

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

Certification Date: 18 Dec 2023 Expiration Date: 18 Dec 2028

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	w	<del></del>							
	10		Official Number	IM	10 Numbo		Call Sign	Service	
KIRBY 1027	0		1249472					Tank E	Barge
Hailing Port						937743 1176			
WILMINGTO	ON, DE		Hull Material		Horsepo	wer	Propulsion		
			Steel						
UNITED ST	ATES								
Place Built			Delivery Date	Keel Laid Da	ate	Gross Tons	Net Tons	DWT	1t
CARUTHER	RSVILLE, MO		27Nov2012			R-705	R-705	DWI	Length R-200.0
UNITED ST	ATES		27Nov2013	U/NOVZ	013	I-	L		I-0
OMITED 31.	ATES			v.					
Owner KIRRY INII A	ND MARINE LE	5			Operator				
55 WAUGH	DRIVE SUITE	1000			KIRBY 18350	INLAND MARKET	MARINE, LP STREET		
HOUSTON,	TX 77007						, TX 77530		
UNITED STA	ATES					D STATE			
This				····					
0 Certified Li	feboatmen, 0 C	With the facetified Ta	ollowing licensed nkermen, 0 HSC	and unlice	ensed I	Personnel	. Included in w	hich there m	ust be
0 Masters		0 Licensed N			ing, an				
0 Chief Mate		0 First Class		Engineers Issistant En	aineera	0 Oi	lers		
0 Second Ma		0 Radio Offic		d Assistant		re			
0 Third Mate		0 Able Seam		Assistant Er		15			
0 Master Firs	18020 00.000 0	0 Ordinary S		ed Engineer					
0 Mate First	Class Pilots	0 Deckhands		ed Member		er			
In addition, the Persons allow	nis vessel may o wed: 0	arry 0 Pas	sengers, 0 Other	Persons i	in crew	, 0 Persoi	ns in addition to	crew, and r	no Others. Total
Route Pern	nitted And Con	ditions Of	Operation:						
			plus Limited	Coast	wise-				
VISIBILITY,	NOT MORE THAN	: IN SEAS	OF LESS THAN T 12) MILES FROM	SHORE BE	) FEET	, WIND LI ST. MARKS	ESS THAN TWEN S AND CARRABE	TY (20) KNO LLE, FLORID	TS AND CLEAR A.
			N THE EIGHTH-NI TIES ABOARD THI						
HOLLOW LEMM	(IMI). INSPEC	110N 1350	ES CONCERNING 1	HIS BARG	E SHOU	LD BE DI	RECTED TO THE	OCMI HOUST	ON-GALVESTON.
THIS VESSEL 21 (b); IF THE	HAS BEEN GRAN	TED A FRE	SH WATER SERVIC IN SALT WATER M	E EXAMIN	ATION SIX (	INTERVAL 6) MONTHS	IN ACCORDANCE IN ANY TWELT	E WITH 46 C VE (12) MON	FR TABLE 31.10- TH PERIOD,
***SEE NE	XT PAGE FOR	ADDITIO	NAL CERTIFIC	ATE INFO	ORMA	TION***			
With this Insp	ection for Certif	ication hav	ing been comple	ted at Hou	uma, L	A, UNITE	D STATES, the	e Officer in C	Charge Marine
mapection, m	ouma, Louisiana regulations pre	a cerunea	ine vessei, in all r	espects, is	s in co	nformity w	ith the applicat	ole vessel ins	pection laws and
and relies and	Annual/Peri	odic/Re-In	spection	1	Thio	contificat		11	, ,
Date	Zone	A/P/R		P	THIS		issued by.	0 /2	
			Oignatui				KIMREY LCD	K USCG, By	/ Direction
					Officer	in Charge, Mar			
					Inspec	tion Zone	Houma,	Louisiana	
					apac	LONG			



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THE VESSEL MUST BE INSPECTED USING SALT WATER INTERVALS PER 46 CFR TABLE 31.10-21(a) AND THE COGNIZANT OCMINOTIFIED IN WRITING AS SOON AS THIS CHANGE IN STATUS OCCURS.

### ---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Dec2028

03Dec2018

27Nov2013

Internal Structure

31Dec2028

18Dec2023

03Dec2018

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

Authorization:

FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity U

Units

Highest Grade Type Part151 Regulated Part153 Regulated

Part153 Regulated Part154 Regulated

10300

Barrels

Yes

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 C/L	694	9.99
2 C/L	639	9.99
3 C/L	635	9.99

### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
11	1388	8ft 9in	13.58	R, LBS, LC
II	1441	9ft 0in	9.99	R, LBS, LC
III	1388	8ft 9in	13.58	R, LBS, LC
Ш	1441	9ft 0in	12.91	R, LBS, LC
Ш	1495	9ft 3in	12.08	R, LBS, LC
Ш	1549	9ft 6in	11.03	R, LBS, LC
Ш	1874	11ft 0in	9.99	R, LBS, LC

#### \*Conditions Of Carriage\*

ONLY THOSE HAZARDOUS CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT, SERIAL NO. C-1-1401421 DATED 28 APR 2014, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED, SUBJECT TO THE LOADING CONSTRAINTS OF THE VESSEL'S CERTIFICATE

PER 46 CFR 150.130, THE PERSON IN CHARGE OF THE BARGE 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 REACTIVE GROUP NUMBER FROM THE "COMPATIBILITY GROUP NO." COLUMN LISTED IN THE VESSEL'S CAA.

PER 46 CFR 151.10-15(c)(2) THE MAX TANK WEIGHTS LISTED BELOW REFLECT UNIFORM (WITHIN 5%) LOADING AT THE DEEPEST DRAFT ALLOWED. WHEN CARRYING SUBCHAPER "O" CARGOES AT SHALLOWER DRAFTS, THE BARGE(S) SHOULD ALWAYS BE LOADED UNIFORMLY.



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WHEN THE VESSEL IS CARRYING CARGOES CONTAINING GREATER THAN 0.5% BENZENE, THE PERSON IN CHARGE IS RESPONSIBLE FOR ENSURING THE PROVISIONS OF 46 U.S. CODE OF FEDERAL REGUALTIONS PART 197, SUBPART C ARE APPLIED.

THE MAXIMUM DESIGN DENSITY OF CARGO WHICH MAY BE FILLED TO THE TANK TOP IS 9.99 LBS/GAL. CARGOES WITH HIGHER DENSITIES, UP TO 13.58 LBS/GAL, MAY BE CARRIED AS SLACK LOADS, BUT SHALL NOT EXCEED THE TANK WEIGHT LIMITS AS LISTED ABOVE.

IN ACCORDANCE WITH 46 CFR PART 39, EXCLUDING PART 39.4000, THIS VESSEL'S VAPOR CONTROL SYSTEM HAS BEEN INSPECTED TO THE PLANS APPROVED BY MARINE SAFETY CENTER LETTERS SERIAL NO. C1-1303374 DATED 18 OCT 2013, AND FOUND ACCEPTABLE FOR COLLECTION OF BULK LIQUID CARGO VAPORS ANNOTATED WITH "YES" IN THE CAA'S VCS COLUMN.

IN ACCORDANCE WITH 46 CFR PART 39.1017 AND 39.5000 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.

### --- Inspection Status ---

### \*Cargo Tanks\*

	Internal Exam			External Exar	m	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 C/L	27Nov2013	03Dec2018	31Dec2028	-	-	-
2 C/L	27Nov2013	03Dec2018	31Dec2028	-	à	-
3 C/L	27Nov2013	03Dec2018	31Dec2028	-	-	-
			Hydro Test			
Tank Id	Safety Valves	3	Previous	Last	Next	
1 C/L	=		-	-	-	
2 C/L	-		-	-	Ē	
3 C/L	-		-	-	-	

## --- 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\*\*\*



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 10270

Official #: 1249472

Shipyard: Trinity Caruthersville

C1-1401421

28-Apr-14

Hull #: 5997-6

Tar	Tank Group Information Cargo Identification		ion		Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements				
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec T Haz C	
A i	#1C, #2C, #3C	13.6	Atmos.	Elev	H	1ii 2ii	Integral Gravity	PV	Closed	н	G-1	NR	NA	Portable	.50-70(a), .50-	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	Yes

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.

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.

List of Authorized Cargoes

Cargo Identificatio	n						, and the second	Condi	tions of Carriage	
	Chem	Compat	Sub		Hull	Tools		ecovery VCS	S	1
Name	Code	Group No		Grade	Type	Tank Group	App'd (Y or N)		Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perior
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	П	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	11	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	0	NA	111	Α	No	N/A	50-81, 50-86	G
Aminoethylethanolamine	AEE	8	0	Е	Ш	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	Α	No	N/A	50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 <sup>2</sup>	0	С	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 <sup>2</sup>	0	С	Ш	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	III	Α	Yes	1	50-60	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	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	55-1(h)	G
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No	G
Caustic potash solution	CPS	5 <sup>2</sup>	0	NA	111	Α	No	N/A	. 50-73, .55-1(j)	G
Caustic soda solution	CSS	5 <sup>2</sup>	0	NA	111	Α	No	N/A	50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E	II	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	Ш	Α	Yes	3	No	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	CCM	/ 21 2	0	Е	Ш	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Е	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		0	Е	111	Α	Yes	1	55-1(1)	G
Crotonaldehyde	CTA	19 <sup>2</sup>	0	С	ū	Α	Yes	4	55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	Vi	. 0	С	111	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	E	Ш	Α	Yes	. 1	56-1 (b)	G



Serial #: C1-1401421 Dated: 28-Apr-14

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Cargo Authority Attachment

Vessel Name: KIRBY 10270 Official #: 1249472

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Shipyard: Trinity Caruthersville

Cargo Identificatio	n						(	Condi	tions of Carriage	
	O.							ecovery		
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perio
Cyclohexylamine	CHA	7	0	D	III	A	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	Α	Yes	1	50-60, 56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	Ш	Α	Yes	2	50-70(a), 50-81(a), (b), 55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	111	Α	Yes	3	56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С	111	A	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	11	A	Yes	1	55-1(f)	G
Dichloromethane	DCM	36	0	NA	111	A	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	Ш	A	No	N/A	56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1.2		A	Ш	A	No	N/A	56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	E	 III	A	No	N/A	56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	C	111	A	Yes	3	No No	G
1,2-Dichloropropane	DPP	36	0	С	111	A	Yes	3	No	
1,3-Dichloropropane	DPC	36	0	C		A	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	11	A	Yes		No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11			4		G
Diethanolamine	DEA	8	0			Α	Yes	1	No.	G
Diethylamine	DEN	7	0	E		A	Yes	1	55-1(c)	G
Diethylenetriamine		7 2		С	111	A	Yes	3	55-1(c)	G
Diisobutylamine	DET		0	E	111	Α	Yes	1	.55-1(c)	G
Diisopropanolamine	DBU	7	0	D		Α	Yes	3	55-1(c)	G
Diisopropylamine	DIP	8	0	E	111	A	Yes	1	55-1(c)	G
The state of the s	DIA	7	0	С	11	Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E	111	A	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB	8	0	D	111	Α	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	Ш	Α	Yes	. 1	55-1(e)	G
Di-n-propylamine	DNA	7	0	С	11	Α	Yes	3	55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	Е	Ш	Α	No	N/A	56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	11	Α	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	Ш	Α	No	N/A	No	G
Ethanolamine	MEA	8	0	Ε	Ш	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	111	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0	Α	11	Α	Yes	6	.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 cyanohydrin	ETC	20	0	E	Ш	Α	Yes	1	No	G
Ethylenediamine	EDA	7 2	0	D	101	Α	Yes	1	55-1(c)	G
Ethylene dichloride	EDC	36 2	0	С	111	Α	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	Е	10	Α	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	111	A	Yes	<u>-</u> -	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	111	A	Yes	2	50-70(a), 50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	A			50-70(a)	
2-Ethyl-3-propylacrolein	EPA	19 2	0	E	111	A	Yes	2	No No	G
ormaldehyde solution (37% to 50%)	FMS	19 2	0	D/E	111		Yes	1	The state of the s	G
Furfural	FFA	19	0	- A to the second		A	Yes		55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19		D	Ш	Α	Yes	1	55-1(h)	G
Hexamethylenediamine solution			0	NA	111	A	No	N/A	No	G
Hexamethyleneimine	HMC	7	0	E	III.	A	Yes	1	55-1(c)	G
	HMI	7	0	C	11	Α	Yes	1	56-1(b), (c)	G



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# Cargo Authority Attachment

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Shipyard: Trinity Caruthersville

Cargo Identification					ourse.		,	Conan	tions 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	Insp. Period
Isoprene	IPR	30	0	Α	111	Α	Yes	7	50-70(a), 50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN		0	В	111	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 <sup>2</sup>	0	D	Ш	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	111	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	E	Ш	Α	Yes	1	56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	14	0	С	111	Α	Yes	2	50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	111	A	Yes	2	50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	111	Α	Yes	1	.55-1(c)	G
Naphthalene (molten)	NTM	32	0	С	111	A	Yes	1	No	G
Nitroethane	NTE	42	0	D	- 11	A	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM		0	D					50-81	G
1.3-Pentadiene		30			111	A	Yes	1	50-70(a), 50-81	
	PDE		0	A		A	Yes	7	No	G
Percfiloroethylene	PER	36	0	NA -		Α	No	N/A		G
Phthalic anhydride (molten)	PAN	11	0	E		A	Yes	1	No	G
Polyethylene polyamines	PEB	7 2	0	E	HI	A	Yes	1	55-1(e)	G
iso-Propanolamine	MPA	8	0	E	111	A	Yes	1	55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	111	Α	Yes	1	56-1(b), (c)	G
iso-Propylamine	IPP	7	0	Α	11	Α	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	Ш	Α	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		111	Α	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	Α	No	N/A	50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1,2	. 0	NA	Ш	Α	No	N/A	50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	Α	No	N/A	50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	111	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	0	NA	111	Α	No	N/A	50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	II	Α	No	N/A	50-73, .55-1(b)	G
Styrene (crude)	STX		0	D	111	Α	Yes	2	No	G
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	50-70(a), 50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	Α	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	E	111	A	Yes		55-1(c)	G
Tetrahydrofuran	THE	41	0	C	III	Α	Yes		.50-70(b)	G
Toluenediamine	TDA	9	0	E	ii	A	No	N/A		G
1,2,4-Trichlorobenzene	TCB	36	0	E	111	A	Yes		No No	G
1,1,2-Trichloroethane	TCM		0	NA.	III	A	Yes		50-73, 56-1(a)	G
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA NA	111	33000	08.252316		No No	G
1,2,3-Trichloropropane	TCN	-	853	75 - 52	332	A .	Yes		.50-73, .56-1(a)	G
- The state of the	20012625	36	0	_ E	- 11	A	Yes		ACCEPTAGE WAS AN ADMINISTRATION OF THE PERSON OF THE PERSO	G
Triethanolamine	TEA	8 2	0	E		A	Yes		.55-1(b)	
Triethylamine	TEN	7	0	C		A	Yes		.55-1(e)	G
Triethylenetetramine	TET	7 2	0	E	01	Α	Yes		55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	<u> </u>	A	No	N/A		G
Trisodium phosphate solution	TSP	5	0	NA	Ш	Α	No	N/A		G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	H	Α	No	N/A	.56-1(b)	G



28-Apr-14

# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 10270 Official #: 1249472

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Shipyard: Trinity Caruthersville

Cargo Identificatio	n						(	Condit	tions of Carriage	
								Recovery		
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	С	Ш	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Vinyl neodecanate	VND	13	0	E	Ш	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	VNT	13	0	D	Ш	Α	Yes	2	50-70(a), 50-81, 56-1(a), (b), (c), (	G
Subchapter D Cargoes Authorized for Vapor Contr	ol.									- Career
Acetone	ACT	18 <sup>2</sup>	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E		Α	Yes	<del>-</del> -	West Control	
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		A	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	 D	E		Α	Yes	1		
Amyl acetate (all isomers)	AEC	34		D		A	Yes	1	-	-
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes			
Benzyl alcohol	BAL	21	D	E		Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and heir borate esters)	BFX	20	D	E	W	A	Yes	1	200.0	
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 2	D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN	20 2	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 2	D	С	-	A	Yes	1		
Butyl alcohol (tert-)	BAT		D	С		A	Yes	1		-
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1	2220 1000	
Butyl toluene	BUE	32	D	D		A	Yes	1		-
Caprolactam solutions	CLS	22	D	E		A	Yes	1		
Cyclohexane	CHX	31	D	С		A	Yes	1		
Cyclohexanol	CHN	20	D	E		A	Yes	1		
,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2		
p-Cymene	CMP	32	D	D		A	Yes	1		
so-Decaldehyde	IDA	19	D	E		A	Yes	1		
-Decaldehyde	DAL	19	D	E		A	Yes	1		
Decene	DCE	30	D	D	late of the second	A	Yes	1	MANUAL TOTAL	- merce
Decyl alcohol (all isomers)	DAX	20 2	D	E		A	Yes	1		
i-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	DAA	20 2	D	D		A	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E	-	A	Yes	1		
Diethylbenzene	DEB	32		D		A	Yes	1		
Diethylene glycol	DEG	40 2	D	E	-	A	Yes	****		
Diisobutylene	DBL	30	D	C			- 40-	1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1	5	
Disopropylbenzene (all isomers)	DIX	32		E		A	Yes	1		
Dimethyl phthalate	DTL	34				Α	Yes	1		
Dioctyl phthalate	DOP	34		E E		Α	Yes	1	The state of the s	2011
Dipentene	DPN	30	-			Α	Yes	1		
Diphenyl	DIL	-	_	D	-	A	Yes	_1		
Diphenyl, Diphenyl ether mixtures	Total Indiana	32		D/E		A .	Yes	1		
Diphenyl ether	DDO	33		E		A	Yes	1		
	DPE	41	D	{E}		Α	Yes	1		
	DDC	40	D	-			1222			
Dipropylene glycol Distillates: Flashed feed stocks	DPG DFF	40 33		E E		A	Yes Yes	1	- Control - Cont	



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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 10270

Official #: 1249472

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Shipyard: Trinity Caruthersville

Cargo Identification	on				1			Condi	tions of Carriage	
						-	THE RESERVED TO A PROPERTY.	Recovery		
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		Α	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1	The second of th	
Ethoxy triglycol (crude)	ETG	40	D	Е		Α	Yes	1		
Ethyl acetate	ETA	34	D	С		Α	Yes	1	- CHARLES IN CONTROL CO.	
Ethyl acetoacetate	EAA	34	D	Е		Α	Yes	1	770 770 770 770 770 770 770 770 770 770	
Ethyl alcohol	EAL	20 <sup>2</sup>	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	77	
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		
Ethylene glycol	EGL	20 2	D	E		Α	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	Е		Α	Yes	1	THE STREET STREET, SHIP OF THE STREET	
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1	Name of the Control o	
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1	***************************************	niganine mi
2-Ethylhexanol	EHX	20	D	E		A	Yes	1		Net see all s
Ethyl propionate	EPR	34	D	С	-1	Α	Yes	1		-
Ethyl toluene	ETE	32	D	D		Α	Yes	1		
Formamide	FAM	10	D	E		A	Yes	1		
Furfuryl alcohol	FAL	20 2	D	E		Α	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C	193000	Α	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1	T	
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		Α	Yes	1		-11
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	A/C		Α	Yes	1		-
Gasolines: Straight run	GSR	33	D	A/C		A	Yes	1		
Glycerine	GCR	20 2	D	E	************	Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1		
Heptanoic acid	HEP	4	D	E		Α	Yes	1	The state of the s	
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1		
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2	5 5 5 114 cm 640 cm	
Heptyl acetate	HPE	34	D	Е		A	Yes	1	The same of the sa	
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		Α	Yes	1	The second of th	
Hexanoic acid	HXO	4	D	E		Α	Yes	1	1.179	
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 <sup>2</sup>	D	E		A	Yes	1		
Jet fuel: JP-4	JPF	33	 D	- <u>-</u>		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1		
Kerosene	KRS	33	D	D		A	Yes	1		
Methyl acetate	MTT	34	D	D		A	Yes	1	Water and the second se	
Methyl alcohol	MAL	20 2	D	С		A	Yes	1		
The state of the s			- T				103			



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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **KIRBY 10270**Official #: 1249472

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Shipyard: Trinity Caruthersville

Cargo Identific	ation							Condi	tions of Carriage	
					6371 14		Vapor	Recovery		T
Name	Chem	Compat Group No	Sub Chapte	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Methylamyl alcohol	MAA	20	D	D	Contract of the Contract of th	Α	Yes	1		
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1		
Methyl tert-butyl ether	. MBE	41 2	D	С		A	Yes	1		1147W
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1		
Methyl butyrate	MBU	34	D	С		A	Yes	1		-
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	С		A	Yes	1	The second secon	
Methyl heptyl ketone	MHK	18	D	D	-/	A	Yes	1		
Methyl isobutyl ketone	MIK	18 2	D	С		A	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		A	Yes	<del>-</del> i		
Mineral spirits	MNS	33	D	D		A	Yes	1		
Myrcene	MRE	30	D	D		A	Yes	1		
Naphtha: Heavy	NAG	33	D	#	W51 155 -	A	Yes	<u>i</u>		
Naphtha: Petroleum	PTN	33	D	#	00/50/50/00	A	Yes	1		
Naphtha: Solvent	NSV	33		D		A	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		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	NON	30		D		A	Yes	2	· · · · · · · · · · · · · · · · · · ·	
Nonyl alcohol (all isomers)	NNS	20 2	D	E		A .	Yes	1		
Nonyl phenol	NNP	21	D	E	-	A	Yes			
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1		- manual -
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		A	2000 C	1		
Octanoic acid (all isomers)	OAY	4	D	E		-	Yes	1		
Octanol (all isomers)	OCX	20 2	D	E	-	A	Yes	1		
Octene (all isomers)	OTX	30	D	C	100000000	_ A	Yes	1		J#110-111-11-11-1
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	2		
Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1		me e
Oil, fuel: No. 4	OFR	33	D			A	Yes	1		
Oil, fuel: No. 5	OFV	33	D	D/E	-	A	Yes	1	NO.	
Oil, fuel: No. 6	OSX	33	D	D/E		Α	Yes	11		
Oil, misc: Crude	OIL	33		E 0/D		Α	Yes	1		
Oil, misc: Diesel	ODS	-	D	C/D		_ A	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	D/E		Α	Yes	1		
Oil, misc: Lubricating		33	D	E		A	Yes	11		
Oil, misc: Residual	OLB	33	D	E		Α	Yes	1		
Oil, misc: Turbine	ORL	33	D -	Е		Α	Yes	1		_
Pentene (all isomers)	ОТВ	33	D	E		A	Yes	1		
n-Pentyl propionate	PTX	30	D	Α		Α	Yes	5		
alpha-Pinene	PPE	34	D	D		Α	Yes	1		
beta-Pinene	PIO	30	D	D		Α	Yes	1		
	PIP	30	D	D		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		Α	Yes	1		************
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate Polybutene	PAF	34	D	E		Α	Yes	1		
·	PLB	30	D	E		A	Yes	1		
Polypropylene glycol	PGC	40	D	E		Α	Yes	1		
iso-Propyl acetate	IAC	34	D	С		Α	Yes	1		
n-Propyl acetate	PAT	34	D	С		Α	Yes	1	14.60	-
iso-Propyl alcohol	IPA	20 2	D	С	7111111	Α	Yes	1		
n-Propyl alcohol	PAL	20 2	D	С	1000-11 lb.	Α	Yes	1		





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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 10270

Official #: 1249472

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Shipyard: Trinity Caruthersville

Cargo Identific	ation					Conditions of Carriage						
Name	Chem	Compat	Sub	Cmds	Hull	Tank	App'd	VCS	Special Requirements in 46 CFR	Insp.		
Name	Code	Group No	Chapter	Glade	Туре	Group	(Y or N)	Category	151 General and Mat'ls of	Period		
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1				
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1				
Propylene glycol	PPG	20 <sup>2</sup>	D	E		Α	Yes	1	18 (100 (100 (100 (100 (100 (100 (100 (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	E		Α	Yes	1	- A CONTRACTOR OF THE CONTRACT			
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1				
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1	Carlotte Andrewson Community Communi			
Toluene	TOL	32	D	С		Α	Yes	1				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		Α	Yes	1		(1)-6-6-65		
Triethylbenzene	TEB	32	D	E		Α	Yes	1				
Triethylene glycol	TEG	40	D	E		Α	Yes	1				
Triethyl phosphate	TPS	34	D	E		Α	Yes	1	Control of the second second second second			
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1				
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1	A Property and the Control of the Co			
Undecene	UDC	30	D	D/E		Α	Yes	1				
1-Undecyl alcohol	ŲND	20	D	E		Α	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		•		



Serial # C1-1401421

Dated: 28-Apr-14

# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10270 Official #: 1249472

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Shipyard: Trinity Caruther

Hull #: 5997-6

### Explanation of terms & symbols used in the Table:

Cargo Identification

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.

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 spedific 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 Note 3

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

A, B, C 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 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 camage 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 unconfrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the unconfrolled release of cargo. See 46 CFR 151.10-1(b)(3). Designed to carry products of sufficient 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 Vapor Recover 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

Tank Group 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: Category 1

The specified cargo's provisional classification for vapor control systems.

(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 39.20-11) 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. (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5

Category 7

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