



New Source Permits

AIR RN OT 037

Air #: 106652647 109194

File Type: Permits

Volume: 001

Date: 1/1/2013 -

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Protecting Texas by Reducing and Preventing Pollution

May 8, 2013

MS TERRI STILWELL
AIR QUALITY SUPERVISOR
MAGELLAN PIPELINE COMPANY LP
1 WILLIAMS CTR MD 29
TULSA OK 74172-0140

Permit by Rule Registration Number: 109194
Location/City/County: From the intersection of Hwy 171 and CR 917, go NE on CR 917 for 0.6 mi to CR 918. Turn L on CR 918 and go 3.1 mi to Goforth Rd. Turn L onto Goforth Rd and travel 1.7 mi. Site will be on L, Fort Worth, Parker County
Project Description/Unit: Cresson Pump Station
Regulated Entity Number: RN106652647
Customer Reference Number: CN602728545
New or Existing Site: New

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TCEQ
CENTRAL FILE ROOM

Magellan Pipeline Company, L.P. has registered the emissions associated with the Cresson Pump Station under Title 30 Texas Administrative Code §§ 106.261 and 106.473. For rule information see: www.tceq.texas.gov/permitting/air/nav/numerical_index.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.

This registration is taken under the authority delegated by the Executive Director of the TCEQ. If you have questions, please contact (512) 239-1250 or email airog@tceq.texas.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Anne M. Inman".

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

cc: Environmental Program Manager, Transportation & Public Works/Environmental Services Air Pgm, City of Fort Worth, Fort Worth
Air Section Manager, Region 4 - Fort Worth

Project Number: 191157

Emission Sources - Represented Emission Rates

Registration Number 109194

This table lists the represented emission rates and all sources of air contaminants on the applicant's property covered by this registration. The emission rates shown are those derived from information submitted as part of the registration for PBR.

| ESTIMATED EMISSIONS | | | | | | | | | | | | | | | |
|--|--|------------------|------|------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-----------------|-----|--------|-----|
| EPN / Emission Source | Specific VOC or Other Pollutants | VOC | | NO _x | | CO | | PM ₁₀ | | PM _{2.5} | | SO ₂ | | Other | |
| | | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy |
| FUG (106.261) | | 0.02 | 0.07 | | | | | | | | | | | | |
| SUMP (106.473) | | 9.27 | 0.30 | | | | | | | | | | | | |
| TOTAL EMISSIONS (TPY): | | | 0.37 | | | | | | | | | | | | |
| MAXIMUM OPERATING SCHEDULE: | | Hours/Day | | Days/Week | | Weeks/Year | | Hours/Year | | 8760 | | | | | |

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TECHNICAL REVIEW: AIR PERMIT BY RULE

| | | | | | |
|---------------------|--------|----------------------|---------------------------------|----------------------|-------------------|
| Permit No.: | 109194 | Company Name: | Magellan Pipeline Company, L.P. | APD Reviewer: | Mr. Robert Chavez |
| Project No.: | 191157 | Unit Name: | Cresson Pump Station | PBR No(s).: | 106.261, 106.473 |

| GENERAL INFORMATION | | | | | |
|--------------------------------|---------------------------|-----------------------------------|--|--|--|
| Regulated Entity No.: | RN106652647 | Project Type: | Permit by Rule Application | | |
| Customer Reference No.: | CN602728545 | Date Received by TCEQ: | March 29, 2013 | | |
| Account No.: | None | Date Received by Reviewer: | May 7, 2013 | | |
| City/County: | Fort Worth, Parker County | Physical Location: | From the intx of Hwy 171 and CR 917, go NE on CR 917 for 0.6 mi to CR 918. Turn L on CR 918 and go 3.1 mi to Goforth Rd. Turn L onto Goforth Rd and travel 1.7 mi. Site will be on L | | |

| CONTACT INFORMATION | | | | | |
|--|---|-------------------|----------------|---------------|-------------------------------|
| Responsible Official/ Primary Contact Name and Title: | Ms. Terri Stilwell Air Quality Supervisor | Phone No.: | (918) 574-7307 | Email: | TERRI.STILWELL@MAGELLANLP.COM |
| | | Fax No.: | (918) 574-7760 | | |
| Technical Contact/ Consultant Name and Title: | Mr. Jeff Blackmore Air Specialist Contract | Phone No.: | (281) 668-7358 | Email: | JBLACKMORE@ZEPHYRENV.COM |
| | | Fax No.: | (713) 977-8797 | | |

| GENERAL RULES CHECK | YES | NO | COMMENTS |
|---|-----|----|--------------------------------|
| Is confidential information included in the application? | | X | |
| Is this registration certified? | | X | |
| Are there affected NSR or Title V permits for the project? | | X | If yes, what is the number(s): |
| Are there any upstream or downstream affects associated with this registration? | | X | |
| Is each PBR > 25/250 tpy? | | X | |
| Are PBR sitewide emissions > 25/250 tpy? | | X | |
| Are there permit limits on using PBRs at the site? | | X | |
| Is PSD or Nonattainment netting required? | | X | |
| Do NSPS, NESHAP, or MACT standards apply to this registration? | X | | 40 CFR 63 BBBB |
| Does NOx Cap and Trade apply to this registration? | | X | |
| Is the facility in compliance with all other applicable rules and regulations? | X | | |
| Is planned MSS included in the registration? | | X | NONE REPRESENTED |

TECHNICAL REVIEW: AIR PERMIT BY RULE

| | | | | | |
|---------------------|--------|----------------------|---------------------------------|----------------------|-------------------|
| Permit No.: | 109194 | Company Name: | Magellan Pipeline Company, L.P. | APD Reviewer: | Mr. Robert Chavez |
| Project No.: | 191157 | Unit Name: | Cresson Pump Station | PBR No(s).: | 106.261, 106.473 |

DESCRIBE OVERALL PROCESS AT THE SITE

Magellan Pipeline Company, L.P. (MPC) owns and operates a pipeline pumping station (Cresson Pump Station) located in Parker County, Texas. The facility is used to assist the transportation of refined products along the Orion North Pipeline. Refined Products consist of, but are not limited to various grades of finished and unfinished gasolines, distillates, and jet fuels. With this submission MPC is registering the emissions from Cresson Pump Station under §106.4, §106.261, and §106.473. The Cresson Pump Station consists of fugitive piping components and a 540 gallon underground API covered sump. The underground sump will be used to collect refined product from maintenance and relief episodes. Refined Petroleum product is identified as an acceptable product under §106.473(4)(B). There are no above ground storage tanks or loading rack at the Cresson Pump Station.

Emissions Calculation Methodology

Piping Emissions

Piping component fugitives have been calculated using Petroleum Marketing Terminal factors from the following guidance: *Air Permit Technical Guidance for Chemical Sources: Equipment Leak Fugitives.* Texas Natural Resource Conservation Commission, October 2000. Annual emissions were calculated by taking the lb/hr emissions and multiply by 8760 hours.

Sump Emissions

Annual losses from the sump were calculated using the fixed roof tank equations taken from U.S. EPA Compilation of Air Pollution Emission Factors (AP-42), Section 7.1 – Organic Liquid Storage Tanks (November 2006). A conservative estimate of 104 turnovers per year of product (RVP 11 Gasoline) was assumed for annual emission calculations. Annual emission calculations are provided in Table 3 of the emission calculations.

DESCRIBE PROJECT AND INVOLVED PROCESS

Zephyr Environmental Corporation (Zephyr), on behalf of Magellan Pipeline Company, L.P. (MPC) is submitting this Permit by Rule (PBR) Registration to the Texas Commission on Environmental Quality (TCEQ) for the authorization of fugitive piping components and sump air emissions from the Cresson Pump Station under §106.4, §106.261, and §106.473. The facility, located in Parker County, TX, is used to facilitate the transport of refined products along the Orion North Pipeline. Total collective VOC emissions amount to 0.37 tpy. The submittal contains the following components:

- Attachment I - Form PI-7 and Core Data Form
- Attachment II - Process Description and Calculation Methodology
- Attachment III - PBR Applicability Checklists - §106.4, §106.261, and §106.473
- Attachment IV - Emission Calculations
- Attachment V – Copy of Submitted PBR Registration Fee

TECHNICAL REVIEW: AIR PERMIT BY RULE

| | | | | | |
|---------------------|--------|----------------------|---------------------------------|----------------------|-------------------|
| Permit No.: | 109194 | Company Name: | Magellan Pipeline Company, L.P. | APD Reviewer: | Mr. Robert Chavez |
| Project No.: | 191157 | Unit Name: | Cresson Pump Station | PBR No(s): | 106.261, 106.473 |

TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES

PBR 106.261 - Facilities (Emissions Limitations)



1. The facilities or changes will be located at least 100ft. from any off-site receptor.
2. Total new or increased emissions of chemicals listed in this section are below 6.0 lb/hr and 10.0 tpy, as represented below.
3. Total new or increased emissions, for any chemicals with a limit value greater than 200 mg/m³ and not listed or referenced in Table 262, are less than 1.0 lb/hr and 4.38 tpy, as represented below.
4. There will not be any changes or additions of any existing abatement equipment.
5. Visible emissions will not exceed the opacity limit.
6. Form PI-7-CERT and all required documentation have been submitted.

PBR 106.473 - Organic Liquid Loading and Unloading

Applicant has represented that they are in compliance with the rule

ESTIMATED EMISSIONS

| EPN / Emission Source | Specific VOC or Other Pollutants | VOC | | NOx | | CO | | PM ₁₀ | | PM _{2.5} | | SO ₂ | | Other | |
|------------------------------------|--|------------------|------|------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-----------------|-----|--------|-----|
| | | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy | lbs/hr | tpy |
| FUG (106.261) | | 0.02 | 0.07 | | | | | | | | | | | | |
| SUMP (106.473) | | 9.27 | 0.30 | | | | | | | | | | | | |
| TOTAL EMISSIONS (TPY): | | | 0.37 | | | | | | | | | | | | |
| MAXIMUM OPERATING SCHEDULE: | | Hours/Day | | Days/Week | | Weeks/Year | | Hours/Year | | 8760 | | | | | |

| | TECHNICAL REVIEWER | PEER REVIEWER | FINAL REVIEWER |
|----------------------|---|--|----------------------------------|
| SIGNATURE: |  |  | See Hard Copy. |
| PRINTED NAME: | Ms. Julie Steger | Ms. Sandya Rani Bhaskara | Ms. Anne M. Inman, P.E., Manager |
| DATE: | May 7, 2013 | May 8, 2013 | May 8, 2013 |

04/02/2013 -----NSR IMS - PROJECT RECORD-----

PROJECT#: 191157 PERMIT#: 109194 STATUS: PENDING DISP CODE: _____
RECEIVED: 03/29/2013 PROJTYPE: INITIAL AUTHTYPE: PBR ISSUED DT: _____
RENEWAL:
PROJECT ADMIN NAME: FUGITIVE PIPING COMPONENTS AND SUMP AIR EMISSIONS
PROJECT TECH NAME: CRESSON PUMP STATION

Assigned Team: RULE REG SECTION

STAFF ASSIGNED TO PROJECT:
GLASPIE-FELIX, SHELIA - REVIEWR1_2 - AP INITIAL REVIEW
TEAM LEADER, RR - REVIEW ENG - RULE REG SECTION

CUSTOMER INFORMATION (OWNER/OPERATOR DATA)
ISSUED TO: MAGELLAN PIPELINE COMPANY LP
COMPANY NAME: Magellan Pipeline Company, L.P.
CUSTOMER REFERENCE NUMBER: CN602728545

REGULATED ENTITY/SITE INFORMATION
REGULATED ENTITY NUMBER: RN106652647 ACCOUNT:
PERMIT NAME: CRESSON PUMP STATION

REGULATED ENTITY LOCATION: FR THE INTX OF HWY 171 AND CR 917 GO NE ON CR 917 FOR 0.6 MI TO CR 918 TAKE
LEFT ON CR 918 AND GO 3.1 MI TO GOFORTH RD TAKE LEFT ONTO GOFORTH RD AND TRAVEL 1.7 MI SITE WILL BE ON
LEFT SIDE

REGION 04 - DFW METROPLEX NEAR CITY: FORT WORTH COUNTY: PARKER

CONTACT DATA

CONTACT NAME: MS TERRI STILWELL CONTACT ROLE: RESPONSIBLE OFFICIAL
JOB TITLE: AIR QUALITY SUPERVISOR ORGANIZATION: MAGELLAN PIPELINE COMPANY LP
MAILING ADDRESS: 1 WILLIAMS CTR, MD 29, TULSA, OK, 74172-0140
PHONE: (918) 574-7307 Ext: 0
FAX: (918) 574-7760 Ext: 0
EMAIL: TERRI.STILWELL@MAGELLANLP.COM

CONTACT NAME: MR JEFF BLACKMORE CONTACT ROLE: TECHNICAL CONTACT
JOB TITLE: AIR SPECIALIST CONTRACT ORGANIZATION: ZEPHYR ENVIRONMENTAL CORPORATION
MAILING ADDRESS: 11200 WESTHEIMER RD, STE 600, HOUSTON, TX, 77042-3227
PHONE: (281) 668-7358 Ext: 0
FAX: (713) 977-8797 Ext: 0
EMAIL: JBLACKMORE@ZEPHYRENV.COM

PROJECT NOTES:

04/02/2013 CR/SOS/DFC DONE 4/2/13 - NOT ON APWL

PERMIT NOTES:

FEE:

| Reference | Fee Receipt Number | Amount | Fee Receipt Date | Fee Payment Type |
|-----------|--------------------|--------|------------------|------------------|
| 23618 | | 450.00 | | CHECK |

TRACKING ELEMENTS:

| TE Name | Start Date | Complete Date |
|---|------------|---------------|
| APIRT RECEIVED PROJECT (DATE) | 04/01/2013 | |
| CENTRAL REGISTRY UPDATED | 04/02/2013 | 04/02/2013 |
| APIRT TRANSFERRED PROJECT TO TECHNICAL STAFF (DATE) | 04/03/2013 | |

DEFICIENCY CYCLE
ENGINEER INITIAL REVIEW COMPLETED (DATE)
PEER / MANAGER REVIEW PERIOD
PROJECT RECEIVED BY ENGINEER (DATE)

PROJECT RULES:

| Unit Desc | Rule Desc | Request Type | On Application | Approve |
|--------------------------------------|-----------|--------------|----------------|---------|
| FACILITIES (EMISSION LIMITATIONS) | 106.261 - | ADD | Y | APPROVE |
| ORGANIC LIQUID LOADING AND UNLOADING | 106.473 - | ADD | Y | APPROVE |

PERMIT RULES:

| Unit Desc | Rule Desc | Start Date | End Date |
|-----------|-----------|------------|----------|
|-----------|-----------|------------|----------|

PROJECT ATTRIBUTES:

| Attributes | Value |
|---------------|-------|
| PROJECT POINT | |



Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7 Submission Form
(Page1)

The TCEQ **requires** that a complete Core Data Form bearing an original signature be submitted on all incoming applications unless a Regulated Entity and Customer Reference Number have been issued by the TCEQ and no core data information has changed. For more information regarding the Core Data Form, call (512) 239-5175 or go to the TCEQ Web site at www.tceq.texas.gov/permitting/central_registry/guidance.html.

| | | |
|---|-------------------|--|
| I. Registrant Information | | |
| A. Company or other Legal Customer Name: Magellan Pipeline Company, L.P. | | |
| Company Official Contact Name: Terri Stilwell | | |
| Title: Air Quality Supervisor | | |
| Mailing Address: One Williams Center, MD 29 | | |
| City: Tulsa | State: OK | ZIP Code: 74172 |
| Phone: 918.574.7307 | Fax: 918.574.7760 | E-mail: terri.stilwell@magellanlp.com |
| B. Technical Contact Name: Jeff Blackmore | | |
| Title: Air Specialist, Contract | | |
| Company: Zephyr Environmental Corporation | | |
| Mailing Address: 11200 Westheimer, Suite 600 | | |
| City: Houston | State: TX | ZIP Code: 77042 |
| Phone: 281.668.7358 | Fax: 713.977.8797 | E-mail: jblackmore@zephyrenv.com |
| C. Facility Location Information – Street Address: | | |
| If "NO," street address provide written driving directions to the site: (attach description of additional space is needed) | | |
| From the Intersection of Highway 171 and Country Road 917 turn northeast on County Road 917 and travel 0.6 miles to County Road 918. Take a left onto County Road 918 and travel 3.1 miles to Goforth Road. Take a left onto Goforth Road travel 1.7 miles and the site will be on the left side. | | |
| City: Fort Worth | County: Parker | ZIP Code: 76126 |
| D. Is the Core Data Form (TCEQ-Form 10400) attached? | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| If "NO," provide customer reference number (CN) and regulated entity number (RN) below: | | |
| Customer Reference Number (CN): 002 728 545 (Sg) | | |
| Regulated Entity Number (RN): | | |
| II. Facility and Site Information | | |
| A. Name and Type of Facility: Cresson Pump Station | | <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Portable |
| For portable units, please provide the serial number of the equipment being registered below: | | |
| Serial No: | Serial No.: | |

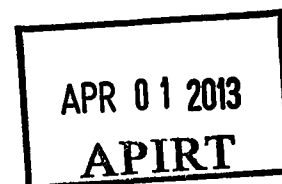
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191157
109194



Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7 Submission Form
(Page 2)

| | |
|--|------|
| II. Facility and Site Information (continued) | |
| B. PBR claimed under 30 TAC § 106 (List all that apply) | |
| 106.261 | 106. |
| 106.473 | 106. |
| 106. | 106. |
| Are you claiming a historical standard exemption or PBR ? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| If "YES," enter effective date(s) and rule number(s) in the spaces provided below: | |
| | |
| | |
| C. Is there a previous Standard Exemption or PBR for the facility in this registration? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| If "YES," enter registration number(s), rule number(s) and effective dates in the spaces provided below: | |
| | |
| | |
| D. Are there any other facilities at this site which are authorized by an Air Standard Exemption or PBR? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| If "YES," enter registration number(s), rule number, and effective dates in the spaces provided below. | |
| | |
| | |
| E. Are there any other air preconstruction permits at this site? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| If "YES," enter permit number(s) in the spaces provided below. | |
| | |
| | |
| Are there any other air preconstruction permits at this site that would be directly associated with this project? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| If "YES," enter permit number(s) in the spaces provided below. | |
| | |
| | |





**Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7 Submission Form
(Page 3)**

II. Facility and Site Information (continued)

F. Is this facility located at a site which is required to obtain a federal operating permit pursuant to 30 TAC Chapter 122? ☐ YES ☒ NO ☐ To Be Determined

If the site currently has an existing federal operating permit, enter the permit number:

Check the requirements of 30 TAC Chapter 122 that will be triggered if this claim is accepted:
(check all that apply)

☐ Initial Application for an FOP ☐ Significant Revision for SOP ☐ Minor Revision for SOP
☐ Operational Flexibility/Off Permit Notification for an SOP ☐ Revision for GOP
☐ To be Determined ☒ None

Identify the type(s) issued and/or FOP application(s) submitted/pending for the site: *(check all that apply)*

☐ SOP ☐ GOP ☐ GOP application/revision application: *(submitted or under APD review)*

☐ N/A ☐ SOP application/revision application: *(submitted or under APD review)*

G. TCEQ Account Identification Number: *(if known)*

III. Fee Information

See Section VII. for address to send fee or go to www6.tceq.texas.gov/epay to pay online.

A. Is this registration an update to a previously registered facility and accompanied by a Form APD-CERT solely to establish a federally enforceable emission limit and will not authorize new facilities? ☐ YES ☒ NO

If "YES," a fee is not required.

If "NO," then go to Section III.B.

B. If "YES," to either of the following questions, a **\$100** fee is required. Otherwise, a **\$450** fee is required.

Does this business have less than 100 employees? ☐ YES ☒ NO

Does this business have less than 6 million dollars in annual gross receipts? ☐ YES ☒ NO

Is this registration submitted by a governmental entity with a population of less than 10,000? ☐ YES ☒ NO

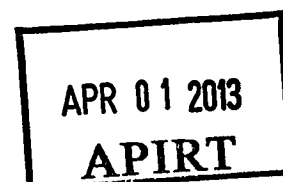
C. Enter the check, money order, or transaction number) 23618 ✓

Enter the individual or company name printed on the check.

Zephyr Environmental Corporation

Fee Amount *(spell out)*: Four Hundred and Fifty Dollars \$ 450.00 ✓

Was fee **Paid** online? ☐ YES ☒ NO





**Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7 Submission Form
(Page 4)**

IV. Selected Facility Reviews Only-Technical Information

Note: If claiming one of the following PBRs, complete this section, then skip to Section VI., "Submitting your registration" below:

Animal Feeding Operations § 106.161, Livestock Auction Facilities § 106.162, Saw Mills § 106.223, Grain Handling, Storage and Drying § 106.283, Auto Body Refinishing Facilities § 106.436, Air Curtain Incinerator § 106.496

| | |
|--|--|
| A. Is the applicable PBR checklist attached which shows the facility meets all general and specific requirements of the PBR(s) being claimed? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| B. Distance from this facility's emission release point to the nearest property line: | feet |
| Distance from this facility's emission release point to the nearest off-property structure: | feet |

V. Technical Information – The following information must be submitted with Form PI-7. Place a check next to the appropriate box to verify you have included it in the submittal.

| | | | |
|--|--|---|---|
| <input checked="" type="checkbox"/> Process Flow Diagram and Process Description | | <input checked="" type="checkbox"/> Emissions data and calculations | |
| <input checked="" type="checkbox"/> Table 1(a) (Form 10153) Emission Point Summary | | | |
| <input type="checkbox"/> Confidential Information (All pages properly marked "CONFIDENTIAL") ✓ | | | |
| Has the company implemented the project or waiting on a response from TCEQ? <input checked="" type="checkbox"/> Implemented <input type="checkbox"/> Waiting | | | |
| Projected Start of Construction Date: Site already constructed. | | | |
| Is this an annual certification under 30 TAC Chapter 106.261 and/or 106.262? | | | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| <input checked="" type="checkbox"/> Information on meeting the specific PBR requirements (PBR checklists maybe used and are optional.) | | <input checked="" type="checkbox"/> Information on meeting the general PBR requirements 30 TAC 106.4. (PBR checklists maybe used and are optional.) | |

*Note: Please be reminded that if the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under **30 TAC Chapter 101, Subchapter H, Division 3**, the owner/operator of these facilities must possess NO_x allowances equivalent to the actual NO_x emissions from these facilities.*

| | |
|---|-----------|
| Distance from this facility's emission release point to the nearest property line: | >100 feet |
| Distance from this facility's emission release point to the nearest off-property structure: | >100 feet |

Note: In limited cases, a map or drawing of the site and surrounding land use may be requested during the technical review or at the request of the TCEQ Regional Office or local air pollution control program during an investigation.

VI. Delinquent Fees

This form **will not be processed** until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ is paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ Web site at: www.tceq.texas.gov/agency/delin/index.html.



TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

| | |
|---|--|
| 1. Reason for Submission (If other is checked please describe in space provided) | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application) | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | <input type="checkbox"/> Other |
| 2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.) | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Permit By Rule Application | |
| 3. Customer Reference Number (if issued) | 4. Regulated Entity Reference Number (if issued) |
| CN 602728545 | RN |

SECTION II: Customer Information

| | |
|--|--|
| 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | |
| 6. Customer Role (Proposed or Actual) – as it relates to the <u>Regulated Entity</u> listed on this form. Please check only <u>one</u> of the following: | |
| <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator | |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other: _____ | |
| 7. General Customer Information | |
| <input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership | |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State) <input checked="" type="checkbox"/> No Change** | |
| **If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information. | |
| 8. Type of Customer: | |
| <input type="checkbox"/> Corporation <input type="checkbox"/> Individual <input type="checkbox"/> Sole Proprietorship- D.B.A | |
| <input type="checkbox"/> City Government <input type="checkbox"/> County Government <input type="checkbox"/> Federal Government <input type="checkbox"/> State Government | |
| <input type="checkbox"/> Other Government <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Partnership <input type="checkbox"/> Other: _____ | |
| 9. Customer Legal Name (If an individual, print last name first: ex: Doe, John) <u>If new Customer, enter previous Customer below</u> <u>End Date:</u> | |
| | |
| 10. Mailing Address: | |
| City State ZIP ZIP + 4 | |
| 11. Country Mailing Information (if outside USA) | |
| 12. E-Mail Address (if applicable) | |
| 13. Telephone Number () - 14. Extension or Code 15. Fax Number (if applicable) () - | |
| 16. Federal Tax ID (9 digits) 17. TX State Franchise Tax ID (11 digits) 18. DUNS Number (if applicable) 19. TX SOS Filing Number (if applicable) | |
| 20. Number of Employees <input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher 21. Independently Owned and Operated? <input type="checkbox"/> Yes <input type="checkbox"/> No | |

SECTION III: Regulated Entity Information

| | |
|--|--|
| 22. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application) | |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information <input type="checkbox"/> No Change** (See below) | |
| **If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information. | |
| 23. Regulated Entity Name (name of the site where the regulated action is taking place) | |
| Cresson Pump Station | |

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| | | | | | | | |
|---|-----------------------------------|--|--------------------------------|--|-----|-------|---------|
| 24. Street Address of the Regulated Entity: (No P.O. Boxes) | | | | | | | |
| | City | | State | | ZIP | | ZIP + 4 |
| 25. Mailing Address: | One Williams Center, MD 29 | | | | | | |
| | City | Tulsa | State | OK | ZIP | 74172 | ZIP + 4 |
| 26. E-Mail Address: | terri.stilwell@magellanlp.com | | | | | | |
| 27. Telephone Number | 28. Extension or Code | | 29. Fax Number (if applicable) | | | | |
| (918) 574-7307 | | | (918) 574-7760 | | | | |
| 30. Primary SIC Code (4 digits) | 31. Secondary SIC Code (4 digits) | 32. Primary NAICS Code (5 or 6 digits) | | 33. Secondary NAICS Code (5 or 6 digits) | | | |
| 4613 | | | | | | | |
| 34. What is the Primary Business of this entity? (Please do not repeat the SIC or NAICS description.) | | | | | | | |
| Refined Product Pipeline | | | | | | | |

Questions 34 – 37 address geographic location. Please refer to the instructions for applicability.

| | | | | | |
|---------------------------------------|---|-----------|-------------------------------|--------------|-----------|
| 35. Description to Physical Location: | From the Intersection of Highway 171 and Country Road 917 turn northeast on County Road 917 and travel 0.6 miles to County Road 918. Take a left onto County Road 918 and travel 3.1 miles to Goforth Road. Take a left onto Goforth Road travel 1.7 miles and the site will be on the left side. | | | | |
| 36. Nearest City | County | State | Nearest ZIP Code | | |
| Fort Worth | Parker | TX | 76126 | | |
| 37. Latitude (N) In Decimal: | 32.57213390 | | 38. Longitude (W) In Decimal: | -97.56655451 | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| 32 | 34 | 19.682030 | -97 | 33 | 59.596226 |

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

| | | | | |
|---|--|---|---|--|
| <input type="checkbox"/> Dam Safety | <input type="checkbox"/> Districts | <input type="checkbox"/> Edwards Aquifer | <input type="checkbox"/> Industrial Hazardous Waste | <input type="checkbox"/> Municipal Solid Waste |
| <input checked="" type="checkbox"/> New Source Review – Air | <input type="checkbox"/> OSSF | <input type="checkbox"/> Petroleum Storage Tank | <input type="checkbox"/> PWS | <input type="checkbox"/> Sludge |
| 106.261/473 | | | | |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Title V – Air | <input type="checkbox"/> Tires | <input type="checkbox"/> Used Oil | <input type="checkbox"/> Utilities |
| <input type="checkbox"/> Voluntary Cleanup | <input type="checkbox"/> Waste Water | <input type="checkbox"/> Wastewater Agriculture | <input type="checkbox"/> Water Rights | <input type="checkbox"/> Other: |
| | | | | |

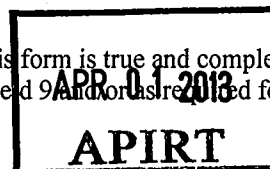
SECTION IV: Preparer Information

| | | | |
|----------------------|----------------|------------------|--------------------------|
| 40. Name: | Jeff Blackmore | 41. Title: | Air Specialist, Contract |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
| (281) 668-7358 | | (713) 977-8797 | jblackmore@zephyrenv.com |

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and consents to the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)



| | | | |
|------------------|---------------------------------|------------|------------------------------|
| Company: | Magellan Pipeline Company, L.P. | Job Title: | Vice President of Operations |
| Name (In Print): | Melanie Little | Phone: | (918) 574-7306 |
| Signature: | Melanie Little | Date: | 3/26/13 |



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March 27, 2013

Ms. Anne M. Inman
Air Permits Initial Review Team (MC-163)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

via Hand Delivery

AIR PERMITS DIVISION

MAR 29 2013

RECEIVED

Re: Permit by Rule Registration
Magellan Pipeline Company, L.P.
Cresson Pump Station
TCEQ Customer Reference No.: CN602728545

Dear Ms. Inman:

Zephyr Environmental Corporation (Zephyr), on behalf of Magellan Pipeline Company, L.P. (MPC) is submitting this Permit by Rule (PBR) Registration to the Texas Commission on Environmental Quality (TCEQ) for the authorization of fugitive piping components and sump air emissions from the Cresson Pump Station under §106.4, §106.261, and §106.473. The facility, located in Parker County, TX, is used to facilitate the transport of refined products along the Orion North Pipeline. Total collective VOC emissions amount to 0.37 tpy. The submittal contains the following components:

- Attachment I - Form PI-7 and Core Data Form
- Attachment II - Process Description and Calculation Methodology
- Attachment III - PBR Applicability Checklists - §106.4, §106.261, and §106.473
- Attachment IV - Emission Calculations
- Attachment V - Copy of Submitted PBR Registration Fee

If you require any additional information or have any questions, please call me at (281) 668-7358 or email me at jblackmore@zephyrenv.com.

Sincerely,
Zephyr Environmental Corporation

Jeff Blackmore

Attachments

cc: Ms. Alyssa Taylor, Air Section Manager, TCEQ Region 4, Dallas/Fort Worth, w/attachments
Ms. Terri Stilwell, Magellan Pipeline Company, L.P., w/attachments

Attachment I

Form PI-7 and Core Data Form

Attachment II

Process Description and Calculation Methodology

Process Description and Flow Diagram

Magellan Pipeline Company, L.P. (MPC) owns and operates a pipeline pumping station (Cresson Pump Station) located in Parker County, Texas. The facility is used to assist the transportation of refined products along the Orion North Pipeline. Refined Products consist of, but are not limited to various grades of finished and unfinished gasolines, distillates, and jet fuels. With this submission MPC is registering the emissions from Cresson Pump Station under §106.4, §106.261, and §106.473. The Cresson Pump Station consists of fugitive piping components and a 540 gallon underground API covered sump. The underground sump will be used to collect refined product from maintenance and relief episodes. Refined Petroleum product is identified as an acceptable product under §106.473(4)(B). There are no above ground storage tanks or loading rack at the Cresson Pump Station.

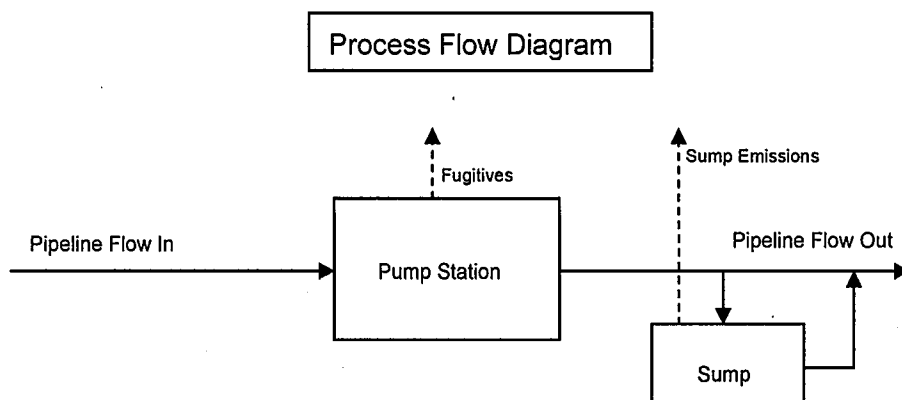
Emissions Calculation Methodology

Piping Emissions

Piping component fugitives have been calculated using Petroleum Marketing Terminal factors from the following guidance: *Air Permit Technical Guidance for Chemical Sources: Equipment Leak Fugitives.* Texas Natural Resource Conservation Commission, October 2000. Annual emissions were calculated by taking the lb/hr emissions and multiply by 8760 hours.

Sump Emissions

Annual losses from the sump were calculated using the fixed roof tank equations taken from U.S. EPA Compilation of Air Pollution Emission Factors (AP-42), Section 7.1 – Organic Liquid Storage Tanks (November 2006). A conservative estimate of 104 turnovers per year of product (RVP 11 Gasoline) was assumed for annual emission calculations. Annual emission calculations are provided in Table 3 of the emission calculations.



Attachment III

PBR Applicability Checklists



Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

| | |
|---|--|
| 1. 30 TAC § 106.4(a)(1) & (4): Emission limits | |
| List emissions in tpy for each facility (add additional pages or tables if needed): | |
| SO ₂ = _____ PM ₁₀ = _____ VOC = _____ 0.37 NO _x = _____ CO = _____ Other = _____ | |
| SO ₂ = _____ PM ₁₀ = _____ VOC = _____ NO _x = _____ CO = _____ Other = _____ | |
| SO ₂ = _____ PM ₁₀ = _____ VOC = _____ NO _x = _____ CO = _____ Other = _____ | |
| Total _____ 0.37 _____ | |
| <ul style="list-style-type: none">• Are the SO₂, PM₁₀, VOC, or other air contaminant emissions claimed for each facility in this PBR submittal less than 25 tpy?• Are the NO_x and CO emissions claimed for each facility in this PBR submittal less than 250 tpy? | <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a PBR cannot be claimed.</i> | |
| Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.) | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If "Yes," skip to Section 2. If "No," continue to the questions below.</i> | |
| If the site has had no public notice, please answer the following: | |
| <ul style="list-style-type: none">• Are the SO₂, PM₁₀, VOC, or other emissions claimed for all facilities in this PBR submittal less than 25 tpy?• Are the NO_x and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy? | <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If the answer to both questions is "Yes," continue to Section 2. If the answer to either question is "No," a PBR cannot be claimed. A permit will be required under Chapter 116.</i> | |
| 2. 30 TAC § 106.4(a)(2): Nonattainment check | |
| Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If "Yes," please indicate which county by checking the appropriate box to the right.</i> (Marginal)- Hardin, Jefferson, and Orange counties (BPA) (Moderate)- Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties (HGA) (Moderate)- Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties (DFW) | <input type="checkbox"/> BPA <input type="checkbox"/> HGA <input type="checkbox"/> DFW |
| <i>If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.</i> | |
| Does this project trigger a nonattainment review? To determine the answer, review the information below: | |
| <ul style="list-style-type: none">• Is the project's potential to emit (PTE) for emissions of VOC or NO_x increasing by 100 tpy or more? <i>PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rule, or made federally enforceable by a certification.</i>• Is the site an existing major nonattainment site and are the emissions of VOC or NO_x increasing by 40 tpy or more? | <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO |
| If needed, attach contemporaneous netting calculations per nonattainment guidance. Additional information can be found at: www.tceq.state.tx.us/permitting/air/forms/newsourcereview/tables/nsr_table8.html www.tceq.state.tx.us/permitting/air/nav/air_docs_newsourcereview.html | |
| <i>If "Yes," to any of the above, a PBR may not be used. A PSD Permit review must be completed to authorize the project.</i> | |
| <i>If "No," continue to Section 4.</i> | |
| 3. 30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check | |
| Does this project trigger a review under PSD rules? To determine the answer, review the information below: | |
| <ul style="list-style-type: none">• Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source?• Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?• Are emissions increasing above significance levels at an existing major site? | <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO |
| PSD information can be found at: www.tceq.state.tx.us/permitting/air/forms/newsourcereview/tables/nsr_table9.html www.tceq.state.tx.us/permitting/air/nav/air_docs_newsourcereview.html | |
| <i>If "Yes," to any of the above, a PBR may not be used. A PSD Permit review must be completed to authorize the project.</i> | |
| <i>If "No," continue to Section 4.</i> | |



Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|-----|-----------------|-------|-------|--|-------|-------|----------------------------------|-------|-------|---|-------|-------|------------|-------|-------|-------------|-------|-------|--|--|
| 4. 30 TAC § 106.4(a)(6): Federal Requirements | | | | | | | | | | | | | | | | | | | | | | | |
| • Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)? If "Yes," which Subparts are applicable? _____ | <input type="checkbox"/> YES | <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA | | | | | | | | | | | | | | | | | | | | | |
| • Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards? If "Yes," which Subparts are applicable? BBBBBB | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> NA | | | | | | | | | | | | | | | | | | | | | |
| • Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPs)? If "Yes," which Subparts are applicable? _____ | <input type="checkbox"/> YES | <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA | | | | | | | | | | | | | | | | | | | | | |
| If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards. | | | | | | | | | | | | | | | | | | | | | | | |
| 5. 30 TAC § 106.4(a)(7): PBR prohibition check | | | | | | | | | | | | | | | | | | | | | | | |
| Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs? If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required. List permit numbers(s): _____ If "No," continue to Section 6. | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | | | | | | | | | | | | | | | | | | | | | |
| 6. 30 TAC § 106.4(a)(8): Nox Cap and Trade | | | | | | | | | | | | | | | | | | | | | | | |
| • Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County? If "Yes," answer the question below. If "No," continue to Section 7. | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | | | | | | | | | | | | | | | | | | | | | |
| • Will the proposed facility or group of facilities obtain required allowances for Nox if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | | | | | | | | | | | | | | | | | | | | | |
| 7. Highly Reactive Volatile Organic Compounds (HRVOC) check | | | | | | | | | | | | | | | | | | | | | | | |
| • Is the facility located in Harris County? If "Yes," answer the next question. If "No," skip to the box below. • Will the project be constructed after June 1, 2006? If "Yes," answer the next question. If "No," skip to the box below. • Will one or more of the following HRVOC be emitted as a part of this project? If "Yes" complete the information below: | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td></td><td>lb/hr</td><td>tpy</td></tr><tr><td>▶ 1,3-butadiene</td><td>_____</td><td>_____</td></tr><tr><td>▶ all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene])</td><td>_____</td><td>_____</td></tr><tr><td>▶ alpha-butylene (ethylethylene)</td><td>_____</td><td>_____</td></tr><tr><td>▶ beta-butylene (dimethylethylene, including both cis- and trans-isomers)</td><td>_____</td><td>_____</td></tr><tr><td>▶ ethylene</td><td>_____</td><td>_____</td></tr><tr><td>▶ propylene</td><td>_____</td><td>_____</td></tr></table> | | lb/hr | tpy | ▶ 1,3-butadiene | _____ | _____ | ▶ all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene]) | _____ | _____ | ▶ alpha-butylene (ethylethylene) | _____ | _____ | ▶ beta-butylene (dimethylethylene, including both cis- and trans-isomers) | _____ | _____ | ▶ ethylene | _____ | _____ | ▶ propylene | _____ | _____ | | |
| | lb/hr | tpy | | | | | | | | | | | | | | | | | | | | | |
| ▶ 1,3-butadiene | _____ | _____ | | | | | | | | | | | | | | | | | | | | | |
| ▶ all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene]) | _____ | _____ | | | | | | | | | | | | | | | | | | | | | |
| ▶ alpha-butylene (ethylethylene) | _____ | _____ | | | | | | | | | | | | | | | | | | | | | |
| ▶ beta-butylene (dimethylethylene, including both cis- and trans-isomers) | _____ | _____ | | | | | | | | | | | | | | | | | | | | | |
| ▶ ethylene | _____ | _____ | | | | | | | | | | | | | | | | | | | | | |
| ▶ propylene | _____ | _____ | | | | | | | | | | | | | | | | | | | | | |
| • Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County? If "Yes," answer the next question. If "No," the checklist is complete. • Will the project be constructed after June 1, 2006? If "Yes," answer the next question. If "No," the checklist is complete. • Will one or more of the following HRVOC be emitted as a part of this project? If "Yes," complete the information below: | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td></td><td>lb/hr</td><td>tpy</td></tr><tr><td>▶ ethylene</td><td>_____</td><td>_____</td></tr><tr><td>▶ propylene</td><td>_____</td><td>_____</td></tr></table> | | lb/hr | tpy | ▶ ethylene | _____ | _____ | ▶ propylene | _____ | _____ | | | | | | | | | | | | | | |
| | lb/hr | tpy | | | | | | | | | | | | | | | | | | | | | |
| ▶ ethylene | _____ | _____ | | | | | | | | | | | | | | | | | | | | | |
| ▶ propylene | _____ | _____ | | | | | | | | | | | | | | | | | | | | | |



Title 30 Texas Administrative Code § 106.261 **Permit By Rule (PBR) Checklist** **Facilities (Emission Limitations)**

The following checklist is designed to help you confirm that you meet Title 30 Texas Administrative Code § 106.261 (30 TAC § 106.261) requirements. If you do not meet all the requirements, you may alter the project design or operation in such a way that all the requirements of the PBR are met or you may obtain a construction permit. The PBR forms, tables, checklists and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ), Air Permits Division Web site at, www.tceq.state.tx.us/nav/permits/air_permits.html.

| CHECK THE MOST APPROPRIATE ANSWER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|------------------------------------|---------------------------------|---------------------------------------|------------------------------------|--------------------------------|------------------------------------|---|------------------------------------|---------------------------------|--|----------------------------------|---------------------------------|------------------------------------|---|--|--|--|--|---|---|--------------------------------------|---|--|----------------------------------|--------------------------------------|-------------------------------|--------------------------------------|--|--------------------------------------|--------------------------------|-------------------------------------|---------------------------------|--|---|--|----------------------------------|----------------------------------|----------------------------------|---------------------------------|--|--------------------------------------|---|--|-------------------------------------|-----------------------------------|------------------------------------|---------------------------------|--|
| Is a description or checklist of how this claim meets the general requirements for the use of PBRs in 30 TAC § 106.4 attached? | | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b1 | Is this claim for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect? <i>If "YES," this PBR cannot be used to authorize emissions from the project</i> | | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b2 | Is this claim for any change to any facility authorized under another section of this chapter or authorized under a standard permit? <i>If "YES," this PBR cannot be used to authorize emissions from the project</i> | | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a1 | Are facilities or changes located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located? | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a2 | Are total new or increased emissions, including fugitives, less than or equal to 6.0 pounds per hour (lb/hr) and ten tons per year of the following materials (check all that apply): | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="0"> <tr> <td><input type="checkbox"/> acetylene</td> <td><input type="checkbox"/> helium</td> <td><input type="checkbox"/> propyl ether</td> <td><input type="checkbox"/> limestone</td> </tr> <tr> <td><input type="checkbox"/> argon</td> <td><input type="checkbox"/> isohexane</td> <td><input type="checkbox"/> sulfur dioxide</td> <td><input type="checkbox"/> magnesite</td> </tr> <tr> <td><input type="checkbox"/> butane</td> <td><input type="checkbox"/> isopropyl alcohol</td> <td><input type="checkbox"/> alumina</td> <td><input type="checkbox"/> marble</td> </tr> <tr> <td><input type="checkbox"/> crude oil</td> <td><input type="checkbox"/> methyl acetylene</td> <td><input type="checkbox"/> calcium carbonate</td> <td><input type="checkbox"/> pentaerythritol</td> </tr> <tr> <td><input type="checkbox"/> carbon monoxide</td> <td><input type="checkbox"/> methyl chloroform</td> <td><input type="checkbox"/> calcium silicate</td> <td><input type="checkbox"/> plaster of paris</td> </tr> <tr> <td><input type="checkbox"/> cyclohexane</td> <td><input type="checkbox"/> methyl cyclohexane</td> <td><input type="checkbox"/> cellulose fiber</td> <td><input type="checkbox"/> silicon</td> </tr> <tr> <td><input type="checkbox"/> cyclohexene</td> <td><input type="checkbox"/> neon</td> <td><input type="checkbox"/> cement dust</td> <td><input type="checkbox"/> silicon carbide</td> </tr> <tr> <td><input type="checkbox"/> cyclopentan</td> <td><input type="checkbox"/> nonan</td> <td><input type="checkbox"/> emery dust</td> <td><input type="checkbox"/> starch</td> </tr> <tr> <td><input type="checkbox"/> ethyl acetate</td> <td><input type="checkbox"/> oxides of nitrogen</td> <td><input type="checkbox"/> glycerin mist</td> <td><input type="checkbox"/> sucrose</td> </tr> <tr> <td><input type="checkbox"/> ethanol</td> <td><input type="checkbox"/> propane</td> <td><input type="checkbox"/> gypsum</td> <td><input type="checkbox"/> zinc stearate</td> </tr> <tr> <td><input type="checkbox"/> ethyl ether</td> <td><input type="checkbox"/> propyl alcohol</td> <td><input type="checkbox"/> iron oxide dust</td> <td><input type="checkbox"/> zinc oxide</td> </tr> <tr> <td><input type="checkbox"/> ethylene</td> <td><input type="checkbox"/> propylene</td> <td><input type="checkbox"/> kaolin</td> <td></td> </tr> </table> | | | | <input type="checkbox"/> acetylene | <input type="checkbox"/> helium | <input type="checkbox"/> propyl ether | <input type="checkbox"/> limestone | <input type="checkbox"/> argon | <input type="checkbox"/> isohexane | <input type="checkbox"/> sulfur dioxide | <input type="checkbox"/> magnesite | <input type="checkbox"/> butane | <input type="checkbox"/> isopropyl alcohol | <input type="checkbox"/> alumina | <input type="checkbox"/> marble | <input type="checkbox"/> crude oil | <input type="checkbox"/> methyl acetylene | <input type="checkbox"/> calcium carbonate | <input type="checkbox"/> pentaerythritol | <input type="checkbox"/> carbon monoxide | <input type="checkbox"/> methyl chloroform | <input type="checkbox"/> calcium silicate | <input type="checkbox"/> plaster of paris | <input type="checkbox"/> cyclohexane | <input type="checkbox"/> methyl cyclohexane | <input type="checkbox"/> cellulose fiber | <input type="checkbox"/> silicon | <input type="checkbox"/> cyclohexene | <input type="checkbox"/> neon | <input type="checkbox"/> cement dust | <input type="checkbox"/> silicon carbide | <input type="checkbox"/> cyclopentan | <input type="checkbox"/> nonan | <input type="checkbox"/> emery dust | <input type="checkbox"/> starch | <input type="checkbox"/> ethyl acetate | <input type="checkbox"/> oxides of nitrogen | <input type="checkbox"/> glycerin mist | <input type="checkbox"/> sucrose | <input type="checkbox"/> ethanol | <input type="checkbox"/> propane | <input type="checkbox"/> gypsum | <input type="checkbox"/> zinc stearate | <input type="checkbox"/> ethyl ether | <input type="checkbox"/> propyl alcohol | <input type="checkbox"/> iron oxide dust | <input type="checkbox"/> zinc oxide | <input type="checkbox"/> ethylene | <input type="checkbox"/> propylene | <input type="checkbox"/> kaolin | |
| <input type="checkbox"/> acetylene | <input type="checkbox"/> helium | <input type="checkbox"/> propyl ether | <input type="checkbox"/> limestone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> argon | <input type="checkbox"/> isohexane | <input type="checkbox"/> sulfur dioxide | <input type="checkbox"/> magnesite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> butane | <input type="checkbox"/> isopropyl alcohol | <input type="checkbox"/> alumina | <input type="checkbox"/> marble | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> crude oil | <input type="checkbox"/> methyl acetylene | <input type="checkbox"/> calcium carbonate | <input type="checkbox"/> pentaerythritol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> carbon monoxide | <input type="checkbox"/> methyl chloroform | <input type="checkbox"/> calcium silicate | <input type="checkbox"/> plaster of paris | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> cyclohexane | <input type="checkbox"/> methyl cyclohexane | <input type="checkbox"/> cellulose fiber | <input type="checkbox"/> silicon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> cyclohexene | <input type="checkbox"/> neon | <input type="checkbox"/> cement dust | <input type="checkbox"/> silicon carbide | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> cyclopentan | <input type="checkbox"/> nonan | <input type="checkbox"/> emery dust | <input type="checkbox"/> starch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> ethyl acetate | <input type="checkbox"/> oxides of nitrogen | <input type="checkbox"/> glycerin mist | <input type="checkbox"/> sucrose | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> ethanol | <input type="checkbox"/> propane | <input type="checkbox"/> gypsum | <input type="checkbox"/> zinc stearate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> ethyl ether | <input type="checkbox"/> propyl alcohol | <input type="checkbox"/> iron oxide dust | <input type="checkbox"/> zinc oxide | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> ethylene | <input type="checkbox"/> propylene | <input type="checkbox"/> kaolin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> refinery petroleum fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene <input type="checkbox"/> fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a3 | Are total new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m ³) as listed and referenced in Table 262 of 30 TAC § 106.262 of this title (relating to Facilities (Emission and Distance Limitations)? List chemical: <input type="text"/> L value: <input type="text"/> | | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are total new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical not listed or referenced in Table 262? List chemical: <input type="text"/> | | | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are total new or increased emissions, including fugitives, of a chemical with a limit value of less than 200 mg/m ³ ? <i>If "Yes" the authorization of the chemical is not allowed under this section. We suggest you use 30 TAC §106.262 to authorize the emissions, if applicable.</i> | | | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--|--|
| a4 Are there any changes to or additions of any existing air pollution abatement equipment? | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| a5 Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater than 5.0% opacity in any six-minute period? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A |
| a6 Are emission increases five tons per year or greater? If "YES," this checklist must be attached to a Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A |
| a7 Are emission increases less than five tons per year? If "YES," this checklist must be attached to a Form PI-7 and include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any. (pick one): <ul style="list-style-type: none"> <input type="checkbox"/> Within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any; or <input type="checkbox"/> By March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A |

PRINT



Texas Commission on Environmental Quality

Exemption §106.473 Checklist (Previously Standard Exemption 53)

Organic and Inorganic Liquid Loading and Unloading

The following checklist is designed to help you can confirm that you meet Exemption §106.473, previously standard exemption 53 (STDX 53) requirements. Any "no" answers indicate that the claim of registration may not meet all requirements for the use of Exemption §106.473, previously standard exemption 53.

If you do not meet all the requirements, you may alter the project design/operation in such a way that all the requirements of the exemption are met, or obtain a construction permit.

| <u>YES</u> | <u>NO</u> | <u>NA</u> | <u>DESCRIPTION</u> |
|-------------------------------------|--------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Have you included a description of how this exemption claim meets the general rule for the use of exemptions (§106.4 checklist is available)? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are all the facilities claimed for exemption specifically named in the general section of §106.473, previously STDX 53? Attach a description. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are all uncontrolled emissions, calculated using the version of AP-42 in effect at the time, less than 25 TPY of organic compounds or of any other air contaminant? Attach calculations. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Will the loading rate of the facilities always be less than 20,000 gallons per day averaged over any consecutive 30-day period? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is the capacity of each tank less than or equal to 25,000 gallons (40,000 gallons for storage of sweet crude oil, sweet natural gas condensate, gasoline, and petroleum fuels)? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are all the chemicals to be loaded, unloaded, or stored described in §106.473(4)(A) & (B), previously STDX 53(d)(1) & (2)? Attach a list of the chemicals. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will the facilities meet the applicable requirements of 30 TAC 115? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Have you checked 40 CFR 261, Appendix VIII to ensure that no listed compound is to be loaded, unloaded, or stored under this exemption? |

Attachment IV

Emission Calculations

Table 1
Magellan Pipeline Company, L.P.
Cresson Pump Station
Fugitive Emissions Summary [106.261]

| Site | Products | Fugitive Emissions (lb/hr) | Fugitive Emissions (tpy) |
|----------------------|------------------|----------------------------|--------------------------|
| Cresson Pump Station | Refined Products | 0.017 | 0.073 |

| | lb/hr | tpy |
|-------|-------|------|
| Total | 0.02 | 0.07 |

Table 2
Magellan Pipeline Company, L.P.
Cresson Pump Station
PBR 261 Limit Calculation

| Total Fugitive VOC Emissions from all locations (lb/yr) | Species | K Value @ 100 feet | Species fraction of total VOC ⁽¹⁾ | TLV (mg/m ³) | Fugitive Emissions of Species (lb/hr) | PBR 261 Limit (lb/hr) | Emission Rate < Allowable? Yes/No |
|---|----------------------------|--------------------|--|--------------------------|---------------------------------------|-----------------------|-----------------------------------|
| 145 | Refined Petroleum Products | | 100% | 3 | 0.0166 | 6.0 | Yes |

1 - From EPA Document EPA-453/R-94-002a (Jan 1994) Gasoline Distribution Industry (Stage I) - Background Information for Proposed Standards, Table C-5.

Table 3
Magellan Pipeline Company, L.P.
Sump Emissions (Fixed Roof Tanks)

Reference: AP-42, Fifth Edition, Volume 1, Chapter 7.1 Liquid Storage Tanks - January 1995
Reference: TCEQ Technical Guidance Package - Storage Tanks - February 2001

Total Losses from a Fixed Roof Tank (Equation 1-1):

$$L_T = L_S + L_W$$

where: L_T = total losses
 L_S = standing storage losses
 L_W = working losses

Standing Losses from a Fixed Roof Tank (Equation 1-2):

$$L_S = D V_v W_v K_a K_b$$

where: L_S = standing storage losses
 D = days
 V_v = vapor space volume = $(\pi/4) \cdot D^2 \cdot H_{v2}$ (Equation 1-3)
 D = tank diameter
 H_{v2} = vapor space outage
 W_v = vapor density = $(M_v P_{v2}) / (R T_{v2})$ (Equation 1-21)
 M_v = vapor molecular weight
 R = ideal gas constant = 10.731 (psia ft³)/(lb-mole °R)
 P_{v2} = vapor pressure at daily average liquid surface temperature
 T_{v2} = daily average liquid surface temperature
 K_a = vapor space expansion factor = $\Delta T_v / T_{v2} + (\Delta P_v - \Delta P_b) / (P_A - P_{v2})$ (Equation 1-7)
 ΔT_v = daily vapor temperature range = $0.72 \cdot \Delta T_A + (0.028 \cdot \alpha \cdot 1)$ (Equation 1-8)
 ΔT_A = daily ambient temperature range = $T_{Ax} - T_{Ax}$ (Equation 1-12)
 α = tank liquid solar absorptance (Table 7.1-8)
 I = daily total solar insolation factor (Table 7.1-7)

K_b continued
 T_{v2} = daily average liquid surface temperature = $0.44 T_{Ax} + 0.56 T_b + 0.0079 \alpha \cdot 1$ (Equation 1-20)
 T_{Ax} = daily average ambient temperature = $(T_{Ax} + T_{Ax}) / 2$
 T_{Ax} = daily maximum ambient temperature (Table 7.1-7)
 T_{Ax} = daily minimum ambient temperature (Table 7.1-7)
 $T_b = T_{Ax} + 8 \alpha \cdot 1$
 ΔP_v = daily vapor pressure range = $P_{v2} - P_{v1}$ (Equation 1-9)
 P_{v2} = vapor pressure at daily maximum liquid surface temperature (T_{v2}) $T_{v2} = T_{v2} + 0.25 \cdot \Delta T_v$ (Figure 7.1-17)
 P_{v1} = vapor pressure at daily minimum liquid surface temperature (T_{v1}) $T_{v1} = T_{v2} - 0.25 \cdot \Delta T_v$ (Figure 7.1-17)
 ΔP_b = breather vent pressure setting range = $P_{b2} - P_{b1}$
 P_{b2} = breather vent pressure setting
 P_{b1} = breather vent vacuum setting
 P_A = atmospheric pressure
 P_{v2} = vapor pressure at daily average liquid surface temperature (T_{v2})
 K_b = vented vapor saturation factor = $1 / (1 + (0.033 P_{v2} H_{v2}))$ (Equation 1-20)

Working Losses from a Fixed Roof Tank (Equation 1-29):

$$L_W = (0.001) (M_v) (P_{v2}) (Q) (K_c) (K_d)$$

where: L_W = working losses
 M_v = vapor molecular weight
 P_{v2} = vapor pressure at daily average liquid surface temperature
 Q = annual net throughput
 K_c = working loss turnover factor
For turnovers (N) $> 36 = (180 + N) / 6 N$
For turnovers (N) $< 36 = 1$
 K_d = working loss product factor
For crude oils = 0.75
For all other organic liquids = 1

Maximum Short-Term Working Losses calculated according to the TCEQ Guidance Document:

$$L_{Wmax} = (L_W FR_{max}) / (1 - T_{CG})$$

where: L_{Wmax} = maximum short term emission rate
 L_W = working losses from AP-42 at maximum liquid surface temperature (P_{v2max})
 P_{v2max} = true vapor pressure at daily maximum liquid surface temperature
 L_{Wmax} assumes a K_b value of 1, per TCEQ guidance document
 FR_{max} = maximum filling rate
 N = turnovers per day
 T_{CG} = tank working capacity

Hourly Emissions

| Data to be entered for calculation: | | | | | Data Looked up on Tank Data Sheet: | | | | | | | | | | Data Looked up on Product Data Sheet: | | | | | | | | | | Data Looked up on Met Data Sheet: | | | | | | | | | | | | | | | | | | | | | | | | Fixed Roof Tank Emissions Calculation | | | | | | | | | |
|-------------------------------------|----------|--------------------|-------------|----------|------------------------------------|---------------------|----------------------------|-------------------|----------------------------|-----------------------|-----------------------|--------------|----------------------------|------------------------------|---------------------------------------|--------------------|--------------------|---------------------------|--------------------|-----------------------|----------------------|----------------------|--------------------------|----------------------|-----------------------------------|---------------------|----------------------|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------|------------------------|------------------------|-----------------------|------------------------|---------------------------|-----------------------------------|--------------------------------------|---------------------------|---------------------------|-------------------------|------------------------|----------------------|---------------------------|-------------------------|----------------------------|---------------------------------------|---------------------------|---------------------------|---------------------------|--------|--|--|--|--|--|
| Tank ID | Date | Product | Q (barrels) | D (days) | D or D _W (H) | Tank capacity (gal) | FR _{max} (gal/hr) | Shell Height (ft) | Maximum Liquid Height (ft) | P _W (psig) | P _V (psig) | Product Type | M _v (lb/lb-mol) | H ₂ S Content (%) | Antoine Constant A | Antoine Constant B | Antoine Constant C | K _p (unitless) | Month for Met Data | P _s (psia) | T _{AX} (°F) | T _{AM} (°F) | I (Btu/ft ²) | H _{v2} (ft) | T _{AX} (°R) | T _b (°R) | T _{v2} (°R) | ΔT _A (°R) | ΔP _b (psia) | ΔT _v (°R) | T _{v2} (°R) | T _{v1} (°R) | T _{v2} (°R) | P _{v2} (psia) | P _{v1} (psia) | P _W (psia) | ΔP _v (psia) | P _{v2max} (psia) | V _v (ft ³) | W _v (lb/ft ³) | K _c (unitless) | K _d (unitless) | L _S (ton/yr) | L _S (lb/hr) | Turnovers (unitless) | K _W (unitless) | L _W (ton/yr) | L _{Wmax} (lb/day) | Collection Efficiency (%) | L _{Wmax} (lb/hr) | L _{Wmax} (lb/hr) | L _{Wmax} (lb/hr) | | | | | | |
| Crescon Sump | 7/1/2011 | Gasoline (RVP13.5) | 309 | 1 | 5.8 | 540 | 0.17 | 540 | 7 | 3.5 | 0.03 | -0.03 | Refined | 66.00 | 0.90 | 11.63 | 5015.72 | 0 | 1.00 | 7 | 13.282 | 93.6 | 72.5 | 1828 | 3.56 | 542.7 | 542.7 | 545.2 | 21.1 | 0.06 | 23.9 | 551.2 | 539.2 | 542.7 | 11.36 | 12.56 | 10.26 | 2.295 | 10.917 | 93.46 | 0.1284 | 1.222 | 0.318 | 0.00 | 0.194 | 24.0 | 1.00 | 0.12 | 222.33 | 0.0% | 9.27 | 9.27 | 0.0634 | | | | | |

Annual Emissions

| Tank ID | Date | Product | Q (barrels) | D (days) | D or D _W (H) | Tank capacity (gal) | α (unitless) | FR _{max} (gal/hr) | Shell Height (ft) | Maximum Liquid Height (ft) | P _W (psig) | P _V (psig) | Product Type | M _v (lb/lb-mol) | H ₂ S Content (%) | Antoine Constant A | Antoine Constant B | Antoine Constant C | K _p (unitless) | Month for Met Data | P _s (psia) | T _{AX} (°F) | T _{AM} (°F) | I (Btu/ft ²) | H _{v2} (ft) | T _{AX} (°R) | T _b (°R) | T _{v2} (°R) | ΔT_A (°R) | ΔP_b (psia) | ΔT_v (°R) | T _{v2} (°R) | T _{v1} (°R) | T _{v2} (°R) | P _{v2} (psia) | P _{v1} (psia) | P _W (psia) | ΔP_v (psia) | P _{v2max} (psia) | V _v (ft ³) | W _v (lb/ft ³) | K _c (unitless) | K _d (unitless) | L _S (ton/yr) | L _S (lb/hr) | Turnovers (unitless) | K _W (unitless) | L _W (ton/yr) | L _{Wmax} (lb/day) | Collection Efficiency (%) | L _{Wmax} (lb/hr) |
|---------------|------|------------------|-------------|----------|-------------------------|---------------------|---------------------|----------------------------|-------------------|----------------------------|-----------------------|-----------------------|--------------|----------------------------|------------------------------|--------------------|--------------------|--------------------|---------------------------|--------------------|-----------------------|----------------------|----------------------|--------------------------|----------------------|----------------------|---------------------|----------------------|-------------------|---------------------|-------------------|----------------------|----------------------|----------------------|------------------------|------------------------|-----------------------|---------------------|---------------------------|-----------------------------------|--------------------------------------|---------------------------|---------------------------|-------------------------|------------------------|----------------------|---------------------------|-------------------------|----------------------------|---------------------------|---------------------------|
| Crescent Sump | 365 | Gasoline (RVP11) | 1,337 | 365 | 5.8 | 540 | 0.17 | 540 | 7 | 4 | 0.03 | -0.03 | Refined | 66.00 | 0.90 | 11.69 | 5166.91 | 0.00 | 1.00 | 365 | 13.282 | 79.1 | 57.4 | 1351 | 3.56 | 527.9 | 527.9 | 529.7 | 21.7 | 0.06 | 22.0 | 535.2 | 524.2 | 527.9 | 6.96 | 7.70 | 6.28 | 1.415 | 6.733 | 93.46 | 0.0809 | 0.256 | 0.432 | 0.15 | 0.036 | 104.0 | 0.46 | 0.14 | 594.17 | 0 | 5.7 |

A row for each tank for each month needs to be created even if the throughput is zero so that standing emissions are calculated. Not applicable if tank is empty and out of service. Press F9 to re-calculate emissions if you make any changes.

| L _T (ton/yr) | L _T (lb/hr) |
|-------------------------|------------------------|
| 0.292 | 0.003 |

Table 4
Fugitive Loss Emissions
Cresson Pump Station

| Component | Service | No. of Components | Emission Factor ¹ (lb/comp/hr) | VOC Emission Rates | |
|---------------------------|--------------|-------------------|--|--------------------|-----------------------|
| | | | | (lb/hr) | (ton/yr) ² |
| All Valves | Gas/Vapor | | 2.8700E-05 | 0.0000 | 0.000 |
| | Light Liquid | 29 | 9.4800E-05 | 0.0027 | 0.012 |
| | Heavy Liquid | | 9.4800E-05 | 0.0000 | 0.000 |
| All Flanges | Gas/Vapor | | 9.2604E-05 | 0.0000 | 0.000 |
| | Light Liquid | 88 | 1.7620E-05 | 0.0016 | 0.007 |
| | Heavy Liquid | | 1.7600E-05 | 0.0000 | 0.000 |
| Other | Gas/Vapor | | 2.6500E-04 | 0.0000 | 0.000 |
| | Light Liquid | 22 | 2.8700E-04 | 0.0063 | 0.028 |
| | Heavy Liquid | | 2.8700E-04 | 0.0000 | 0.000 |
| Pumps | Light Liquid | 5 | 1.1900E-03 | 0.0060 | 0.026 |
| | Heavy Liquid | | 1.1900E-03 | 0.0000 | 0.000 |
| TOTAL FUGITIVE VOC | | | | 0.017 | 0.073 |

Notes:

1. "Air Permit Technical Guidance for Chemical Sources: Equipment Leak Fugitives.", Texas Natural Resource Conservation Commission, October 2000 Petroleum Marketing Terminals Factors
2. Annual emissions are based on 8760 hours per year
3. A 10% increase has been added to the component count to account for a conservative component count estimate.

Table No. 5
Magellan Pipeline Company, L.P.
Cresson Pump Station
Product Properties for Site

| Data to be entered for use in calculations: | | | | | | | | | | Values calculated for use in calculations: | | | | | |
|---|--------------|------|---------|---------------------|-----|-----|----------------|----------------|-----------|--|---------|-----|----------------|----------------|--------------------|
| Product Code (to be used on calculation sheets) | Product Type | RVP | S-Value | Antoine's Constants | | | M _v | W _L | % Benzene | Antoine's Constants as Calculated or Entered | | | K _C | K _P | % H ₂ S |
| | | | | A | B | C | | | | A | B | C | | | |
| Gasoline (RVP11) | Refined | 11 | 3.0 | 0.0 | 0.0 | 0.0 | 66 | 5.60 | 0.90 | 11.7 | 5,166.9 | 0.0 | 1.00 | 1.00 | |
| Gasoline (RVP13.5) | Refined | 13.5 | 3.0 | 0.0 | 0.0 | 0.0 | 66 | 5.60 | 0.90 | 11.6 | 5,015.7 | 0.0 | 1.00 | 1.00 | |

Table No. 6
Magellan Pipeline Company, L.P.
Cresson Pump Station
Tank Data

| Data to be entered for all tanks: | | | | | | Data to be entered for fixed roof tanks: | | | | | Calculated for Fixed Roof Tanks: | |
|-----------------------------------|-----------|------------------------------|-------------------|------------------------|---|---|---|---------------------------|---------------------------|--------------|---|--|
| Tank ID | Roof Type | D / D _{eff} (ft) | Capacity (bbl) | α (unitless) | Maximum Filling Rate (F _{RM}) (gal/hr) | Shell Height or Length (H _S) (ft) | Liquid Height (H _L) (ft) | P _{BP} (psig) | P _{BV} (psig) | Roof Type | Roof Outage (H _{RO}) (ft) | Vapor Space Outage (H _{VO}) (ft) |
| Cresson Sump | HFR | 5.8 | 13 | 0.17 | 540 | 7.0 | 3.50 | 0.03 | -0.03 | Cone | 0.06 | 2.95 |

Attachment V

Copy of submitted PBR Registration Fee