

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

Certification Date: 04 Mar 2024 Expiration Date: 04 Mar 2025

**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.

Official Number IMO Number Call Sign Vessel Name Tank Barge KIRBY 28196 1250229 Hailing Port Hull Material Horsepower Propulsion WILMINGTON, DE Steel **UNITED STATES** Place Built DWT **Delivery Date** Length Keel Laid Date Gross Tons **Net Tons** ASHLAND CITY, TN R-1306 R-300.0 R-1632 11Dec2013 07Nov2013 1-0 **UNITED STATES** KIRBY INLAND MARINE, LP KIRBY INLAND MARINE LP 18350 MARKET STREET 18350 MARKET ST CHANNELVIEW, TX 77530 CHANNELVIEW, TX 77530 **UNITED STATES 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 Licensed Mates 0 Chief Engineers 0 Masters 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 Deckhands 0 Qualified Member Engineer 0 Mate First Class Pilots 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, 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 per 46 CFR 31.10-21(a)(2). If this vessel is operated in salt water more than 6 months in any 12 month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI 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 \*\*\*SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION\*\*\* With this Inspection for Certification having been completed at Houston, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Sector 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/Periodic/Re-Inspection This certificate issued by

Zone

Date

A/P/R

Signature

Officer in Charge, Marine Inspection

Inspection Zone

Sector Houston-Galveston



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

Certification Date: 04 Mar 2024 **Expiration Date:** 04 Mar 2025

## Temporary Certificate of Inspection

Vessel Name: KIRBY 28196

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 Houston-Galveston.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

28Feb2034

26Feb2024

11Dec2013

Internal Structure

31Jan2029

25Jan2024

09Jan2019

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

Authorization:

Flammable/Combustible Liquids and Specified Hazardous Cargoes

**Total Capacity** 

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

29200

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 P/S

867

13.58

2 P/S

833

13.58

3 P/S

761

13.58

\*Loading Constraints - Stability\*

Hull Type

Maximum Load

Maximum Draft

Max Density

Route Description

Ш

(short tons) 3809

(ft/in) 10ft 0in

(lbs/gal) 13.58

R, LBS, LC 0-12

III

4986

11ft 9in

13.58

R, LBS, LC 0-12

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment(CAA), Serial No. C1-1401403, dated 25APR14, may be carried and then only in the tanks indicated.

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

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

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 letter Serial No. C1-1303556, dated 06 Nov 2013, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the VCS column of the vessel's CAA.

Cargo tank maximum design working pressure is 6.50 psig.

### --- Inspection Status ---

### \*Fuel Tanks\*

Internal Examinations

Tank ID

Previous

Next

AFT MACH DECK

11Dec2013

Last

Page 2 of 3 OMB Approved No. 1625-0057



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

Certification Date: 04 Mar 2024 Expiration Date: 04 Mar 2025

## **Temporary Certificate of Inspection**

Vessel Name: KIRBY 28196

ı	*Cargo Tanks*						
		Internal Exam			External Exam		
	Tank Id	Previous	Last	Next	Previous	Last	Next
	1 P/S	11Dec2013	25Jan2024	31Jan2034	-		-
	2 P/S	11Dec2013	25Jan2024	31Jan2034	H	_	-
	3 P/S	11Dec2013	25Jan2024	31Jan2034	-	-	•
				Hydro Test			
	Tank Id	Safety Valves		Previous	Last	Next	
	1 P/S	- 7		-	-	-	
	2 P/S	<b>-</b> :		. <del></del>		<u>-</u>	
	3 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

Quartit,

B-II

\*\*\*END\*\*\*



Vessel Name: KIRBY 28196

Official #: 1250229

Certificate of Inspection

Cargo Authority Attachment

Shipyard: Trinity Ashland City

Dated:

Serial #: C1-1401403

25-Apr-14

Hull #: 5026

Tank Group Information	Cargo I	dentificat	ion		Cargo		Tanks		Carg Tran		Enviror Control	nmental	Fire	Special Require	ments		
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		Temp
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	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	ATN   37   O   C   III											
							Vapor R		tions of Carriage			
Name				Grade		Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Authorized Subchapter O Cargoes							2.0					
Acetonitrile	ATN	37	0	С	Ш	Α	No	N/A	No	G		
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	П	Α	No	N/A	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	Е	II	Α	Yes	1	No	G		
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G		
Aminoethylethanolamine	AEE	8	0	Е	111	Α	Yes	1	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	A	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	АНО	33	0	NA	11	A	No	N/A	No	G		
Benzene	BNZ	32	0	С		A	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 <sup>2</sup>	0	С		A	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 <sup>2</sup>	0			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	111	Α	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	ВМН	14	0	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С		A	Yes	1	.55-1(h)	G		
Camphor oil (light)	СРО	18	0	D		Α	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	No	N/A	No	G		
Caustic potash solution	CPS	5 <sup>2</sup>	0	NA	111	A	No	N/A	.50-73, .55-1(j)	G		
Caustic soda solution	CSS	5 <sup>2</sup>	0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G		
Chemical Oil (refined, containing phenolics)	COD	21	0	E	II	A	No	N/A	.50-73	G		
Chlorobenzene	CRB	36	0	D	111	A	Yes	1	No	G		
Chloroform	CRF	36	0	NA	III	A	No	N/A	No			
Coal tar naphtha solvent	NCT	33	0	D	III	A	Yes	1	.50-73	G		
Creosote	CCW	21 2	0	E	III	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	E	- 111	Α	Yes	1	No	G		
Cresylate spent caustic	CSC	5	0	NA	111	A	No	N/A	.50-73, .55-1(b)	G		
Cresylic acid tar	CRX		0	E	- 111	Α	Yes	1	.55-1(f)	G		
Crotonaldehyde	СТА	19 <sup>2</sup>	0	С	11	Α	No	N/A	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	Ш	Α	No	N/A	No	G		
Cyclohexanone	ССН	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)			
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	0	E	Ш	Α	Yes	1	.56-1 (b)			
Cyclohexylamine	CHA	7	0	D	111	Α	Yes	1	.56-1(a), (b), (c), (g)	G		

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*

<sup>2.</sup> 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.

<sup>3.</sup> 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 28196 Official #: 1250229

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Shipyard: Trinity Ashland City

25-Apr-14

Cargo Identificatio	n							Condi	tions of Carriage	
-					200 000			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
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	111	Α	No	N/A	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	Е	111	Α	No	N/A	.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	H	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	Ш	Α	Yes	5	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	0	Α	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	Е	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С	111	Α	No	N/A	No	G
1,2-Dichloropropane	DPP	36	0	С	111	Α	No	N/A	No	G
1,3-Dichloropropane	DPC	36	0	С	Ш	Α	No.	N/A	No	G
1,3-Dichloropropene	DPU	15	0	D	11	Α	No	N/A	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	111	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	111	Α	No	N/A	.55-1(c)	G
Diethylenetriamine	DET	7 2	0	Е	III	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	111	Α	No	N/A	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	III	Α	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С	11	Α	No	N/A	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E	III	A	No	N/A	.56-1(b)	G
Dimethylethanolamine	DMB	8	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	11	A	No	N/A	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	111	A	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	III	A	No	N/A	No .	G
Ethanolamine	MEA	8	0	 E	III	A	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	C	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0	A	II	A	No	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	111	A	No	N/A	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0		 III	Α	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E		A	Yes	1	No	G
Ethylenediamine	EDA	7 2	0		111	A	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 <sup>2</sup>	0	C	 	A	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	E	 	Α	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	A	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	III	-		1	No	G
2-Ethylhexyl acrylate	EAI	14	0	 E		Α	Yes	N/A	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	A	No		.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 2	0	E	111	Α	No	N/A	No No	G
Formaldehyde solution (37% to 50%)	FMS	19 2	0	D/E	111	A	Yes	1	.55-1(h)	G
Furfural	FFA	19 -	0	D/E	111	A	Yes	1	.55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0				Yes		.55-1(II) No	G
Hexamethylenediamine solution	HMC	7	0	NA E	111	A	No	N/A	.55-1(c)	G
Hexamethyleneimine	HMI	7	0	C	111	A	Yes	1	.56-1(b), (c)	G
Hydrocarbon 5-9	HFN				-	A	Yes	1	.50-1(b), (c)	G
		20	0	C	- 111	A	Yes	1		
Isoprene	IPR	30	0	Α	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G



Serial #: C1-1401403

ed: 25-Apr-14

## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28196

Official #: 1250229

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Shipyard: Trinity Ashland City

Cargo Identification								Condi	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.
Isoprene, Pentadiene mixture	IPN		0	В	III	A	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	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	. 101	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	Ш	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes		No	G
Methyl diethanolamine	MDE	8	0	Е	111	Α	Yes		.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	Α	Yes		.55-1(e)	G
Methyl methacrylate	MMM	1 14	0	С	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	111	Α	No	N/A	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	III	Α	Yes	1	.55-1(c)	G
Nitroethane	NTE	42	0	D	11	A	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0		111	A	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	A	 	Α	No	N/A	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA		A	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	E	111	A	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	E	111	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	 E	 	A	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	0	Α	<u>   </u>	Α	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	C	<u>''</u>	A	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		III	A	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1,2		NA	111	Α	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2		NA	III	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		NA	Ш	A	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA		Α	No	N/A	.50-73, .55-1(b)	G
Styrene (crude)	STX		0	D	111	A	No	N/A	No	G
Styrene monomer	STY	30	0	D	111	A	No	N/A	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	Α	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	E	III	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0		111	A	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	E	. 11	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene	ТСВ	36	0	E	111	A	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	111	A	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA	111	A	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	E	11	A	No	N/A	.50-73, .56-1(a)	G
Triethanolamine	TEA	8 2	0	E	111	A	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	C	11	A	No	N/A	.55-1(e)	G
Triethylenetetramine	TET	7 2	-0	E	111	A	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA NA	111	A	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	A A	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA NA	111	A A	No	N/A N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	C	111	A	No	N/A	.50-70(a), .50-81(a), (b)	G

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*



Dated:

Serial #: C1-1401403 25-Apr-14

## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28196

Official #: 1250229

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Shipyard: Trinity Ashland City

Cargo Identification	n							Condi	tions of Carriage	
	Chem	Compat	Sub		Hull	Tank	Vapor I App'd	Recovery VCS	Special Requirements in 46 CFR	Insp.
Name	Code	Group No			Туре	Group	(Y or N)		151 General and Mat'ls of	Period
Vinyttoluene	VNT	13	0	D	111	Α	No	N/A	.50-70(a), .50-81, .56-1(a), (b), (c), (	G
Subchapter D Cargoes Authorized for Vapor Contr	ol									
Acetone	ACT	18 <sup>2</sup>	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E		Α	Yes	1	Amora	
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	Е		Α	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		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 alcohol	BAL	21	D	Е		Α	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	Е		Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D	-	Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		A	Yes	1		
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	С		A	Yes	1		
Butyl alcohol (tert-)	BAT		D	C	-	Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	D:	D	a de la	Α	Yes	1		
Caprolactam solutions	CLS	22	D	E	-	A	Yes	1		
Cyclohexane	CHX	31	D	C		Α	Yes	1		
Cyclohexanol	CHN	20	D	E		Α	Yes	1		
p-Cymene	CMP	32	D		NA II	A	Yes	1	y 3' 30 "	
iso-Decaldehyde	IDA	.19	D	E		A	Yes	1		
n-Decaldehyde	DAL	19	D .	E		A	Yes	1		
Decene	DCE	30	D			A	Yes	1		
Decyl alcohol (all isomers)	DAX	20 2	D	E	7.5	A	Yes	1 1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A A	Yes			
Diacetone alcohol	DAA	20 <sup>2</sup>	D	D	ter many make?	A	Yes	1	The second secon	
ortho-Dibutyl phthalate	DPA	34		E		A		1		
Diethylbenzene	DEB	32	D	D		A A	Yes	1		
Diethylene glycol	DEG	40 2	D	E						
Diisobutylene	DBL	30		C		Α	Yes	1		
Disobutyl ketone			D			A	Yes	1		
Diisopropylbenzene (all isomers)	DIK	18	D	D		A	Yes	1		
	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34		<u>E</u>		Α	Yes	11		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl Diphenyl Atheronication	DIL	32	D	D/E		A	Yes	1		
Diphenyl, Diphenyl ether mixtures  Diphenyl ether	DDO	33	D	E		Α .	Yes	1		
Diprierlyi ether  Dipropylene glycol	DPE	41	D	{E}		A	Yes	11		
	DPG	40	D	E		A .	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1		
Distillates: Straight run	DSR	33	D	E		A	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Ą	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1		



Serial #: C1-1401403
Dated: 25-Apr-14

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28196 Official #: 1250229

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Shipyard: Trinity Ashland City

Cargo Identification	n C					1				
Oargo identification	711	7							tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Ethyl acetate	ETA	34	D	С	-	Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		Α	Yes	1		
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		A	Yes	1		
Ethyl butyrate	EBR	34	D	D		A	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1		
Ethylene glycol	EGL	20 2	D	E		A	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1		
Ethylene glycol diacetate	EGY	34	D	E		A	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	 E		A	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1		
2-Ethylhexanol	EHX	20	D	E		A	Yes	1		
Ethyl propionate	EPR	34	D	C		Α	Yes	1		
Ethyl toluene	ETE	32	D	D		A				-
Formamide	FAM	10	D	E			Yes	1		
Furfuryl alcohol	FAL	20 2	D	E		Α	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		A	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	D			Α	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per	GAT	33	D D	A/C C		A	Yes	1		
gallon)							Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С	200000000000000000000000000000000000000	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		Α	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	Е		Α	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1		
Heptyl acetate	HPE	34	D	Е		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		Α	Yes	1		
Hexanoic acid	нхо	4	D	E		Α	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexylene glycol	HXG	20	D	E		Α	Yes	1		
Isophorone	IPH	18 <sup>2</sup>	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		
Methyl acetate	MTT	34	D	D		Α	Yes	1		
Methyl alcohol	MAL	20 <sup>2</sup>	D	С		A	Yes	1		
Methylamyl acetate	MAC	34	D	D		A	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		C		A	Yes	1		
Methyl butyrate	MBU	34	D	С		A	Yes	1		
Methyl ethyl ketone	MEK	18 2	D	С		A	Yes	.1	THE SECOND PROPERTY OF	

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*



Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28196 Official #: 1250229

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Shipyard: Trinity Ashland City

Serial #: C1-1401403

25-Apr-14

Cargo Identifica	tion							Condi	tions of Carriage		
The second		. 14. 15					Vapor 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	
Methyl heptyl ketone	MHK	18	D	D		А	Yes	1			
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	С		Α	Yes	1			
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1.	u u		
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			
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1	-		
Nonyl alcohol (all isomers)	NNS	20 2	D	E		Α	Yes	1			
Nonyl phenol	NNP	21	D	E		Α	Yes	1			
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E	27.55	Α	Yes	1			
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1, 1			
Octanoic acid (all isomers)	OAY	4	D	E	1,190	Α.	Yes	1'	Production of the second		
Octanol (all isomers)	ocx	20 2	D	E	1,10	Α	Yes	1			
Oil, fuel: No. 2	OTW	33	D	D/E	-	Α	Yes	1			
Oil, fuel: No. 2-D	OTD	33	D	D	1. 11	Α	Yes	, , 1			
Oil, fuel: No. 4	OFR	33	D	D/E	.,	Α	Yes	1	THE RESERVE OF THE PROPERTY OF		
Oil, fuel: No. 5	OFV	33	D	D/E	A - 10 A	Α	Yes	1	77 M. T. 198		
Oil, fuel: No. 6	OSX	33	D.	E		Α	Yes	1	3700000 100000 0000000000000000000000000		
Oil, misc: Crude	OIL	33	D	C/D	1,740	Α .	Yes	n := 1 ===	and the same of th	2 11 11 11	
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1			
Oil, misc: Gas, high pour	OGP	33	D	Ε		Α	Yes	1			
Oil, misc: Lubricating	OLB	33	D	E **:	7.7	Α	Yes	1		2 50	
Oil, misc: Residual	ORL	33	· D	E		Α	Yes	1	and the second second	0.00	
Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes	1			
Pentane (all isomers)	PTY	31	D	À		Α	Yes	5			
Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5			
n-Pentyl propionate	PPE	34	D	D		A	Yes	1			
alpha-Pinene	PIO	30	D	D		Α	Yes	1			
beta-Pinene	PIP	30	D	D		Α	Yes	1			
Poly(2-8)alkylene glycoi monoalkyl(C1-C6) ether	PAG	40	D	E		Α	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1			
Polybutene	PLB	30	D	E		A	Yes	. 1			
Polypropylene glycol	PGC	40	D	E		A A	Yes	1			
iso-Propyl acetate	IAC	34	D	C		Α	Yes	1			
n-Propyl acetate	PAT	34	D	C		A	Yes	1		1.	
iso-Propyl alcohol	IPA	20 2	D	C	. 19	A	Yes	1			
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	С	-	A	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1		V.	
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1	2		
Propylene glycol	PPG	20 <sup>2</sup>	D	E		A	Yes	1			
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1	,		
Propylene tetramer	PTT	30	D	D		A	Yes	1			
Sulfolane	SFL	39	D D	E		A	Yes	1			
Tetraethylene glycol	TTG	40	D	E		A	Yes				

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*



erial #: C1-1401403

# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28196
Official #: 1250229

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Shipyard: Trinity Ashland City

	Cargo I	dentif	icatior	1	Ä	71				54.5	Condi	tions of Carriage	
		A4)	1		<u> </u>	10	110				Recovery		
	Name		$-\frac{I}{F_{i}}$	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
Tetrahydronaphthalene		4		THN	32	D	É		Α	Yes	1		
Toluene			30	TOL	32	D	Ć		Α	Yes	1		17
Tricresyl phosphate (less than	1% of the ortho ison	ner)	1	TCP	34	D	E	7.7	Α	Yes	1	(4)	
Triethylbenzene			1	TEB	32	D	Е		A	Yes	1		
Triethylene glycol		7.1	7.	TEG	40	D	E		Α	Yes	1		
Triethyl phosphate	1 1 1 2			TPS	34	D	E	- 1	Ä	Yes	1		e see ,
Trimethylbenzene (all isomers)		100		TRE	32	D	{D}		Α	Yes	1		
Trixylenyl phosphate				TRP	34	D	E		Α	Yes	1	11,	
Undecene		3.4		UDC	30	D	D/E		Α	Yes	1	1.75	
1-Undecyl alcohol				UND	20	D	E		A	Yes	1		
Xylenes (ortho-, meta-, para-)				XLX	32	D			A	Yes	1		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28196

Official #: 1250229

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Shipyard: Trinity Ashland

25-Apr-14

Hull #: 5026

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

Cargo Identification

Name Chem Code 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 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, table 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 lart. 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 Subchanter 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 that grade of cargo.

A. B. C 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

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

Vapor Recovery 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 Recoven 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

Category 7

(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.



Commanding Officer United States Coast Guard Marine Safety Center US Coast Guard Stop 7410 4200 Wilson Blvd., Ste 400 Arlington, VA 20598-7410 Staff Symbol: MSC-3 Phone: (703) 872-6731 Email: msc@uscq.mil

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16710/P018520 Serial: C1-1303556 November 6, 2013

Trinity Marine Products, Inc. Attn: Mr. Matthew Crist, P.E. 1050 Trinity Rd. Ashland City, TN 37015 Email: matthew.crist@trin.net

Subj: KIRBY 28195, CG1269405, Trinity Ashland Hull No. 5025
KIRBY 28196, CG1269406, Trinity Ashland Hull No. 5026
297' x 54' x 12' Unmanned Double Hull Type II/III Tank Barges (D/O)
Grade A (max. 25 psia Reid) and Lower Flammable or Combustible Liquids Identified in
46 CFR Table 30.25-1 or 46 CFR Part 153 Table 2 and Specified Hazardous Cargoes
Design Density 8.7 lbs/gal; Maximum Density (slack load) 13.6 lbs/gal
Rivers; Lakes, Bays, and Sounds; Limited Coastwise on unmanned fair weather voyages
only, not more than 12 miles offshore between St. Marks and Carrabelle, Florida
Vapor Collection System and List of Authorized Cargoes

- Ref: (a) Trinity Marine Products Inc., Dwg. No. P-06, Tag No. 96225, Rev. No. 0 "Vapor Piping Arrangement," 18 sheets, dated August 19, 2013
  - (b) Trinity Marine Products Inc., Tag No. 96225, "Vapor Control System (VCS) Calculations for Dual Loading and Discharge of Subchapter "D" & "O" Products for Kirby Inland Marine LP," dated October 7, 2013
  - (c) Coast Guard Marine Safety Center's "Industry Guidelines for Determining the Maximum Liquid Transfer Rate for a Tank Vessel Transferring a Flammable or Combustible Cargo Using a Vapor Control System" dated July 15, 2001

### Dear Mr. Crist:

In response to your electronic submission dated October 7, 2013 (MSC document Nos. 1316962 and 1316963) we have reviewed the vapor collection system (VCS) piping plan and the vapor control pressure drop calculations for compliance with 46 CFR Part 39, excluding Subpart 39.4000. The VCS piping plan, reference (a), is "Approved." The installation, workmanship and testing shall be to the satisfaction of the cognizant Officer in Charge, Marine Inspection (OCMI). The pressure drop calculations, reference (b are "Examined." Calculations and plans such as these are not normally marked approved, but are used to verify that the system meets the applicable regulations. The following comments apply; those that require action must be addressed to the satisfaction of the OCMI:

1. Based on your calculations, this VCS is capable of recovering vapors of the cargoes listed in enclosure (1) at a maximum vapor-air mixture density of **0.443 lbm/ft**<sup>3</sup>, at a maximum liquid transfer rate of **7,500 bbl/hr**.

16710/P018520 Serial: C1-1303556 November 6, 2013

Subj: KIRBY 28195, CG1269405, Trinity Ashland Hull No. 5025 KIRBY 28196, CG1269406, Trinity Ashland Hull No. 5026 Vapor Collection System and List of Authorized Cargoes

- 2. In accordance with reference (b), the set-point of the overfill shutdown system shall be no higher than 11.5 inches (0.94 feet) below the flange of the gauge.
- 3. The oil transfer procedures shall include a table or graph showing the liquid transfer rate versus the pressure drop, as required by 46 CFR 39.3001(c)(4). This information must be taken from the calculations, tables, and graphs contained within reference (b).
- 4. The tanks share a common vent header, which would allow mixing of various vapors and liquid cargoes. Note this configuration restricts the types of cargoes that can be carried simultaneously.
- 5. Enclosure (1) contains VCS Category 2, 4, and/or 7 cargoes. Polymerization and residue build-up of these cargoes can adversely affect the operation of the vapor collection system. The barge's owner must develop a method for internal visual inspection to verify that fouling of VCS components is not occurring. In addition, vessel owner must test the Pressure-vacuum valves and spill valves prior to each transfer, and ensure vapor piping systems and valves are inspected annually in accordance with 46 CFR 39.2014.
- 6. Vapor collection hoses carried aboard the vessel, if any, must be designed and marked in accordance with the requirements of 46 CFR 39.2001(h). Equipment used for handling vapor collection hoses must be designed to preclude kinking or collapse of the hose as required in 46 CFR 39.2001(l); hose saddles may be acceptable for complying with this requirement.
- 7. Reference (b) contains calculations to justify dual loading operations. After reviewing your calculations, we confirm that you adequately demonstrate that these vessels are capable of conducting dual loading operations. Tandem loading is limited to simultaneous collection of those cargoes listed in the vessels' CAA at a maximum transfer rate of 7,500 bbl/hr per barge. Please note that this letter does not constitute final approval for dual loading as the Marine Safety Center only reviews technical calculations for such operations. For final approval you must submit your request to Commandant (CG-ENG-5) with the name of the facility where the vessels will be conducting dual loading operations.
- 8. In conjunction with this review, we have generated the subject vessel's cargo authority based on the Tank Group Characteristics Loading Form submitted with your email dated October 7, 2013. The 46 CFR 151 Cargo List is attached as enclosure (2).
- 9. The Cargo Authority Attachment (CAA) for each vessel is now available in the Coast Guard's Marine Information for Safety and Law Enforcement (MISLE) database. The CAA contains the cargoes found in enclosures (1) and (2). Please note that only the cognizant OCMI can issue a vessel's CAA, which is valid only when referenced by and attached to a valid Certificate of Inspection (COI). The OCMI will verify the carriage authority and vapor control

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Subj: KIRBY 28195, CG1269405, Trinity Ashland Hull No. 5025 KIRBY 28196, CG1269406, Trinity Ashland Hull No. 5026 Vapor Collection System and List of Authorized Cargoes

tank group characteristics we used to create enclosures (1) and (2) are consistent with the vessel's actual construction. Enclosure (3) contains the VCS tank group characteristics and our recommended COI endorsement.

As a condition of your participation in MSC's electronic commerce program, you must provide a copy of the approved drawings to the OCMI, along with a copy of the corresponding MSC approval letter.

Our Project Number for this vessel is <u>P018520</u>. Please ensure that future correspondence includes the Project Number and the Official Number of each barge.

If you have any questions concerning our review, please contact Lieutenant Ryan Mowbray at the number listed above.

Sincerely,

M. J. SEXTON

Lieutenant, U. S. Coast Guard

Assistant Chief, Tank Vessel and Offshore Division

By direction

Encl: (1) Vapor Collection System List of Cargoes; KIRBY 28195, Trinity Ashland Hull No. 5025 and KIRBY 28196, Trinity Ashland Hull No. 5026; dated November 6, 2013

- (2) 46 CFR Part 151 Cargo List, KIRBY 28195, Trinity Ashland Hull No. 5025 and KIRBY 28196, Trinity Ashland Hull No. 5026; dated November 6, 2013
- (3) VCS PRIS; KIRBY 28195, Trinity Ashland Hull No. 5025 and KIRBY 28196, Trinity Ashland Hull No. 5026; dated November 6, 2013

Copy: Commander, Coast Guard Sector Ohio Valley Commandant, U. S. Coast Guard (CG-ENG-5)