For Re	eferer	nce (Only	
Use Hardcop	by in [·]	Tripli	icate	Form

MPC Form No. PR-18A(a)

Marathon Petroleum Company LP - Galveston Bay Refinery

Revised 11/30/2023

######

Date:	W.O. No.:			Time:	Permit No.:	
Section A - Must be Com	pleted by Uni	t Requesting	Vacuum/Pne	umatic Tr	uck Prior to Loading	
Placards Required:	🗆 Yes	□ No				
Previous Material Loaded:						
Vacuum Truck Log Verified	: 🗆 Yes	□ No				
Material to be Picked Up C	ompatible with	Previous Load	: 🗆 Yes	🗆 No	If No, Documentation of Wash Out Mu	st be Attached.
Truck Water Washed:	□ Yes	🗆 No				
Truck Steam Washed:	□ Yes	🗆 No				
Note: Chemical Hazards ar	nd PPE Requirem	ents for Loading	at the Original	ing Unit M	ust be Identified on the Permit. The SDS M	ust be Attached to the Permit
Contractor Company Nam	e:					
Generating Process Unit: _			_ Contact Nar	ne:	Phone No.:	
Job Description:						
Job Location:						
Material/Product/Waste D	escription:				Estimated Am	iount:
Equipment ID:						
Equipment Service:						
Maximum Material/Produc	ct Temperature:					
If Material Description is U	nknown, the Te	st Results are:	Actual RVP:			
Destination/Disposal Site - D Destination/Disposal Site:	etermined by Or	iginating Dept. a	and Environmer	ital Facility	(X1299):	
					Signature:	Date:
Prior to loading pyrophor Dept. Supv. Originating Dept. Supv: _	-				olids/dusts, approval must be obtained Signature:	
Section B - Completed b						
Personal Protective Equ			nronriate Ite	mel		
Unload:	apinent (FFE)	[Check the A	propriate ite	Unloa	ad	
					lose Line Unit	
□ Self Contained Unit			Chemical Goggles			
				Chemical Resistant Suit		
Chemical Resistant G			Chemical Resistant Boots			
□ Other:						
Recieving Dept. Rep. Nam	e:				Signature:	Date:
Truck Operator Name:					Signature:	Date:
Truck Number:						
Prior to unloading pyroph Dept. Supv.	oric, oxidizing r	naterials, acids	, caustics, or co	ombustible	e solids/dusts, approval must be obtain	ed from the Receiving
					Signature:	Date:
		Fire/Sp Main Ga	be notified in bill/Medical En ate contact 40	mergency 9-945-176	nation y of all emergency situations. contact ext. 1911 2 or 409-945-1765 ill occurs on a public roadway)	

Vacuum/Pneumatic Truck Authorization Form

- A. The Vacuum/Pneumatic Truck Authorization Form will be generated by the originating area. Section A of the form must be completely filled out prior to loading any material in a vacuum or pneumatic truck.
- B. The top soft copy (white) of the form is for disposal of the material. This copy will be given to the vacuum/pneumatic truck operator. The vacuum/ pneumatic truck operator will give this copy of the form to the receiving area representative when initially checking in, prior to the first unloading. This copy will be good for multiple loading/unloading as long as the conditions (i.e., driver, truck, site or material) do not change. Also, if using multiple drivers/trucks to load/unload the same material, a from must be filled out for each truck/driver. Each time a truck enters or exits an operating unit, the driver must check in at the unit's control room.
- C. The top soft copy (yellow) is for the vacuum/pneumatic truck operator.
- D. The bottom hard copy will be retained by the receiving unit, and sent to the Environmental Waste Team.

Materials Known to Have an RVP <= 9.0

Benzene Benzene/Ethylbenzene Cat Feed Hydrotreated Gas Oils Coker Furnace Charge Coker Naphtha Crude Benzene Crude Ethylbenzene Crude Ethylbenzene/Benzene Decanted Alkylate Decanted Oil **Desulfurizer Feed Deisohexanizer Bottoms** Diesel Ethylbenzene No. 2 Fuel Oil No. 6 Fuel Oil Gas Oil Mixtures Heavy Aromatic Heavy Cat Cycle Oil Heavy Coker Gas Oil Heavy Cat Naphtha

Actual RVP, Psi *

14

12

10

8

70

Heavy Coker Naphtha Heavy Distillates Heavy Heavy Coker Gas Oil Heavy Heavy Vacuum Gas Oil Heavy Hydrotreated Naphtha Heavy Raffinate Heavy Ultracrackate Heavy Ultraformate Heavy Vacuum Gas Oil Heavy Virgin Naphtha High Sulfur Gas Oil High Temperature Separator Liquid Hydrotreated Atmospheric Tower Bottom Hydrotreated Resid Intermediate Hydrotreated Naphtha Intermediate Virgin Naphtha JP4 Jet Fuel A/JP5 Kerosene Light Cat Cycle Oil Light Coker Distillate

DO NOT LOAD

95

90

Light DDU Distillate Light Gas Oil Light Hydrotreated Distillate Light Hydrotreated Gas Oil Light Hydrotreated Vacuum Naphtha Light Ultracrackate Light Ultraformate Light Virgin Distillate Light Vacuum Gas Oil Low Sulfur Gas Oil Mid Hydrotreated Distillate Mid Temperature Separator Liquid Mid Virgin Distillate **Mixed Distillates** Nitration Grade Benzene Polymer PX Light Benzene Recycle Oil **Reject Hydrocarbons** Resid Hydrotreated Gas Oil Rich Sponge Oil

RHU Feed RX-107 3S-Overhead Seal Oil Skimmed Oil to Tk 1004 Slurry SN-Regular Sponge Oil Sour Naphtha Toluene **Total Raffinate** Total Ultraformate Utility Gas Oil Vacuum Hydrotreated Naphtha Vacuum Naphtha Wash Oil Wild Hydrotreated Distillate Xylene Xylene/Ethylbenzene

Finished Products Temperature Criteria Graph

With the known material temperature, the maximum RVP can be calculated as follows:

Maximum RVP = 25.446 - 0.160 * Material Temperature



OK

TO

LOAD

80

85

Material Temperature, deg F

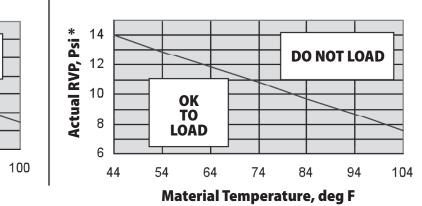
75

Crude Oil Temperature Criteria Graph

With the known material temperature, the maximum RVP can be calculated as follows:

Maximum RVP = 18.625 - 0.106 * Material Temperature

Material Temperature vs. Maximum RVP



* Actual Reid Vapor Pressure (RVP) in Psi as measured by the Lab

Chemical Interaction Matrix Chart

	ACIDS	BASES	HYDROCARBONS	OXIDIZERS	SPENT CATALYST
ACIDS	No Reaction	Generates heat, corrosive, generates gas (pressure build- up), potential for explosive reaction, toxic	Generates heat (polymerizes HCs), generates gas (pressure build-up), toxic, can cause burns	Generates heat, potential for explosive reaction, generates gas (pressure build- up), toxic	Generates heat, can boil/splatter, can release H2S
BASES	Generates heat, corrosive, generates gas (pressure build- up), potential for explosive reaction, toxic	No Reaction	No Reaction	Generates heat, corrosive, generates gas (pressure build- up), potential for explosive reaction, toxic	Potential to release heat, possibly H2S
HYDROCABONS	Generates heat (polymerizes HCs), generates gas (pressure build-up), toxic, can cause burns	No Reaction	No Reaction	Generates heat, generates gas (pressure build-up), flammable, potential for explosive reaction, toxic	No Reaction
OXIDIZERS	Generates heat, potential for explosive reaction, generates gas (pressure build- up), toxic	Generates heat, corrosive, generates gas (pressure build- up), potential for explosive reaction, toxic	Generates heat, generates gas (pressure build-up), flammable, potential for explosive reaction, toxic	No Reaction	Can burn and release harmful vapors (SO2, NOx, CO, CO2)
SPENT CATALYST	Generates heat, can boil/splatter, can release H2S	Potential to release heat, possibly H2S	No Reaction	Can burn and release harmful vapors (SO2, NOx, CO, CO2)	No Reaction

Refinery Examples of Acids, Bases and Oxidizers

Acids	Bases	Oxidizers
Hydrofluoric Acid (HF)	Caustic (NaOH)	Air
Hydrochloric Acid (HCL)	Soda Ash (Na ₂ CO ₃)	Oxygen (O ₂)
Sulfuric Acid (H ₂ SO ₄)	Amines (e.g., diethanolamine DEA))	Potassium Permanganate (KMnO ₄)
Phosohoric Acid Catalyst (H ₃ PO ₄)	Sodium Polysulfide (Na ₂ Sx)	Sodium Hypochlorite (bleach) (NaOCl)