

DEPARTMENT OF  
HOMELAND SECURITY  
U. S. COAST GUARD  
CG-858 (Rev. 8-74)

## CERTIFICATE OF INSPECTION AMENDMENT



NAME OF VESSEL

KIRBY 28114

OFFICIAL NUMBER

1220961

CLASS

TANK BARGE

GROSS TONS

R-1632

HOME PORT

WILMINGTON, DE

WHEN AND WHERE BUILT

31 MAY 2009, ASHLAND CITY, TN

DATE CURRENT CERTIFICATE OF INSPECTION EXPIRES

18 NOV 2024

DATE AND PLACE CURRENT CERTIFICATE OF INSPECTION  
ISSUED

18 NOV 2019, PORT ARTHUR, TX

The Certificate of Inspection issued to the vessel described above is amended as follows:

PER 46 CFR 39.1017 AND 39.5000 (E) THIS VESSEL'S VCS HAS BEEN EVALUATED AND APPROVED FOR MULTI-BREASTED TANDEM LOADING WITH OTHER VESSELS SPECIFICALLY APPROVED TO TANDEM LOAD WITH THIS VESSEL.

THIS/THESE AMENDMENT(S) SHALL AUTOMATICALLY APPEAR ON THE NEXT COI THAT IS ISSUED FOR THIS VESSEL. PLEASE ATTACH THIS FORM TO THE CURRENT COI FOR REFERENCE BY ANY CONCERNED PARTIES.

DATE OF ISSUE

24 FEB 2020

INSPECTION ZONE

PORT ARTHUR, TEXAS

OFFICER IN CHARGE, MARINE INSPECTION

J. J. ANDREW, CDR, USCG, By direction



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

Certification Date: 18 Nov 2019  
Expiration Date: 18 Nov 2024

# 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 KIRBY 28114	Official Number 1220961	IMO Number	Call Sign	Service Tank Barge		
Hailing Port WILMINGTON, DE  UNITED STATES	Hull Material Steel	Horsepower	Propulsion			
Place Built ASHLAND CITY, TN  UNITED STATES	Delivery Date 31Aug2009	Keel Laid Date 31May2009	Gross Tons R-1632 I-	Net Tons R-1632 I-	DWT  I-0	Length R-300.0 I-0
Owner KIRBY INLAND MARINE, LP 55 WAUGH DRIVE SUITE 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 plus Limited Coastwise---**

Also, in fair weather only, 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 and Ninth Coast Guard District's Tank Barge Streamlined

**\*\*\*SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION\*\*\***

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

Annual/Periodic/Re-Inspection				This certificate issued by <i>J.J. Andrew, CDR</i> J.J. ANDREW, CDR, USCG, By direction Officer in Charge, Marine Inspection Marine Safety Unit Port Arthur Inspection Zone
Date	Zone	A/P/R	Signature	
12-22-2020	Gal. ver	A	Jorge Arceaga	
2-10-2022	Corpus Christi	P	Michael W. Johnson	
9-2-22	Hou / GNL	A	Danny E. Murray	
12-28-23	PA TX	A	Dillon Berry	



# Certificate of Inspection

Vessel Name: KIRBY 28114

Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted per 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	31Aug2029	18Nov2019	15Aug2009
Internal Structure	31Oct2024	18Nov2019	24Oct2014

### --- 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
28500	Barrels	A	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	838	13.6
2 P/S	843	13.6
3 P/S	777	13.6

### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3804	10ft 0in	13.6	LBS
II	3804	10ft 0in	13.6	R
III	4680	11ft 9in	13.6	R
III	4680	11ft 9in	13.6	LBS

### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial #C1-0901515, dated May 15, 2009, may be carried. The specified hazardous cargoes may be carried 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 greater benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

### \*Vapor Control Authorization\*

Per 46 CFR 39, excluding Part 39.40, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial Marine Safety Center letters Serial #C1-0901515, dated May 15, 2009, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

### \*Stability and Trim\*

Per 46 CFR 151.10(c)(2), the maximum tank weights listed above reflect uniform (within 5%) loading at the deepest draft



# Certificate of Inspection

Vessel Name: KIRBY 28114

allowed. When carrying Subchapter "O" cargoes at shallower drafts, the barge should always be loaded uniformly.

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 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

### --- Inspection Status ---

#### \*Fuel Tanks\*

Tank ID	Internal Examinations		
	Previous	Last	Next
Aft main deck	-	31Aug2009	-

#### \*Cargo Tanks\*

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1 P/S	31Aug2009	18Nov2019	31Aug2029	-	-	-
2 P/S	31Aug2009	18Nov2019	31Aug2029	-	-	-
3 P/S	31Aug2009	18Nov2019	31Aug2029	-	-	-

#### Hydro Test

Tank Id	Safety Valves		Previous	Last	Next
	Previous	Last			
1 P/S	-	-	-	31Aug2009	-
2 P/S	-	-	-	31Aug2009	-
3 P/S	-	-	-	31Aug2009	-

### ---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	B-II

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



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **KIRBY 28114**

Shipyard: **TRINITY ASHLAND CITY**

Official #: **1220961**

Hull #: **4655**

### 46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Hull Typ	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Protection Provided	Special Requirements		Elec Haz	Temp Cont
Tnk Grp	Tanks in Group	Density	Press.	Temp.			Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space		General	Materials of Construction		
A	#1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	II	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), 81(b),	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.  
 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 Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'is of	Insp. Period	
							App'd (Y or N)	VCS Category			

#### Authorized Subchapter O Cargoes

Acetonitrile	ATN	37	O	C	III	A	Yes	3	No	G
Acrylonitrile	ACN	15 <sup>2</sup>	O	C	II	A	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	O	E	II	A	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	O	NA	III	A	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	O	E	III	A	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	O	NA	III	A	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	O	NA	II	A	No	N/A	No	G
Benzene	BNZ	32	O	C	III	A	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 <sup>2</sup>	O	C	III	A	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 <sup>2</sup>	O	C	III	A	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	O	B/C	III	A	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	BMH	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	O	C	III	A	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	O	D	II	A	No	N/A	No	G
Carbon tetrachloride	CBT	36	O	NA	III	A	No	N/A	No	G
Caustic potash solution	CPS	5 <sup>2</sup>	O	NA	III	A	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 <sup>2</sup>	O	NA	III	A	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	O	E	II	A	No	N/A	.50-73	G
Chlorobenzene	CRB	36	O	D	III	A	Yes	1	No	G
Chloroform	CRF	36	O	NA	III	A	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	O	D	III	A	Yes	1	.50-73	G
Creosote	CCW	21 <sup>2</sup>	O	E	III	A	Yes	1	No	G
Cresols (all isomers)	CRS	21	O	E	III	A	Yes	1	No	G
Cresylate spent caustic	CSC	5	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX		O	E	III	A	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 <sup>2</sup>	O	C	II	A	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		O	C	III	A	No	N/A	No	G
Cyclohexanone	CCH	18	O	D	III	A	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	O	E	III	A	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	O	D	III	A	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	O	D	III	A	Yes	1	.50-60, .56-1(b)	G

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **KIRBY 28114**

Shipyard: TRINITY ASHLAND CITY

Official #: 1220961

Page 2 of 8

Hull #: 4655

Cargo Identification							Conditions of Carriage				
Name	Chem Code IAI	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'ls of 50-70(a), 50-81(a), (b), 55-1(c)	Insp. Period	
							App'd (Y or N)	VCS Category			
iso-Decyl acrylate											
Dichlorobenzene (all isomers)	DBX	36	O	E	III	A	Yes	3	.56-1(a), (b)	G	
1,1-Dichloroethane	DCH	36	O	C	III	A	Yes	1	No	G	
2,2'-Dichloroethyl ether	DEE	41	O	D	II	A	Yes	1	.55-1(f)	G	
Dichloromethane	DCM	36	O	NA	III	A	Yes	5	No	G	
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 <sup>1,2</sup>	O	A	III	A	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 <sup>2</sup>	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G	
1,1-Dichloropropane	DPB	36	O	C	III	A	Yes	3	No	G	
1,2-Dichloropropane	DPP	36	O	C	III	A	Yes	3	No	G	
1,3-Dichloropropane	DPC	36	O	C	III	A	Yes	3	No	G	
1,3-Dichloropropene	DPU	15	O	D	II	A	Yes	4	No	G	
Dichloropropene, Dichloropropane mixtures	DMX	15	O	C	II	A	Yes	1	No	G	
Diethanolamine	DEA	8	O	E	III	A	Yes	1	.55-1(c)	G	
Diethylamine	DEN	7	O	C	III	A	Yes	3	.55-1(c)	G	
Diethylenetriamine	DET	7 <sup>2</sup>	O	E	III	A	Yes	1	.55-1(c)	G	
Diisobutylamine	DBU	7	O	D	III	A	Yes	3	.55-1(c)	G	
Diisopropanolamine	DIP	8	O	E	III	A	Yes	1	.55-1(c)	G	
Diisopropylamine	DIA	7	O	C	II	A	Yes	3	.55-1(c)	G	
N,N-Dimethylacetamide	DAC	10	O	E	III	A	Yes	3	.56-1(b)	G	
Dimethylethanolamine	DMB	8	O	D	III	A	Yes	1	.56-1(b), (c)	G	
Dimethylformamide	DMF	10	O	D	III	A	Yes	1	.55-1(e)	G	
Di-n-propylamine	DNA	7	O	C	II	A	Yes	3	.55-1(c)	G	
Dodecyl dimethylamine, Tetradecyldimethylamine mixture	DOT	7	O	E	III	A	No	N/A	.56-1(b)	G	
Dodecyl diphenyl ether disulfonate solution	DOS	43	O	#	II	A	No	N/A	No	G	
EE Glycol Ether Mixture	EEG	40	O	D	III	A	No	N/A	No	G	
Ethanolamine	MEA	8	O	E	III	A	Yes	1	.55-1(c)	G	
Ethyl acrylate	EAC	14	O	C	III	A	Yes	2	.50-70(a), 50-81(a), (b)	G	
Ethylamine solution (72% or less)	EAN	7	O	A	II	A	Yes	6	.55-1(b)	G	
N-Ethylbutylamine	EBA	7	O	D	III	A	Yes	3	.55-1(b)	G	
N-Ethylcyclohexylamine	ECC	7	O	D	III	A	Yes	1	.55-1(b)	G	
Ethylene cyanohydrin	ETC	20	O	E	III	A	Yes	1	No	G	
Ethylenediamine	EDA	7 <sup>2</sup>	O	D	III	A	Yes	1	.55-1(c)	G	
Ethylene dichloride	EDC	36 <sup>2</sup>	O	C	III	A	Yes	1	No	G	
Ethylene glycol hexyl ether	EGH	40	O	E	III	A	No	N/A	No	G	
Ethylene glycol monoalkyl ethers	EGC	40	O	D/E	III	A	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	O	E	III	A	Yes	1	No	G	
2-Ethylhexyl acrylate	EAI	14	O	E	III	A	Yes	2	.50-70(a), 50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	O	D/E	III	A	Yes	2	.50-70(a)	G	
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	O	E	III	A	Yes	1	No	G	
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	O	D/E	III	A	Yes	1	.55-1(h)	G	
Furfural	FFA	19	O	D	III	A	Yes	1	.55-1(h)	G	
Glutaraldehyde solution (50% or less)	GTA	19	O	NA	III	A	No	N/A	No	G	
Hexamethylenediamine solution	HMC	7	O	E	III	A	Yes	1	.55-1(c)	G	
Hexamethyleneimine	HMI	7	O	C	II	A	Yes	1	.56-1(b), (c)	G	
Hydrocarbon 5-9	HFN		O	C	III	A	Yes	1	.50-70(a), 50-81(a), (b)	G	
Isoprene	IPR	30	O	A	III	A	Yes	7	.50-70(a), 50-81(a), (b)	G	
Isoprene, Pentadiene mixture	IPN		O	B	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	O	NA	III	A	No	N/A	.50-73, 56-1(a), (c), (g)	G	
Mesityl oxide	MSO	18 <sup>2</sup>	O	D	III	A	Yes	1	No	G	

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Shipyard: **TRINITY ASHLAND CITY**

Official #: 1220961

Page 3 of 8

Hull #: 4655

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat's of .50-70(a), .50-81(a), (b)	Insp. Period	
							App'd (Y or N)	VCS Category			
Methyl acrylate	MAM	14	O	C	III	A	Yes	2		G	
Methylcyclopentadiene dimer	MCK	30	O	C	III	A	Yes	1	No	G	
Methyl diethanolamine	MDE	8	O	E	III	A	Yes	1	.56-1(b), (c)	G	
2-Methyl-5-ethylpyridine	MEP	9	O	E	III	A	Yes	1	.55-1(e)	G	
Methyl methacrylate	MMM	14	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
2-Methylpyridine	MPR	9	O	D	III	A	Yes	3	.55-1(c)	G	
alpha-Methylstyrene	MSR	30	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Morpholine	MPL	7 <sup>2</sup>	O	D	III	A	Yes	1	.55-1(c)	G	
1- or 2-Nitropropane	NPM	42	O	D	III	A	Yes	1	.50-81	G	
1,3-Pentadiene	PDE	30	O	A	III	A	Yes	7	.50-70(a), .50-81	G	
Perchloroethylene	PER	36	O	NA	III	A	No	N/A	No	G	
Polyethylene polyamines	PEB	7 <sup>2</sup>	O	E	III	A	Yes	1	.55-1(e)	G	
iso-Propanolamine	MPA	8	O	E	III	A	Yes	1	.55-1(c)	G	
Propanolamine (iso-, n-)	PAX	8	O	E	III	A	Yes	1	.56-1(b), (c)	G	
iso-Propylamine	IPP	7	O	A	II	A	Yes	5	.55-1(c)	G	
Pyridine	PRD	9	O	C	III	A	Yes	1	.55-1(e)	G	
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		O		III	A	No	N/A	.50-73, .55-1(j)	G	
Sodium aluminate solution (45% or less)	SAU	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G	
Sodium chlorate solution (50% or less)	SDD	0 <sup>1,2</sup>	O	NA	III	A	No	N/A	.50-73	G	
Sodium hypochlorite solution (20% or less)	SHQ	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b)	G	
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 <sup>1,2</sup>	O	NA	III	A	Yes	1	.50-73, .55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 <sup>1,2</sup>	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 <sup>1,2</sup>	O	NA	II	A	No	N/A	.50-73, .55-1(b)	G	
Styrene (crude)	STX		O	D	III	A	Yes	2	No	G	
Styrene monomer	STY	30	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
1,1,2,2-Tetrachloroethane	TEC	36	O	NA	III	A	No	N/A	No	G	
Tetraethylenepentamine	TTP	7	O	E	III	A	Yes	1	.55-1(c)	G	
Tetrahydrofuran	THF	41	O	C	III	A	Yes	1	.50-70(b)	G	
Toluenediamine	TDA	9	O	E	II	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G	
1,2,4-Trichlorobenzene	TCB	36	O	E	III	A	Yes	1	No	G	
1,1,2-Trichloroethane	TCM	36	O	NA	III	A	Yes	1	.50-73, .56-1(a)	G	
Trichloroethylene	TCL	36 <sup>2</sup>	O	NA	III	A	Yes	1	No	G	
1,2,3-Trichloropropane	TCN	36	O	E	II	A	Yes	3	.50-73, .56-1(a)	G	
Triethanolamine	TEA	8 <sup>2</sup>	O	E	III	A	Yes	1	.55-1(b)	G	
Triethylamine	TEN	7	O	C	II	A	Yes	3	.55-1(e)	G	
Triethylenetetramine	TET	7 <sup>2</sup>	O	E	III	A	Yes	1	.55-1(b)	G	
Triphenylborane (10% or less), caustic soda solution	TPB	5	O	NA	III	A	No	N/A	.56-1(a), (b), (c)	G	
Trisodium phosphate solution	TSP	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c)	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	O	NA	III	A	No	N/A	.56-1(b)	G	
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Vinyl acetate	VAM	13	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Vinyl neodecanate	VND	13	O	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G	
Vinyltoluene	VNT	13	O	D	III	A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G	

### Subchapter D Cargoes Authorized for Vapor Control

Acetone	ACT	18 <sup>2</sup>	D	C		A	Yes	1		
Acetophenone	ACP	18	D	E		A	Yes	1		
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		A	Yes	1		

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **KIRBY 28114**

Shipyard: TRINITY ASHLAND  
CITY

Official #: 1220961

Page 4 of 8

Hull #: 4655

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat's of	Insp. Period	
							App'd (Y or N)	VCS Category			
Amyl acetate (all isomers)	AEC	34	D	D		A	Yes	1			
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes	1			
Benzyl alcohol	BAL	21	D	E		A	Yes	1			
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		A	Yes	1			
Butyl acetate (all isomers)	BAX	34	D	D		A	Yes	1			
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		A	Yes	1			
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		A	Yes	1			
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	C		A	Yes	1			
Butyl alcohol (tert-)	BAT		D	C		A	Yes	1			
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1			
Butyl toluene	BUE	32	D	D		A	Yes	1			
Caprolactam solutions	CLS	22	D	E		A	Yes	1			
Cyclohexane	CHX	31	D	C		A	Yes	1			
Cyclohexanol	CHN	20	D	E		A	Yes	1			
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2			
p-Cymene	CMP	32	D	D		A	Yes	1			
iso-Decaldehyde	IDA	19	D	E		A	Yes	1			
n-Decaldehyde	DAL	19	D	E		A	Yes	1			
Decene	DCE	30	D	D		A	Yes	1			
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	E		A	Yes	1			
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1			
Diacetone alcohol	DAA	20 <sup>2</sup>	D	D		A	Yes	1			
ortho-Dibutyl phthalate	DPA	34	D	E		A	Yes	1			
Diethylbenzene	DEB	32	D	D		A	Yes	1			
Diethylene glycol	DEG	40 <sup>2</sup>	D	E		A	Yes	1			
Diisobutylene	DBL	30	D	C		A	Yes	1			
Diisobutyl ketone	DIK	18	D	D		A	Yes	1			
Diisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes	1			
Dimethyl phthalate	DTL	34	D	E		A	Yes	1			
Diocetyl phthalate	DOP	34	D	E		A	Yes	1			
Dipentene	DPN	30	D	D		A	Yes	1			
Diphenyl	DIL	32	D	D/E		A	Yes	1			
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1			
Diphenyl ether	DPE	41	D	{E}		A	Yes	1			
Dipropylene glycol	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		A	Yes	1			
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1			
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1			
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1			
Ethyl acetate	ETA	34	D	C		A	Yes	1			
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1			
Ethyl alcohol	EAL	20 <sup>2</sup>	D	C		A	Yes	1			
Ethylbenzene	ETB	32	D	C		A	Yes	1			
Ethyl butanol	EBT	20	D	D		A	Yes	1			
Ethyl tert-butyl ether	EBE	41	D	C		A	Yes	1			
Ethyl butyrate	EBR	34	D	D		A	Yes	1			
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1			

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **KIRBY 28114**

Shipyard: **TRINITY ASHLAND CITY**

Official #: 1220961

Page 5 of 8

Hull #: 4655

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'l's of	Insp. Period	
							App'd (Y or N)	VCS Category			
Ethylene glycol	EGL	20 <sup>2</sup>	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		A	Yes	1			
2-Ethylhexanol	EHX	20	D	E		A	Yes	1			
Ethyl propionate	EPR	34	D	C		A	Yes	1			
Ethyl toluene	ETE	32	D	D		A	Yes	1			
Formamide	FAM	10	D	E		A	Yes	1			
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	E		A	Yes	1			
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		A	Yes	1			
Gasoline blending stocks: Reformates	GRF	33	D	A/C		A	Yes	1			
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	C		A	Yes	1			
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	C		A	Yes	1			
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1			
Gasolines: Polymer	GPL	33	D	A/C		A	Yes	1			
Gasolines: Straight run	GSR	33	D	A/C		A	Yes	1			
Glycerine	GCR	20 <sup>2</sup>	D	E		A	Yes	1			
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	C		A	Yes	1			
Heptanoic acid	HEP	4	D	E		A	Yes	1			
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1			
Heptene (all isomers)	HPX	30	D	C		A	Yes	2			
Heptyl acetate	HPE	34	D	E		A	Yes	1			
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		A	Yes	1			
Hexanoic acid	HXO	4	D	E		A	Yes	1			
Hexanol	HXN	20	D	D		A	Yes	1			
Hexene (all isomers)	HEX	30	D	C		A	Yes	2			
Hexylene glycol	HXG	20	D	E		A	Yes	1			
Isophorone	IPH	18 <sup>2</sup>	D	E		A	Yes	1			
Jet fuel: JP-4	JPF	33	D	E		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			
Methyl alcohol	MAL	20 <sup>2</sup>	D	C		A	Yes	1			
Methylamyl acetate	MAC	34	D	D		A	Yes	1			
Methylamyl alcohol	MAA	20	D	D		A	Yes	1			
Methyl amyl ketone	MAK	18	D	D		A	Yes	1			
Methyl tert-butyl ether	MBE	41 <sup>2</sup>	D	C		A	Yes	1			
Methyl butyl ketone	MBK	18	D	C		A	Yes	1			
Methyl butyrate	MBU	34	D	C		A	Yes	1			
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	C		A	Yes	1			
Methyl heptyl ketone	MHK	18	D	D		A	Yes	1			
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	C		A	Yes	1			
Methyl naphthalene (molten)	MNA	32	D	E		A	Yes	1			
Mineral spirits	MNS	33	D	D		A	Yes	1			
Myrcene	MRE	30	D	D		A	Yes	1			
Naphtha: Heavy	NAG	33	D	#		A	Yes	1			
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1			
Naphtha: Solvent	NSV	33	D	D		A	Yes	1			

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **KIRBY 28114**

Shipyard: TRINITY ASHLAND  
CITY

Official #: 1220961

Page 6 of 8

Hull #: 4655

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Tvoe	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat's of	Insp. Period	
							App'd (Y or N)	VCS Category			
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1			
Naphtha: Varnish makers and painters (75%)	NVM	33	D	C		A	Yes	1			
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1			
Nonene (all isomers)	NON	30	D	D		A	Yes	2			
Nonyl alcohol (all isomers)	NNS	20 <sup>2</sup>	D	E		A	Yes	1			
Nonyl phenol	NNP	21	D	E		A	Yes	1			
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1			
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		A	Yes	1			
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1			
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	E		A	Yes	1			
Octene (all isomers)	OTX	30	D	C		A	Yes	2			
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1			
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1			
Oil, fuel: No. 4	OFR	33	D	D/E		A	Yes	1			
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes	1			
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1			
Oil, misc: Crude	OIL	33	D	C/D		A	Yes	1			
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1			
Oil, misc: Gas, high pour	OGP	33	D	E		A	Yes	1			
Oil, misc: Lubricating	OLB	33	D	E		A	Yes	1			
Oil, misc: Residual	ORL	33	D	E		A	Yes	1			
Oil, misc: Turbine	OTB	33	D	E		A	Yes	1			
Pentane (all isomers)	PTY	31	D	A		A	Yes	5			
Pentene (all isomers)	PTX	30	D	A		A	Yes	5			
alpha-Pinene	PIO	30	D	D		A	Yes	1			
beta-Pinene	PIP	30	D	D		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1			
Polybutene	PLB	30	D	E		A	Yes	1			
Polypropylene glycol	PGC	40	D	E		A	Yes	1			
iso-Propyl acetate	IAC	34	D	C		A	Yes	1			
n-Propyl acetate	PAT	34	D	C		A	Yes	1			
iso-Propyl alcohol	IPA	20 <sup>2</sup>	D	C		A	Yes	1			
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	C		A	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1			
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1			
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	E		A	Yes	1			
Tetraethylene glycol	TTG	40	D	E		A	Yes	1			
Tetrahydronaphthalene	THN	32	D	E		A	Yes	1			
Toluene	TOL	32	D	C		A	Yes	1			
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	1			
Triethylbenzene	TEB	32	D	E		A	Yes	1			
Triethylene glycol	TEG	40	D	E		A	Yes	1			
Triethyl phosphate	TPS	34	D	E		A	Yes	1			
Trimethylbenzene (all isomers)	TRE	32	D	{D}		A	Yes	1			
Trixylenyl phosphate	TRP	34	D	E		A	Yes	1			
Undecene	UDC	30	D	D/E		A	Yes	1			



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28114

Shipyard: TRINITY ASHLAND  
CITY

Official #: 1220961

Page 7 of 8

Hull #: 4655

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
							App'd (Y or N)	VCS Category			
1-Undecyl alcohol	UND	20	D	E		A	Yes	1			
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1			



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **KIRBY 28114**  
Official #: 1220961

Page 8 of 8

Shipyard: TRINITY ASHL  
Hull #: 4655

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

#### Cargo Identification

Name	The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code none	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatibility Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 372-1425.
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatibility chart.
Subchapter	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.
Subchapter D	Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.
Subchapter O	Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.
Note 3	Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades inside of " { } " indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
A, B, C	Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E	Combustible liquid cargoes, as defined in 46 CFR 30-10.15.
Note 4	The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
NA	Those subchapter O cargoes which are not classified as a flammable or combustible liquid.
#	No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.
Hull Type	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
I	Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1).
II	Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).
III	Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).
NA	Not applicable to barges certificated under Subchapter D.

#### Conditions of Carriage

Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo.
Approved (Y or N)	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	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo.
Approved (Y or N)	No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requirements above those for benzene, 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.
none	The cargo has not been evaluated/classified for use in vapor control systems.

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commandant  
United States Coast Guard

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16703/46-39/2014-471  
16JUN2014

Mr. Ashraf Degedy  
Design Associates, Inc.  
1508 Gause Blvd., Suite 203-206  
Slidell, LA 70460

Subj: MULTI-BREASTED TANDEM LOADING UNDER VAPOR CONTROL FOR KIRBY  
CORPORATION BARGES AT RE-CERTIFIED FACILITIES

Ref: (a) USCG Commandant (CG-ENG-5) letter 16703/46-39/2014-364 dated May 15, 2014

Dear Mr. Degedy:

This letter is in response to your email dated June 1, 2014, which requested my approval to allow Kirby Corporation barges to perform multi-breasted dual barge loading under vapor control at 24 facilities. Per reference (a), the barges listed in enclosure (1) are acceptable by the U. S. Coast Guard Marine Safety Center (MSC) for conducting multi-breasted tandem loading operations at a specified maximum transfer rate and certain conditions.

Per our records, the 24 facilities listed below are approved for conducting multi-breasted tandem loading under vapor control:

Approved Facilities	Location
Motiva Norco	Norco, LA
Marquis Energy	Caruthersville, MO
Shell Oil (East, Center, and West Docks)	Deer Park, TX
Total	Port Arthur, TX
Phillips 66 (previously Conoco Phillips), (Berths 2BE, 2BW, 3)	Westlake, LA
Sunoco Logistics Facility	Nederland, TX
Texas International Terminals	Galveston, TX
Chevron Beaumont Terminal	Nederland, TX
Valero, St. Charles Refinery	Norco, LA
International Matex Tank Terminals	St. Rose, LA
NuStar	Corpus Christi, TX
GulfMark Energy	Victoria, TX
Marathon Galveston Bay Refinery (previously BP Products North America, Inc.) (Docks 32N, 32S, 33, 34, 37, 38)	Texas City, TX
Motiva	Port Arthur, TX
Calcasieu Refining Company	Lake Charles, LA
Nustar	St. James, LA
Enterprise Products, Morgan's Point Terminal	La Porte, TX
Plains Marketing, L.P.	Corpus Christi, TX

**Subj: MULTI-BREASTED TANDEM LOADING UNDER VAPOR CONTROL FOR KIRBY CORPORATION BARGES AT RE-CERTIFIED FACILITIES**

GT Logistics, Taylor Barge Dock 1 & 2	Port Arthur, TX
CITGO	Corpus Christi, TX
CITGO	Lake Charles, LA
Crosstex (Mermentau King Dock)	Jennings, LA
Valero (Oil Docks 3, 4, 7, 11)	Corpus Christi, TX
Oiltanking Beaumont (B Dock and South Dock)	Beaumont, TX

The Kirby barges listed in enclosure (1) are hereby approved for conducting multi-breasted tandem loading under vapor control at the 24 facilities listed above, subject to the following 12 conditions:

- a. Such loading operations of these barges shall be limited to loading of cargoes listed on each of the two barge's Cargo Authority Attachment (CAA) and simultaneously on the facility's marine VCS certifying letters where the loading operation will be conducted. The maximum cargo transfer rate during tandem loading shall be as specified by the MSC in their dual barge loading approval letter for these barges.
- b. Such loading operations in the same evolution shall be limited to no more than two of the barges approved, and shall be in accordance with any additional conditions imposed by the Coast Guard MSC in their multi-breasted tandem loading operation approval letter for these barges.
- c. Such operations shall only be conducted at the facilities specified above. The VCSs at the 24 facilities have been recertified by a Coast Guard accepted facility VCS certifying entity for the operation.
- d. While conducting multi-breasted tandem loading operations, the vapor header on the inboard barge must be in alignment with the vapor header on the outboard barge. The diameter of the vapor header on the inboard barge must be at least as large as the diameter of the largest vapor header on the outboard barge. The vapor headers must be marked in accordance with the requirements of 46 CFR part 39.2001(h). The vapor header and its flanges must meet all applicable requirements of 46 CFR part 39 for vapor headers and flanges. The vapor connection flange on each vapor crossover header must have a stud permanently attached in accordance with the requirements of 46 CFR part 39.2001(j).
- e. The diameter of the vapor crossover hose must be at least as large as the diameter of the largest vapor header on the outboard barge. The length of the vapor crossover hose must not exceed 25 feet between the two barges. The crossover vapor hose must meet the requirements of 46 CFR part 39.2001(i) and be marked in accordance with the requirements of 46 CFR part 39.2001(h).
- f. The cargo transfer procedures shall reflect the proper alignment of a facility VCS to the vapor collection system on the inboard and outboard barges. Similarly, the cargo transfer procedures shall include procedures for disconnecting the facility VCS from both barges. These transfer procedures shall also address the proper connection of the facility VCS alarm/shutdown system to the alarm/shutdown systems of the barges being loaded. A copy of this letter shall be attached to the barge transfer procedures.

**Subj: MULTI-BREASTED TANDEM LOADING UNDER VAPOR CONTROL FOR KIRBY CORPORATION BARGES AT RE-CERTIFIED FACILITIES**

- g. Each cargo tank on both barges must be equipped with a liquid overfill protection system that meets the requirements of 46 CFR part 39.2009. Each cargo tank on both barges also must be equipped with either sight glasses with gauge trees or sight glasses and stick gauges, which indicate when the cargo level in each tank is within one meter of the deck.**
- h. Both barges must be fitted with mated transverse cargo and vapor manifolds, which are in alignment and are at least as large as the vapor line.**
- i. Each barge must have a licensed tankerman to act as the person in charge (PIC) who is trained and familiar with dual barge loading operations. The barge PICs must maintain constant communication with each other and with the facility PIC throughout the transfer operation via a portable radio which meets the requirements of 33 CFR part 155.785.**
- j. The principles for controlling arcing during barge-to-barge transfer are similar to those associated with barge-to-shore transfer. Electric currents must be controlled in accordance with Section 11.9 of the OCIMF publication, "International Safety Guide for Oil Tankers and Terminals (ISGOTT) Fifth Edition." Accordingly, either an insulating flange or a single length of non-conducting hose shall be installed between the barges during vapor transfer. If an insulating flange is used, it shall be connected to the vapor header on the inboard barge. This insulating flange or non-conducting hose shall be in addition to the insulating requirements for the barge-to-shore transfer connection.**
- k. If multi-breasted tandem loading will be conducted using more than one liquid transfer hose from the shore facility, the facility must be capable of activating the emergency shutdown system required by 33 CFR part 154.550. This shall stop the cargo flow to each transfer hose simultaneously in the event an emergency condition occurs that closes the remotely operated cargo vapor shutoff valve in the facility's vapor control system. Multi-breasted tandem loading using more than one liquid transfer hose from the shore facility is prohibited unless the shore facility can comply with this requirement.**
- l. Kirby Corp. shall contact the local Coast Guard Captain of the Port (COTP) in whose zone the loading facilities are located, to ascertain if there is any additional operational requirement for this type of loading operation. Any additional requirement imposed by the local COTP along with the conditions of operation described in this letter, shall be incorporated in the vessel transfer procedures for each barge listed in this letter.**

Kirby Corp. shall provide a copy of this letter to each of the 24 facilities listed in this letter. If you have any questions concerning this matter, please contact LT Jodi Min, of my staff at (202) 372-1418, e-mail: [Jodi.j.min@uscg.mil](mailto:Jodi.j.min@uscg.mil).

Sincerely,



P. A. Keffler  
Acting Chief, Hazardous Materials Division  
By direction of the Commandant

Enclosure: (1) List of applicable barges

16703/46-39/2014-471  
16JUN2014

**Subj: MULTI-BREASTED TANDEM LOADING UNDER VAPOR CONTROL FOR KIRBY  
CORPORATION BARGES AT RE-CERTIFIED FACILITIES**

**Copy: Sector Houston-Galveston  
Sector Corpus Christi  
Sector Lower Mississippi River  
Sector New Orleans  
MSU Lake Charles  
MSU Port Arthur  
MSC, Tank Vessel and Offshore Division  
CG-FAC-2**



5	KIRBY 28104	ON 1219322	Trinity Marine, Ashland City Hull 4608
6	KIRBY 28105	ON 1219323	Trinity Marine, Ashland City Hull 4609
7	KIRBY 28106	ON 1219324	Trinity Marine, Ashland City Hull 4618
8	KIRBY 28107	ON 1219325	Trinity Marine, Ashland City Hull 4619
9	KIRBY 28108	ON 1220272	Trinity Marine, Ashland City Hull 4620
10	KIRBY 28109	ON 1220274	Trinity Marine, Ashland City Hull 4627
11	KIRBY 28110	ON 1220275	Trinity Marine, Ashland City Hull 4628
12	KIRBY 28111	ON 1220276	Trinity Marine, Ashland City Hull 4629
13	KIRBY 28112	ON 1220958	Trinity Marine, Ashland City Hull 4630
14	KIRBY 28113	ON 1220959	Trinity Marine, Ashland City Hull 4631
15	KIRBY 28114	ON 1220961	Trinity Marine, Ashland City Hull 4655
16	KIRBY 28115	ON 1220962	Trinity Marine, Ashland City Hull 4658
17	KIRBY 28116	ON 1220963	Trinity Marine, Ashland City Hull 4659
18	KIRBY 28117	ON 1221772	Trinity Marine, Ashland City Hull 4660
19	KIRBY 28118	CG 1003467	Trinity Marine, Ashland City Hull 4661
20	KIRBY 28119	CG 1003469	Trinity Marine, Ashland City Hull 4662

(d) Per USCG MSC letter 16710/P009946, Serial C2-0902660 dated September 25, 2009, the following Kirby barges are accepted by the USCG MSC for dual loading operations under conditions as specified.

	Vessel Name	Official No.	Yard and Hull No.
1	KIRBY 28060	ON 1151555	Trinity Marine, Ashland City Hull 4460
2	KIRBY 28061	ON 1151556	Trinity Marine, Ashland City Hull 4461
3	KIRBY 28062	ON 1151557	Trinity Marine, Ashland City Hull 4462
4	KIRBY 28063	ON 1151558	Trinity Marine, Ashland City Hull 4463
5	KIRBY 28064	ON 1158897	Trinity Marine, Ashland City Hull 4469
6	KIRBY 28065	ON 1158899	Trinity Marine, Ashland City Hull 4470
7	KIRBY 28066	ON 1158900	Trinity Marine, Ashland City Hull 4471
8	KIRBY 28067	ON 1158901	Trinity Marine, Ashland City Hull 4472
9	KIRBY 28068	ON 1158902	Trinity Marine, Ashland City Hull 4473
10	KIRBY 28069	ON 1166461	Trinity Marine, Ashland City Hull 4481
11	KIRBY 28070	ON 1166451	Trinity Marine, Ashland City Hull 4482
12	KIRBY 28071	ON 1166462	Trinity Marine, Ashland City Hull 4483
13	KIRBY 28072	ON 1166463	Trinity Marine, Ashland City Hull 4484

(e) Per USCG MSC letter 16710/P015198, Serial C2-0902662 dated September 25, 2009, the following Kirby barges are accepted by the USCG MSC for dual loading operations under conditions as specified.

	Vessel Name	Official No.	Yard and Hull No.
1	KIRBY 29014	ON 1045800	Trinity Platzer Hull E334

(f) Per USCG MSC letter 16710/P012891, Serial C1-1000483 dated March 2, 2010, the following Kirby barges are accepted by the USCG MSC for dual loading operations under conditions as specified.

**ENCLOSURE(1)**