FACILITY PERMIT REVIEW SHEET

DATE: 6/29/2011 **APPLICATION NUMBER:** 0310325-013-AO

FACILITY NAME: TRANSFLO Terminal Services, Inc.

FACILITY DESCRIPTION: Bulk material transfer

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: _____

RACT EU NUMBER: _____

NSPS EU NUMBER: _____

FACILITY EMISSION SUMMARY

	POTENTIAL EMISSIONS	ALLOWABLE EMISSIONS	
	TPY	LBS/HR	TPY
PM	2.64	<5	<15
PM10			
SO2			
NOX			
CO			
VOC			
TOC			
PB			
TOTAL HAP			
SINGLE HAP (highest)			

COMMENTS: _____

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310325-013-AO **EU NUMBER:** 005, 006, 007, 008,

REFERENCES: 0310325-005-AC, 0310325-013-AO, AP-42 Chapter 13.2.4

POLLUTANT: Particulate Matter (PM)

ALLOWABLE EMISSIONS

PM concentration (gr/ft^3) X flow rate (ft^3/min) X (min/hr) / (gr/lb) = AE

0.03	2000	60	7000	=	0.51 lb/hr each EU 2.3 tons/yr each EU

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
< 5	< 15	5	0.03 gr/ft^3	

POTENTIAL EMISSION CALCULATIONS

UNCONTROLLED

emission factor (lb/ton) X process rate (tons/hr) = PTE

0.078	50	=	3.9 lb/hr each EU

emission factor (lb/ton) X process rate (tons/yr) = PTE

0.078	260000	=	20280 lb/yr 10.14 tons/yr

CONTROLLED

emission factor (lb/ton) X process rate (tons/hr) X removal efficiency (1 - baghouse efficiency) = PTE

0.078	50	0.006	=	0.02 lb/hr each EU

emission factor (lb/ton) X process rate (tons/yr) X removal efficiency (1 - baghouse efficiency) = PTE

0.078	260000	0.006	=	122 lb/yr 0.06 tons/yr

--or--

PM concentration (lb/ft3) X flow rate (ft3/min) X (min/hr) = PTE

1.25E-06	2000	60	=	0.15 lb/hr each EU

PM concentration (lb/ft3) X flow rate (ft3/min) X (min/hr) X (hr/yr) = PTE

1.25E-06	2000	60	8760	=	1314 lb/yr each EU 0.66 tons/yr each EU

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-4.070(3)	2.1401
		62-297.620(4)	2.1201

COMMENTS: The emission factor is determined per AP-42 Chapter 13.2.4 Equation 1 with the following variables: k = 0.74 (PM), 0.35 (PM10), 0.053 (PM2.5); U = 7.8; M = 0.25 (this is the worst case scenario for moisture content); Therefore E = 0.078 (PM), 0.037 (PM10), 0.006 (PM2.5).
Baghouse efficiency guarantee = 99.4% or 20mg/m^3. These EU's are exempt from RACT

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97