FACILITY PERMIT REVIEW SHEET

DATE: 6/1/2011 **APPLICATION NUMBER:** 0310562-002-AO

FACILITY NAME: Centerpoint Terminal

FACILITY DESCRIPTION: Bulk gasoline/fuel terminal

PERMIT PROCESSOR: C. Blane Johnson

MAJOR FOR CRITERIA POLLUTANTS AND/OR HAPs (Circle)

CO PB NO_X PM SO_2 VOC HAP

SUBJECT TO: (Circle)

NSR(PSD) PERMIT NUMBER: _____

NSR(NAA) PERMIT NUMBER: _____

BACT EU NUMBER: _____

MACT EU NUMBER: 001, 002

RACT EU NUMBER: 001, 002

NSPS EU NUMBER: 001, 002

FACILITY EMISSION SUMMARY

	POTENTIAL EMISSIONS	ALLOWABLE EMISSIONS	
	TPY	LBS/HR	TPY
PM			
PM_{10}			
SO_2			
NO_X	39.4		<100
CO	65.7		<100
VOC	95.5		<100
TOC			
PB			
TOTAL HAP	5.1		<25
SINGLE HAP (highest)	1.5		<10

COMMENTS: Highest HAP is n-Hexane.

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310562-002-AO **EU NUMBER:** 001

REFERENCES: EPA TANKS program, AP-42 Section 7.1.3.2.2.2, EPA document # EPA-453/R-94-002a, and permit application

POLLUTANT: Volatile Organic Compounds (VOC's)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<100			230,000,000 gal/yr

POTENTIAL EMISSION CALCULATIONS

Storage Losses - 52.0 tons/yr

Landing Losses - 18.3 tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-210	2.301

COMMENTS:

POLLUTANT: Hazardous Air Pollutants (HAP's)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<25 & <10			230,000,000 gal/yr

POTENTIAL EMISSION CALCULATIONS

Percent by weight of VOC emissions as gasoline vapors X VOC emissions (tons/yr) = HAP emissions (tons/yr)

5.2% 70.3 = 3.7

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-210	2.301

COMMENTS: Highest HAP is n-Hexane at 1.1 tons/yr)

PERMIT PROCESSOR: **DATE:**

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310562-002-AO **EU NUMBER:** 002

REFERENCES: EPA TANKS program, AP-42 Section 5.2 and 7.1, EPA document # EPA-453/R-94-002a, and permit application

POLLUTANT: Volatile Organic Compounds (VOC's)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<100			230,000,000 gal/yr

POTENTIAL EMISSION CALCULATIONS

Truck Loading Rack Losses - 24.2 tons/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-210	2.301

COMMENTS:

POLLUTANT: Hazardous Air Pollutants (HAP's)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<25 & <10			),000,000 gal/yr

POTENTIAL EMISSION CALCULATIONS

Percent by weight of VOC emissions as gasoline vapors X VOC emissions (tons/yr) = HAP emissions (tons/yr)

5.2% 24.2 = 1.3

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-210	2.301

COMMENTS: Highest HAP is n-Hexane at 0.4 tons/yr)

POLLUTANT: Nitrogen Oxides (NO_x)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<100			

POTENTIAL EMISSION CALCULATIONS

Heat Input (MMBtu) X Emission Factor (lb/MMBtu) X (hr/yr) / (lb/ton) = PTE

30 0.3 8760 2000.0 = 39.42 tons/yr

RULE APPLICABILITY: **FEDERAL** **STATE** **LOCAL**

COMMENTS:

POLLUTANT: Carbon Monoxide (CO)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<100			

POTENTIAL EMISSION CALCULATIONS

Heat Input (MMBtu) X Emission Factor (lb/MMBtu) X (hr/yr) / (lb/ton) = PTE

30 0.5 8760 2000.0 = 65.7 tons/yr

RULE APPLICABILITY: **FEDERAL** **STATE** **LOCAL**

COMMENTS:

PERMIT PROCESSOR: **DATE:**

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310562-002-AO **EU NUMBER:** N/A

REFERENCES: EPA TANKS program, API Publication # 4588, EPA document # EPA-453/R-94-002a, and permit application

POLLUTANT: Volatile Organic Compounds (VOC's)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

Fugitive Losses - 0.2 tons/yr

Misc. Tanks (110 - 114) Losses - 0.8 tons/yr

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS:

POLLUTANT: Hazardous Air Pollutants (HAP's)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

Percent by weight of VOC emissions as gasoline vapors X VOC emissions (tons/yr) = PTE

5.2% 1.0 = 0.1 tons/yr

RULE APPLICABILITY:

FEDERAL	STATE	LOCAL

COMMENTS: Highest HAP is n-Hexane at 0.02 tons/yr)

PERMIT PROCESSOR: **DATE:**

Effective 2/27/97