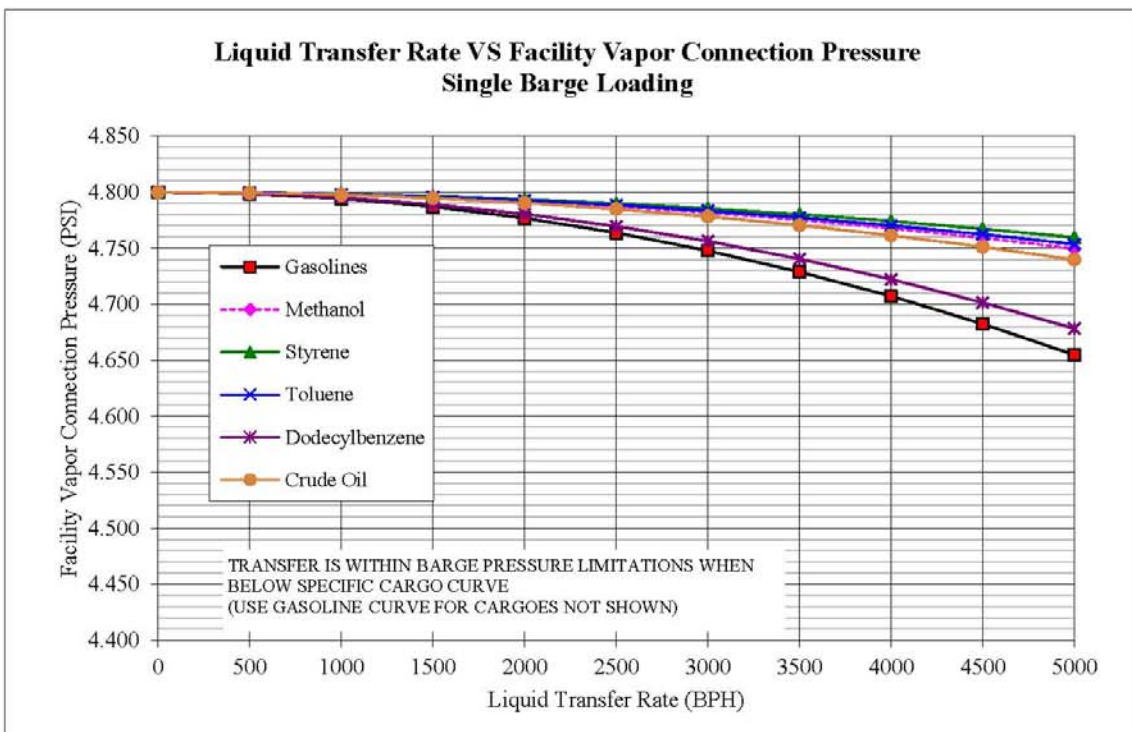
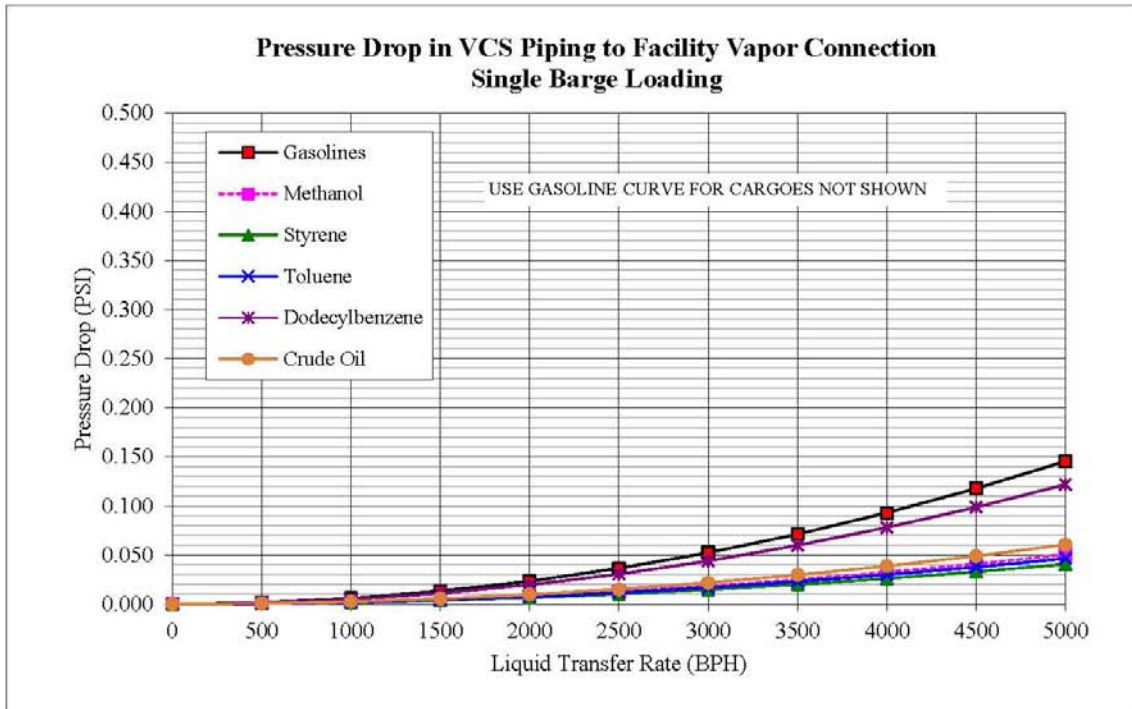


CARGO TRANSFER PROCEDURES

CBC 1100 EX: CHEM 1204 EX: AEP 10005

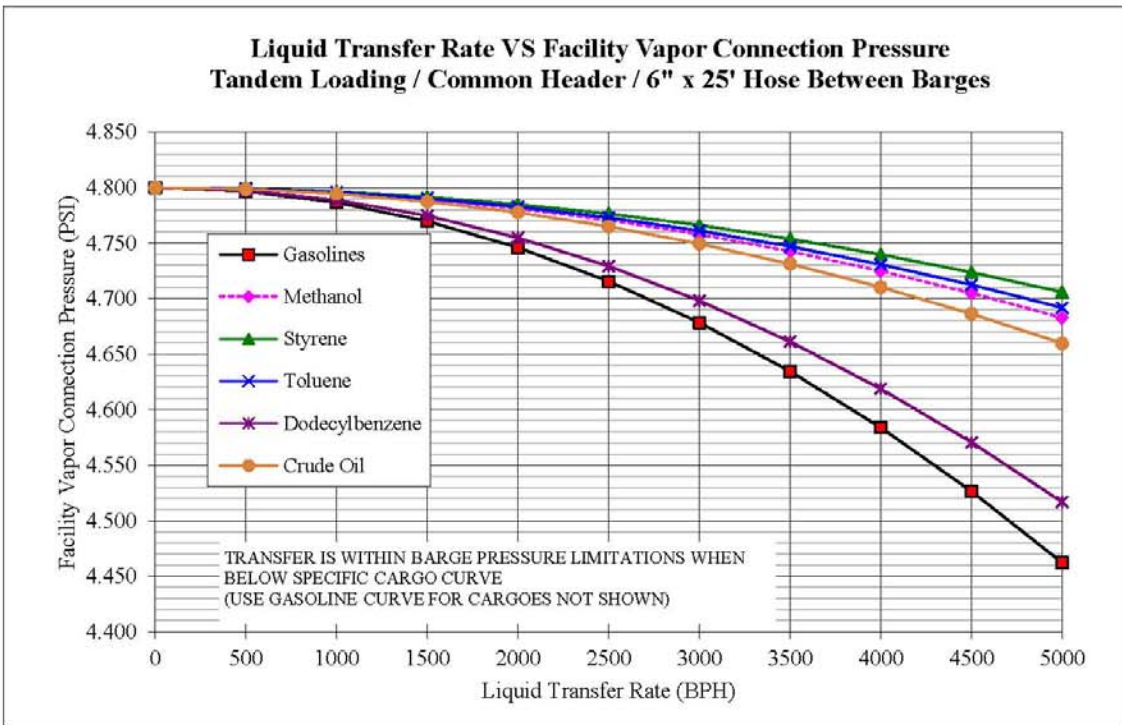
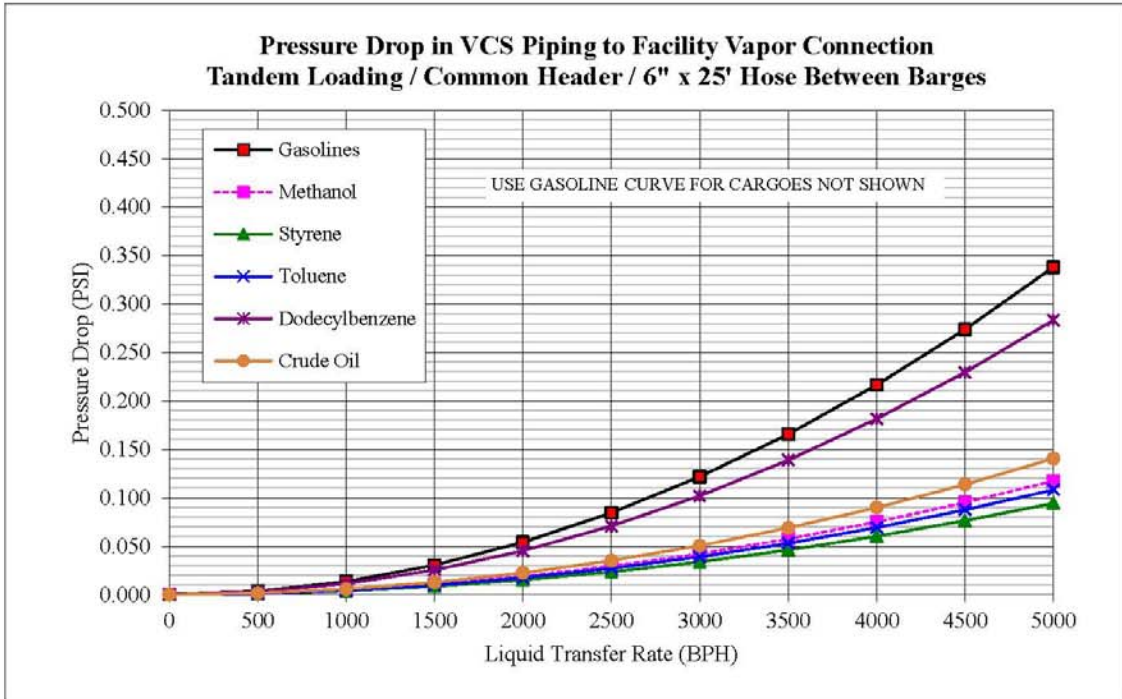
AEP 10001 thru AEP 10020
JEFFBOAT HULL 13-2809 thru 13-2828
5,000 BBL/HR MAX TRANSFER RATE



CARGO TRANSFER PROCEDURES

CBC 1100 EX: CHEM 1204 EX: AEP 10005

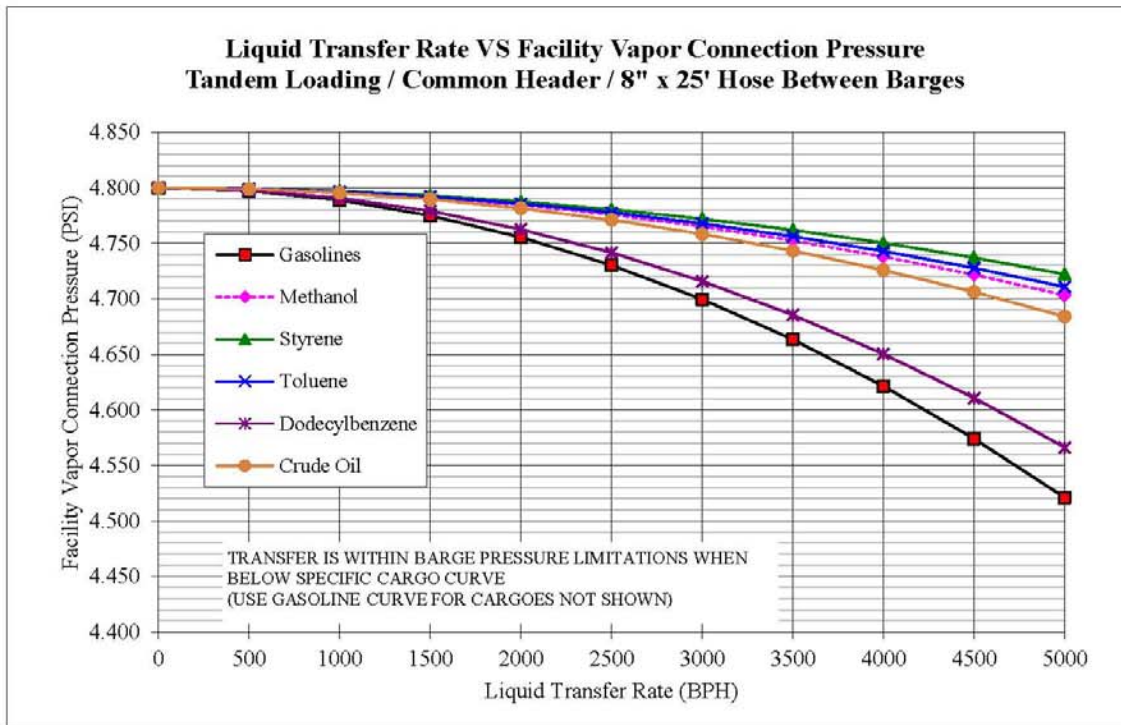
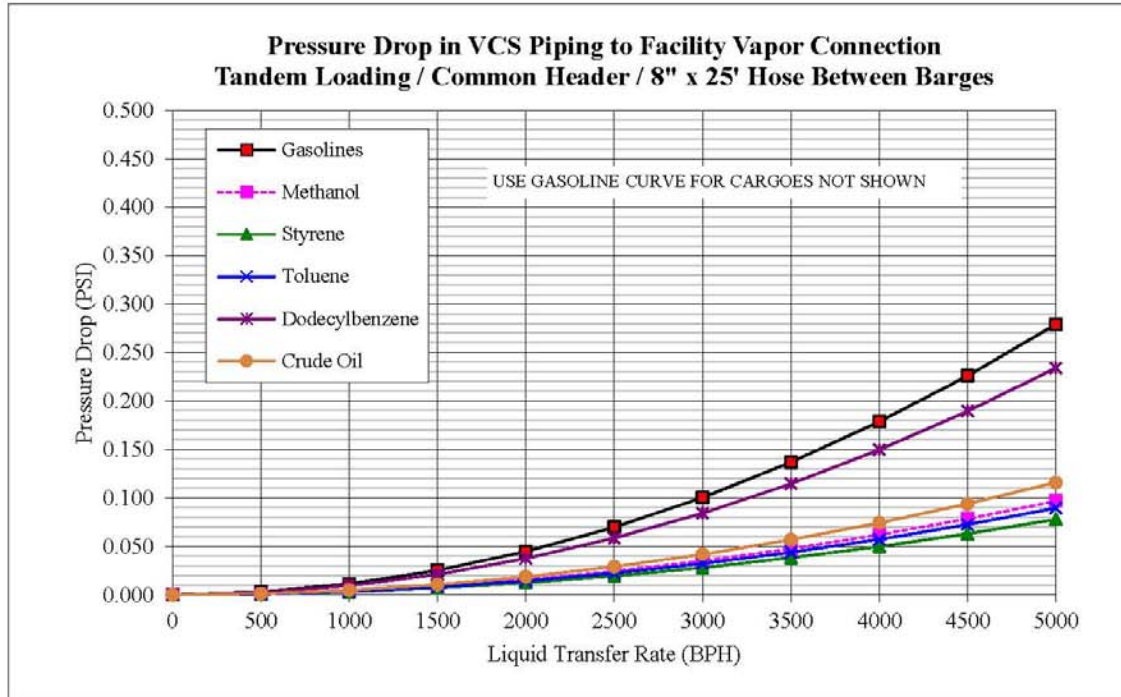
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CARGO TRANSFER PROCEDURES

CBC 1100 EX: CHEM 1204 EX: AEP 10005

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JEFFBOAT HULL 13-2809 thru 13-2828
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Marine Safety Center Vapor Control System (VCS) Plan Review Information Sheet (PRIS)



Vessel Name	AEP 10001 thru AEP 10020	Shipyard	Jeffboat
Official Number	1273153-54, 1273156-73	Hull Number	13-2809 thru 13-2828

1. This sheet consolidates critical VCS parameters for MSC Staff Engineers and CG Field Inspectors dealing with Vapor Control Systems. CG Inspectors should verify the vessel's VCS design is consistent with the information listed in boxes 2, 6, 7 & 8 prior to updating the vapor control endorsement on the vessel's Certificate of Inspection. For cases where the information in the VCS PRIS does not reflect the vessel's design the CG Inspector should contact the MSC's Cargo Authority branch.

2. Tank Maximum Design Working Pressure	6.40	psig	Raised Trunk <input checked="" type="checkbox"/>
			Flush Deck
3. Authorized Maximum Cargo Transfer Rate(s)	5,000	bbl/hr loading (max 2 tanks simultaneously)	
	5,000	bbl/hr discharging	
4. Authorized Maximum Vapor-Air Mixture Density	0.261	lbm/ft ³	
5. Authorized VCS Categories	1 through 4		

6. Cargoes with the highest vapor density and/or pressure drop:

a. Cargo Name DDB

b. Cargo Name GAK

7. Pressure Vacuum Valve:		8. VCS Pipe Sizes:	
Manufacturer	ERL	Settings in psig:	Approx. Inside Diameter
Size	SUPERAC II PV-6	Pressure-side	Longitudinal Header (inches)
CG Approval	162.017/167/4	Vacuum-side	Transverse Header (Inches)
			8
			8
Required Venting Capacity of Pressure-Side of P/V valve		9781	bbl/hr (air)
Required Venting Capacity of Vacuum-Side of P/V valve		5000	bbl/hr (air)

9. Tank Overfill Protection System (check appropriate box or boxes)

a. High Level/Tank Overfill Alarm	<input checked="" type="checkbox"/>	Type	ERL Level Alert II
b. Overfill Control Shutdown	<input checked="" type="checkbox"/>	Type	ERL Level Alert II
c. Spill Valve	<input type="checkbox"/>	Type	N/A
d. Rupture Disk	<input type="checkbox"/>	Type	N/A

Meets ASTM F1271 N/A **Setting in psig**

10. Closed Gauging Verify the vessel has closed gauging that satisfies 46 CFR 39.20-3 and 151.15-10(c).

11. Instructions/Guidelines for the OCMI:

11a. The following is the Marine Safety Center's recommended COI endorsement:
 In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system has been inspected to the plans approved by Marine Safety Center letter Serial No. C1-1400057 dated January 10, 2014, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column of the vessel's Cargo Authority Attachment. The VCS system has been approved with a pressure side 6.0 psig P/V valve with Coast Guard Approval 162.017/167/04. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.4 psi.
 When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 US Code of Federal Regulations Part 197, Subpart C are applied.

11b. The MSC approval letter/s must be available at the OCMI's request.

11c. Verify isolation valve at the vapor connection flange is manually operable and designed in a way it is "clearly" open or closed.

11d. Previous applicable approval letters:

VCS Approval Letter MSC letter C1-1400057 dated January 10, 2014 MSC Plan Reviewer LT R. W. Mowbray