

*PERMIT by RULE TECHNICAL REVIEW*

**Company:** Explorer Pipeline Company, P.O. Box 2650, Tulsa, Oklahoma 74101-2650  
**Registration Number:** X **Record Number:** 88057 **Account ID Number:** Not Given  
**Contact Name:** Mr. James F. Sieck, P.E., Company Health, Safety, Security and Environmental Manager (1<sup>st</sup> contact and Form PI-7 signer) **Telephone:** (918) 493-5143  
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**Contact Name:** Mr. Donald Whitney, P.E., Consulting Engineer, Trinity Consultants, Oklahoma City, Oklahoma **Telephone:** (405) 228-3292 **Fax:** Not given

**Description/Name of Facilities and Processes Claimed:** This registration request *(including Form PI-7 with both registration and certification signatures)* is concerning the new construction and operational use of the Bonham Pump Station located near the City of Ector, in Fannin County, Texas. It is recognized that this pump station is not designed, nor intended to store product. Explorer Pipeline Company plans to increase the throughput of refined products through the existing pipeline by installing 12 new pump stations between the Texas Gulf Coast region and the Chicago, Illinois area. This is one of five (5) computer assisted (remotely operated) pump stations that will be installed along the pipeline route through Texas. The purpose of this project is to increase pipeline throughput by providing more pumping capacity along that route.

The primary purpose of the "breakout" tanks at the pump station is to allow for drain-down of the breakout stations for rare maintenance activities and for emergency storage in the event of a release; to provide a place to relieve thermally generated pressure in the station piping; or, for a place to collect product that is accumulated from the valve body drains or seal pots. Under normal operating conditions, the tanks will be empty or nearly empty. Storage tank working and standing emissions have been based upon a conservative full time utilization.

When completed, this pump station will consist of one 19,740-gallon (470-barrel) vertical fixed roof "breakout" storage tank painted chalk white and equipped with a submerged fill pipe (EPN: T-261), one 210,000-gallon (5,000-barrel) internal floating roof "breakout" storage tank painted chalk white and equipped with a mechanical shoe primary seal and no secondary seal (EPN: T-262), electric motor driven liquid pumping equipment, and associated process fugitives. These two storage tanks may occasionally contain refined liquid petroleum products or the petroleum transportation byproduct (trans-mix), during maintenance activities or for emergency storage.

Explorer Pipeline Company proposes our concurrence, under Chapter 106 - Section 478 for the new construction and operational use of the of the Bonham Pump Station. The 500 foot distance of Chapter 106, Section 478 has been satisfied. This facility neither constitutes a new major stationary source, nor a major modification. The emissions resulting from the operation of storage tanks T-261 and T-262 do not constitute a major Prevention of Significant Deterioration (PSD) source.

It has been represented that this pipeline will be transporting gasoline, associated mixed products (trans-mix), and distillate fuels (fuel oil no. 2 and jet kerosene) to customer terminals on the pipeline route which stretches from the Texas Gulf Coast region to the Chicago, Illinois area. This pump station will aid in increasing the throughput of refined products through the existing pipeline.

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Tanks T-261 and T-262 may occasionally contain "trans-mix," which is a mixture of gasoline and distillate fuels. The trans-mix will contain less than 10-percent benzene and will contain less than 1.0-percent by volume of other chemicals not listed in Table 478. Neoprene spheres are used to separate one product batch from the next. At other times, no separation device is used.

**Sources/Emissions/Control Summary:** The routine emissions associated with the operational use of T-261 are not expected to exceed 2.78 tons per year (tpy) and 24.03 pounds per hour (lb/hr) of volatile organic compounds (VOCs). The routine emissions associated with the operational use of T-262 are not expected to exceed 2.01 tpy and 1.91 lb/hr of VOCs. The overall facility fugitive emissions have been estimated at 0.09 tpy of VOCs.

**Speciated HAP emissions are as follows:**

Hazardous Air Pollutant	CAS Number Identification	HAP to VOC Content (% by Weight)	Maximum HAP Emission Rate (tpy)
Hexane	110-54-3	1.450	0.067
Benzene	71-43-2	0.700	0.032
Toluene	108-88-3	1.150	0.053
2,2,4-trimethylpentane	540-84-1	0.725	0.034
Xylenes	1330-20-7	0.425	0.019
Ethylbenzene	100-41-4	0.100	0.004
Methyl tertiary butyl ether (MTBE)	1634-04-4	11.900	0.553
		<b>Total Aggregated HAP Emission Rate</b>	<b>0.764 tpy</b>

Overall emission estimates have been based upon a worst-case pipeline transport compound of gasoline characterized as having a Reid vapor pressure no greater than 11.0 psia. Emissions from storage tank T-261 have been based upon a maximum

throughput of 360,985 gallons per year. Emissions from storage tank T-262 have been based upon a maximum throughput of 3,832,500 gallons per year. Fugitive emissions are based upon TNRCC Technical Guidance - Equipment Leak Fugitives for petroleum marketing terminals.

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Each compound to be stored has a true vapor pressure of greater than 0.5 psia and less than 11.0 psia at the maximum storage temperature. A Table 7 has been provided for each tank.

**Emission Estimates are Based Upon:** Volatile organic compound emissions from Tank T-261 and T-262 have been quantified using the EPA's Tanks 4.09 software modeling. Short term emission rates were estimated using the TNRCC guidance for storage tanks (the maximum filling rate for tank T-262 is 210,000 gallons per hour).

**Emission Reductions Due to the NSR:** NONE

**PSD or Nonattainment Netting Required:** NO

**NSPS:** YES - Subparts A and Kb apply to Tanks T-261 and T-262

**NESHAPS:** N/A

**Site Review Required:** NO \_\_\_\_\_ **Performed by/date:** N/A

**Public Notice Required:** NO \_\_\_\_\_ **Approved:** N/A

**Meets all general and specific criteria:** YES (a favorable concurrence letter and technical review e-mailed for supervisor review on May 2, 2002).

**Does this registration require a 30 TAC Chapter 60 Compliance History review?**

Yes \_\_\_ No \_\_\_ NA \_\_\_ X \_\_\_."

**"If yes, should the PBR claim be denied on the basis of the compliance history, due to any patterns of major violations or recurring egregious conduct in any of the media for the site or for the company?"**

Yes \_\_\_ No \_\_\_ "

**Reviewed By:** Robert Walts \_\_\_\_\_ **Team Leader:** Clyde Price

**Date:** \_\_\_\_\_ May 2, 2002 \_\_\_\_\_ **Date:** \_\_\_\_\_ May 2, 2002