FACILITY PERMIT REVIEW SHEET

DATE: 12/16/2010 **APPLICATION NUMBER:** 0310325-011-AO

FACILITY NAME: TRANSFLO Terminal Services, Inc.

FACILITY DESCRIPTION: Bulk materials transfer

PERMIT PROCESSOR: _____

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: _____

RACT EU NUMBER: _____

NSPS EU NUMBER: _____

FACILITY EMISSION SUMMARY

	POTENTIAL EMISSIONS	ALLOWABLE EMISSIONS	
	TPY	LBS/HR	TPY
PM	0.38	1.53	6.69
PM10			
SO_2			
NO_X			
CO			
VOC	63.2		100
TOC			
PB			
TOTAL HAP	1.98		25
SINGLE HAP (highest)	1.98		10

COMMENTS: This permit revision is to incorporate the change made to 0310325-009-AO by 0310325-010-AC. The only change was to EU003 process rate which went from 25,000 gal/hr to 219,000,000 gal/yr. These process rates are equivalent therefore there was no change to emissions for this facility.

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310325-011-AO **EU NUMBER:** 003

POLLUTANT: VOC **EU NUMBER:** 003

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER

POTENTIAL EMISSION CALCULATIONS

conversion factor X saturation factor X vapor pressure X molecular weight / liquid temperature = L_L (lb/1000 gal)

12.46	1	0.10	250	540	=	5.77E-01	lb/1000 gal

L_L X process rate (thousands) / 2000 lb/ton = PTE

5.77E-01	2.19E+05	2000	=	63.17	tons/year

RULE APPLICABILITY:	FEDERA	STATE	LOCAL

COMMENTS: **Loading Loss (L_L) in lb/1000 gal = 12.46(SPM/T) where S = saturation factor = 1.0, P = true vapor pressure, M = vapor molecular weight, T = liquid temperature in °R = °F + 460 and 12.46 is a conversion factor. Crude Tall Oil is used as worst case scenario.**

POLLUTANT: **HAP** **EU NUMBER:** **003**

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	10			

POTENTIAL EMISSION CALCULATIONS

L_L X process rate (thousands) / 2000 lb/ton = PTE uncontrolled

1.39 219000 2000 = 152.2 tons/year

Uncontrolled X removal efficiency = PTE controlled

152.2 0.013 = 1.98 tons/year

RULE APPLICABILITY: **FEDERA** **STATE** **LOCAL**

COMMENTS: **Toluene is used as worst case scenario. LL = 1.39 lb/1000 gal.**

POLLUTANT: **PM** **EU NUMBER:** **005, 006, 007**

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	6.69	5		

POTENTIAL EMISSION CALCULATIONS

EF X process rate (tons/yr) / 2000lb/ton = PTE uncontrolled

0.29 260,000 2000 = 37.7 tons/year

Uncontrolled X removal efficiency = PTE controlled

37.7 0.01 = 0.38 tons/year

RULE APPLICABILITY: **FEDERA** **STATE** **LOCAL**

COMMENTS: **PM emission factor calculated per AP-42 Equation 13.2.4-4 = 0.29 lb/ton.**
PM allowable emission based on 0.03 grains per dry standard cubic foot

PERMIT PROCESSOR: **DATE:**

Effective 2/27/97