



United States of America
Department of Homeland Security
United States Coast Guard

Certification Date: 14 Jun 2022
Expiration Date: 14 Jun 2027

Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name	Official Number	IMO Number	Call Sign	Service		
CBC 344	1239683			Tank Barge		
Hailing Port	Hull Material	Horsepower	Propulsion			
NEW ORLEANS, LA	Steel					
UNITED STATES						
Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
CODEN, AL	02Aug2012	06Jun2011	R-1616	R-1616		R-297.0
UNITED STATES			1-	1-		10
Owner	Operator					
CANAL BARGE COMPANY INC 835 UNION ST NEW ORLEANS, LA 70112 UNITED STATES	CANAL BARGE COMPANY, INC. 1801 Engineers Road Belle Chasse, LA 70037 UNITED STATES					
This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.						
0 Masters	0 Licensed Mates	0 Chief Engineers	0 Oilers			
0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers				
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers				
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers				
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers				
0 Mate First Class Pilots	0 Deckhands	0 Qualified Member Engineer				
In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0						
Route Permitted And Conditions Of Operation: ---Lakes, Bays, and Sounds---						
This vessel has been granted a fresh water service examination interval in accordance with 46 CFR 31.10-21(a) (2). If this vessel is operated in salt water more than six (6) months in any twelve (12) month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a) (1) and the cognizant OCMI must be notified in writing as soon as this change in status occurs.						
This tank barge is participating in the Eighth-Ninth Coast Guard District's Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its tank barge action plan. Inspection issues concerning this barge should be directed to Sector New Orleans OCMI.						
SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION						
With this Inspection for Certification having been completed at Port Arthur, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Marine Safety Unit Port Arthur certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.						
Annual/Periodic/Re-Inspection				This certificate issued by:		
Date	Zone	A/P/R	Signature	K. A. Hantal, CDR, USCG, By direction		
6-7-2023	Canal Barge	A	Kendall White	Officer in Charge, Marine Inspection		
				Marine Safety Unit Port Arthur		
				Inspection Zone		




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Place Built CODEN, AL UNITED STATES	Delivery Date 02Aug2012	Keel Laid Date 06Jun2011	Gross Tons R-1616 I-	Net Tons R-1616 I-	DWT I-0	Length R-297.0 I-0
Owner CANAL BARGE COMPANY INC 835 UNION ST NEW ORLEANS, LA 70112 UNITED STATES		Operator CANAL BARGE COMPANY, INC. 1801 Engineers Road Belle Chasse, LA 70037 UNITED STATES				
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0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers				
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers				
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers				
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers				
0 Mate First Class Pilots	0 Deckhands	0 Qualified Member Engineer				
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Date	Zone	A/P/R	Signature	K. A. Hantal, CDR, USCG, By direction		
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Vessel Name: CBC 344

---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	30Jun2032	14Jun2022	02Aug2012
Internal Structure	30Apr2027	14Jun2022	26Apr2017

--- Liquid/Gas/Solid Cargo Authority/Conditions ---

Authorization: FLAMMABLE/COMBUSTIBLE CARGOS

Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
28471	Barrel	A	No	No	No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 Port	1088	8.74
1 Stbd	1088	8.74
2 Port & Stbd	680	8.74
3 Port	1768	8.74
3 Stbd	1768	8.74
4 Port	1768	8.74
4 Stbd	1768	8.74

Conditions Of Carriage

When the vessel is carrying cargoes containing 0.5% or greater benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

Vapor Control Authorization

Per 46 CFR 39, excluding Part 39.4000, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial # C1-1104465, dated 07 Dec 2011, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Per 46 CFR 39.1017 and 39.5000(e), this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

Stability and Trim

The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal.

Thermal fluid heater may only be operated when carrying grade "E" cargoes.

--- Inspection Status ---

Cargo Tanks

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1 Port	02Aug2012	14Jun2022	30Jun2032	-	-	-



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1 Stbd	02Aug2012	14Jun2022	30Jun2032	-	-	-
2 Port & Stbd	02Aug2012	14Jun2022	30Jun2032	-	-	-
3 Port	02Aug2012	14Jun2022	30Jun2032	-	-	-
3 Stbd	02Aug2012	14Jun2022	30Jun2032	-	-	-
4 Port	02Aug2012	14Jun2022	30Jun2032	-	-	-
4 Stbd	02Aug2012	14Jun2022	30Jun2032	-	-	-

Hydro Test

Tank Id	Safety Valves	Previous	Last	Next
1 Port	-	-	-	-
1 Stbd	-	-	-	-
2 Port & Stbd	-	-	-	-
3 Port	-	-	-	-
3 Stbd	-	-	-	-
4 Port	-	-	-	-
4 Stbd	-	-	-	-

---Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity	Class Type
3	40-B

END



Department of Homeland Security
United States Coast Guard

Serial #: C1-1202922

Dated: 11-Jun-12

Certificate of Inspection

Cargo Authority Attachment

Official #: 1239683

Shipyard: RAYMOND & ASSOCIATES

Hull #: 456

Tank Group Characteristics

Trk Grp Tanks in Group	Density	Flammability Grade	Fire Protection	Comments
A #1P/S, #2P/S, #3P/S	8.74	A	Portable	None

This vessel is approved to collect vapors of the following 46 CFR Subchapter D flammable and/or combustible liquid cargoes using the approved onboard vapor control system.

Subchapter D Cargoes Authorized for Vapor Control

Cargo Identification					Conditions of Carriage		
Name	Chem Code	Compat Group No	IMO Pollution Category	Grade	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category
Acetone	ACT	18 ²	III	C	A	Yes	1
Acetophenone	ACP	18	@D	E	A	Yes	1
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	A	E	A	Yes	1
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	B	E	A	Yes	1
Amyl acetate (all isomers)	AEC	34	C	D	A	Yes	1
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D	A	Yes	1
Benzyl alcohol	BAL	21	C	E	A	Yes	1
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E	A	Yes	1
Butyl acetate (all isomers)	BAX	34	C	D	A	Yes	1
Butyl alcohol (iso-)	IAL	20 ²	III	D	A	Yes	1
Butyl alcohol (n-)	BAN	20 ²	III	D	A	Yes	1
Butyl alcohol (sec-)	BAS	20 ²	III	C	A	Yes	1
Butyl alcohol (tert-)	BAT	20	III	C	A	Yes	1
Butyl toluene	BUE	32	@A	D	A	Yes	1
Cyclohexane	CHX	31	C	C	A	Yes	1
Cyclohexanol	CHN	20	D	E	A	Yes	1
1,3-Cyclopentadiene dimer (molten)	CPD	30	B	D/E	A	Yes	2
p-Cymene	CMP	32	C	D	A	Yes	1
iso-Decaldehyde	IDA	19	@C	E	A	Yes	1
n-Decaldehyde	DAL	19	@B	E	A	Yes	1
Decene	DCE	30	B	D	A	Yes	1
Decyl alcohol (all isomers)	DAX	20 ²	B	E	A	Yes	1
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	III	E	A	Yes	1
Diacetone alcohol	DAA	20 ²	D	D	A	Yes	1
ortho-Dibutyl phthalate	DPA	34	A	E	A	Yes	1
Diethylbenzene	DEB	32	A	D	A	Yes	1
Diisobutylene	DBL	30	B	C	A	Yes	1
Diisobutyl ketone	DIK	18	D	D	A	Yes	1
Diisopropylbenzene (all isomers)	DIX	32	A	E	A	Yes	1
Diocetyl phthalate	DOP	34	III	E	A	Yes	1
Dipentene	DPN	30	C	D	A	Yes	1
Diphenyl	DIL	32	A	D/E	A	Yes	1
Dipropylene glycol	DPG	40	III	E	A	Yes	1
Distillates: Flashed feed stocks	DFF	33	I	E	A	Yes	1
Distillates: Straight run	DSR	33	I	E	A	Yes	1
Dodecene (all isomers)	DOZ	30	B	D	A	Yes	1

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ASSOCIATES

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Hull #: 456

Cargo Identification						Conditions of Carriage		
Name	Chem Code	Compat Group No	IMO Pollution Category	Grade	Tank Group	Vapor Recovery		VCS Category
						App'd (Y or N)	Yes	
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	III	E	A	Yes	1	
2-Ethoxyethyl acetate	EEA	34	C	D	A	Yes	1	
Ethoxy triglycol (crude)	ETG	40	D	E	A	Yes	1	
Ethyl acetate	ETA	34	D	C	A	Yes	1	
Ethyl acetoacetate	EAA	34	D	E	A	Yes	1	
Ethyl alcohol	EAL	20 ²	III	C	A	Yes	1	
Ethylbenzene	ETB	32	B	C	A	Yes	1	
Ethyl butanol	EBT	20	@D	D	A	Yes	1	
Ethyl tert-butyl ether	EBE	41	C	C	A	Yes	1	
Ethyl butyrate	EBR	34	C	D	A	Yes	1	
Ethyl cyclohexane	ECY	31	C	D	A	Yes	1	
Ethylene glycol butyl ether acetate	EMA	34	C	E	A	Yes	1	
Ethylene glycol phenyl ether	EPE	40	D	E	A	Yes	1	
Ethyl-3-ethoxypropionate	EEP	34	C	D	A	Yes	1	
2-Ethylhexanol	EHX	20	@C	E	A	Yes	1	
Ethyl propionate	EPR	34	D	C	A	Yes	1	
Ethyl toluene	ETE	32	B	D	A	Yes	1	
Gasoline blending stocks: Alkylates	GAK	33	I	A/C	A	Yes	1	
Gasoline blending stocks: Reformates	GRF	33	I	A/C	A	Yes	1	
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	I	C	A	Yes	1	
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	I	C	A	Yes	1	
Gasolines: Casinghead (natural)	GCS	33	I	A/C	A	Yes	1	
Gasolines: Polymer	GPL	33	I	A/C	A	Yes	1	
Gasolines: Straight run	GSR	33	I	A/C	A	Yes	1	
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	C	C	A	Yes	1	
Heptanoic acid	HEP	4	D	E	A	Yes	1	
Heptanol (all isomers)	HTX	20	C	D/E	A	Yes	1	
Heptene (all isomers)	HPX	30	C	C	A	Yes	2	
Heptyl acetate	HPE	34	B	E	A	Yes	1	
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	C	B/C	A	Yes	1	
Hexanoic acid	HXO	4	D	E	A	Yes	1	
Hexanol	HXN	20	D	D	A	Yes	1	
Hexene (all isomers)	HEX	30	C	C	A	Yes	2	
Hexylene glycol	HXG	20	III	E	A	Yes	1	
Isophorone	IPH	18 ²	D	E	A	Yes	1	
Jet fuel: JP-4	JPF	33	I	E	A	Yes	1	
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	I	D	A	Yes	1	
Kerosene	KRS	33	I	D	A	Yes	1	
Methyl acetate	MTT	34	III	D	A	Yes	1	
Methyl alcohol	MAL	20 ²	D	C	A	Yes	1	
Methylamyl acetate	MAC	34	C	D	A	Yes	1	
Methylamyl alcohol	MAA	20	C	D	A	Yes	1	
Methyl amyl ketone	MAK	18	D	D	A	Yes	1	
Methyl tert-butyl ether	MBE	41 ²	D	C	A	Yes	1	
Methyl butyl ketone	MBK	18	D	C	A	Yes	1	
Methyl butyrate	MBU	34	C	C	A	Yes	1	
Methyl ethyl ketone	MEK	18 ²	III	C	A	Yes	1	
Methyl heptyl ketone	MHK	18	B	D	A	Yes	1	

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Shipyard: RAYMOND &
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Hull #: 456

Cargo Identification							Conditions of Carriage	
Name	Chem Code	Compat Group No	IMO Pollution Category	Grade	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	
							Yes	1
Methyl isobutyl ketone	MIK	18 ²	D	C	A	Yes	1	
Methyl naphthalene (molten)	MNA	32	A	E	A	Yes	1	
Mineral spirits	MNS	33	I	D	A	Yes	1	
Myrcene	MRE	30	D	D	A	Yes	1	
Naphtha: Heavy	NAG	33	@I	#	A	Yes	1	
Naphtha: Petroleum	PTN	33	I	#	A	Yes	1	
Naphtha: Solvent	NSV	33	@I	D	A	Yes	1	
Naphtha: Stoddard solvent	NSS	33	@I	D	A	Yes	1	
Naphtha: Varnish makers and painters (75%)	NVM	33	@I	C	A	Yes	1	
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	C	D	A	Yes	1	
Nonene (all isomers)	NON	30	B	D	A	Yes	2	
Nonyl alcohol (all isomers)	NNS	20 ²	C	E	A	Yes	1	
Nonyl phenol	NNP	21	A	E	A	Yes	1	
Nonyl phenol poly(4+)ethoxylates	NPE	40	B	E	A	Yes	1	
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	C	C	A	Yes	1	
Octanoic acid (all isomers)	OAY	4	D	E	A	Yes	1	
Octanol (all isomers)	OCX	20 ²	C	E	A	Yes	1	
Octene (all isomers)	OTX	30	B	C	A	Yes	2	
Oil, fuel: No. 2	OTW	33	I	D/E	A	Yes	1	
Oil, fuel: No. 2-D	OTD	33	I	D	A	Yes	1	
Oil, fuel: No. 4	OFR	33	I	D/E	A	Yes	1	
Oil, fuel: No. 5	OFV	33	I	D/E	A	Yes	1	
Oil, fuel: No. 6	OSX	33	I	E	A	Yes	1	
Oil, misc: Crude	OIL	33	I	C/D	A	Yes	1	
Oil, misc: Diesel	ODS	33	I	D/E	A	Yes	1	
Oil, misc: Gas, high pour	OGP	33	@I	E	A	Yes	1	
Oil, misc: Lubricating	OLB	33	I	E	A	Yes	1	
Oil, misc: Residual	ORL	33	I	E	A	Yes	1	
Oil, misc: Turbine	OTB	33	I	E	A	Yes	1	
Pentane (all isomers)	PTY	31	C	A	A	Yes	5	
Pentene (all isomers)	PTX	30	C	A	A	Yes	5	
n-Pentyl propionate	PPE	34	C	D	A	Yes	1	
alpha-Pinene	PIO	30	A	D	A	Yes	1	
beta-Pinene	PIP	30	B	D	A	Yes	1	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E	A	Yes	1	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E	A	Yes	1	
Polybutene	PLB	30	III	E	A	Yes	1	
Polypropylene glycol	PGC	40	D	E	A	Yes	1	
iso-Propyl acetate	IAC	34	III	C	A	Yes	1	
n-Propyl acetate	PAT	34	D	C	A	Yes	1	
iso-Propyl alcohol	IPA	20 ²	III	C	A	Yes	1	
n-Propyl alcohol	PAL	20 ²	III	C	A	Yes	1	
Propylbenzene (all isomers)	PBY	32	A	D	A	Yes	1	
iso-Propylcyclohexane	IPX	31	C	D	A	Yes	1	
Propylene glycol	PPG	20 ²	III	E	A	Yes	1	
Propylene glycol methyl ether acetate	PGN	34	D	D	A	Yes	1	
Propylene tetramer	PTT	30	B	D	A	Yes	1	
Sulfolane	SFL	39	D	E	A	Yes	1	

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Cargo Authority Attachment

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Shipyard: RAYMOND &
ASSOCIATES

Hull #: 456

Cargo Identification					Conditions of Carriage		
Name	Chem Code THN	Compat Group No	IMO Pollution Category	Grade	Tank Group	Vapor Recovery	
						App'd (Y or N)	VCS Category
Tetrahydronaphthalene				E	A	Yes	1
Toluene	TOL	32	C	C	A	Yes	1
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	A	E	A	Yes	1
Triethylbenzene	TEB	32	A	E	A	Yes	1
Trimethylbenzene (all isomers)	TRE	32	A	{D}	A	Yes	1
Trixylenyl phosphate	TRP	34	A	E	A	Yes	1
Undecene	UDC	30	B	D/E	A	Yes	1
1-Undecyl alcohol	UND	20	B	E	A	Yes	1
Xylenes (ortho-, meta-, para-)	XLX	32	C	D	A	Yes	1

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Shipyard: RAYMOND &

Hull #: 456

Explanation of terms & symbols used in the Table:

Cargo Identification

Name	The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatibility Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 267-1217.
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatibility chart.
Subchapter	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.
Subchapter D	Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.
Subchapter O	Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.
Note 3	Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades inside of "()" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
A, B, C	Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E	Combustible liquid cargoes, as defined in 46 CFR 30-10.15.
Note 4	The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
NA	Those subchapter O cargoes which are not classified as a flammable or combustible liquid.
#	No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.
Hull Type	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
I	Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1).
II	Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).
III	Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).
NA	Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requirements above those for benzene, gasoline and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety components and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	The cargo has not been evaluated/classified for use in vapor control systems.