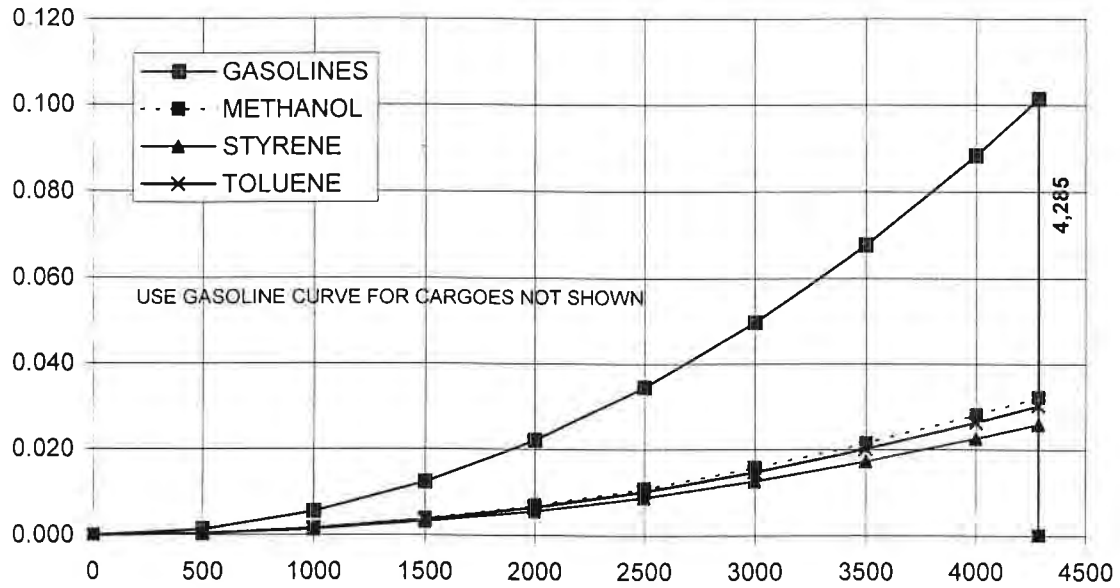
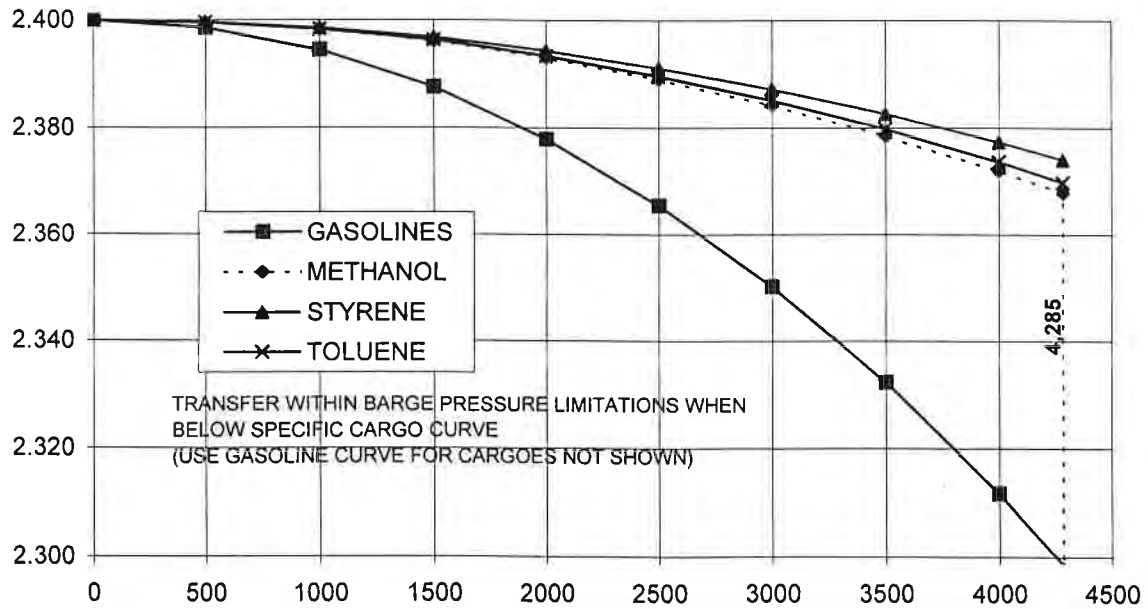


PRESSURE DROP IN VCS PIPING



LIQUID TRANSFER RATE VS FACILITY VAPOR CONNECTION PRESSURE





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



Vessel Name	CBC 66 - 73	Shipyard	JEFFBOAT
Official Number	1157191 - 1157198	Hull Number	04-2178 thru 04-2185

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, & 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	3.56 psig	Raised Trunk ☒	Flush Deck ☐
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*	* plus EAN (6) and PDE (7).	
6. Cargoes with the highest vapor density and/or pressure drop:			
a. Cargo Name	Dodecylbenzene		
b. Cargo Name	Gasoline		

7. Pressure Vacuum Valve:

Manufacturer	Bergen KLPH-6
Size	6
CG Approval	162.017/144

Settings in psig:

Pressure-side	3
Vacuum-side	0.5

8. VCS Pipe Sizes:

Approx. Inside Diameter	
Longitudinal Header (inches)	8
Transverse Header (Inches)	8

Required Venting Capacity of Pressure-Side of P/V valve	10862 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	☒	Type	0	Meets ASTM F1271	
b. Overfill Control Shutdown	☐	Type	0		
c. Spill Valve	☐	Type	0		
d. Rupture Disk	☐	Type	0		
				Setting in ps	N/A

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 #C2-0402477, dated 04Oct2004, 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 #C2-0402477 dated 17Oct2004, 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 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	

VCS Approval Letter

MSC Plan Reviewer