

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

Certification Date: 12 May 2021 Expiration Date: 12 May 2022

Temporary 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

This Temporary Certificate of Inspection is issued under the provision of Title 46 United States Code, Section 399, in lieu of the regular certificate of inspection, and shall be in force only until the receipt on board said vessel of the original certificate of inspection, this certificate in no case to be valid after one year from the date of inspection.

Vessel Name Official Number Service KIRBY 18603 945147 Tank Barge Hailing Port **Hull Material** Horsepower Propulsion WILMINGTON, DE Steel **UNITED STATES** Place Built **Delivery Date** Keel Laid Date Gross Tons **Net Tons** DWT Length HOUSTON, TX R-1201 R-1201 R-218.0 08Dec1989 01Jul1989 1-0

UNITED STATES

Owner
KIRBY INLAND MARINE LP
55 WAUGH DR STE 1000
HOUSTON, TX 77007
UNITED STATES

Operator

KIRBY INLAND MARINE, LP 18350 MARKET STREET CHANNELVIEW, TX 77530 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---

Also, in fair weather only, limited coastwise, not more than twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

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.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

With this Inspection for Certification having been completed at FREEPORT, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Houston-Galveston certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

	Annual/Peri	odic/Re-Insp	pection	This certificate issued by:
Date	Zone	A/P/R	Signature	E. M. CARRED COR USC 3, BU DIRECTION
				Officer in Charge, Marine Inspection
				Houston-Galveston
				Inspection Zone
			<u> </u>	



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This tank barge is participating in the Eighth and Ninth Coast Guard Districts' Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Sector Houston -Galveston.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Apr2031

06Apr2021

18Jan2011

Internal Structure

30Apr2026

06Apr2021

17Dec2015

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

Authorization:

GRADE A AND LOWER AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

18494

Barrels

Yes

Nο

Nο

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 P/S	425	14.07
2	851	14.07
3	851	14.07
4 P/S	505	14.07

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
1	2161	8ft 6in	14.1	R, LBS
11	2335	9ft Oin	14.1	R, LBS
III	3393	12ft 0in	14.1	R, LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial # C1-2101354, dated May 11, 2021, may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

Per 46 CFR 150.130, the Person in Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the compatibility group numbers from the "Compat Group No" column listed in the vessel's CAA.

The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 14.07 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Per 46 CFR 151.10-15(c)(2) the max tank weights reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.



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In accordance with 46 CFR Part 39, excluding parts 39.4000 and 39.5000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter # C2-2100650 dated March 12, 2021 and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 3 psig P/V valve with Coast Guard Approval 162,017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 3.15 psig.

--- Inspection Status ---

Cargo Tanks

	Internal Exam		External Ex	am	
Tank id	Previous Last	Next	Previous	Last	Next
1 P/S	07Nov2019 06Apr20	21 06Apr2031	-	-	-
2	07Nov2019 06Apr20	21 06Apr2031	-	•	-
3	07Nov2019 06Apr20	21 06Apr2031		-	•
4 P/S	07Nov2019 06Apr20	21 06Apr2031	-	-	-
		Hydro Test			
Tank Id	Safety Valves	Previous	Last	Next	
1 P/S	-	3	-	-	
2	-		-	-	
3	-	-	-	-	
4 P/S	-	-	-	-	

--- 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

2

40-B

END

^{*}Vapor Control Authorization*



Certificate of Inspection

C1-2101354

11-May-21

Dated:

Cargo Authority Attachment

Vessel Name: KIRBY 18603 Shipyard: Platzer
Official #: 945147 Hull #: 293

46 CFR 151 Tank G	Group Characteristi Cargo Identification			ics	Cargo				Carg Tran		Enviror Control	mental	Fire	Special Requirements			1
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1 P/S, #2-#3, #4P/S	14.07	Atmos.	Elev	I	1ii 2ii	Integral Gravity	PV	Closed	I	G-1	NR	NA	Portable	40-1(f)(1), .50-5, .50-5(d), .50-20, .50-21, .50-60, .50-70(a), .50- 70(b), .50-73, .50- 80, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (g), (h), (i), (j), 56- 1(a), (b), (c), (d), (e), (f), (g), 58-1(a), (d), (e),	NR	No

Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.

List of Authorized Cargoes

Cargo Identificatio	Conditions of Carriage									
Name		Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Acetic acid	AAC	4 2	0	D	Ш	Α	Yes	1	.50-73, .55-1(g)	G
Acetic anhydride	ACA	11	0	D	Ш	Α	Yes	1	.50-73, .55-1(g)	G
Acetone cyanohydrin	ACY	0 1,	² O	Е	ı	Α	Yes	3	.50-5, .50-70(b), .50-73, .50-81	G
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G
Acrylic acid	ACR	4 2	0	D	Ш	Α	Yes	2	.50-70(a), .50-73, .50-81, .58-1(a)	G
Acrylonitrile	ACN	15 ²	0	С	Ш	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	Е	Ш	Α	Yes	1	No	G
Alkylbenzenesulfonic acid (greater than 4%)	ABS	0 1,	² O	Е	III	Α	No	N/A	.50-73, .58-1(e)	G
Alkyl (C7-C9) nitrates	AKN	34 ²	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G
Allyl alcohol	ALA	15 ²	0	С	I	Α	Yes	3	.50-5, .50-73	G
Allyl chloride	ALC	15	0	В	I	Α	Yes	3	.50-5	G
Aluminum sulfate solution	ASX	43 ²	O 3	NA	Ш	Α	No	N/A	.58-1(e)	G
Aminoethyl ethanolamine	AEE	8	0	Е	Ш	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 ²	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	III	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Aniline	ANL	9	0	Е	I	Α	Yes	3	.50-5, .50-73	G
Anthracene oil (Coal tar fraction)	АНО	33	0	NA	II	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	III	Α	Yes	1	.50-60	G
Benzene, C10-16 alkyl derivatives	BEND	32	0	D	Ш	Α	No	N/A		G
Benzene and mixtures having 10% Benzene or more	BHB	32 ²	0	С	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	III	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	Ш	Α	Yes	1	.50-60	G
Bis(2-ethylhexyl) terephthalate	PEC	34	0	Е	Ш	Α	No	N/A	No	G
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	ВМН	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	III	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	СРО	18	0	D	Ш	Α	No	N/A	No	G
Carbolic oil	СВО	21	0	E	ı	Α	Yes	3	.50-5, .50-73	G
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	Yes	3	No	G
Caustic potash solution	CPS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G

^{2.} Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.

^{3.} Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18603 Official #: 945147 Shipyard: Platzer

11-May-21

Page 2 of 9 Hull #: 293

Cargo Identificatio	Conditions of Carriage									
3		Comment						ecovery	_	$\overline{}$
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	III	Α	Yes	3	No	G
Chlorohydrins (crude)	CHD	17	0	D	ı	Α	Yes	3	.50-5	G
o-Chloronitrobenzene	CNO	42	0	E	I	Α	No	N/A	.50-5, .50-73	G
Coal tar crude bases	СТВ	9	0	D	I	Α	No	N/A	.50-5, .50-73, .55-1(e)	G
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G
Coal tar pitch (molten)	CTP	33	0	Е	Ш	Α	No	N/A	.50-73	G
Creosote	CCW	21 ²	0	E	Ш	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Ε	Ш	Α	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	21	0	Е	Ш	А	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 ²	0	С	Ш	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 ²	0	С	III	Α	Yes	1	No	G
Cyclohexanone	ССН	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Е	Ш	Α	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	Ш	Α	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	Ш	Α	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	Е	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	Е	Ш	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	Ш	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	III	Α	No	N/A	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1	,2 O	Α	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	Е	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С	Ш	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	Ш	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	Ш	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	Ш	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	Ш	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	Е	Ш	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	III	Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 2	0	E	III	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	III	Α	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	Е	Ш	Α	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С	II	Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E	III	Α	Yes	3	.56-1(b)	G
Dimethyl disulfide	DSK	0	0	С	II	Α	Yes	3	.50-5	G
Dimethylethanolamine	DMB		0	D	III	Α	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	III	Α	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	0	С	II	Α	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	 III	Α	No	N/A		G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	II.	A	No	N/A		G
EE Glycol Ether Mixture	EEG	40	0	<i></i>	III	A	No	N/A		G
Epichlorohydrin	EPC	17	0	D	I	A	Yes	3	.50-5	G
Ethanolamine	MEA	8	0	E	III	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18603

Shipyard: Platzer

11-May-21

Official #: 945147

Page 3 of 9 Hull #: 293

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Cargo Identification						Conditions of Carriage								
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period				
Ethylamine solutions (72% or less)	EAN	7	0	Α	П	Α	No	N/A	.55-1(b)	G				
N-Ethylbutylamine	EBA	7	0	D	Ш	Α	Yes	3	.55-1(b)	G				
N-Ethylcyclohexylamine	ECC	7	0	D	Ш	Α	Yes	1	.55-1(b)	G				
Ethylene chlorohydrin	ECH	20	0	D	I	Α	Yes	3	.50-5, .50-73	G				
Ethylene cyanohydrin	ETC	20	0	Е	Ш	Α	Yes	1	No	G				
Ethylenediamine	EDA	7 2	0	D	Ш	Α	Yes	1	.55-1(c)	G				
Ethylene dichloride	EDC	36 ²	0	С	Ш	Α	Yes	1	No	G				
Ethylene glycol hexyl ether	EGH	40	0	Е	III	Α	No	N/A	No	G				
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	Ш	Α	Yes	1	No	G				
Ethylene glycol propyl ether	EGP	40	0	Ε	Ш	Α	Yes	1	No	G				
2-Ethylhexyl acrylate	EAI	14	0	Е	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G				
Ethyl methacrylate	ETM	14	0	D/E	Ш	Α	Yes	2	.50-70(a)	G				
2-Ethyl-3-propylacrolein	EPA	19 ²	0	Е	Ш	Α	Yes	1	No	G				
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	Ш	Α	Yes	1	.55-1(h)	G				
Formic acid	FMA	4 2	0	Е	Ш	Α	Yes	1	.50-73, .55-1(i)	G				
Furfural	FFA	19	0	D	Ш	Α	Yes	1	.55-1(h)	G				
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	Ш	Α	No	N/A	No	G				
Glyoxylic Acid Solution (50% or less)	GAC	4	0	Е	Ш	Α	No	N/A	.50-73, .50-81, .58-1(e)	G				
Hexamethylenediamine solution	НМС	7	0	Е	Ш	Α	Yes	1	.55-1(c)	G				
Hexamethyleneimine	НМІ	7	0	С	П	Α	Yes	1	.56-1(b), (c)	G				
2-Hydroxyethyl acrylate	HAI	0 1	,2 O	Е	I	Α	Yes	3	.50-5, .50-70(a), .50-73, .50-81(a), (b	G				
Isoprene	IPR	30	0	Α	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G				
Isoprene, Pentadiene mixture	IPN	30	0	В	Ш	Α	No	N/A	.50-70(a), .55-1(c)	G				
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G				
Mesityl oxide	MSO	18 ²	0	D	Ш	Α	Yes	1	No	G				
Methyl acrylate	MAM	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G				
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No	G				
Methyl diethanolamine	MDE	8	0	Е	Ш	Α	Yes	1	.56-1(b), (c)	G				
2-Methyl-5-ethyl pyridine	MEP	9	0	Е	Ш	Α	Yes	1	.55-1(e)	G				
Methyl methacrylate	MMM	l 14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G				
2-Methylpyridine	MPR	9	0	D	Ш	Α	Yes	3	.55-1(c)	G				
alpha-Methylstyrene	MSR	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G				
Morpholine	MPL	7 2	0	D	Ш	Α	Yes	1	.55-1(c)	G				
Naphthalene (molten)	NTM	32	0	С	Ш	Α	Yes	1	No	G				
Nitrobenzene	NTB	42	0	Ε	- 1	Α	Yes	3	.50-5, .50-73	G				
Nitroethane	NTE	42	0	D	II	Α	No	N/A	.50-81, .56-1(b)	G				
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	.50-81	G				
o-Nitrotoluene	NIE	42	0	Е	I	Α	No	N/A	.50-5, .50-73	G				
Olefins (C13+, all isomers)	OFZ	30	0	Е	Ш	Α	Yes	1		G				
1,3-Pentadiene	PDE	30	0	Α	III	Α	No	N/A	.50-70(a), .50-81	G				
Perchloroethylene	PER	36	0	NA	Ш	Α	No	N/A	No	G				
Phthalic anhydride (molten)	PAN	11	0	Е	Ш	Α	Yes	1	No	G				
Polyethylene polyamines	PEB	7 2	0	E	III	Α	Yes	1	.55-1(e)	G				
Potassium chloride solution (brine)	PCSE	3 0	0	NA	Ш	Α	No	N/A		G				
iso-Propanolamine	MPA	8	0	E	III	Α	Yes	1	.55-1(c)	G				
Propanolamine (iso-, n-)	PAX	8	0	Е	Ш	Α	Yes	1	.56-1(b), (c)	G				
Propionic acid	PNA	4	0	D	Ш	Α	Yes	1	.50-73, .55-1(g)	G				



erial #: *C1-2101354* Dated: *11-May-21*

Certificate of Inspection

Cargo Authority Attachment

 Vessel Name:
 KIRBY 18603

 Official #:
 945147

 Page 4 of 9

Shipyard: Platzer

Hull #: 293

Cargo Identification		Conditions of Carriage								
	01	Compat	0.1					Recovery	Special Requirements in 46 CFR	Inon
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of Construction	Insp. Period
Isopropylamine	IPP	7	0	Α	II	Α	No	N/A	.55-1(c)	G
Pyridine	PRD	9	0	С	III	Α	Yes	1	.55-1(e)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1,	² O	NA	III	Α	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,	² O	NA	Ш	Α	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,	² O	NA	III	Α	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,		NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G
Sodium thiocyanate solution (56% or less)	STS	0 ^{1,}	² O ³	NA	Ш	Α	No	N/A	.58-1(a)	G
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Tetrachloroethane	TEC	36	0	NA	Ш	Α	No	N/A	No	G
Tetraethylene pentamine	TTP	7	0	Е	Ш	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	Ш	Α	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	E	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
o-Toluidine	TLI	9	0	E	Ш	Α	Yes	3	.50-5, .50-73	G
1,2,4-Trichlorobenzene	TCB	36	0	E	Ш	Α	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	Ш	Α	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 ²	0	NA	Ш	Α	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	E	Ш	Α	Yes	3	.50-73, .56-1(a)	G
Triethanolamine	TEA	8 ²	0	E	Ш	Α	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	С	Ш	Α	Yes	3	.55-1(e)	G
Triethylenetetramine	TET	7 2	0	Е	III	Α	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	Ш	Α	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanoate	VND	13	0	Е	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	VNT	13	0	D	III	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G
Subchapter D Cargoes Authorized for Vapor Contro										
Acetone	ACT	18 ²		С		Α .	Yes	1		
Acetophenone	ACP	18	D	Е		Α	Yes	1		
Alcohol (C12-C16) poly(20+) ethoxylates	APW	20	D	Е		Α	Yes	1		
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	Е		Α	Yes	1		
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	Е		Α	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1		
Benzyl acetate	BZE	34	D	E		A	Yes	1		
•										
Benzyl alcohol	BAL	21	D	E		A	Yes	1		
								4		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFY	20	D	E		Α	Yes	1		
glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and	BFY	20 34	D	E D		A	Yes	1		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18603

Shipyard: Platzer

Official #: 945147

Page 5 of 9

Hull #: 293

Cargo Identification	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Butyl alcohol (n-)	BAN	20 ²	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 ²	D	С		Α	Yes	1		
tert-Butyl Alcohol	BAT	20 ²	D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	Е		Α	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	Е		Α	Yes	1		
Cycloheptane	CYE	31	D	С		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	Е		Α	Yes	1		
Cyclohexyl acetate	CYC	34	D	D		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
Cyclopentane	CYP	31	D	В		Α	Yes	1		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	IDA	19	D	Е		Α	Yes	1		
n-Decaldehyde	DAL	19	D	Е		Α	Yes	1		
Decanoic acid	DCO	4	D	#		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 ²	D	Е		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		Α	Yes	1		
Diacetone alcohol	DAA	20 ²	D	D		Α	Yes	1		
Dibutyl phthalate	DPA	34	D	Е		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 ²	D	Е		Α	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	Е		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	Е		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	Е		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1		
Dipropylene glycol	DPG	40	D	E		Α	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1		
Distillates: Straight run	DSR	33	D	Е		Α	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	Е		Α	Yes	1		
Ethyl acetate	ETA	34	D	С		Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	Е		Α	Yes	1		



erial #: *C1-2101354* Dated: *11-May-21*

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18603

Shipyard: Platzer

Official #: 945147

Page 6 of 9

Hull #: 293

Corgo Identification							Conditions of Carriage							
Cargo Identification								Venez Pecevery						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period				
Ethyl alcohol	EAL	20 ²	D	С		Α	Yes	1						
Ethylbenzene	ETB	32	D	С		Α	Yes	1						
Ethyl butanol	EBT	20	D	D		Α	Yes	1						
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	1						
Ethyl butyrate	EBR	34	D	D		Α	Yes	1						
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1						
Ethylene glycol	EGL	20 ²	D	Е		Α	Yes	1						
Ethylene glycol butyl ether acetate	EMA	34	D	Е		Α	Yes	1						
Ethylene glycol diacetate	EGY	34	D	Ε		Α	Yes	1						
Ethylene glycol phenyl ether	EPE	40	D	Ε		Α	Yes	1						
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1						
2-Ethylhexanol	EHX	20	D	Ε		Α	Yes	1						
Ethyl propionate	EPR	34	D	С		Α	Yes	1						
Ethyl toluene	ETE	32	D	D		Α	Yes	1						
Formamide	FAM	10	D	Ε		Α	Yes	1						
Furfuryl alcohol	FAL	20 ²	D	Е		Α	Yes	1						
Gasoline blending stocks: Alkylates	GAK	33	D	С		Α	Yes	1						
Gasoline blending stocks: Reformates	GRF	33	D	С		Α	Yes	1						
Gasolines: Automotive (containing not over 4.23 grams lead per gallor	n) GAT	33	D	A/C		Α	Yes	1						
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV	33	D	С		Α	Yes	1						
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1						
Gasolines: Polymer	GPL	33	D	С		Α	Yes	1						
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1						
Glycerine	GCR	20 2	D	Е		Α	Yes	1						
Heptane (all isomers)	HMX	31	D	С		Α	Yes	1						
n-Heptanoic acid	HEN	4	D	Е		Α	Yes	1						
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1						
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2						
Heptyl acetate	HPE	34	D	Е		Α	Yes	1						
Hexane (all isomers)	HXS	31 ²	D	B/C		Α	Yes	1						
Hexanoic acid	НХО	4	D	Е		Α	Yes	1						
Hexanol	HXN	20	D	D		Α	Yes	1						
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2						
Hexylene glycol	HXG	20	D	E		Α	Yes	1						
Isophorone	IPH	18 ²	D	E		Α	Yes	1						
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1						
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1						
Kerosene	KRS	33	D	D		Α	Yes	1						
Lauric acid	LRA	34	D	#		Α	Yes	1						
Methyl acetate	MTT	34	D	D		Α	Yes	1						



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18603

Shipyard: Platzer

Official #: 945147

Page 7 of 9 Hull #: 293

Cargo Identification	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Methyl alcohol	MAL	20 ²	D	С		Α	Yes	1		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1		
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1		
Methyl tert-butyl ether	MBE	41 ²	D	С		Α	Yes	1		_
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1		_
Methyl butyrate	MBU	34	D	С		Α	Yes	1		
Methylcyclohexane	MCY	31	D	С		Α	Yes	1		
Methyl ethyl ketone	MEK	18 ²	D	С		Α	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1		
2-Methyl-2-hydroxy-3-butyne	МНВ	20	D	С		Α	Yes	1		
Methyl isobutyl ketone	MIK	18 ²	D	С		Α	Yes	1		
Mineral spirits	MNS	33	D	D		Α	Yes	1		
Myrcene	MRE	30	D	D		Α	Yes	1		
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1		
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Neodecanoic acid	NEA	4	D	Е		Α	Yes	1		
Nonane (all isomers)	NAX	31	D	D		Α	Yes	1		
Nonene (all isomers)	NON	30	D	D		Α	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 ²	D	Е		Α	Yes	1		
Nonyl phenol	NNP	21	D	Е		Α	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Е		Α	Yes	1		
Octane (all isomers)	OAX	31	D	С		Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	Е		Α	Yes	1		
Octanol (all isomers)	OCX	20 ²	D	Ε		Α	Yes	1		
Octene (all isomers)	OTX	30	D	С		Α	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 6	osx	33	D	Ε		Α	Yes	1		
Oil, misc: Crude	OIL	33	D	A/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	E		Α	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	1		
Oil, misc: Residual	ORL	33	D	Е		Α	Yes	1		
Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes	1		
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1		



erial #: *C1-2101354* Dated: *11-May-21*

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18603

Shipyard: Platzer Hull #: 293

Official #: 945147

Page 8 of 9

7 dgc 5 57 5											
Cargo Identification	Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period	
alpha-Pinene	PIO	30	D	D		Α	Yes	1			
beta-Pinene	PIP	30	D	D		Α	Yes	1			
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	Е		Α	Yes	1			
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	Е		Α	Yes	1			
Polybutene	PLB	30	D	Е		Α	Yes	1			
Polypropylene glycol	PGC	40	D	Ε		Α	Yes	1			
Propionaldehyde	PAD	19	D	С		Α	Yes	2			
Isopropyl acetate	IAC	34	D	С		Α	Yes	1			
n-Propyl acetate	PAT	34	D	С		Α	Yes	1			
Isopropyl alcohol	IPA	20 2	2,3 D	С		Α	Yes	1			
n-Propyl alcohol	PAL	20 ²	. D	С		Α	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1			
Isopropylcyclohexane	IPX	31	D	D		Α	Yes	1			
Propylene glycol	PPG	20 2	. D	Е		Α	Yes	1			
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1			
Propylene tetramer	PTT	30	D	D		Α	Yes	1			
Sulfolane	SFL	39	D	Е		Α	Yes	1			
Tetraethylene glycol	TTG	40	D	Е		Α	Yes	1			
Tetrahydronaphthalene	THN	32	D	Е		Α	Yes	1			
Tetramethylbenzene (all isomers)	TTC	32	D	#		Α	Yes	1			
Toluene	TOL	32	D	С		Α	Yes	1			
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	Е		Α	Yes	1			
Triethylbenzene	TEB	32	D	Е		Α	Yes	1			
Triethylene glycol	TEG	40	D	Е		Α	Yes	1			
Triethyl phosphate	TPS	34	D	Е		Α	Yes	1			
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1			
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	TMP	34	D	Е		Α	Yes	1			
Trixylyl phosphate	TRP	34	D	Е		Α	Yes	1			
1-Undecene	UDC	30	D	D/E		Α	Yes	1			
Undecyl alcohol	UND	20	D	Е		Α	Yes	1			
Xylenes	XLX	32	D	D		Α	Yes	1			

Serial #: C1-2101354

Dated: 11-Mav-21

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 18603 Shipyard: Platzer Hull #: 293 Official #: 945147

Explanation of terms & symbols used in the Table:

Cargo Identification

Name Chem Code none

The propper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2 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.

Compatability 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 Note 2 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 (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.

Subchapter Subchapter D Subchapter O The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified. Those flammable and combustible liquids listed in 46 CFR Table 30.25-1. Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

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

ABC D, E Note 4 Flammable liquid cargoes, as defined in 46 CFR 30-10.22 Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the

NA

cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo. 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

NA

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.

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). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).

Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group Approved (Y or N) The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.

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.

Conditions of Carriage

Vapor Recovery Approved (Y or N) 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.

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.

This requirement is in addition to the requirements of Category 1.

Category 1

(No additional VCS requirements above those for benzene, gasolines 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 39.2011) and the pressure drop calculations (46 CFR 39.3001) 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 componenets 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

Category 3

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 (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 39.2009.

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 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

Category 6 Category 7 (High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5. (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5

The cargo has not been evaluated/classified for use in vapor control systems