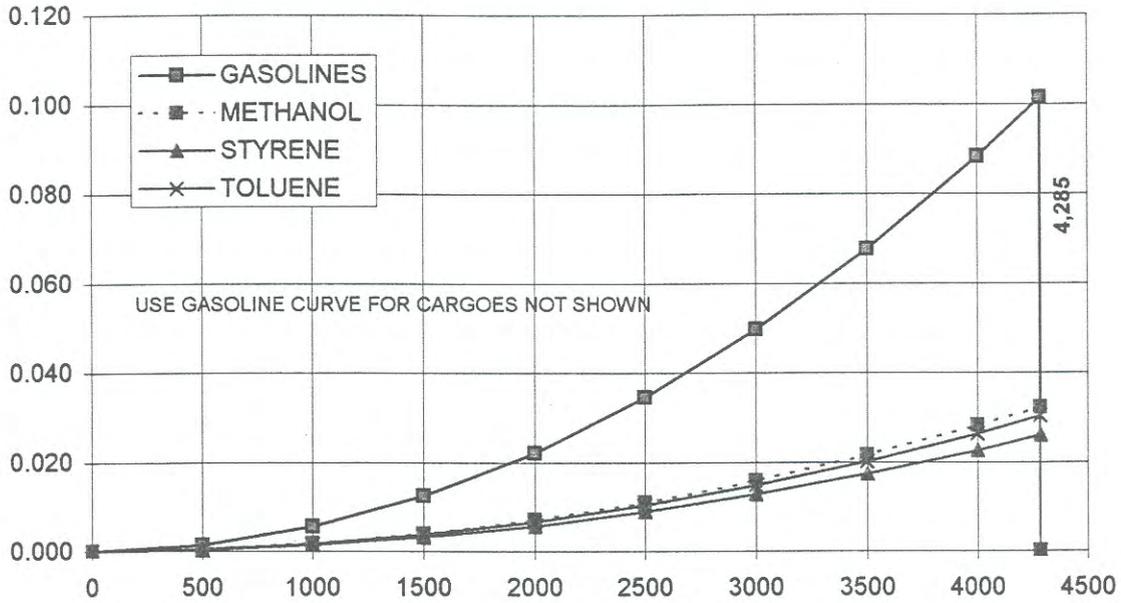
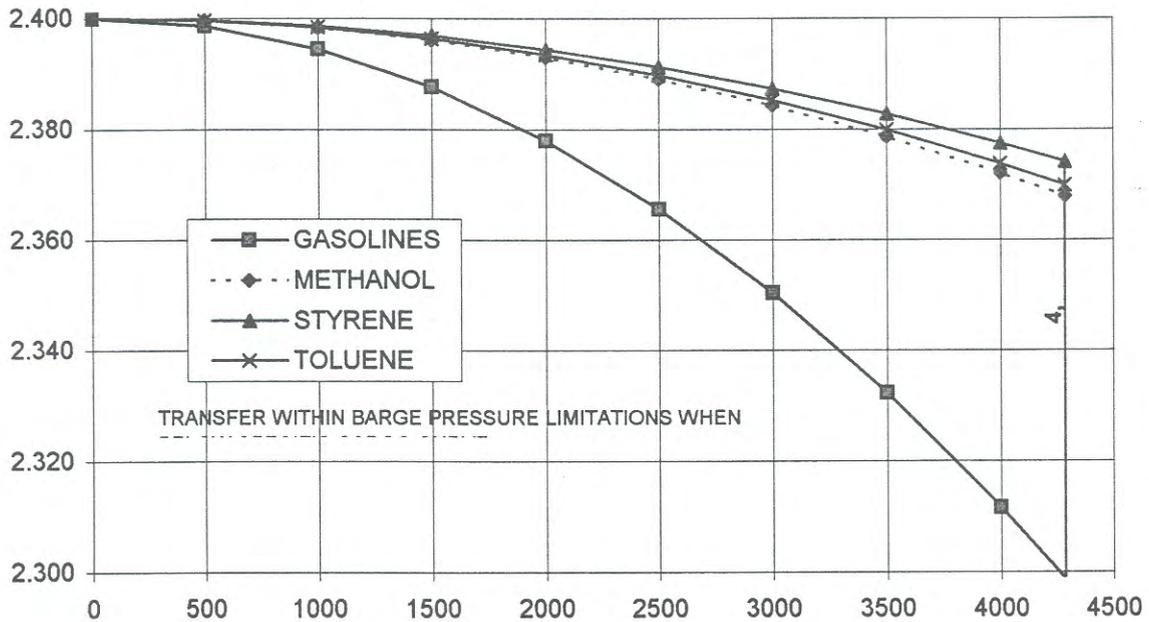


PRESSURE DROP IN VCS PIPING



LIQUID TRANSFER RATE VS FACILITY VAPOR CONNECTION PRESSURE





Marine Safety Center Vapor Control System (VCS) Plan Review Information Sheet (PRIS)



Vessel Name	CBC 39 thru 49	Shipyard	Jeffboat
Official Number	165010 thru 165023	Hull Number	04-2217 thru 04-2228

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	3.20	psig	Raised Trunk <input checked="" type="checkbox"/>
			Flush Deck <input type="checkbox"/>
3. Authorized Maximum Cargo Transfer Rate	4285	bbl/hr	
4. Authorized Maximum Cargo Density	0.247	lbm/ft ³	
5. Authorized VCS Categories	1 thru 4		

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

a. Cargo Name	Dodecylbenzene
b. Cargo Name	Gasoline

7. Pressure Vacuum Valve:		8. VCS Pipe Sizes:	
Manufacturer	TANKTECH	Settings in psig:	Approx. Inside Diameter
Size	KLPH-6	Pressure-side	3
CG Approval	162.017/144	Vacuum-side	0.5
			Longitudinal Header (inches)
			8
			Transverse Header (Inches)
			8
	Required Venting Capacity of Pressure-Side of P/V valve	9191	bbl/hr (air)
	Required Venting Capacity of Vacuum-Side of P/V valve	4285	bbl/hr (air)

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

a. High Level/Tank Overfill Alarm	<input checked="" type="checkbox"/>	Type	0	
b. Overfill Control Shutdown	<input checked="" type="checkbox"/>	Type	0	
c. Spill Valve	<input type="checkbox"/>	Type	0	Meets ASTM F1271 Setting in psig
d. Rupture Disk	<input type="checkbox"/>	Type	0	

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

"Only those cargoes named in the vessel's Cargo Authority Attachment, Serial #C2-0403195, dated 15Dec2004, may be carried and then only in the tanks indicated. In accordance with 46 CFR Part 39, excluding part 39.40, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter Serial #: C2-0403195 dated 15Dec2004, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column."

11b. The Marine Safety Center 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 VCS approval letters:

None	
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