

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

Certification Date: 10 Oct 2019 Expiration Date: 10 Oct 2020

Temporary Certificate of Inspection

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

This Temporary Certificate of Inspection is issued under the provision of Title 46 United States Code, Section 399, in lieu of the regular certificate of inspection, and shall be in force only until the receipt on board said vessel of the original certificate of inspection, this certificate in no case to be valid after one year from the date of inspection. Vessel Name Official Number IMO Number Call Sign **KIRBY 27735** 1245358 Tank Barge Hailing Port **Hull Material** Horsepower Propulsion HOUMA, LA Steel **UNITED STATES** Place Built Delivery Date Keel Laid Date Gross Tons **Net Tons** DWT Length MADISONVILLE, LA R-1619 R-1619 R-297.6 08Aug2014 27Jun2014 1-0 **UNITED STATES** Operator KIRBY INLAND MARINE LP KIRBY INLAND MARINE 55 WAUGH DRIVE SUITE 1000 16402 1/2 DE ZAVALA HOUSTON, TX 77007 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 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---

LIMITED COASTWISE SERVICE: IN SEAS OF LESS THAN THREE (03) FEET, WIND LESS THAN TWENTY (20) KNOTS AND CLEAR VISIBILITY, NOT MORE THAN TWELVE (12) MILES FROM SHORE BETWEEN ST. MARKS AND CARRABELLE, FLORIDA.

THIS VESSEL HAS BEEN GRANTED A FRESH WATER SERVICE EXAMINATION INTERVAL IN ACCORDANCE WITH 46 CFR TABLE 31.10-21(b); IF THIS VESSEL IS OPERATED IN SALT WATER MORE THAN SIX (6) MONTHS IN ANY TWELVE (12) MONTH PERIOD, THE VESSEL MUST BE INSPECTED USING SALT WATER INTERVALS PER 46 CFR TABLE 31.10-21(a) AND THE COGNIZANT OCMI NOTIFIED IN WRITING AS SOON AS THIS CHANGE IN STATUS OCCURS.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

	Annual/Perio	odic/Re-Inspec	ction	This certificate issued by
Date	Zone	A/P/R	Signature	M. M. SPOLARICH LEDR USCG, By Direction
	_ 			Officer in Charge, Manne Inspection
				Houma, Louisiana
				Inspection Zone



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

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Temporary Certificate of Inspection

Vessel Name: KIRBY 27735

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Aug2024

11Aug2014

Internal Structure

31Aug2024

03Oct2019

11Aug2014

--- 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

28575

Barrels

Yes

No

No

Hazardous Bulk Solids Authority

Loading Constraints - Structural

Tank Number

Max Cargo Weight per Tank (short tons)

Maximum Density (lbs/gal)

1 P/S

865

13.66

2 P/S

822

13.66

3 P/S

740

13.66

Slop C

Loading Constraints - Stability

Hull Type

Maximum Load

Maximum Draft

Max Density

Route Description

3751 II

(short tons)

(ft/in) 10ft 0in

11ft 9in

(lbs/gal)

13.66

13.66

4623

Conditions Of Carriage

THERMAL FLUID HEATER MAY ONLY BE OPERATED WHEN CARRYING GRADE "E" CARGOES

ONLY THOSE CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT, SERIAL C1-1400007, DATED 10-JAN-14, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED.

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 COMPATABILITY GROUP NUMBERS FROM THE "COMPAT GRP" COLUMN LISTED ABOVE IN THE "SPECIFIED HAZARDOUS CARGO **AUTHORITY" SECTION.**

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 CARE APPLIED.

IN ACCORDANCE WITH 46 CFR PART 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 VESSEL.

VAPOR CONTROL AUTHORIZATION

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 MARINF SAFFTY CENTER LETTERS SERIAL # C1-1400007



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

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Vessel Name: KIRBY 27735

WITH "YES" IN THE CAA'S VCS COLUMN.

THE CARGO TANK TOP IS SUITABLE FOR A MAXIMUM ALLOWABLE WORKING PRESSURE (MAWP) OF 3.0 PSI.

STABILITY AND TRIM

CARGO TANKS MUST BE LOADED UNIFORMLY WHENEVER A 46 CFR SUBCHAPTER "O" CARGO IS CARRIED; FOR TRIM PURPOSES, THE WEIGHT OF CARGO IN EACH TANK MAY EXCEED THE UNIFORMLY LOADED TANK CARGO WEIGHT BY AT MOST 5 PERCENT.

THE MAXIMUM DENSITY OF CARGO WHICH MAY BE FILLED TO THE TANK TOP IS 8.74LBS/GAL. CARGOES WITH HIGHER DENSITIES UP TO 13.6 BS/GAL, MAY BE CARRIED AS SLACK LOADS, BUT SHALL NOT EXCEED THE TANK WEIGHT LIMITS AS LISTED ABOVE.

--- Inspection Status ---

Fuel Tanks

Tank ID	Previous	Last	Next
AFT	-	11Aug2014	31Aug2024
Cargo Tanks			

Cargo	Tanks
--------	--------

-						
	Internal Exa	ım		External Exa	ım	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	-	11Aug2014	31Aug2024	•	-	-
2 P/S	-	11Aug2014	31Aug2024	-	•	-
3 P/S	•	11Aug2014	31Aug2024	-	-	-
Slop C	-	11Aug2014	31Aug2024	•	-	-
			Hydro Test			
Tank ld	Safety Valve	es	Previous	Last	Next	
1 P/S	-		-	-	•	
2 P/S	-		-	-	-	
3 P/S	-		-	-	-	
Slop C	-		•	_		

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

3

40-B

END

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

Serial #:

C1-1400007

Dated:

10-Jan-14

Certificate of Inspection

27736 Cargo Authority Attachment

Shipyard: Trinity Madisonville

Official #: 124535	8													Hull	#: 2215-9		•
46 CFR 151 Tank	Group (Chara	cteris	tics	_			SE!						· · · · · ·		-	
Tank Group Information	Cargo I	dentificat	ion	19	Cargo		Tanks		Carg		Enviror	mental	Fire	Special Require	ments		T
Trik Grp Tanks in Group	Density	Press	Temp	Hull Typ	Seq	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	
A #1P/S #2 P/S, #3 P/S	13.7	Atmos	Elev		1 2	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	40-1(f)(1), .50-60, .50-70(a), .50- 70(b), .50-73, .50- 81(a), .50-81(b),	55-1(b), (c), (e), (f), (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 dargoes 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		100		Condi	tions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp Period
Authorized Subchapter O Cargoes			177				- 1847			
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G
Acrylonitrile	ACN	15 ²	0	С	11	Α	Yes	4	50-70(a), 55-1(e)	G
Adiponitrile	ADN	37	0	E	, u	Α	Yes	1	No	Ģ
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	Ш	Α	No	N/A	50-81 , .50-86	G
Aminoethylethanolamine	AEE	8	0	E	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	- 10	Α	No	N/A	56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	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 2	0	С	- DF	Α	Yes	1	50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 2	0	С	Itt	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	40	Α	Yes	1	50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	110	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Butyl methacrylate	ВМН	14	0	D	III	Α	Yes	2	50-70(a)50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yeş	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	10	Α	No	N/A	No	G
Caustic potash solution	CPS	5 ²	0	NA	.10	Α	No	N/A	50-73, .55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	101	Α	No	N/A	50-7355-1(j)	G
Chemical Oil (refined, containing phenotics)	COD	21	0	E	9310	Α	No	N/A	50-73	G
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	411	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	E	III	Α	No	N/A	50-73	G
Creosote	ccw	21 2	0	E	- 111	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Е	101	Α	Yes	1	No	G
Cresylate spent caustic	csc	5	0	NA	ंग	A	No	N/A	50-73, 55-1(b)	G
Cresylic acid tar	CRX		0	Ε	Ш	A	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 ²	0	С	II	A	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	tir	Α	No	N/A	No	G
Cyclohexanone	CCH	18	0	D	111	Α	Yes	1	56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 2	0	Е	III	Α	Yes	1	.56-1 (b)	G

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Dated:

C1-1400007 10-Jan-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 332 Official #: 1245358

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Shipyard: Trinity Madisonville

Chem Code CHA CSB IAI DBX DCH DEE DCM DDE DAD DTI DPB DPP	Compat Group No 7 30 14 36 36 41 36 43 0 12 43 2 36	Sub Chapter O O O O O O O O O O O O O O O O O O	Grade D D E C D NA E	Hull Type III III III III	Tank Group A A A	Vapor F App'd (Y or N) Yes Yes Yes Yes	VCS Category 1 1 2 3	Special Requirements in 46 CFR 151 General and Matts of 55-1(a), (b), (c), (g) .50-60, 55-1(b) .50-70(a), 50-81(a), (b), 55-1(c) .56-1(a), (b)	Insp. Period G G
Code CHA CSB IAI DBX DCH DEE DCM DDE DAD DTI DPB DPP	7 30 14 36 36 41 36 43 0 12 43 2	O O O O O O O O O O O O O O O O O O O	D E E C D NA	Type III III III III	A A A A	Yes Yes Yes Yes Yes	Category 1 1 2	151 General and Matts of 56-1(a), (b), (c), (g) .50-60 , .56-1(b) .50-70(a), .50-81(a), (b), .55-1(c)	Period G G
CSB IAI DBX OCH DEE DCM DDE DAD DTI DPB DPP	30 14 36 36 41 36 43 0 12 43 2	0 0 0 0 0 0 0 0	D E E C D	111 111 114	A A A	Yes Yes Yes	1 2	.50-60, .56-1(b) .50-70(a), .50-81(a), (b), .55-1(c)	G
DE DAD DTI DPB DPP	14 36 36 41 36 43 0 12 43 2	0 0 0 0 0 0 0	E C D NA	111 111 111	A	Yes Yes	2	.50-70(a), 50-81(a), (b), .55-1(c)	
DBX DCH DEE DCM DDE DAD DTI DPB DPP	36 36 41 36 43 0 12 43 2	0 0 0 0 0	E C D	111	A	Yes			G
DCH DEE DCM DDE DAD DTI DPB DPP	36 41 36 43 0 12 43 2	0 0 0	C D NA	Ш	Α		3	.56-1(a). (b)	
DEE DCM DDE DAD DTI DPB DPP	41 36 43 0 12 43 2	0 0 0	D NA			Yes			G
DCM DDE DAD OTI DPB DPP	36 43 0 12 43 2	0 0	NA	- 81			1	No	G
DDE DAD DTI DPB DPP	43 0 12 43 ²	0			Α	Yes	1	.55-1(f)	G
DAD DTI DPB DPP	0 12 43 ²	0	E	m	Α	Yes	5	No	G
DTI DPB DPP	43 ²	_		- 01	Α	No	N/A	.56-1(a), (b), (c), (g)	G
DPB DPP		0	Α		Α	No	N/A	.56-1(a), (b), (c), (g)	G
DPP			E	III	Α	No	N/A	.56-1(a), (b), (c), (g)	G
DPP		0	С	(II	A	Yes	3	No	G
	36	0	С	())	A	Yes	3	No	G
	36	0	C	01	A	Yes	3	No	G
Dell									G
	hit for my	-		-				- 1000 market	G
									G
									G
									G
-			-				-		G
									G
						Yes	3		G
DAC	10	0	E	UL	Α	Yes	3		G
DMB	8	0	D	III	Α	Yes	11	56-1(b), (c)	G
DMF	10	0	D	111	Α	Yes	1	55-1(e)	G
DNA	7	0	С	Ш	Α	Yes	3	55-1(c)	G
DOT	7	0	٤	Ш	Α	No	N/A	.56-1(b)	G
DOS	43	0	#	- 11	Α	No	N/A	No	G
EEG	40	0	D	111	Α	No	N/A	No	G
MEA	8	0	E	III.	Α	Yes	1	.55-1(c)	G
EAC	14	0	С	H	Α	Yes	2	.50-70(a). 50-81(a). (b)	G
EAN	7	0	Α	П	Α	Yes	6	55-1(b)	G
EBA	7	0	D	101	Α	Yes	3	55-1(b)	G
ECC	7	0	D	10	Α	Yes	1	55-1(b)	G
ETC	20	0	Е	III	Α	Yes	1	No	G
EDA	7 2	0	D	Ш				55-1(c)	G
EDC	36 ²		-					No	G
	40							No	G
					-			No	G
									G
									G
					- 114				G
									G
									G
14040									G
				-			14		G
									G
	7					Yes			G
	DMF DNA DOT DOS EEG MEA EAC EAN EBA ECC ETC	DMX 15 DEA 8 DEN 7 DET 72 DBU 7 DIP 8 DIA 7 DAC 10 DMB 8 DMF 10 DNA 7 DOT 7 DOS 43 EEG 40 MEA 8 EAC 14 EAN 7 EBA 7 ECC 7 ETC 20 EDA 72 EDC 362 EGH 40 EGC 40 EGP 40 EAI 14 EPA 192 FMS 192 FFA 19 GTA 19 HMC 7 HMI 7	DMX 15 O DEA 8 O DEN 7 O DET 7 0 DET 7 0 DBU 7 O DBU 7 O DIP 8 O DIA 7 O DAC 10 O DMB 8 O DMF 10 O DNA 7 O DOT 7 O DOS 43 O EEG 40 O MEA 8 O EAC 14 O EAN 7 O ETC 20	DMX 15 O C DEA 8 O E DEN 7 O C DET 7 O E DBU 7 O D DIP 8 O E DIA 7 O C DAC 10 O E DMB 8 O D DMF 10 O D DMA 7 O C DOT 7 O E DOS 43 O # EEG 40 O D MEA 8 O E EAC 14 O C EAN 7 O A EBA 7 O D ETC 20 O E EDA 7 O D EDC 36 O C	DMX 15 O C II DEA 8 O E III DEN 7 O C III DET 7** O E III DBU 7 O D III DIP 8 O E III DIP 8 O E III DAC 10 O E III DMB 8 O D III DMA 7 O E III DMB 8 O D III DMA	DMX 15 O C II A DEA 8 O E III A DEN 7 O C III A DET 7 O C III A DBU 7 O D III A DBU 7 O C II A DAC 10 O E III A DAC 10 O E III A DMB 8 O D III A DMB 8 O D III A DMF 10 O D III A DMF 10 O D III A DOT 7 O E III A DOT 7 O E III A EEG 40 O D III A<	DMX 15 O C II A Yes DEA 8 O E III A Yes DEN 7 O C III A Yes DET 7 O D III A Yes DBU 7 O D III A Yes DBU 7 O C III A Yes DIP 8 O E III A Yes DAC 10 O E III A Yes DMB 8 O D III A Yes DMF 10 O D III A Yes<	DMX 15 O C II A Yes 1 DEA 8 O E III A Yes 1 DEN 7 O C III A Yes 3 DET 7² O E III A Yes 3 DBU 7 O D III A Yes 3 DIA 7 O C II A Yes 3 DAC 10 O E III A Yes 3 DMB 8 O D III A Yes 1 DMF 10 O D III A Yes 1 DMA 7 O C II A Yes 1 DNA 7 O E III A No NI/A EEG 40 O D	DMX 15 O C II A Yes 1 No DEA 8 O E III A Yes 1 .55-1(a) DEN 7 O C III A Yes 3 .55-1(a) DET 7 0 E III A Yes 3 .55-1(a) DET 7 0 D III A Yes 3 .55-1(c) DBU 7 O D III A Yes 3 .55-1(c) DIP 8 O E III A Yes 3 .55-1(c) DIP 8 O E III A Yes 3 .55-1(c) DIA 7 O C II A Yes 3 .55-1(c) DMB 8 O D III A Yes 3 .55-1(c) DMB 8 O D III A Yes 1 .55-1(c) DMB 8 O D III A Yes 1 .55-1(c) DMF 10 O D III A Yes 1 .55-1(c) DMA 7 O C II A Yes 3 .55-1(c) DNA 7 O C II A Yes 3 .55-1(c) DOT 7 O E III A NO N/A No DOS 43 O # II A NO N/A No EEG 40 O D III A Yes 1 .55-1(c) EAC 14 O C III A Yes 2 .50-70(a) 50-81(a) (b) EAN 7 O A II A Yes 3 .55-1(b) EEC 7 O D III A Yes 1 .55-1(c) ECC 7 O D III A Yes 1 .55-1(c) ECC 7 O D III A Yes 1 .55-1(c) ECC 7 O D III A Yes 1 .55-1(c) ECC 7 O D III A Yes 1 .55-1(c) ECC 7 O D III A Yes 1 .55-1(c) ECC 7 O D III A Yes 1 .55-1(c) ECC 7 O D III A Yes 1 .55-1(c) ECC 7 O D III A Yes 1 .55-1(c) ECC 36 2 O C III A Yes 1 .55-1(c) EGH 40 O E III A Yes 1 .55-1(c) EGH 40 O E III A Yes 1 .55-1(c) EGH 40 O E III A Yes 1 .55-1(c) EGH 40 O E III A Yes 1 .55-1(c) ETM 14 O E III A Yes 1 .55-1(c) ETM 14 O E III A Yes 1 .55-1(c) ETM 14 O E III A Yes 1 .55-1(c) ETM 14 O E III A Yes 1 .55-1(c) ETM 14 O E III A Yes 1 .55-1(c) ETM 19 O NA III A Yes 1 .55-1(c) FFA 19 O D/E III A Yes 1 .55-1(c) ETM 7 O E III A Yes 1 .55-1(c)

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 332 Official #: 1245358

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Shipyard: Trinity Madisonville

Serial #: C1-1400007

10-Jan-14

Dated

Cargo Identification	1							Condi	tions of Carriage	
						1		ecovery		83
Name	Code	Compat Group No	Sub Chapter	Grade	Huli Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Maris of	Insp. Period
Isoprene	IPR	30	0	Α	- 10	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 Ilquor)	KPL	5	0	NA	01	Α	No	N/A	.50-73, 56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 ²	0	D	m	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	- 113	Α	Yes	2	50-70(a)50-81(a). (b)	G
Methylcyclopentadiene dimer	MCK	30	0	C	111	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	H	Α	Yes	1	56-1(b), (c)	Ģ
2-Methyl-5-ethylpyridine	MEP	9	0	Ε	111	Α	Yes	1	55-1(e)	G
Methyl methacrylate	MMM	14	0	С	m	Α	Yes	2	.50-70(a), 50-81(a), (b)	G
2-Methy pyridine	MPR	9	0	D	Ш	Α	Yes	3	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	18	Α	Yes	2	50-70(a), .50-81(a), (b)	G
Morpholine	MPL	72	0	D	III	Α	Yes	1	55-1(c)	G
Naphthalene (molten)	NTM	32	0	С	[]]	Α	Yes	1	No	G
Nitroethane	NTE	42	0	D	II	Α	No	N/A	50-81, 56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	50-81	G
1,3-Pentadiene	PDE	30	0	A	111	A	Yes	7	50-70(a) 50-81	G
Perchioroethylene	PER	36	ō	NA	100	A	No	N/A	No	G
Phthalic anhydride (molten)	PAN	11	0	E	101	A	Yes	1	No	G
Polyethylene polyamines	PEB	7 2	0	E	UI	A	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	E	10)				.55-1(c)	G
	PAX	8	0	E		A	Yes	- 1		
Propanolamine (iso-, n-)	IPP				(II	A	Yes	1	.56-1(b), (c)	G
so-Propylamine		7	0	A	- 11	A	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	III	Α	Yes	1		G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		(1)	Α	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	ID	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 12	0	NA	111	Α	No	N/A	50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	Ш	Α	No	N/A	50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1.2	0	NA	111	Α.	Yes	11_	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 12	0	NA	III	Α	No	N/A	.\$0-73, .\$5-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1.2	0	NA	Ħ	Α	No	N/A	.50-73, 55-1(b)	G
Styrene (crude)	STX		0	D	III	Α	Yes	2	No	G
Styrene monomer	STY	30	0	D	III	Α	Yes	2	.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	Ш	Α	Yes	1	55-1(a)	G
Tetrahydrofuran	THE	41	0	С	101	Α	Yes	1	50-70(b)	G
Toluenediamine	TDA	9	0	ε	11	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	Ģ
1,2,4-Trichlorobenzene	TÇB	36	0	٤	III	A	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	111	Α.	Yes		50-73, 56-1(a)	G
Frichloroethylene	TCL	36 ²	0	NA	111	A	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	E	H	A	Yes	3	50-73 , 56-1(a)	G
Friethanolamine	TEA	8 ²	0	E	111	A	Yes	1	55-1(b)	G
Friethylamine	TEN	7	0	C	11	A		3	55-1(e)	G
Friethylenetetramine	TET	7 2	0	E	111		Yes	_	55-1(b)	Ģ
Friphenylborane (10% or less), caustic soda solution	TPB					Α	Yes	1 NZA		
implicing according (10 % of 1655), caustic soud solution	IFD	5	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c)	G
Frisodium phosphate solution	TSP	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c)	G

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 332

Official #: 1245358

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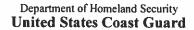
Shipyard: Trinity Madisonville

Serial #: C1-1400007

10-Jan-14

Cargo Identification	1								tions of Carriage	
	Cham	Camaal			16.0	T		ecovery		ì
Name	Code	Compat Group No	Sub Chapter	Grade	Huli Type	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Maris of	Insp. Perio
Vanillin black liquor (free alkali content, 3% or more)	VBL	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	С	111	Α	Yes	2	50-70(a), 50-81(a) (b)	G
Vinyl neodecanate	VND	13	0	Е	Ш	Α	No	N/A	50-70(a), 50-81(a), (b)	G
Vinyitoluene	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		-								
Acetone	ACT	18 ²	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	Е		Α	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	Е		Α	Yes	1		
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		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		Α	Yes	1		
Butyl alcohol (tert-)	BAT		D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	ε		A	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	E		Α	Yes	1		
Cyclohexane	CHX	31	D	Ç		Α	Yes	1		
Cyclohexanol	CHN	20	D	E		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	IDA	19	D	Е		Α	Yes	. 1		
n-Decaldehyde	DAL	19	D	Е		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 ²	D	Ę		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1		
Diacetone alcohol	DAA	20 ²	D	D		Α	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 ²	D	E		Α	Yes	1_		
Diisobutylene	DBL	30	D	C		Α	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		
Dioctyl 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		{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		

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 332

Official #: 1245358

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Shipyard Trinity Madisonville

Cargo Identificati	on							Condi	tions of Carriage	
			1.2.1		38/4	De la		Recovery	W (0)	
Name	Chem	Compat Group No	Sub Chapter	Grade	Type	Tank Group	(A ot M)	VCS Category	Special Requirements in 46 CFR 151 General and Mattls 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		
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1		
Ethyl acetate	ETA	34	D	С		Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	Ε		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	E8E	41	D	С		Α	Yes	1		
Ethyl butyrate	EBR	34	D	D		Α	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		
Ethylene glycol	EGL	20 ²	Đ	Е		Α	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	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			
Ethyl propionate	EPR	34	D	С		A	Yes	1		
Ethyl toluene	ETE	32	D	D		A	Yes	1		
Formamide	FAM	10	D	E		A				
Furfuryl alcohol	FAL	20 2	D	E		Â	Yes	1		
	GAK	33	D	A/C			Yes			
Gasoline blending stocks: Alkylates	GRF	33	D	A/C		A	Yes	1		-
Gasoline blending stocks: Reformates Gasolines: Automotive (containing not over 4.23 grams lead per gation)	GAT	33	D	C		A	Yes	= 1=		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	Đ	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		A	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ	31	D	С		A	Yes	1		
Heptanoic acid	HEP	4	D	Ε		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 2	D	B/C		Â	Yes	1		
Hexanoic acid	HXO	4	D	E		A	Yes			
Hexanol	HXN	20	D	D		A	Yes	1		
Hexene (all isomers)	HEX	30	D	c				1		
Hexylene glycol	HXG	20	D	E		A	Yes	2		
	IPH	18 ²	D	E		A	Yes	-1-		
Isophorone			-	-		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	411	Α	Yes	1		
Methyl alcohol	MAL	20 ²	D	С		Α	Yes	1		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		

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Department of Homeland Security
United States Coast Guard



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 332

 Shipyard: Trinity Madisonville

C1-1400007

10-Jan-14

Cargo identifica	Cargo Identification Chem Compat Sub Hull 1									
		1.						Recovery		
Name	Chem	Group No		Grade	Type	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mattls of	Insp. Period
Methylamyl alcohol	MAA	20	Đ	D		Α	Yes	1		
Methyl amyl ketone	MAK	18	D	D	100	Α	Yes	1		
Methyl tert-butyl ether	M8E	41 2	D	С		Α	Yes	1		
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1	- W-	
Methyl butyrate	MBU	34	D	С		Α	Yes	1		
Methyl ethyl ketone	MEK	18 ²	D	С		Α	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1		
Methyl isobutyl ketone	MIK	18 ²	D	С		Α	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		Α	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	_ <u>i</u>		
Naphtha Petroleum	PTN	33	D	#		A	Yes	1		
Naphtha: Solvent	NSV	33	D	D .		A	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1		
Naphtha: Vamish makers and painters (75%)	NVM	33	D	c		A	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A				
	NON	30	D	D			Yes	1		
Nonene (all isomers) Nonyl alcohol (all isomers)	NNS	20 ²	D	É		A	Yes	2		
						_ 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	Ę		Α	Yes	1		
Octanol (all isomers)	OCX	20 ²	D	E		Α	Yes	1		
Octene (all isomers)	ОТХ	30	D	С		Α	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1	1000	
Oil, fuel; No. 2-D	OTD	33	D	D		Α	Yes	1		
Oíl, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		
Oil, fuel: No 5	OFV	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 6	OSX	33	D	Ε		Α	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E	Sec. 13	Α	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	E		Α	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	1		
Oil, misc: Residual	ORL	33	D	E		Α	Yes	1		
Oil, misc: Turbine	OTB	33	D	Е		Α	Yes	1		
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5		
Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5		
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1		
alpha-Pinene	PIO	30	D	D		Α	Yes	1		
beta-Pinene	PIP	30	D	D		Α	Yes	1		-
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C5) ether acetate	PAF	34	D	E		A	Yes	1		
Polybulene	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			
ii i ivpji uvetate	- FAI	20 ²	D	C			162	1		

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 332 Official #: 1245358

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Shipyard: Trinity Madisonville

Cargo Identification							Conditions of Carriage			
					i		Vapor Recovery			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Matts of	Insp. Period
n-Propyl alcohol	PAL	20 ²	D	С		Α	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1		
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1		
Propylene glycol	PPG	20 2	D	Е		Α	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1		
Propylene tetramer	PTT	30	D	D		Α	Yes	1		
Sulfolane	SFL	39	D	E		Α	Yes	1		
Tetraethylene glycol	TTG	40	Đ	Е		Α	Yes	1		
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1		
Toluene	TOL	32	D	С		Α	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		Α	Yes	1		
Triethylbenzene	TEB	32	D	E		Α	Yes	1		
Triethylene glycol	TEG	40	D	ε		Α	Yes	1		
Triethyl phosphate	TPS	34	D	Е		Α	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1		
Trixylenyl phosphate	TRP	34	D	Е		Α	Yes	1		
Undecene	UDC	30	D	D/E		Α	Yes	1		
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		



Department of Homeland Security **United States Coast Guard** Serial # C1-1400007

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 332

Official #: 1245358

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Shipyard: Trinity Madison

Hull # 2215-9

Explanation of terms & symbols used in the Table:

Cargo Identification

Name

Chem Code

Compatability Group No

Note 1

Note 2

The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 48 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.

Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart

Subchapter Subchapter D Subchapter O Note 3

The subchapter in Tritle 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-oceargoing barges.

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

Grade

A, B, C Note 4

not ventified by manufacturers data. The Person-in-Charge shall venty the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
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 dessified as a flammable or combustible liquid

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were

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.

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 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 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 Groun Vapor Recover 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 carnage 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 150.70, 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

(Polymenzes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouring safety componenets and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Manne 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 Category 7

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

none

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

Commandant United States Coast Guard 2703 Martin Luther King, Jr. Ave S.E. STOP 7509 Washington, DC 20593-7509 Staff Symbol: CG-ENG-5 Phone: (202) 372-1418 Fax: (202) 372-8380 Email: Jodi.j.min@uscg.mil

16703/46-39/2014-469 17JUN2014

Mr. Dustin Walker Cenac Marine Services, LLC 742 Highway 182 Houma, LA 70364

Subj: MULTI-BREASTED TANDEM LOADING UNDER VAPOR CONTROL FOR CENAC MARINE SERVICES' BARGES AT RE-CERTIFIED FACILITIES

Ref: (a) USCG Commandant (CG-ENG-5) letter 16703/46-39/2014-362 dated May 12, 2014 (b) USCG Commandant (CG-ENG-5) letter 16703/46-39/2014-339 dated May 9, 2014

Dear Mr. Walker:

This letter is in response to your email dated June 4, 2014, which requested my approval to allow Cenac Marine Services' barges to perform multi-breasted dual barge loading under vapor control at 24 facilities. Per references (a)-(b), 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.)	Texas City, TX
(Docks 32N, 32S, 33, 34, 37, 38)	
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

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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, East Plant (Oil Docks 3, 4, 7, 11)	Corpus Christi,
	TX
Oiltanking, Beaumont (B Dock and South Dock)	Beaumont, TX

The Cenac Marine Services' barges listed in enclosure (1) are hereby approved for conducting multibreasted 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.

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- 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.
- 1. Cenac Marine Services 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.

Cenac Marine Services 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.

Sincerely,

P. A. Keffler

Acting Chief, Hazardous Materials Division

By direction of the Commandant

Subj: MULTI-BREASTED TANDEM LOADING UNDER VAPOR CONTROL FOR CENAC MARINE SERVICES' BARGES AT RE-CERTIFIED FACILITIES

Enclosure: (1) List of applicable barges

Copy: Sector Houston-Galveston Sector Corpus Christi

Sector Lower Mississippi River Sector New Orleans

Sector New Orleans MSU Lake Charles MSU Port Arthur

MSC, Tank Vessel and Offshore Division

CG-FAC-2

2014-469 Enclosure (1): List of Applicable Barges

Barge Name	Official Number	Shipyard and Hull Number	MSC Approval		
CTCO 319	1247208	West Gulf Marine Hull / 322	16710/P018144/C1-1304110 Dec 6, 2013		
CTCO 320	1247209	West Gulf Marine Hull / 323	16710/P018144/C1-1304110 Dec 6, 2013		
CTCO 321	1247210	West Gulf Marine Hull / 324	16710/P018144/C1-1304110 Dec 6, 2013		
CTCO 322	1247211	West Gulf Marine Hull / 325	16710/P018144/C1-1304110 Dec 6, 2013		
CTCO 323	1247212	West Gulf Marine Hull / 326	16710/P018144/C1-1304110 Dec 6, 2013		
CTCO 354	1247213	West Gulf Marine Hull / 237	16710/P018249/C1-1400683 Mar 21, 2014		
CTCO 355	1247214	West Gulf Marine Hull / 238	16710/P018249/C1-1400683 Mar 21, 2014		
CTCO 356	1247215	West Gulf Marine Hull / 239	16710/P018249/C1-1400683 Mar 21, 2014		
CTCO 357	1247216	West Gulf Marine Hull / 240	16710/P018249/C1-1400683 Mar 21, 2014		
CTCO 358	1247217	West Gulf Marine Hull / 241	16710/P018249/C1-1400683 Mar 21, 2014		
CTCO 359	1247218	West Gulf Marine Hull / 242	16710/P018249/C1-1400683 Mar 21, 2014		
CTCO 314	1245345	Trinity Marine Hull / 4974	16710/P018407/C1-1401137 April 3, 2014		
CTCO 315	1245346	Trinity Marine Hull / 4975	16710/P018407/C1-1401137 April 3, 2014		
CTCO 316	1245347	Trinity Marine Hull / 4976	16710/P018407/C1-1401137 April 3, 2014		
CTCO 317	1245348	Trinity Marine Hull / 4977	16710/P018407/C1-1401137 April 3, 2014		
CTCO 318	1245349	Trinity Marine Hull / 4978	16710/P018407/C1-1401137 April 3, 2014		
CTCO 324	1245350	Trinity Madisonville Hull / 2215-1	16710/P018659/C1-1401124/April 2, 2014		
CTCO 325	1245351	Trinity Madisonville Hull / 2215-2	16710/P018659/C1-1401124/April 2, 2014		
CTCO 326	1245352	Trinity Madisonville Hull / 2215-3	16710/P018659/C1-1401124/April 2, 2014		
CTCO 327	1245353	Trinity Madisonville Hull / 2215-4	16710/P018659/C1-1401124/April 2, 2014		
CTCO 328	1245354	Trinity Madisonville Hull / 2215-5	16710/P018659/C1-1401124/April 2, 2014		
CTCO 329	1245355	Trinity Madisonville Hull / 2215-6	16710/P018659/C1-1401124/April 2, 2014		
CTCO 330	1245356	Trinity Madisonville Hull / 2215-7	16710/P018659/C1-1401124/April 2, 2014		

CTCO 331	1245357	Trinity Madisonville Hull / 2215-8	16710/P018659/C1-1401124/April 2, 2014		
CTCO 332	1245358	Trinity Madisonville Hull / 2215-9	16710/P018659/C1-1401124/April 2, 2014		
CTCO 333	1245359	Trinity Madisonville Hull / 2215-10	16710/P018659/C1-1401124/April 2, 2014		
CTCO 334	1245360	Trinity Madisonville Hull / 2215-11	16710/P018659/C1-1401124/April 2, 2014		
CTCO 335	1245361	Trinity Madisonville Hull / 2215-12	16710/P018659/C1-1401124/April 2, 2014		
CTCO 336	1245362	Trinity Marine- Madisonville Hull / 2215-13	16710/P018751/C1-1400538/February 21, 2014		
CTCO 337	1245363	Trinity Marine- Madisonville Hull / 2215-14	16710/P018751/C1-1400538/February 21, 2014		
CTCO 338	1245364	Trinity Marine- Madisonville Hull / 2215-15	16710/P018751/C1-1400538/February 21, 2014		
CTCO 339	1245365	Trinity Marine- Madisonville Hull / 2215-16	16710/P018751/C1-1400538/February 21, 2014		
CTCO 340	1245366	Trinity Marine- Madisonville Hull / 2215-17	16710/P018751/C1-1400538/February 21, 2014		
CTCO 341	1245367	Trinity Marine- Madisonville Hull / 2215-18	16710/P018751/C1-1400538/February 21, 2014		
HBC 301	1232433	Conrad Industries Hull C-927	11/14/13; P014938; C1-1303853		
HBC 302	1231681	Conrad Industries Hull C-928	11/14/13; P014938; C1-130385		
HBC 303	1244002	Conrad Orange Hull H- 458	11/26/13; P018000; C1-1303950		
HBC 304	1245343	Conrad Orange Hull H- 1030	11/26/13; P018000; C1-1303950		
HBC 305	1245344	Conrad Orange Hull H- 1031	11/26/13; P018000; C1-1303950		
HBC 306	1243993	Conrad Orange Hull C- 1020	11/26/13; P018000; C1-1303950		
HBC 307	1244003	Conrad Orange Hull H- 459	11/26/13; P018000; C1-1303950		
HBC 308	1243994	Conrad Orange Hull C- 1021	11/26/13; P018000; C1-1303950		
HBC 309	1243996	Conrad Orange Hull C- 1023	11/26/13; P018000; C1-1303950		
HBC 310	1243995	Conrad Orange Hull C- 1022	11/26/13; P018000; C1-1303950		
HBC 311	1244004	Conrad Orange Hull H- 460	11/26/13; P018000; C1-1303950		

HBC 312	1243997	Conrad Orange Hull C- 1024	11/26/13; P018000; C1-1303950
CTCO 250	1243998	Conrad Orange Shipyard Hull H-454	11/26/13; P017859; C1-1303920
CTCO 252	1243999	Conrad Orange Shipyard Hull H-455	11/26/13; P017859; C1-1303920
CTCO 254	1244000	Conrad Orange Shipyard Hull H-456	11/26/13; P017859; C1-1303920
CTCO 255	1244001	Conrad Orange Shipyard Hull H-457	11/26/13; P017859; C1-1303920
CTCO 251	1243991	Conrad Shipyard Hull C-1018	11/26/13; P017859; C1-1303920
CTCO 253	1243992	Conrad Shipyard Hull C-1019	11/26/13; P017859; C1-1303920