINTS |
|--|--------|
| Base Points:   | 2.5    |
| Project Complexity Description and Points:<br>Project completed in less than 10 days | 1.0    |
| Technical Reviewer Project Points<br>Assessment:                                     | 3.5    |
| <b>Final Reviewer Project Points Confirmation:</b>                                   |        |

Bryan W. Shaw, Ph.D., *Chairman* Carlos Rubinstein, *Commissioner* Toby Baker, *Commissioner* Zak Covar, *Executive Director* 



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 8, 2012

MS K S DE YOUNG VICE PRESIDENT GOVERNMENT & REGULATORY AFFAIRS COPANO PROCESSING LP 2727 ALLEN PKWY STE 1200 HOUSTON TX 77019-2153

Standard Permit Registration Number: 101369 Renewal Date: April 13, 2022

Location: 1650 County Rd 255 South City/County: Sheridan, Colorado County

Project Description/Unit: Correct Maer Table

Regulated Entity Number: RN101271419 Customer Reference Number: CN601465255

New or Existing Site: Existing Affected Permit (if applicable): 56613

Standard Permit Type: Pollution Control Project

Copano Processing, L.P. has registered the emissions associated with the Correct Maer Table under the standard permit listed above as authorized by the Commissioners pursuant to Title 30 Texas Administrative Code § 116.602 (30 TAC § 116.602). Emissions are listed on the attached table. For rule information see:

www.tceq.texas.gov/permitting/air/nav/standard.html.

You are reminded that 30 TAC § 116.615 requires that any construction or change authorized by this standard permit should be consolidated into the affected facilities' permit(s) at the next amendment or renewal.

No planned MSS emissions have been represented or reviewed for this registration and none will be authorized.

The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements.

Ms. K S De Young Page 2 August 8, 2012

Re: Standard Permit Registration Number 101369

If you have questions, please contact James E. Neeley, P.E. at (512) 239-2618. This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,

Beryl Thatcher, Manager

Beryl Shatcher

**Chemical New Source Review Permits Section** 

**Air Permits Division** 

Texas Commission on Environmental Quality

cc: Air Section Manager, Region 12 - Houston

Project Number: 179455

#### **Standard Permit Maximum Emission Rates Table** Permit Number 101369

The facilities and emissions included in this table have been represented and reviewed as the maximum emissions authorized by this standard permit registration.

|                           |                             |           | ES   | TIMATED EMISS | SIONS |            |      |                 |       |
|---------------------------|-----------------------------|-----------|------|---------------|-------|------------|------|-----------------|-------|
| EPN /<br>Emission         | Specific<br>VOC or<br>Other | voc       |      | NOx           |       | со         |      | SO <sub>2</sub> |       |
| Source                    | Pollutants                  | lbs/hr    | tpy  | lbs/hr        | tpy   | lbs/hr     | tpy  | lbs/hr          | tpy   |
| FLARE /<br>Elevated Flare |                             | 1.84      | 7.96 | 0.61          | 2.67  | 1.22       | 5.34 | 0.0001          | 0.001 |
| TOTAL EMIS                | SIONS (TPY):                |           | 7.96 |               | 2.67  |            | 5.34 |                 | 0.001 |
| MAXIMUM O                 |                             | Hours/Day | 24   | Days/Week     | 7     | Weeks/Year | 52   | Hours/Year      | 8760  |

 $\begin{array}{ccc} VOC & - & volatile \ organic \ compounds \\ NO_x & - & total \ oxides \ of \ nitrogen \\ CO & - & carbon \ monoxide \end{array}$ 

 $PM_{10}$  - particulate matter equal to or less than 10 microns in size  $PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in size

SO<sub>2</sub> - sulfur dioxide

Bryan W. Shaw, Ph.D., *Chairman* Carlos Rubinstein, *Commissioner* Toby Baker, *Commissioner* Zak Covar, *Executive Director* 



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 20, 2012

MR REX J PROSSER SR DIRECTOR EH&S CORPORATE COPANO PROCESSING LP 1200 SMITH ST STE 2300 HOUSTON TX 77002-4507

Standard Permit Registration Number: 104949 Renewal Date: August 20, 2022

Location: 1650 County Rd 255 South City/County: Sheridan, Colorado County Project Description/Unit: Houston Central Gas Plant

Regulated Entity Number: RN101271419 Customer Reference Number: CN601465255

New or Existing Site: Existing Affected Permit (if applicable): 56613

Standard Permit Type: Oil and Gas Production Facilities

Copano Processing, L.P. has registered the emissions associated with the Houston Central Gas Plant under the standard permit listed above as authorized by the Commissioners pursuant to Title 30 Texas Administrative Code § 116.602 (30 TAC § 116.602). Emissions are listed on the attached table. For rule information see

www.tceq.texas.gov/permitting/air/nav/standard.html.

No planned MSS emissions have been represented or reviewed for this registration and none will be authorized.

The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements. In addition, under the applicability section for all Standard Permits, § 116.610(a)(2) states that "Construction or operation of the project must be commenced prior to the effective date of a revision to this subchapter."

Mr. Rex J Prosser August 20, 2012 Page 2

Re: Standard Permit Registration Number 104949

If you have questions, please contact Mr. Guillermo Reyes, P.E. at (512) 239-5716. This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,

Anne M. Inman, P.E., Manager Rule Registrations Section Air Permits Division

**Texas Commission on Environmental Quality** 

cc: Air Section Manager, Region 12 - Houston

Project Number: 178074

# Standard Permit Maximum Emission Rates Table Permit Number 104949

The facilities and emissions included in this table have been represented and reviewed as the maximum emissions authorized by this standard permit registration.

| MAXIMUM EMISSION RATES TABLE     | RATES TABLE            |           |       |        |              |           |       |        |                  |        |      |               |            |        |       |
|----------------------------------|------------------------|-----------|-------|--------|--------------|-----------|-------|--------|------------------|--------|------|---------------|------------|--------|-------|
|                                  | Specific VOC           | NOC       | C     | NOx    | )x           | 00        | 0     | PI     | PM <sub>10</sub> | PM 2.5 | 2.5  | S             | $SO_2$     | Other  | ler   |
| EPN / Emission Source            | or Other<br>Pollutants | lbs/hr    | tpy   | lbs/hr | tpy          | lbs/hr    | tpy   | lbs/hr | tpy              | lbs/hr | tpy  | lbs/hr        | tpy        | lbs/hr | tpy   |
| TURB-5/Solar Mars 100<br>Turbine |                        | 0.80      | 3.50  | 4.13   | 18.07        | 86.9      | 30.57 | 0.76   | 3.31             | 0.76   | 3.31 | 0.39          | 1.71       | 80.0   | 0.36  |
| TURB-6/Solar Mars 100<br>Turbine |                        | 0.80      | 3.50  | 4.13   | 18.07        | 86.9      | 30.57 | 92.0   | 3.31             | 0.76   | 3.31 | 0.39          | 1.71       | 80.0   | 0.36  |
| HTR-3/Gas Heater                 |                        | 0.13      | 0.04  | 2.45   | 0.74         | 2.06      | 0.62  | 0.19   | 90.0             | 0.19   | 90.0 | 0.01          | <0.01      | <0.01  | <0.01 |
| HTR-4/Gas Heater                 |                        | 0.13      | 0.04  | 2.45   | 0.74         | 5.06      | 0.62  | 0.19   | 90.0             | 0.19   | 90.0 | 0.01          | <0.01      | <0.01  | <0.01 |
| RTO-3/RTO                        |                        | 0.53      | 2.28  | 0.32   | 0.73         | 1.27      | 3.74  | 0.03   | 0.04             | 0.02   | 0.04 | 0.03          | 0.09       |        |       |
| TANkS-3/Storage Tanks            |                        | 0.01      | 0.01  |        |              |           |       |        |                  |        |      |               |            |        |       |
| CRYO3 FUG/Process<br>Fugitives   |                        | 0.61      | 2.67  |        |              |           |       |        |                  |        |      |               |            |        |       |
| TOTAL EMIS                       | TOTAL EMISSIONS (TPY): | 3.01      | 12.04 | 13.48  | 38.35        | 19.35     | 66.12 | 1.91   | 87.9             | 1.91   | 6.78 | 0.83          | 3.51       | 0.17   | 0.71  |
| MAXIMUM OPERATING SCHEDULE:      | S SCHEDULE:            | Hours/Day | /Day  |        | 24 <b>Da</b> | Days/Week |       | 7      | Weeks/Ye         | Ye     | r.   | 52 <b>Hou</b> | Hours/Year |        | 8760  |

volatile organic compounds VOC NO<sub>x</sub>

total oxides of nitrogen

carbon monoxide

particulate matter equal to or less than 10 microns in size particulate matter equal to or less than 2.5 microns in size

sulfur dioxide  $\begin{array}{cccc} CO & - \\ PM_{10} & - \\ PM_{2.5} & - \\ SO_{2} & - \end{array}$ 

<sup>\*\*</sup>Fugitive emissions are an estimate only and should not be considered as a maximum allowable

Bryan W. Shaw, Ph.D., P.E., Chairman Toby Baker, Commissioner Zak Covar, Commissioner Richard A. Hyde, P.E., Executive Director



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 3, 2014

MR MICHAEL CATT VP oPS KINDER MORGAN INC 1001 LOUISIANA ST STE 1000 HOUSTON TX 77002-5089

Standard Permit Registration Number: 104949 Renewal Date: August 20, 2022

Location 1650 County Rd 255 South City/County: Sheridan, Colorado County Project Description/Unit: 6002 Oil and Gas Facilities

Regulated Entity Number: RN101271419
Customer Reference Number: CN604532515
New or Existing Site: Existing
30 TAC § 116.620 Effective Date 09/04/2000

COPANO PROCESSING LLC has registered the emissions associated with the 6002 Oil And Gas Facilities under the standard permit listed above as authorized by the Commissioners pursuant to Title 30 Texas Administrative Code § 116.602 (30 TAC § 116.602). Emissions are listed on the attached table. For rule information see

www.tceq.texas.gov/permitting/air/nav/standard.html.

The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements.

If you have questions, please contact Mr. Isaac Vela at (512) 239-4716. This action is taken under the authority delegated by the Executive Director of the TCEQ.

Sincerely,

Anne M. Inman, P.E., Manager Rule Registrations Section

Air Permits Division

cc: Air Section Manager, Region 12 - Houston

Project Number: 212536

# Standard Permit Maximum Emission Rates Table Standard Permit Number: 104949

The facilities and emissions included in this table have been represented and reviewed as the maximum emissions authorized by this standard permit registration.

| MAXIMUM ALLOWABLE EMISSION RATES TABLE (MAERT) | ION RATES TABLE (MAERT)          |            |                   |            |                    |           |           |                  |            |                  |            |                  |              |       |
|--|----------------------------------|------------|-------------------|------------|--------------------|-----------|-----------|------------------|------------|------------------|------------|------------------|--------------|-------|
| EPN / Emission Source                          | Specific VOC or Other Pollutants | VOC        | NOx               | ×          | 00                 |           | $PM_{10}$ |                  | PM 2.5     |                  | $SO_2$     |                  | Formaldehyde | hyde  |
|  |                                  | lbs/hr tpy | py lbs.           | lbs/hr tpy | lbs/hr             | tpy       | lbs/hr    | tpy              | lbs/hr tpy | _                | lbs/hr tpy | tpy              | lbs/hr       | tpy   |
| TURB-5/Solar Mars 100 Turbine                  |                                  | 0.80       | 3.50 4.13         | 18.07      | 86.9               | 30.57     | 92.0      | 3.31             | 92.0       | 3.31             | 0.39       | 1.71             | 80.0         | 0.36  |
| TURB-6/Solar Mars 100 Turbine                  |                                  | 0.80       | 3.50 4.13         | 18.07      | 86.9               | 30.57     | 92.0      | 3.31             | 92.0       | 3.31             | 0.39       | 1.71             | 80.0         | 0.36  |
| HTR-3/Gas Heater                               |                                  | 0.13 0     | 0.04   2.45       | 5 0.74     | 5.06               | 0.62      | 0.19      | 0.06 0.19        | 0.19       | 0.06 0.01        | 0.01       | <0.01            | <0.01        | <0.01 |
| HTR-4/Gas Heater                               |                                  | 0.13 0     | 0.04   2.45       | 5 0.74     | 5.06               | 0.62      | 0.19      | 90.0             | 0.19       | 0.06 0.01        | 0.01       | <0.01            | <0.01        | <0.01 |
| TANkS-3/Storage Tanks                          |                                  | 0.01       | 0.01              |            |                    |           |           |                  |            |                  |            |                  |              |       |
| CRYO3 FUG/Process Fugitives                    |                                  | 0.61 2     | 2.67              |            |                    |           |           |                  |            |                  |            |                  |              |       |
| TOTAL EMISSIONS (TPY):                         |                                  | 2.49       | <b>9.77</b> 13.15 |            | <b>37.61</b> 18.07 | 62.38     | 1.89      | <b>6.74</b> 1.89 |            | <b>6.74</b> 0.81 |            | <b>3.42</b> 0.17 | 0.17         | 0.71  |
| MAXIMUM OPERATING SCHEDULE:                    |                                  | Hours/Day  | ay                | 24         | Days/              | Days/Week | 7         | Week             | Weeks/Year |                  | 52         | Hours/Year       | Year         | 8760  |

VOC NO<sub>x</sub> CO PM<sub>10</sub> PM<sub>2.5</sub> SO<sub>2</sub>

volatile organic compounds
total oxides of nitrogen
carbon monoxide
particulate matter equal to or less than 10 microns in size
particulate matter equal to or less than 2.5 microns in size
sulfur dioxide

<sup>\*\*</sup>Fugitive emissions are an estimate only and should not be considered as a maximum allowable