IA Scanning Batch Sheet









August 24, 2022

Sent via UPS Tracking #: 1Z 1V0 21V 02 9713 7449

Kentucky Department of Environmental Protection Attention: Division of Air Quality 300 Sower Boulevard Frankfort, KY 40601

Re: TransMontaigne Operating Company, L.P. - Owensboro Terminal Permit Number: F-17-059 Permit Renewal Application

Dear Sir or Madame,

TransMontaigne Operating Company, L.P. (TransMontaigne) owns and operates the Owensboro Terminal located in Owensboro, Kentucky. The terminal operates in accordance with Permit Number F-17-059.

Permit F-17-059 expires on February 28, 2023 and this permit application is for the renewal of this permit. If you have any questions, or need further information, please call me at (303) 860-5128.

Sincerely,

TRANSMONTAIGNE OPERATING COMPANY, L.P.

he world

Dirk Wold Air Quality Compliance Manager

Enclosure

cc: Mr. Paul Barragan, TransMontaigne Mr. Chris Weeks, TransMontaigne ESOH File AR.002.OWEN



ATTACHMENTS

- 1. Facility Description
- 2. DEP Form 7007 AI
- 3. DEP Form 7007 J
- 4. DEP Form 7007 N
- 5. DEP Form 7007 DD
- 6. DEP Form 7007 V
- 7. Facility Map/Plot Plan
- 8. Process Flow Diagram
- 9. Regulatory Summary
- 10. Emissions Summary
- 11. Tank ESP Information

TransMontaigne Operating Company, L.P. (TransMontaigne) owns and operates the Owensboro terminal located in Owensboro, KY. The terminal operates in accordance with Permit Number F-17-059.

The Owensboro Terminal is a bulk petroleum products storage facility. The Terminal stores and dispenses gasoline and diesel fuel. The Terminal has three (3) internal floating roof storage tanks capable of storing gasoline or lower vapor pressure product and four (4) vertical fixed roof storage tanks capable of storing distillate or lower vapor pressure product. Additionally, there are five other storage tanks for storing additives or petroleum contact water. The Terminal has one (1) two-bay tank truck loading rack with seven (7) loading arms. The gasoline loading rack is controlled with a John Zink Vapor Combustion Unit. The Terminal has a barge unloading operations and equipment as well.

TransMontaigne is requesting that the emission units and requested emissions limits contained in this permit application be re-authorized under a revised Final Conditional Major, Synthetic Minor Operating Permit. The requested total gasoline or lower vapor pressure product throughput for the facility is 380,000,000 gallons per year and the total requested distillate or lower vapor pressure product throughput for the facility is 861,984,000 gallons per year. The permitted emission units include three (3) internal floating roof tanks, four (4) fixed roof tanks, one (1) loading rack, emissions from cargo leaks, and fugitive emissions. There are also five (5) storage tanks and barge unloading operations that are considered insignificant activities for the purposes of this permit application and are listed on Kentucky Form DEP 7007 DD.

The requested emission totals can be found for each emissions unit in the emissions summary spreadsheet. The requested emissions limits for storage tanks come from TankESP emissions prediction model and include tank and throughput information.

Included in this section are completed copies of one of the KYDEP air permit application forms.

Division	for Air Oua	lity	DEP7	007AI		Ado	litional Documentation
DIVISION		linty	Administrativ	e Informatio	on	· · · ·	
300 So	wer Boulevard		Section AI.1: S	Source Informati	ion	Additi	onal Documentation attached
Frankt	fort, KY 40601		Section AI.2: A	Applicant Inform	nation		
(50)	2) 564-3999		Section AI.3: (Owner Informati	on		
			Section AI.4: 7	Type of Applicat	tion		
			Section AI.5: 0 Section AI.6: 5	Other Required I Signature Block	nformation		DECEIVED
			Section AI.7: 1	Notes, Comment	s, and Explanation	ons	AUG 2 9 2022
					-		U U Permit Review Branch Division for Air Quality
Source Name:		TranMontaigne O	perating Company - Ower	nsboro Terminal			
KY EIS (AFS) #:	2	1- 059-00127					
Permit #:		F-17-059					······································
Agency Interest (AI)) ID:	969		- · · · · · · · · · · · · · · · · · · ·			
Date:		8/23/2022		·			
Section AI.1: S	ource Infor	mation					
Physical Location	Street:	980 Pleasant Valley	/ Road				
Address:	City: Street or	Owensboro	County:	Daviess		Zip Code:	42303
Mailing Address:	P.O. Box:	1670 Broadway, Su	lite 3100				
0.1	City:	Denver	State:	<u> </u>		Zip Code:	80202
		5	Standard Coordinates fo	or Source Physic	cal Location		
Longitude:	7:	3.77944 (dec	imal degrees)	Latitude:	-87.0738	39	_ (decimal degrees)
Primary (NAICS) Ca	itegory:			Primary NAIC	'S #:		

Classification (SIC) C	Categ	ory:	Bulk I	Petroleum Termin	al			Primary SIC #:	4226		
Briefly discuss the ty conducted at this site	pe of :	business	Storag	e and Distribution of	of Pe	troleum Products					
Description of Area Surrounding Source:	0	Rural Area Urban Area	D	Industrial Park Industrial Area		Residential Area Commercial Area		Is any part of the source located on federal land?	□ Yes ☑ No	Number of Employees: 3	
Approximate distance to nearest residence o commercial property	e r :				þ	roperty Area:282,00	0 sq	uare feet	Is this source porta	ble? 🗆 Yes 🗹 No	
		What othe	r envir	onmental permi	ts or	registrations do	es th	us source currently hold	or need to obtain in	n Kentucky?	
NPDES/KPDES:	Ø	Currently Ho	ld	🗆 Need		D N/A					
Solid Waste:		Currently Ho	ld	Need		🗆 N/A					
RCRA:		Currently He	ld	🗆 Need		D N/A					
UST:		Currently Ho	ld	🗆 Need		☑ N/A					
Type of Regulated	۵	Mixed Waste	Gener	ator		Generator		Recycler	Other:		
Waste Activity:		U.S. Importe	r of Ha	zardous Waste		Transporter		Treatment/Storage/Disposa	l Facility 🛛	N/A	

plicant Information	1				
TransMontaigne Operat	ing Company, L.P.				
Street or P.O. Box:	1670 Broadway, S	Suite 3100			
City:	Denver	State:	Colorado	Zip Code:	80202
		<u> </u>			
Dirk Wold					
Air Quality Compliance Ma	nager				
Street or P.O. Box:		1	670 Broadway, Suite	3100	
City: Denver	<u> </u>	State:	Colorado	Zip Code:	80202
Dwold@TransMontaign	e.com				
303-860-5128					
Source					
Same As Technical Con	tact		· · · · · · · · · · · · · · · · · · ·		
Street or P.O. Box:					
City:		State:		Zip Code:	
	Dicant Information TransMontaigne Operation Street or P.O. Box: City: Dirk Wold Air Quality Compliance Ma Street or P.O. Box: City: Denver Dwold@TransMontaign 303-860-5128 Source Street or P.O. Box: City: Denver Dwold@TransMontaign 303-860-5128 Source City:	plicant Information TransMontaigne Operating Company, L.P. Street or P.O. Box: City: Denver Dirk Wold Air Quality Compliance Manager Street or P.O. Box: City: Denver Dirk Wold Air Quality Compliance Manager Street or P.O. Box: City: Denver Dwold@TransMontaigne.com 303-860-5128 Source Same As Technical Contact City: City:	plicant Information TransMontaigne Operating Company, L.P. Street or P.O. Box: 1670 Broadway, Suite 3100 City: Denver State:	plicant Information TransMontaigne Operating Company, L.P. Street or P.O. Box: 1670 Broadway, Suite 3100 City: Denver State: Colorado Dirk Wold	plicant Information TransMontaigne Operating Company, L.P. Street or P.O. Box: 1670 Broadway, Suite 3100 City: Denver State: Celorado Zip Code: Dirk Wold Air Quality Compliance Manager Street or P.O. Box: 1670 Broadway, Suite 3100 City: Denver State: Colorado Zip Code: 1670 Broadway, Suite 3100 City: Denver State: Colorado Joint Wold State: Colorado Zip Code: Dwold@TransMontaigne.com 303-860-5128 Source Street or P.O. Box: City:

Section AI.3: Ov	vner Information			
Owner same	as applicant			
Name:				
Title:				
Mailing Addusses	Street or P.O. Box:			
Maning Address:	City:	State:	Zip Code:	
Email:				
Phone:				
List names of owners a	nd officers of the company who have an in	terest in the company of 5% or more.		
	Name		Position	
Tr	ansMontaigne Partners, L.P.		100%	

Section AI.4: Type of Application										
Current Status:	🗆 Title V 🗹 Conditi	onal Major 🛛 State-C	rigin	General Permit	۵	Registration				
Requested Action:		 Initial Registration Revised Registration Extension Reguest 		Significant Revision Minor Revision Addition of New Facility		Administrative Permit Amendment Initial Source-wide OperatingPermit				
Toneck an mai apply	Revision Ownership Change	Off Permit Change Closure		Landfill Alternate Compliance Submittal		Modification of Existing Facilities				
Requested Status:	□ Title V ☑ Condition	onal Major 🛛 State-O	rigin	D PSD D NSR		Other:				
Is the source requesting a	Is the source requesting a limitation of potential emissions?									
Pollutant:		Requested Limit:		Poilutant:		Requested Limit:				
Particulate Matter		· _ · · · · · · · · · · · · · · · · · ·	-	Single HAP		< 10 tons				
☑ Volatile Organic Compounds (VOC) < 100 tons				Combined HAPs		< 25 tons				
Carbon Monoxide				Air Toxics (40 CFR 68, S	ubpart	F)				
Nitrogen Oxides				Carbon Dioxide						
🗆 Sulfur Dioxide				Greenhouse Gases (GHG)	•					
Lead		·		C Other						
For New Construction	1:									
Proposed Start D (MM	ate of Construction: (/YYYY)			Proposed Operation Start-Up Date: (MM/Y	YYY)				
For Modifications:					_					
Proposed Start D (MM	ate of Modification: (/YYYY)			Proposed Operation Start-Up Date: (A	MM/Y	YYY)				
Applicant is seeking co	overage under a permit st	nield. 🛛 Yes	ĺ	Identify any non-applical	ble rec rate a	quirements for which permit shield is ttachment to the application.				

Indicate the docume	nts attach	ed as part of this application:	
DEP7007A Indirect Heat Exchangers and Turbines		DEP7007CC Compliance Certification	
DEP7007B Manufacturing or Processing Operations	J	DEP7007DD Insignificant Activities	
DEP7007C Incinerators and Waste Burners		DEP7007EE Internal Combustion Engines	
DEP7007F Episode Standby Plan		DEP7007FF Secondary Aluminum Processing	
DEP7007J Volatile Liquid Storage		DEP7007GG Control Equipment	
DEP7007K Surface Coating or Printing Operations	ū	DEP7007HH Haul Roads	
DEP7007L Mineral Processes		Confidentiality Claim	
DEP7007M Metal Cleaning Degreasers		Ownership Change Form	
DEP7007N Source Emissions Profile		Secretary of State Certificate	
DEP7007P Perchloroethylene Dry Cleaning Systems		Flowcharts or diagrams depicting process	
DEP7007R Emission Offset Credit		Digital Line Graphs (DLG) files of buldings, roads, etc.	
DEP7007S Service Stations	Ų	Site Map	
DEP7007T Metal Plating and Surface Treatment Operations		Map or drawing depicting location of facility	
DEP7007V Applicable Requirements and Compliance Activities		Safety Data Sheet (SDS)	
DEP7007Y Good Engineering Practice and Stack Height Determination		Emergency Response Plan	
DEP7007AA Compliance Schedule for Non-complying Emission Units		Other:	
DEP7007BB Certified Progress Report			

Section AI.6: Signature Block

I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.

Authorized Signature

Dirk Wold

Type or Printed Name of Signatory

*Responsible official as defined by 401 KAR 52:001.

8/23/2022

Date

Air Quality Compliance Manager

Title of Signatory

ection AI.7: Notes, Col	mments, and Expla	inations	 	
<u></u>				
	<u> </u>			
			 <u> </u>	

100663PG0052

COMMONWEALTH OF KENTUCKY TREY GRAYSON SECRETARY OF STATE

0650996.06

Doomish 1902

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Trey Grayson Secretary of State **Received** and Filed 11/15/2006 2:00:41 PM Fee Receipt: \$90.00

Zip Code

Zip Coce

APPLICATION FOR CERTIFICATE OF AUTHORITY

Pursuant to the provisions of KRS Chapter 275, the undersigned hereby applies for authority to transact business in Kentucky on behalf of the limited liability company named below and for that purpose submits the following statements:

(X) a limited liability company (LLC). 1. The company is

] a professional limited liability company (PLLC).

2. The name of the limited liability company is

3. The name of the limited liability company to be used in Kentucky is

TRANSMONTAIGNE OPERATING GP L.L.C.

TRANSMONTAIGNE OPERATING GP LL.C.

(if "real same" is unevailable for use)

4. Delaware

is the state or country of organization.

is the date of organization and, if the limited liability company has a specific date 02/23/2005 of dissolution, the latest date upon which the limited liability company is to dissolve is Perpetual

City

6. The street address of the office required to be maintained in the state of formation or, if not so required, the principal office address is

1670 Broadway, Suite 3100, Denver, CO 80202

7. The names and usual business addresses of the current managers, if any, are as follows:

1670 Broadway, Suite 3100, Denver, CO 80202 William S. Dickey 1670 Broadway, Suite 3100, Denver, CO 80202

Randall J.Larson

(Ansch a continuation, & necessary

- 8. The street address of the registered office in Kentucky is Kentucky Home Life Building, Louisville, Kentucky 40202

and the name of the registered agent at that office is

Internet affective date and/of Sme)

C T Corporation System

9. This application will be effective upon filling, unless a delayed effective date and/or time is specified:

END OF DOMUMENT

I certify that, as of the date of filing this application, the above-named limited liability company validity exists as a limited liability company under the laws of the jurisdiction of its formation.

State

Stofe

William S. Dickey, Manager 06 20 November 23 Dale:

consent to serve as the registered agent on behalf of the fimited liability

C T Corporation System	, consent to serve as the re
Company. focusent Ho.: DNE165124315 Lodged Let *KEYA (UKY) (IFFUENS Recirded Un: 11/16/2006 01:38:49 Total fees: 11.60 (Tansfer fax: .00 County Clerk: NUKBLE HOLSCLOW-JEFF CD KY SLL-002 (2000-2017) Clerk: MUKSUE	CT Corporation System By: Hudi. M. So So (See attached sheet for instructions)

HIECH LIESCH AssistantoSectation

S

City

County Clerk, please return to: KENTUCKY LENDERS ASSISTANCE 828 LANE ALLEN ROAD, SUITE 219 LEXINGTON, KY 40504

KY038 - 03/01/05 CT Filing Manager Online

1

Included in this section are completed copies of one of the KYDEP air permit application forms.

Division for Air Quality		uality D	DEP7007J			n
		Volatil	e Liquid Storage	Complete DEP7007AI, DEP7007N,		
300 Sower Boulevard		rd Section J	J.1: General Information	DEP7007V, and DEP70	07GG.	
Frank	fort, KY 4060	1 Section J	J.2: Tank Description	SDS attached		
(50	2) 564-3999	Section J	I.3: Gasoline Plants and Terminals			
		Section J	J.4: Loading Rack(s)	DECI		2
		Section J	J.5: Equipment Leaks			
		Section J	I.6: Notes, Comments, and Explanat	ions AUC 2	9 2022]
Source Name:		TransMontaigne Operating Company -	- Owensboro Terminal	Permit Re Division fo	view Branch	
KY EIS (AFS) #:	21-	059-00127				
Permit #:		F-17-059				
Agency Interest (AI) ID:	969				
Date:		8/23/2022		····		
Section J.1: C	eneral In	formation				
Emission Unit #	Emission Unit Name	Emission Unit Description	Proposed/Actual Date of Construction Commencement (MM/YYYY)	Date of modification/ reconstruction	Control Device ID	Stack ID
Emissions Point 001	T-17-6	Internal Floating Roof Storage Tank			IFR	
Emission Point 301	T-5-3	Vertical Fixed Roof Storage Tank				
Emission Point 302	T-6-2	Vertical Fixed Roof Storage Tank				
Emissions Point 303	T-11-4	Vertical Fixed Roof Storage Tank				
Emission Point 304	T-3-1	Internal Floating Roof Storage Tank			IFR	
Emission Point 002	T-60-5	Internal Floating Roof Storage Tank			IFR	
Emission Point 007	T-50-7	Vertical Fixed Roof Storage Tank				
Emission Point 005	BRG-1	Barge Loading				
Emission Point 004	LR-1	Truck Loading			VCU	

11/2018	
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Emission Unit #	Emission Unit Name	Emission Unit Description	Proposed/Actual Date of Construction Commencement (MM YYYY)	Date of modification/ reconstruction	Control Device ID	Stack ID
Emission Point 006	FUG-1	Fugitive Emissions				

Section J.2: Tank Desci	ription												
Emission Point #:	001, 002, 007, 30	1, 302, 303, a	and 304										
Emission Point Name:	Storage Tanks -	Internal Floa	ting Roof and Fixed Roof					-					
Tank ID#:	<u>T-3-1, T-6-2, T-5</u>	-3, T-11-4, T	-60-5, T-17-6, T-50-7					-					
Date Installed:	01/51, 11/49, 11/5	51, 11/49, 11/51, 07/40, 02/96, 03/72, 02/97											
List Applicable Regulations:	40 CFR 60, Subp	0 CFR 60, Subpart Kb and 40 CFR 63, Subpart BBBBBB											
J.2A: Stored Liquid Data:	·······												
	Maximum Annual	Liquid	Molecular Weight of Single	Percent Composition of	Temp	erature 'F)	Vapor 1 (ps	Pressure sia)					
Single or Multi-Component Liquid Name(s)	Throughput (gal/yr)	Density (lb/gal)	or Multi-Component Liquid	Multi-Component Liquid(s)	Minimum	Maximum	Minimum	Maximum					
Gasoline	380,000,000	5.1	60.15		52.1	62.9	3.9415	8.5946					
Distillate	861,984,000	6.1	130		52.1	62.9	0.0059	0.0084					
Crude	25,000,000	5.1	330		52.1	62.9							

J.2B: Tank Data:	
Tank Capacity: (gallons)	ShellTankShell Height/Diameter:TurnoversVarious - See TableLength: (ft)Various(ft)Various
Tank Orientation:	Horizontal Vertical If Vertical, provide Maximum Liquid Height: Average Liquid Height: (1) (1)
Shell Color/Shade:	🗖 Red 🛛 White 🗖 Light Gray 🗖 Medium Gray 🗋 Aluminum Specular 🗖 Aluminum Diffuse 🔲 Other:
Roof Color:	🗆 Slack 🗵 White 🗅 Light Gray 🗆 Medium Gray 🗊 Aluminum Specular 📮 Aluminum Diffuse 🔹 🗅 Other:
Tank Type:	Fixed Roof Internal Floating Roof External Floating Roof Pressure Tank
J.2C: For Fixed R	Roof Tanks:
Roof Type:	□ Dome □ Flat ☑ Cone Dome/Cone Height: 35-48 ft Height: 19-26 ft 19-26 ft
ls Tank Underground	d?: □ Yes ☑ No Roof Condition : ☑ Good □ Poor Vacuum Setting:psig
Is Tank Heated?:	□ Yes ☑ No Shell Condition: ☑ Good □ Poor Pressure Setting: 0.01 psig
J.2D: For All Inte	ernal Floating Roof Tanks:
Rim Seal Description	U Vapor Mounted Primary D Vapor Mounted Primary plus Secondary Seal D Shoe Mounted
	🗆 Liquid Mounted Primary 🗖 Liquid Mounted Primary plus Secondary Seal 🔅 Shoe Mounted plus Secondary Seal
Secondary Seal:	Rim Mounted Shoe Mounted None
Internal Shell Condit	ion: 🗆 Light Rust 💭 Dense Rust 💭 Gunite-lined External Shell Condition: 🖾 Good 💭 Poor
Roof Paint Condition	: Good Depor Self Supporting Roof? Departure No
Number of Support C	Columns: 1, 6, 1 ft

DEP7007J

J.2E: Deck Data for	r In	ternal Floating Ro	ofs	•							· · ·		
Length of Deck Seam:	_		ft										
Deck Type:	Q	Bolted		Welded									
Type of Deck Fitting:	Ø	Access Hatch		Ladder We	11		Sample Pipe	I		Sample Well	Vacuum	Breaker	
Type of Deck Fitting.	Ø	Column Well	7	Roof Leg	[Hanger Well			Stub Drain C	J Automa	tic Gauge Float	Well
Design of each deck fit (diameter sizes, bolted or g adjustable or fixed roof leg	ting: gasket g/hang	covers, sliding cover or J ger well and number)	abri	c seal.				See Ta	anki	ESP Output File			
J.2F: For All Exten	nal	Floating Roof Tar	ks:										
Rim Seal Description:		 Vapor Mour Liquid Mour Shoe Mount 	nted nted ed P	Primary Primary rimary	 Vapor M Liquid M Shoe M 	1ounte Aounte ounted	d Primary Rim ed Primary Rin Primary Rim	Secondary Secondary Secondary S	Sea Sea Seal	al 🗆 Vapor Mounte al 🗆 Liquid Mounte 🗌 Shoe Mounted	d Prmary w d Primary Primary Sl	vith Weather Sh with Weather S hoe Secondary	nield Shield
Internal Shell Condition	on:	Light Rust		🗆 Der	nse Rust		Gunite-lined						
Tank Type:		□ Riveted		Welded									
Roof Type:		Pontoon Ro	of		Double	Deck	Roof						
J.2G: Deck Data fo	or Ex	xternal Floating R	oof	Tanks:]
Type of Deck Fitting:		Access HateGuide Pole	h		Gauge I Gauge I	latch loat		Sample We Roof Drain	ell 1	Roof LegRim Vent		□ Vacuum □ Other	Breaker
Des (diameter sizes, bolted or guide pole well, adjuste	ign o gaske ed or f	f each deck fitting: It covers, sliding cover, un ixed roof leg and number	nslot of ec	ed or slotted ach design)									

	Attach SI	DS/Composition Analysis for	Each Component Li	sted	
Process ID	Component Name	Process Name (e.g. Breathing, Working, Cleaning, Flashing Loss(es))	Lost Emissions (lb/1000 gal)	Frequency of Occurrence	Determination Methodology for E Type of Loss*
					·

Section J.3: G	asoline Pla	nts and Te	minals						
Indicate the percent	ntage of one or	more of the fol	lowing modes o	f transportati	on for incoming	liquid and ou	tgoing liquid:		
	Tank Truck	Trailer	Railcar	Pipeline	Marine Tank	Barge	Other (S	Specify)	
Incoming Liquid Material:						100°o			
Outgoing Liquid Material:	70-100°o					0-30°o			
For Gasoline Disp	pensing Facilit	ies (GDF) only	:						
Is the loading of gase	oline storage tank	cs at a GDF locat	ed at an area sour	rce of hazardou	s air pollutants as	defined in 40 C	FR 63.2?	🗆 Yes	🗆 No
Is there the dispensin gasoline-fueled equip	ig of gasoline fro pment?	m a fixed storage	tank at a GDF ir	nto a portable ta	ank for the on-site	delivery and su	bsequent dispensing into	🗆 Yes	🗆 No
Maximum monthly th	hroughput in gall	ons:							
For Bulk Gasoline	e Plants Only:								
Is the maximum calc	ulated design thre	oughput less than	20,000 gallons (75,700 liters) p	er day?			🗆 Yes	□ No
Is gasoline loaded int	to cargo tanks for	r transport to gase	oline dispensing f	facilities?				□ Yes	□ No
For Bulk Gasoline	e Terminals O	nly:							
Is the maximum calcu	ulated design thro	oughput equal to	or greater than 2	0,000 gallons (75,700 liters) per	day?		🗹 Yes	🗆 No

DEP7007J

Is the terminal located at an area source of hazardous air pollutants as defined in 40 CFR 63.2?	Yes	🗆 No
Does the facility load from marine tank vessel loading operations at all loading berths less than 1.6 billion liters (10 M barrels) of gasoline annuall and of less than 32 billion liters (200 M barrels) of crude oil annually?	y 🗆 Yes	🗆 No
Does the terminal handle any reformatted or oxygenated gasoline containing methyl tertbutyl ether (MTBE), CF?	🗆 Yes	☑ No
Indicate the type of vapor control device utilized: 🖾 Incinerator 🖾 Adsorber 🖾 Other		



Emissies P	-1	8(5)								
Emission P Emission P Loading Ra	oint #: oint Name: ack ID#:	LR-1								
Product Type	Number of Lanes/Rack	Number of risers/loading arms per rack	Does the petroleum storage capacity exceed 300,000 barrels? (X/N)	Time required to load standard size tanker (minutes)	Barge/Pipeline Unloading Rate (barrels/hr)	Barge/Pipeline Unloading Rate (harrels'yr)	Maximum Loaded (gal/hr)	Maximum Loaded (gal/yr)	Stack ID	Contro Device ID
Gasoline	2	7 (4 and 3)	N	15	1200	10,512,000	168,000	380,000,000	LR-1	VCU
Distillate	2	7 (4 and 3)	N	15	1200	10.512,000	90,000	861,984.000	LR-1	
										<u></u>

Section J.5: Equipment Leaks

Emission Point #:

Emission Point Name:

This section is to be completed for all components of Volatile Liquid Storage Systems that may have leaks.

Equipment Type	Indicate the number of this en	each type of equipment for ission point	Emission (lb/SCC i	Factor units)	Samuel Englishing Fred	Total Emissions	
	Gasoline	Other (diesel, kerosene, etc.)	Gasoline	Other	Source of Emission Factor	(lb yr)	
Valves	25		0.000043 kg/hr/comp		AP-42	20.76	
Pumps	6		0.000043 kg/hr/comp		AP-42	3.32	
Connectors	128		0.000008 kg/hr/comp		AP-42	19.78	
Risers/Loading-Arm Valves	4		0.000054 kg/hr/comp		AP-42	62.58	
Open-ended Lines	0						
Other	0						

Section J.6: Notes, Cor	nments, and Expla	inations		
	···		 ······································	
······			 	

Included in this section are completed copies of the KYDEP air permit application forms.

	Div	ision fo	or Air O	uality					DEP700)7N							
				uuniy				Sourc	e Emissio	ons Profile			Additional Documentation				
		300 Sowe	r Boulev	ard				Sectio	n N.1: Emiss	sion Summary						-	
	1	Frankfort	, KY 406	501			Section N.2: Stack Information						Complete DEP7007A1				
		(502) 5	564-3999)			8	Sectio	n N.3: Fugiti	ive Information	ı						
								Sectio	n N.4: Notes	, Comments, a	nd Explan	ations					
Source N	ame:				TransMo	ontaigne	Operating Co	mpany - O	wensboro Terr	ninal							
KY EIS (AFS) #:			21-	059-001	27											
Permit #:					F-17-059)	·										
Agency l	nterest (AI)	ID:			969												
Date:					8/23/202	2											
N.1: Er	nission St	ummar	У														
Emission	Emission	Process	Process	Control	Control	Stack	Maximum Design	Dellutent	Uncontrolled Emission	Emission Factor Source	Capture	Control	Hourly E	missions	Annual Emissior		
Unit #	Unit Name	ID	Name	Name	ID	ID	Capacity (SCC (indy hour)	ronatan	Factor (Ib SCC Units)	(e.g. AP-42, Stack Test, Mass Balance)	Contraction Contraction	Efficiency Control Control United F	Uncontrolled Potential (lb hr)	Controlled Potential (lb-hr)	Uncontrolled Potential (lons yr)	Controlled Potential (tons yr)	
Emissions Point 001	T-17-6	T-17-6	T-17-6					VOC, HAPs		AP-42						1.31	
Emission Point 301	T-5-3	T-5-3	T-5-3					VOC, HAPs		AP-42						0.23	
Emission Point 302	T-6-2	Ť-6-2	T-6-2					VOC, HAPs		AP-42						0.17	
Emissions Point 303	T-11-4	T-11-4	T-11-4					VOC, HAPs		AP-42						0.42	
Emission Point 304	T-3-1	T-3-1	T-3-1					VOC, HAPs		AP-42						5.61	
Emission Point 002	T-60-5	T-60-5	T-60-5					VOC. HAPs		AP-42						2.25	
Emission Point 007	T-50-7	T-50-7	T-50-7					VOC, HAPs		AP-42						1.97	
Emission Point 005	8RG-1	BRG-1	BRG-1					VOC, HAPs		AP-42						14.08	
Emission Point 004	LR-1	LR-1	R-1	VCU				VOC, HAPs		AP-42						71.5	

DEP7007N

Emission	Emission	Process	Process	Control Device	Control Device	Stack	Maximum Design Capacity	Pollutant	Uncontrolled Emission	Emission Factor Source	Capture	Control	Hourly E	⁷ Emissions Annual Emissions		missions
Unit#	Unit Name		ivame	Name	e 1D	iD	(SCC Units/hour)		Factor (b/SCC Units)	(e.g. AP-42, Stack Test, Mass Balance)	(%)	(%)	Uncontrolled Potential (lb/hr)	Controlled Potential (15 hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
Emission Point 006	FUG-1	FUG-1	FUG-1					VOC, HAPs		AP-42						0.05



.

Section N	2: Stack Information									
UTM Zon	le:									
Staak ID	Identify all Emission Units (with Process ID) and	Sta	ck Physical D	ata	Stack UTM	Coordinates	Stack Gas Stream Data			
	Control Devices that Feed to Stack	Equivalent Diameter (f)	Height (/i)	Base Elevation (ft)	Northing (m)	Easting (m)	Flowrate (acfm)	Temperature (°F)	Exit Velocity (ft/sec)	
VCU	LR-1	1.2	40					500	444	
							-			
									<u> </u>	
		2.6								

Section N.3: F	ugitive Informatio	on			· · · · · · · · · · · · · · · · · · ·				
UTM Zone:			······································						
Emission Unit #		n Unit Name – Process ID	Area Physic	al Data	Area UTM Coordinates Are		Area Rele	Celease Data	
	Emission Unit Name		Length of the X Side	Length of the Y Side (ft)	Northing (m)	Easting (m)	Release Temperature (°F)	Release Height (ft)	
FUG-1	Fugilive Emissions		1200	600			Ambient	3	

Section N.4: Notes,	Comments, an	d Explanations		 	
·····					
			07		

Included in this section are completed copies of one of the KYDEP air permit application forms.

Division	for Air Quality)EP7007DD				
300 So Frankf (502	wer Boulevard ort, KY 40601 2) 564-3999	Insignificant Activities Section DD.1: Table of Insignificant Activities Section DD.2: Signature Block					
Source Name		Section DD	.3: Notes, Comments, and Expl	anations			
KV EIS (AFS) #	<u>4</u> . 7	Transmontaigne Operating Com	pany - Owensboro Terminal				
Permit #:	·•	E 17 050					
Agency Interest		060					
Date:	(m) 12.	<u> </u>					
Section DD.1:	Table of Insigniti	cant Activities					
*Identify each acti	vity with a unique Insign	ificant Activity number (IA #); for ex	ample: 1, 2, 3 etc.				
Insignificant Activity #	Description of Activit including Rated Capacity	y Serial Number or Other Unique Identifier	Applicable Regulation(s)	Calculated Emissions			
Tank A	Additive Tank	399 barrel capacity	401 KAR 52:030 Section 6	VOC = 32.27 pound per year			
Tank B	Additive Tank	79 barrel capacity	401 KAR 52:030 Section 6	VOC = 5.69 pound per year			
Tank D	Additive Tank	160 barrel capacity	401 KAR 52:030 Section 6	VOC = 8.08 pound per year			
Tank E	Additive Tank	8 barrel capacity	401 KAR 52:030 Section 6	VOC = 0.11 pound per year			
Tank F	PCW Tank		401 KAR 52:030 Section 6				

Insignificant Activity #	Description of Activity including Rated Capacity	Serial Number or Other Unique Identifier	Applicable Regulation(s)	Calculated Emissions							
Section DD.2:	Signature Block										
I, THE UNDER EXAMINED, AND OF THOSE IN KNOWLEDGE AN	I, THE UNDERSIGNED, HEREBY CERTIFY UNDER PENALTY OF LAW, THAT I AM A RESPONSIBLE OFFICIAL, AND THAT I HAVE PERSONALLY EXAMINED, AND AM FAMILIAR WITH, THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ITS ATTACHMENTS. BASED ON MY INQUIRY OF THOSE INDIVIDUALS WITH PRIMARY RESPONSIBILITY FOR OBTAINING THE INFORMATION, I CERTIFY THAT THE INFORMATION IS ON KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE OR INCOMPLETE INFORMATION, INCLUDING THE POSSIBILITY OF FINE OR IMPRISONMENT.										
By:		Authorized Signature		Date							
		Type/Print Name of Siguatory	Title of Siguatory								

·		

Included in this section are completed copies of one of the KYDEP air permit application forms.

				DEP7	/007V	Add	Additional Documentation			
Divis	ion for Air Qual	lity Ap	plicable	Requirem	ents and Complia	ince				
				Activ	С	omplete DEP7007AI				
30	0 Sower Boulevard		Section V.1: Emission and Operating Limitation(s)							
Fi	ankfort, KY 40601		Section V.2: Monitoring Requirements							
	(502) 564-3999		Section V.3: Recordkeeping Requirements							
			Section V.4: Reporting Requirements							
			Section V.5: Testing Requirements							
			, Comments, and Expla	unations	Permit Review Branch					
Source Nan	ne: Transl	Montaigne Operatin	g Company	- Owensboro	Terminal		omsion for Air Quality			
KY EIS (A)	TS) #: 21- 059-00	127					·····			
Permit #:	F-17-0	59								
Agency Inte	erest (AI) ID:	969								
Date:	8/23/20	022								
Section V.	1: Emission an	d Operating Li	nitation(s	5)						
Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)			
Tanks	Storage Tanks	Subpart Kb, BBBBBB	VOC, HAPs	See PTE Table			Emissions Calculations			
LR-1	Loading Rack	Subpart BBBBBB	VOC, HAPs	See PTE Table			Emissions Calculations			
					······					

Section V.	Section V.2: Monitoring Requirements										
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Monitored	Description of Monitoring						
Tanks	Storage Tanks	VOC, HAPs	Subpart Kb, BBBBBB	Tank Inspections and Recoirds	Tank Inspections and Tank Records						
LR-1	Loading Rack	VOC, HAPs	Subpart Kb, BBBBBB	Emission Testings and Product Throughput Calculations	Truck Testing, Monitoring VCU Data, Product Records						

Section V.	.3: Recordkeepi	ng Requiremei	nts		
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Recorded	Description of Recordkeeping
Tanks	Storage Tanks	VOC, HAPs	Subpart Kb, BBBBBB	Tank Inspections and Records	Tank Inspections and Records
LR-1	Loading Rack	VOC, HAPs	Subpart BBBBBB, XX	Emissions and Loading Rack Records	Truck Testing, Loading Rack Records

Section V	ection V.4: Reporting Requirements										
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reported	Description of Reporting						
Tanks	Storage Tanks	VOC, HAPs	Subpart Kb, BBBBBB	Tank Inspections and Records	Inspections Semi-annual Reporting, Annual Reporting						
LR1	Loading Rack	VOC, HAPs	Subpart BBBBBB, XX	Emissions and Loading Rack Records	Inspections, Testing, Semi-annual Reporting, Annual Reporting						

Section V.	Section V.5: Testing Requirements										
Emission Unit #	n Emission Unit Description Pollutant Applicable Regulation or Requirement		Parameter Tested	Description of Testing							
LR-1	Loading Rack	VOC, HAPs	Subpart BBBBBB, XX	Emissions Testing	Emissions Testing						

Section V.6: Notes, Comm	ents, and Explanations		
		·····	
	<u> </u>		
. <u>.</u> .			

Included in this section is a copy of the facility map/plot plan for the terminal.





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Included in this section is a copy of a generic process flow diagram for terminal operations.





stand install instance sizes a final state in the

This Terminal is subject to New Source Performance Standards (NSPS) in 40 CFR Part 60, Subparts K, Ka, Kb, or XX.

This Terminal is subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR Part 63, Subpart BBBBBB.

Included in this section is a summary of emissions from this facility.



ANNUAL POTENTIAL TO EMIT SUMMARY SHEET

EQUIPMENT		EQUIPMENT S	SPECIFICATION	S	ANNUAL EMISSIONS (ton/vr)								
NAME/NO.	DIMENSIONS	CAPACITY	ROOF TYPE	PRODUCT	TOTAL VOC	TOTAL HAPS	Hexane	Benzene	Toluene	Ethyl-	Iso-	Xviene	Cumene
(Point Or Emission)	HXU(n)	(00)								benzene	Octane		
1 (3-1)	36 x 25	2,568	IFR	Gasoline	1.31	0.07	0.0210	0.0118	0.0170	0.0013	0.0105	0.0066	09
2 (6-2)	36 x 35	5,654	CR	Distillate	0.23	0.04	0.0123	0.0153	0.0089	0.0014	na	0.0050	0.0003
3 (5-3)	36 x 30	4,046	CR	Distillate	0.17	0.03	0.0089	0.0111	0.0064	0.0010	na	0.0036	0.0003
4 (11-4)	35 x 48	10,606	CR	Distillate	0.42	0.08	0.0229	0.0284	0.0165	0.0027	na	0.0003	0.0002
5 (60-5)	50 x 100	58,886	IFR	Gasoline	5.61	0.29	0.0898	0.0505	0.0729	0.0056	0.0449	0.0281	0.0000
6 (17-6)	48 x 50	15,768	IFR	Gasoline	2.25	0.12	0.0359	0 0202	0.0292	0.0072	0.0180	0.0201	na
7 (50-7)	48 x 87	49,297	CR	Distillate	1.97	0.37	0,1063	0.1317	0.0765	0.0022	0.0100	0.0432	0.0020
A	29.5 x 10	399	CR	Additive	0.02	0.00	na	na	0.0100	0.0003	00	0.0452	0.0030
8	10.9 x 7.9	79	Horiz,	Additive	0.00	0.00	na	0.0000	0 0000	0.0000	02	0.0013	0.0001
<u> </u>	13 x 10	160	CR	Additive	0.00	0.00	na	0.0000	0.0000	0.0000	na	0.0001	0.0001
D	4 x 4	8	ČR	Additive	0.00	0.00	na	0.0000	0.0000	0.0000	na na	0.0002	0.0001
	TOTAL T	ANK EMISSIO	NS		11.99	1.01	0.30	0.27	0.23	0.03	0.07	0.0002	0.0001
	PRODUCT CONTROLS EMISSION			ANNUAL		ANNUAL EMISSIONS (Ion/yr)					0.11	0.00	
			FACTOR	THRUPUT	TOTAL VOC	TOTAL HAPS	Hexane	Benzene	Toluene	Ethyla	len.	Yulono	Cumana
			(mg/l)	(gal/yr)						henzene	Octane	Aylene	Comene
Loading Rack (07)	Gasoline	VCU	35.00	380,000,000	55.49	2.89	0.8879	0 4994	0.7214	0.0555	0 4439	0.2776	
	Distillate	None	1.900	420,480,000	3.33	0.63	0.1796	0.2226	0.1293	0.0210	0.4409 na	0.0730	0.0050
Barge Loading (08)	Distillate	None	1.583	441,504,000	2.92	0.55	0,1572	0 1948	0 1131	0.0184		0.0630	0.0000
	Crude	None	107.008	25,000,000	11.16	0.15	0.1042	0.0277	0.0134	0.0017	na	0.0053	0.0044
	TOTAL LOADI	NG RACK EMIS	SSIONS		72.90	4.22	1.33	0,94	0.98	0.10	0.44	0.42	0.0002
				EMISSION				ANNUAL EM	ISSIONS (to	on/vr)		0.42	0.01
				FACTOR	Total VOC	Total HAPs	Hexane	Benzene	Toluene	Ethyle	leo.	Yulana	Cumana
				(mg/l)						benzene	Octana	Aylerie	Comene
Fugitives (09)		(see)	page 4)		0.05	0.00	0.0009	0.0005	0.0007	0.0001	0.0004	0.0002	
		Transit Losses		8.0	12.68	0.66	0.2029	0.1142	0 1649	0.0127	0.0004	0.0003	na
	TOTAL FUC	GITIVE EMISSI	ONS		12.74	0.66	0.2038	0 1146	0 1656	0.0127	0.1010	0.0034	. IId
	-						0.2000	0.1140	0,1000	0.0127	0.1018	0.0637	· · ·
			97,63	5.89	1.8299	1.3283	1.3704	0.1365	0.6192	0.5921	0.0141		
	GRAND TOTAL (ton/yr)												
					NOv	6.26	00	45.07					
					NOX	6.35	0	15.87		71.5076			



1 Hazardous Air Pollutant (HAP) emission factors are as follows:

For Gasoline		For Diesel/Kerose	ene. At standar	d temperature of 68 deg. F.
HAP	EF (wt%)	HAP	EF (wt%)	,
Benzene	0.009	Bénzene	0.0668	Extracted from the Compilation of Air Emission Factors for Petroleum
Toluene	0.013	Toluene	0.0388	Distributionand Retail Marketing Facilities, September 1995
Xylene	0.005	Xylene	0.0219	
Ethyl Benzene	0.001	Ethyl Benzene	0.0063	
IsoOctane	0.008	Cumene	0.0015	
Hexane	0.016	Hexane	0.0539	
MTBE	na	TOTAL	0.1892	
TOTAL	0.052			

Conventional gasoline does not contain MTBE.

Based on Hazardous Air Pollulant Emissions from Gasoline Loading Operations at Bulk Gasoline Terminals, API Publication No. 347. Table 5-2, Pg. 5-3, October 1998



CALCULATION TABLE 2.

Annual Potential to Emit Tank Summary

								EMISSION	RATE	
		CA	PACITY		THRUPUT		VOC		HAF	°\$
TANK NO.	ROOF TYPE	(bbls)	(gals)	SERVICE	(gal/yr)	LOSS	(lb/yr)	(tpy)	(lb/yr)	(tpy)
1 (3-1)	IFR	2,568	107,856	Gasoline	12,636,813	Working	99.15	0.05	5.16	0.00
						Breathing	2,523.50	1.26	131.22	0.07
5 (60-5)	IFR	58,886	2,473,212	Gasoline	289,770,791	Working	582.58	0.29	30.29	0.02
						Breathing	10,638.89	5.32	553.22	0.28
6 (17-6)	IFR	15,768	662,256	Gasoline	77,592,396	Working	299.12	0.15	15.55	0.01
						Breathing	4,193.92	2.10	218.08	0.11
								EMISSION	RATE	
		CA	PACITY		THRUPUT		VOC	; 1	HAF	's
TANK NO.	ROOF TYPE	(bbls)	(gals)	SERVICE	(gal/yr)	LOSS	(lb/yr)	(lpy)	(lb/yr)	(tpy)
2 (6-2)	CR	5,654	237,468	Distillate	70,019,815	Working	419.13	0.21	79.30	0.04
						Breathing	38.77	0.02	7.34	0.00
3 (5-3)	CR	4,046	169,932	Distillate	50,106.853	Working	302.91	0.15	57.31	0.03
·						Breathing	28.49	0.01	5.39	0.00
4 (11-4)	CR	10,606	445,452	Distillate	131,347,820	Working	777.81	0.39	147.16	0.07
						Breathing	72.14	0.04	13.65	0.01
7 (50-7)	CR	49,297	2,070,474	Distillate	610,508,530	Working	3,619.51	1.81	684.81	0.34
						Breathing	324.55	0.16	61.40	0.03
								EMISSION	RATE	
		CA	PACITY		THRUPUT		VOC		HAP	s
TANK NO.	ROOF TYPE	(bbis)	(gals)	SERVICE	(gal/yr)	LOSS	(lb/yr)	(tpy)	(lb/yr)	(tpy)
A	CR	399	16,758	Additive	123,529	Working	15.65	0.01	1.57	0.00
						Breathing	16.62	0.01	1.66	0.00
В	Horiz.	79	3,318	Additive	24,458	Working	2.33	0.00	0.23	0.00
						Breathing	3.36	0.00	0.34	0.00
С	CR	160	6.720	Additive	49,536	Working	4.72	0.00	0.47	0.00
						Breathing	3.36	0.00	0.34	0.00
D	CR	8	336	Additive	2,477	Working	0.05	0.00	0.01	0.00
						Breathing	0.06	0.00	0.01	0.00
TOTAL GASOLINE		77,222	3,243,324		380,000,000		18,337.16	9.17	953.53	0.48
OTAL DISTILLATE	-	69,603	2.923,326		861,984,000		5,583.31	2.79	1,055.36	0.53
TOTAL ADDITIVE	Ξ	646	27,132		200,000		46.15	0.02	4.62	0.00
TOTA							23,966.62	11.98	2,014.51	1.01

NOTES:

1 Tank emissions calculated using TankESP. See attached TankESP Output Report.

0.11

2. Conventional gasoline does not contain MTBE. Gasoline HAP emissions based on factors from Hazardous Air Pollutant Emissions from Gasoline Loading Operations at Bulk Gasoline Terminals, API Publication No. 347, Table 5-2, Pg, 5-3, October 1998.

3. Distillate HAP emissions based on factors extracted from the Compilation of Air Emission Factors for Petroleum Distribution and Retail Marketing Facilities, September 1995.

FACILITY NAME:

OWENSBORO



FACILITY NAME:

OWENSBORO

CALCULATION TABLE 3.

Potential VOC Emissions from Loading Rack/Barge Dock and Associated Control Device

											EMISSION	RATE	
LUADING		THRUPUT	S	MW	P	Т	Control	Li w/c	ontrol	VOC		HAP	;
RACK	IPRODUCT	(mgal/yr)	(-)	(lb/mol)	(psia)	(R)	(%)	(lb/mgal)	(mg/l)	(lb/yr)	(tpy)	(lb/yr)	(tov)
Loading Rack	Gasoline	380,000	na	na	na	na	na	0.2921	35,000	110,982,38	55.49	5 771 08	2.89
	Distillates	420,480	0.6	130	0.0084	515	0	0.0159	1,900	6.665.46	3.33	1 261 10	0.63
Barge Loading	Distillates	441,504	0.5	130	0.0084	515	0	0.0132	1,583	5 832 28	2.92	1 103 47	0.55
	Crude	25,000	na	na	na	na	na	0.8929	107.01	22,323,40	11 16	4 223 59	2 11
TOTAL		1,241,984								145,803.52	72.90	12,359.24	6 18
Annual VOC Truck V	apor Transit Losses		-					0.11	13	41 222 03	20.61	2143 551	1071
Broducts of Combust				_		· · ·						2140.00	1.07
FIDDUCIS OF CUMDUST	JON						NOx	0.0334	40	12,692.00	6.35		
L							CO	0.0835	10.0	31 730 00	15.87		

NOTES:

- 1 Gasoline throughput based on synthetic limitation. Distillate throughput based on loading capabilities of the rack configuration. 2-bay loading rack; Each b. serves gasoline and/or diesel. Distillate throughput based on 2 bays x 3 trucks/bay/hr x 8,000 gal/truck x 8,760 hrs/y
- 2 Distillate barge loading rate based on maximum pumping rate of 1 200 barrels per hour x 42 gallons per barrel x 8,760 hrs/y
- 3. Gasoline loading rack emission factor based on NSPS Subpart XX limitations
- 4. Distilltate loading emission factor based on AP-42, Section 5.2
- Conventional gasoline does not contain MTBE. Gasoline HAP emissions based on factors from Hazardous Air Pollutant Emissions from Gasoline Loading Operations at Bulk Gasoline Terminals, API Publication No. 347, Table 5-2, Pg. 5-3. October 1998.
- 6 Distillate HAP emissions based on factors extracted from the Compilation of Air Emission Factors for Petroleum Distributionand Retail Marketing Facilities, September 1995.
- 7. Transit Losses based on AP-42, Section 5.2, Table 5.2-5, Return with vapor, Typical transported 13.0 mg/
- 8 NOx and CO emission factors based on manufacturer's guarantee





EMISSION RATE Component No. of VOC Leak Factor HAPs Туре Service Components (kg/hr/comp) (lb/hr/comp) (lb/hr) (tpy) (lb/hr) (tpy) Valves Light Liquid 25 4.30E-05 9.48E-05 0.00 0.0104 0.0001 5.40E-04 Gas 1.30E-05 2.87E-05 0 . Loading Arm Valves Light Ligu d 4.30E-05 9.48E-05 4 0.00 0.0017 0.0000 8.64E-05 Gas 0 1.30E-05 2.87E-05 -Open-End Lines Light Liquid 0 1.30E-04 2.87E-04 -. Gas 0 1.20E-04 2.65E-04 -Fittings (Flanges, Light Liquid 128 8.00E-06 1.76E-05 0.00 0.0099 0.0001 5.14E-04 Connectors) Gas 0 4.20E-05 9.26E-05 -. Pump Seals Light Liquid 6 5.40E-04 1.19E-03 0.01 0.0313 0.0004 1.63E-03 Gas 0 1.43E-04 6.50E-05 . . Other Light Liquid 0 1.30E-04 2.87E-04 -2 Gas 0 1.20E-04 2.65E-04 . TOTAL 163 0.01 0.05 0.0006 2.77E-03

NOTES:

1 Based on Fugitive Emissions From Equipment Leaks II⁻ Calculation Procedures for Petroleum Industry Facilities API Publication No. 343, May 1998. Included in this section is the output from the TanksESP emissions estimation program used to determine emissions for the storage tanks.

Ownesboro Terminal TankESP - Annual VOC PTE Emissions

Tank	Start Month	End Month	Tank Type	Product	Throughput gallons	Working VOC pounds	Standing VOC pounds	Total VOC pounds
OWENC TEEL 1	1/1/2020	244202			4 959 959		c	
OWENS Tank 1	1/1/2020	2/1/2020	Cone-roof tank with IFR	Gasoline_X	1,053,068	8.2	6 137.45	145.71
OWENS Tank 1	2/1/2020	3/1/2020	Cone-root tank with IFR	Gasoline_X	1,053,068	8.2	6 142.14	150.40
OWENS Tank 1	3/1/2020	4/1/2020	D cone-root tank with IFR	Gasoline_X	1,053,068	8.2	6 191.35	199.61
OWENS Tank 1	4/1/2020	5/1/2020	Cone-root tank with IFK	Gasoline_X	1,053,068	8.2	6 247.22	255.48
OWENS Tank 1	5/1/2020	6/1/2020	J cone-root tank with IFR	Gasoline_X	1,053,068	8.2	5 177.11	185.37
OWENS Tank 1	6/1/2020	7/1/2020) cone-roof tank with IFR	Gasoline_X	1,053,068	8.2	5 212.26	220.52
OWENS Tank 1	7/1/2020	8/1/2020) cone-roof tank with IFR	Gasoline_X	1,053,068	8.2	6 238.56	246.82
OWENS Tank 1	8/1/2020	9/1/2020) cone-roof tank with IFR	Gasoline_X	1,053,068	8.2	6 234.54	242.80
OWENS Tank 1	9/1/2020	10/1/2020) cone-roof tank with IFR	Gasoline_X	1,053,068	8.2	6 350.96	359.23
OWENS Tank 1	10/1/2020	11/1/2020) cone-roof tank with IFR	Gasoline_X	1,053,068	8.2	6 259.66	267.92
OWENS Tank 1	11/1/2020	12/1/2020) cone-roof tank with IFR	Gasoline_X	1,053,068	8.2	6 184.99	193.25
OWENS Tank 1	12/1/2020	1/1/2023	L cone-roof tank with IFR	Gasoline_X	1,053,068	8.2	6 147.27	155.53
Annual Totals					12,636,816	99.1	5 2523.50	2622.65
OWENS Tank 2	1/1/2020	2/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	14.3	9 0.90	15.29
OWENS Tank 2	2/1/2020	3/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	16.1	4 1.18	17.32
OWENS Tank 2	3/1/2020	4/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	22.4	7 2.04	24.52
OWENS Tank 2	4/1/2020	5/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	31.7	4 3.21	34.95
OWENS Tank 2	5/1/2020	6/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	42.6	1 4.36	46.96
OWENS Tank 2	6/1/2020	7/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	54.4	3 5.40	59.83
OWENS Tank 2	7/1/2020	8/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	60.6	7 6.00	66.68
OWENS Tank 2	8/1/2020	9/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5.834.985	59.4	8 5.89	65.37
OWENS Tank 2	9/1/2020	10/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5.834.985	46.5	5 4.41	50.96
OWENS Tank 2	10/1/2020	11/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	32.6	9 2.93	35.62
OWENS Tank 2	11/1/2020	12/1/2020) FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	22.1	3 1.55	23.67
OWENS Tank 2	12/1/2020	1/1/202	1 FRT (no floating roof)	Distillate fuel oil no. 2	5,834,985	15.8	2 0.91	16.73
Annual Totals					70,019,820	419.1	3 38.77	457.90

OWENS Tank 3	1/1/2020	2/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	10.40	0.66	11.06	
OWENS Tank 3	2/1/2020	3/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	11.66	0.87	12.53	
OWENS Tank 3	3/1/2020	4/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	16.24	1.50	17.75	
OWENS Tank 3	4/1/2020	5/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	22.94	2.36	25.30	
OWENS Tank 3	5/1/2020	6/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	30.80	3.20	34.00	
OWENS Tank 3	6/1/2020	7/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	39.34	3.97	43.30	
OWENS Tank 3	7/1/2020	8/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	43.86	4.41	48.27	
OWENS Tank 3	8/1/2020	9/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	42.99	4.32	47.32	
OWENS Tank 3	9/1/2020	10/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	33.64	3.24	36.88	
OWENS Tank 3	10/1/2020	11/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	23.63	2.15	25.78	
OWENS Tank 3	11/1/2020	12/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	15.99	1.14	17 12	
OWENS Tank 3	12/1/2020	1/1/2021 FRT (no floating roof)	Distillate fuel oil no. 2	4,175,571	11.44	0.67	12.10	
Annual Totals				50,106,852	302.91	28.49	331.40	
OWENS Tank 4	1/1/2020	2/1/2020 FRT (no floating roof)	Distillate fuel oil po -2	10 945 652	26.70	1 67	דר טר	
OWENS Tank 4	2/1/2020	3/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10,945,652	20.70	1.07	20.37	
OWENS Tank 4	3/1/2020	4/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10 945 652	41 70	2.20	32.10	
OWENS Tank 4	4/1/2020	5/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10,945,652	58 92	5.97	43.50	
OWENS Tank 4	5/1/2020	6/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10.945.652	79.06	8 11	87 17	
OWENS Tank 4	6/1/2020	7/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10.945.652	101.03	10.04	111 07	
OWENS Tank 4	7/1/2020	8/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10.945.652	112 59	11 17	123.76	
OWENS Tank 4	8/1/2020	9/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10.945.652	110 38	10.95	121 33	
OWENS Tank 4	9/1/2020	10/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10.945.652	86.39	8 71	94.61	
OWENS Tank 4	10/1/2020	11/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10.945.652	60.66	5.45	56 11	
OWENS Tank 4	11/1/2020	12/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	10,945,652	41.07	2.88	43.94	
OWENS Tank 4	12/1/2020	1/1/2021 FRT (no floating roof)	Distillate fuel oil no. 2	10,945,652	29.36	1.68	31.04	
Annual Totals				131,347,824	777.81	72.14	849.95	
OWENS Tank 5	1/1/2020	2/1/2020 cone-roof tank with IFR	Gasoline X	74 147 566	18 55	570 49	629.02	
OWENS Tank 5	2/1/2020	3/1/2020 cone-roof tank with IFR	Gasoline X	24,147,500	40.33	273.40 500.22	020.03	
OWENS Tank 5	3/1/2020	4/1/2020 cone-roof tank with IFR	Gasoline X	24,147,566	40.55	223.23 806 70	047.78	
OWENS Tank 5	4/1/2020	5/1/2020 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	1042.25	655.25 1090.80	

OWENS Tank 5	5/1/2020	6/1/2020 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	746.69	795.24	
OWENS Tank 5	6/1/2020	7/1/2020 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	894.87	943.42	
OWENS Tank 5	7/1/2020	8/1/2020 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	1005.76	1054.31	
OWENS Tank 5	8/1/2020	9/1/2020 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	988.80	1037.34	
OWENS Tank 5	9/1/2020	10/1/2020 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	1479.64	1528.19	
OWENS Tank 5	10/1/2020	11/1/2020 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	1094.70	1143.24	
OWENS Tank 5	11/1/2020	12/1/2020 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	779.91	828.46	
OWENS Tank 5	12/1/2020	1/1/2021 cone-roof tank with IFR	Gasoline_X	24,147,566	48.55	620.87	669.42	
Annual Totals				289,770,792	582.58	10638.89	11221.47	
OWENS Tank 6	1/1/2020	2/1/2020 cone-roof tank with IFR	Gasoline X	6.466.033	24.93	228.43	253.36	
OWENS Tank 6	2/1/2020	3/1/2020 cone-roof tank with IFR	Gasoline X	6,466,033	24.93	236.22	261.15	
OWENS Tank 6	3/1/2020	4/1/2020 cone-roof tank with IFR	Gasoline X	6,466,033	24.93	318.01	342.93	
OWENS Tank 6	4/1/2020	5/1/2020 cone-roof tank with IFR	Gasoline	6,466,033	24.93	410.86	435.79	
OWENS Tank 6	5/1/2020	6/1/2020 cone-roof tank with IFR	Gasoline_X	6,466,033	24.93	294.35	319.28	
OWENS Tank 6	6/1/2020	7/1/2020 cone-roof tank with IFR	 Gasoline_X	6,466,033	24.93	352.76	377.69	
OWENS Tank 6	7/1/2020	8/1/2020 cone-roof tank with IFR	Gasoline_X	6,466,033	24.93	396.48	421.40	
OWENS Tank 6	8/1/2020	9/1/2020 cone-roof tank with IFR	Gasoline_X	6,466,033	24.93	389.79	414.72	
OWENS Tank 6	9/1/2020	10/1/2020 cone-roof tank with IFR	Gasoline_X	6,466,033	24.93	583.28	608.21	
OWENS Tank 6	10/1/2020	11/1/2020 cone-roof tank with IFR	Gasoline_X	6,466,033	24.93	431.54	456.46	
OWENS Tank 6	11/1/2020	12/1/2020 cone-roof tank with IFR	Gasoline_X	6,466,033	24.93	307.45	332.37	
OWENS Tank 6	12/1/2020	1/1/2021 cone-roof tank with IFR	Gasoline_X	6,466,033	24.93	244.75	269.68	
Annual Totals				77,592,396	299.12	4193.92	4493.03	
OWENS Tank 7	1/1/2020	2/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	124.26	7.52	131.78	
OWENS Tank 7	2/1/2020	3/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	139.39	9.94	149.32	
OWENS Tank 7	3/1/2020	4/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	194.07	17.13	211.20	
OWENS Tank 7	4/1/2020	5/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	274.17	26.88	301.05	
OWENS Tank 7	5/1/2020	6/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	367.90	36.49	404.39	
OWENS Tank 7	6/1/2020	7/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	470.12	45.14	515.26	
OWENS Tank 7	7/1/2020	8/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	523.93	50.18	574.11	
OWENS Tank 7	8/1/2020	9/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	513.63	49.21	562.85	
OWENS Tank 7	9/1/2020	10/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	402.02	36.95	438.97	
OWENS Tank 7	10/1/2020	11/1/2020 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	282.29	24.55	306.85	

OWENS Tank 7	11/1/2020	12/1/2020 FRT (no floating roof)	Distiliate fuel oil no. 2	50,875,711	191.10	12.96	204.06
OWENS Tank 7	12/1/2020	1/1/2021 FRT (no floating roof)	Distillate fuel oil no. 2	50,875,711	136.62	7.59	144.21
Annual Totals				610,508,532	3619.51	324.55	3944.05



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VOC = 0.11 pound per year	Section 6	8 barrel capacity	Additive Tank	Tank E			
	401 KVK 22:030						
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	401 KYK 25:030						
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VOC = 5.69 pound per year	Section 6	79 barrel capacity	Additive Tank	Tank B			
	401 KVK 25:030			-			
$\sqrt{100} = 37.27$ pound per year	9 UOIDOS	399 barrel capacity	Адайие Г эчийрьА	Tank A			
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