



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

**Certification Date: 16 Dec 2021  
Expiration Date: 16 Dec 2022**

# Temporary Certificate of Inspection

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

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

<b>Vessel Name</b> KIRBY 29162	<b>Official Number</b> 1234355	<b>IMO Number</b>	<b>Call Sign</b>	<b>Service</b> Tank Barge		
<b>Hailing Port</b> GIBSON, LA  UNITED STATES	<b>Hull Material</b> Steel	<b>Horsepower</b>	<b>Propulsion</b>			
<b>Place Built</b> ASHLAND CITY, TN  UNITED STATES	<b>Delivery Date</b> 05Oct2011	<b>Keel Laid Date</b> 06Sep2011	<b>Gross Tons</b> R-1619 t	<b>Net Tons</b> R-1619 t	<b>DWT</b>   t	<b>Length</b> R-297.5 ft
<b>Owner</b> KIRBY INLAND MARINE LP 55 WAUGH DR STE 1000 HOUSTON, TX 77007 UNITED STATES	<b>Operator</b> 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---**

LIMITED COASTWISE SERVICE: IN SEAS OF LESS THAN THREE (3) 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 AND THE COGNIZANT OCMI NOTIFIED IN WRITING AS SOON AS THIS CHANGE IN STATUS OCCURS.

This tank barge is participating in the Eighth Coast Guard District's Tank Barge Streamlined Inspection Program

**\*\*\*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.

<b>Annual/Periodic/Re-Inspection</b>				This certificate issued by <b>K. A. Hantal, CDR, USCG, By direction</b> Officer in Charge, Marine Inspection Marine Safety Unit Port Arthur Inspection Zone
<b>Date</b>	<b>Zone</b>	<b>A/P/R</b>	<b>Signature</b>	





# Temporary Certificate of Inspection

Vessel Name: KIRBY 29182

(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	31Oct2031	16Dec2021	05Oct2011
Internal Structure	30Nov2026	16Dec2021	10Nov2016

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

Authorization:	FLAMMABLE / COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES				
Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
29200	Barrels	A	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	849	13.58
2 P/S	861	13.58
3 P/S	752	13.58

### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3819	10ft 0in	13.58	R, LBS, LC 0-12
III	4690	11ft 9in	13.58	R, LBS, LC 0-12

### \*Conditions Of Carriage\*

ONLY THOSE CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT MARINE SAFETY CENTER LETTER SERIAL # C1-1100869 DATED MARCH 30, 2011, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED. WHEN THE VESSEL IS CARRYING CARGOES CONTAINING 0.5% OR MORE BENZENE BY VOLUME, THE PERSON IN CHARGE IS RESPONSIBLE FOR ENSURING THE PROVISIONS OF 46 CFR PART 197, SUBPART C ARE APPLIED.

IN ACCORDANCE WITH 46 CFR PART 39, EXCLUDING PART 39.40, THIS VESSEL'S VAPOR CONTROL SYSTEM HAS BEEN INSPECTED TO THE PLANS APPROVED BY MSC LETTER SERIAL # C1-1000795, DATED MARCH 25, 2010 AND EXTENDED BY MSC LETTER SERIAL # C1-1100869 DATED MARCH 30, 2011 AND HAS BEEN FOUND ACCEPTABLE FOR COLLECTION OF BULK LIQUID CARGO VAPORS ANNOTATED WITH "YES" IN THE CAA'S VCS COLUMN.

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 NUMBERS FROM THE "COMPAT GROUP NO" COLUMN LISTED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT.

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 13.58 LBS/GAL, MAY BE CARRIED AS SLACK LOADS, BUT SHALL NOT EXCEED THE TANK WEIGHT LIMITS AS LISTED ABOVE.

NOTE: PER 46 CFR 151.10(C)(2) THE MAXIMUM TANK WEIGHTS LISTED ABOVE REFLECT UNIFORM (WITHIN 5%) LOADING AT THE DEEPEST DRAFT ALLOWED. WHEN CARRYING SUBCHAPTER "O" CARGOES AT SHALLOWER





# Temporary Certificate of Inspection

Vessel Name: KIRBY 29162

DRAFTS, THE BARGE SHOULD ALWAYS BE LOADED UNIFORMLY.

**--- Inspection Status ---**

**\*Fuel Tanks\***

Tank ID	Internal Examinations		
	Previous	Last	Next
Machinery Deck (Slop)	-	05Oct2011	-
Machinery Deck	-	05Oct2011	-

**\*Cargo Tanks\***

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1 P/S	05Oct2011	16Dec2021	31Oct2031	-	-	-
2 P/S	05Oct2011	16Dec2021	31Oct2031	-	-	-
3 P/S	05Oct2011	16Dec2021	31Oct2031	-	-	-

Hydro Test

Tank Id	Safety Valves		Previous	Last	Next
	Previous	Last			
1 P/S	-	-	-	05Oct2011	-
2 P/S	-	-	-	05Oct2011	-
3 P/S	-	-	-	05Oct2011	-

**---Conditional Portable Fire Extinguisher Requirements---**

Required Only During Transfer of Cargo or Operation of Barge Machinery

**--- Fire Fighting Equipment ---**

**\*Fire Extinguishers - Hand portable and semi-portable\***

Quantity	Class Type
2	40-B

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



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **SMI 30030**  
Official #: 1234355

Shipyard: Trinity Ashland City  
Hull #: 4805

### 46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Hull Type	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), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

- Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks. NA means that the vessel does not have a cargo control space, and this requirement is not applied.
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'ls 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(e), (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	.50-73, .55-1(j)	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



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **SMI 30030**  
Official #: 1234355

Shipyard: Trinity Ashland City  
Hull #: 4805

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			
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	O	D	III	A	Yes	1	.50-60, .56-1(b)	G	
iso-Decyl acrylate	IAI	14	O	E	III	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G	
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, trisopropanolamine 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	



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **SMI 30030**

Official #: 1234355

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Shipyard: Trinity Ashland City

Hull #: 4805

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			
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	
Methyl acrylate	MAM	14	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	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(e)	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	
Nitroethane	NTE	42	O	D	II	A	No	N/A	.50-81, .56-1(b)	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(l)	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	
Vinytoluene	VNT	13	O	D	III	A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G	

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **SMI 30030**  
Official #: 1234355

Page 4 of 8

Shipyard: Trinity Ashland City  
Hull #: 4805

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		

### 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		
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		

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **SMI 30030**  
Official #: 1234355

Shipyard: Trinity Ashland City  
Hull #: 4805

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			
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			
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			





# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **SMI 30030**

Official #: 1234355

Page 6 of 8

Shipyard: Trinity Ashland City

Hull #: 4805

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			
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			
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			
Pentene (all isomers)	PTX	30	D	A		A	Yes	5			
n-Pentyl propionate	PPE	34	D	D		A	Yes	1			
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			



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: SMI 30030

Official #: 1234355

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Shipyard: Trinity Ashland City

Hull #: 4805

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		
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		
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: **SMI 30030**  
Official #: 1234355

Page 8 of 8

Shipyard: Trinity Ashland  
Hull #: 4805

### 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.
Compatability Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	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 Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

#### Conditions of Carriage

Tank Group	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 Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

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



Commanding Officer  
United States Coast Guard  
Marine Safety Center

US Coast Guard Stop 7430  
2703 Martin Luther King Jr Ave SE  
Washington, DC 20593-7430  
Staff Symbol: MSC-3  
Phone: (202) 795-6731  
Email: msc@uscg.mil

16710/P018412/mpc  
Serial: C1-1602921  
August 10, 2016

The Shearer Group, Inc  
Attn: Mr. Harrison Brann  
3101 NASA Parkway, Suite I  
Seabrook, TX 77586  
Email: hbrann@shearer-group.com

Subj: Multi-Breasted Tandem Loading for Settoon Towing, LLC  
Unmanned Double Hull Tank Barges (O/D)  
Rivers; Lakes, Bays, and Sounds  
Multi-breasted Tandem Loading

Ref: (a) The Shearer Group, Dwg. No. 0231-018-043, Rev. 5, "Tank Barge Tandem Loading," dated July 22, 2016  
(b) Your letter Corr. No. 0231-018-SUBMIT005 dated July 22, 2016  
(c) MSC letter Serial No. C1-1402458 dated July 18, 2014  
(d) MSC letter Serial No. C1-1500300 dated January 25, 2015  
(e) MSC letter Serial No. C1-1501614 dated April 13, 2015  
(f) MSC letter Serial No. C1-1602221 dated June 10, 2016  
(g) Marine Safety Information bulletin 11-14, dated July 18, 2014

Dear Mr. Brann:

In response to your email dated July 22, 2016 (MSC Document No. 1615825), we have reviewed all previously submitted pressure drop calculations for multi-breasted tandem loading. The barges listed in enclosure (1) barges have vapor control systems previously approved by the letters listed in enclosure (1) for the applicable barges, and are acceptable for dual loading operations. Based on the calculations in references (a), tandem loading is limited to simultaneous collection of those cargoes listed in the vessels' CAA at a maximum transfer rate of **5,000 bbl/hr** per barge.

For the OCMI's convenience, we have included the following recommended COI endorsement:

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 this vessel.

Please note that in accordance with the procedural changes outlined in reference (g), tandem loading no longer requires final approval by Commandant (CG-ENG-5), but may be approved by

Subj: Multi-Breasted Tandem Loading for Settoon Towing, LLC 16710/P018412/mpc  
Serial: C1-1602921  
August 10, 2016

the local Officer in Charge, Marine Inspection (OCMI) and may be subject to additional operational requirements.

Please contact LT Michael Comerford at (202) 795-6782 with questions concerning our review.

Sincerely,

R. W. MOWBRAY  
Lieutenant, U. S. Coast Guard  
Chief, Vessel and Cargo Branch  
By direction

Encl: (1) List of Applicable Barges

**Enclosure 1 – List of Applicable Barges**

Name	Builder	Hull #	Official No.	MAWP [psi]	PV Valve Setting [psig]	VCS Approval Letter	Approval Date
E2MS 300	Trinity, Ashland City	4943	1243228	3.00	1.5/-0.5	C1-1204608	November 2, 2012
E2MS 301	Trinity, Ashland City	4944	1243229	3.00	1.5/-0.5	C1-1204608	November 2, 2012
E2MS 302	Trinity, Ashland City	4968	1248273	3.00	1.5/-0.5	C1-1302286	August 20, 2013
E2MS 303	Trinity, Ashland City	4969	1248274	3.00	1.5/-0.5	C1-1302286	August 20, 2013
E2MS 304	Trinity, Ashland City	5041	1253982	3.00	1.5/-0.5	C1-1402458	July 18, 2014
E2MS 305	Trinity, Ashland City	5042	1254052	3.00	1.5/-0.5	C1-1402458	July 18, 2014
SMI 10001	Trinity, Ashland City	5051	1255567	3.00	2.5/-0.5	C1-1403077	September 17, 2014
SMI 10002	Trinity, Ashland City	5052	1255568	3.00	2.5/-0.5	C1-1403077	September 17, 2014
SMI 10003	Trinity, Ashland City	5053	1255569	3.00	2.5/-0.5	C1-1403077	September 17, 2014
SMI 10004	Trinity, Ashland City	5085	1255570	3.00	2.5/-0.5	C1-1403077	September 17, 2014
SMI 30007	Trinity, Madisonville	2177-1	1216337	3.00	1.5/-0.5	C2-0803792	December 29, 2008
SMI 30010	Trinity, Madisonville	2177-2	1216338	3.00	1.5/-0.5	C2-0803792	December 29, 2008
SMI 30011	Trinity, Madisonville	2177-3	1216339	3.00	1.5/-0.5	C2-0803792	December 29, 2008
SMI 30012	Trinity, Madisonville	2177-4	1216340	3.00	1.5/-0.5	C2-0803792	December 29, 2008
SMI 30014	Conrad Industries, Inc.	C-890	1222699	3.00	1.5/-0.5	C2-0902035	July 14, 2009
SMI 30015	Conrad Industries, Inc.	H-407	1222689	3.00	1.5/-0.5	C2-0902035	July 14, 2009
SMI 30016	Trinity, Ashland City	4749	1225135	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30017	Conrad Industries, Inc.	C-908	1229236	3.00	1.5/-0.5	C2-0902035	July 14, 2009
SMI 30018	Conrad Industries, Inc.	C-909	1229235	3.00	1.5/-0.5	C2-0902035	July 14, 2009
SMI 30019	Trinity, Madisonville	2192-1	1231348	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30020	Trinity, Madisonville	2192-2	1231349	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30021	Trinity, Madisonville	2191-1	1231350	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30022	Trinity, Madisonville	2191-2	1231351	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30023	Trinity, Ashland City	4791	1234345	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30024	Trinity, Ashland City	4792	1234347	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30025	Trinity, Ashland City	4793	1234348	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30026	Trinity, Ashland City	4794	1234349	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30027	Trinity, Ashland City	4802	1234351	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30028	Trinity, Ashland City	4803	1234352	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30029	Trinity, Ashland City	4804	1234354	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30030	Trinity, Ashland City	4805	1234355	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30031	Trinity, Ashland City	4806	1234356	3.00	1.5/-0.5	C1-1000795	March 25, 2010
SMI 30032	Trinity, Madisonville	2203-1	1239856	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30033	Trinity, Madisonville	2203-2	1239857	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30034	Trinity, Madisonville	2204-1	1239887	3.00	1.5/-0.5	C1-1202871	June 6, 2012



Name	Builder	Hull #	Official No.	MAWP [psi]	PV Valve Setting [psig]	VCS Approval Letter	Approval Date
SMI 30035	Trinity, Madisonville	2203-3	1239858	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30036	Trinity, Madisonville	2203-4	1239859	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30037	Trinity, Madisonville	2204-2	1239888	3.00	1.5/-0.5	C1-1202871	June 6, 2012
SMI 30038	Trinity, Madisonville	2203-5	1239860	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30039	Trinity, Madisonville	2203-6	1239861	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30040	Trinity, Madisonville	2204-3	1239889	3.00	1.5/-0.5	C1-1202871	June 6, 2012
SMI 30041	Trinity, Madisonville	2203-7	1239862	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30042	Trinity, Madisonville	2203-8	1239863	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30043	Trinity, Madisonville	2204-4	1239890	3.00	1.5/-0.5	C1-1202871	June 6, 2012
SMI 30044	Kennedy Ship and Repair	H122	1242956	3.00	1.5/-0.5	C1-1204976	December 11, 2012
SMI 30045	Kennedy Ship and Repair	H123	1246170	3.00	1.5/-0.5	C1-1204976	December 11, 2012
SMI 30046	Trinity, Ashland City	4894	1243723	3.00	1.5/-0.5	C1-1204448	October 23, 2012
SMI 30047	Trinity, Ashland City	4895	1247204	3.00	1.5/-0.5	C1-1301682	May 20, 2013
SMI 30048	Trinity, Ashland City	4896	1247205	3.00	1.5/-0.5	C1-1301682	May 20, 2013
SMI 30049	Trinity, Ashland City	4945	1247206	3.00	1.5/-0.5	C1-1301682	May 20, 2013
SMI 30050	Trinity, Ashland City	4946	1247207	3.00	1.5/-0.5	C1-1301682	May 20, 2013
SMI 30051	Trinity, Ashland City	4947	1248992	3.00	1.5/-0.5	C1-1303034	September 5, 2013
SMI 30052	Trinity, Ashland City	4998	1248993	3.00	1.5/-0.5	C1-1303034	September 5, 2013
SMI 30053	Kennedy Ship and Repair	H124	1249447	3.00	1.5/-0.5	C1-1204976	December 11, 2012
SMI 30054	Trinity, Ashland City	4989	1243723	3.00	1.5/-0.5	C1-1303034	September 5, 2013
SMI 30055	Trinity, Ashland City	4990	1249746	3.00	1.5/-0.5	C1-1303034	September 5, 2013
SMI 30056	Trinity, Ashland City	5027	1252007	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30057	Trinity, Ashland City	5028	1252008	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30058	Trinity, Ashland City	5043	1252009	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30059	Trinity, Ashland City	5044	1252010	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30060	Trinity, Ashland City	4989	1252012	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30061	Trinity, Ashland City	4990	1252013	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30062	Trinity, Ashland City	5045	1251933	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30063	Trinity, Ashland City	5048	1251934	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30064	Trinity, Ashland City	5049	1251935	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30065	Sterling, Port Neches	H129	1250651	3.00	1.5/-0.5	C1-1400109	January 15, 2014
SMI 30201	Trinity, Gretna Machine	1408	1020950	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30202	Trinity, Gretna Machine	1409	1020951	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30203	Trinity, Gretna Machine	1410	1020952	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30204	Trinity, Gretna Machine	1411	1020953	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30205	Trinity, Gretna Machine	1412	1020955	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30206	Trinity, Gretna Machine	1413	1020957	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 213	Cenac Towing Co.	2059-2	1074634	3.00	1.5/-0.5	C2-9901178	April 13, 1999

Subj: Multi-Breasted Tandem Loading for Settoon Towing, LLC 16710/P018412/mpc  
Serial: C1-1602921  
August 10, 2016

<b>Name</b>	<b>Builder</b>	<b>Hull #</b>	<b>Official No.</b>	<b>MAWP [psi]</b>	<b>PV Valve Setting [psig]</b>	<b>VCS Approval Letter</b>	<b>Approval Date</b>
SMI 214	Cenac Towing Co.	2059-3	1074635	3.00	1.5/-0.5	C2-9901178	April 13, 1999
SMI 216	Cenac Towing Co.	2059-5	1074637	3.00	1.5/-0.5	C2-9901178	April 13, 1999
SMI 217	Cenac Towing Co.	2059-6	1074638	3.00	1.5/-0.5	C2-9901178	April 13, 1999
SMI 219	Cenac Towing Co.	2059-4	1074636	3.00	1.5/-0.5	C2-9901178	April 13, 1999