

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

Certification Date: 03 Sep 2019 **Expiration Date:** 03 Sep 2024

A SAFE MANNING DOCUMENT

Vessel Name Official Number IMO Number Call Sign **HTCO 3060** 1196473 Tank Barge Heiting Port -Hull Material Horsennee Procussion HOUSTON, TX Steel **UNITED STATES** Place Built **Delivery Date** Keel Laid Date Net Tons Gross Tons MADISANVILLE, LA R-1619 R-297.5 R-1619 30Apr2007 23Mar2007 10 **UNITED STATES** HIGMAN BARGE LINES INC KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 18350 Market Street 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 **O Licensed Mates** 0 Chief Engineers 0 Oilers 0 Chief Mates

O Second Mates

0 First Class Pilots O Radio Officers

0 First Assistant Engineers 0 Second Assistant Engineers

O Third Mates 0 Master First Class Pilot

0 Mate First Class Pilots

0 Able Seamen 0 Ordinary Seamen

0 Deckhands

0 Third Assistant Engineers O Licensed Erigineers

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---

Also, in fair weather only, not more than twelve (12) miles from shore between St. Marks and Carrabelle,

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 watermore 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

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

Annual/Periodic/Re-Inspection

Date A/P/R Zone Signature lou TOU COSPUS CALBY

This Amer

Officer in Charge,

Sector New Orleans

Inspection Zone

DER, by direction



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

Certification Date: 03 Sep 2019 **Expiration Date:** 03 Sep 2024

Certificate of Inspection

Vessel Name: HTCO 3060

---Hull Exams---

Next Exam

Last Exam

Prior Exam

DryDock

Exam Type

30Jun2029

24Jun2019

30Apr2007

Internal Structure

03Sep2024

05Aug2019

12Mar2012

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

Authorization:

GRADE "A" AND LOWER AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

29500

Barrels

Yes

No

No

Hazardous Bulk Solids Authority

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
No. 1 P/S	836	13.6
No. 2 P/S	842	13.6
No. 3 P/S	819	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3885	10ft 0in	13.6	LBS
III	4756	11ft 9in	13.6	LBS

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial C2-0701067, dated 05-APR-2007, and Grade "A" and lower cargoes may be carried, and then only in the tanks indicated.

Per 46 CFR 150.130, the Person in Charge of the vessel is responsible for ensuring that 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 compatibility group numbers from the "COMPAT GRP" column listed in the vessel's CAA.

When the vessel is carrying cargoes containing greater than 0.5% benzene, the Person In Charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

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 8.70 lbs/gal. Cargoes with higher densities, up to 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Vapor Control Authorization

In accordance with 46 CFR 39, excluding 46 CFR 39.40, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter Serial C2-0601581 dated 20-JUN-2006 and the list of authorized cargoes on the CAA, Serial C2-0701067 dated 05-APR-2007, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

--- Inspection Status ---



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

Certification Date: 03 Sep 2019 Expiration Date: 03 Sep 2024

Certificate of Inspection

Vessel Name: HTCO 3060

Cargo Tanks						7
	Internal Exam			External Exam	1	
Tank Id	Previous L	_ast	Next	Previous	Last	Next
No. 1 P/S	30Apr2007 0)5Aug2019	30Aug2029	- `	-	-
No. 2 P/S	30Apr2007 0)5Aug2019	30Aug2029	- ,	-	-
No. 3 P/S	30Apr2007 0)5Aug2019	30Aug2029	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
No. 1 P/S	-		-	-	-	
No. 2 P/S	- ,		-	-	-	
No. 3 P/S			-	_	-	

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Number of Fireman Outfits - 0

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

Guaritit

B-II

--- Certificate Amendments---

Unit Amending

Amendment Date

Amendment Remark

Sector New Orleans

18Dec2019

Amended to update owner name and address.

END



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3060

Shipyard: Trinity Marine, Madisonville

Serial #: C2-0701067

05-Apr-07

Hull #: 2160-3

Official #: 1196473

Tank Group Information	Cargo Identification				Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements			
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp
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(c), (e), (h), 56- 1(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.

- 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	n					Conditions of Carriage				
							Vapor R			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes		(1)								
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G
Acrylonitrile	ACN	15 ²	0	С	Ш	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	Ш	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G
Anthracene oil (Coal tar fraction)	АНО	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)	ВНВ	32 ²	0	С	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	Ш	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	Ш	Α	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	ВМН	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	No	N/A	No	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E	П	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	Ш	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	Ш	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G
Creosote	CCW	21 2	0	E	111	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	1	No	G
Crotonaldehyde	CTA	19 ²	0	С	11	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	Ш	Α	No	N/A	No	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	Ш	Α	Yes	1	.56-1 (b)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	Ш	Α	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
1,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No	G
Dichloromethane	DCM	36	0	NA	Ш	Α	Yes	5	No	G
1,1-Dichloropropane	DPB	36	0	C	Ш	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	Ш	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	Ш	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	П	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	Н	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	Е	111	Α	Yes	1	.55-1(c)	G



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3060 Official #: 1196473

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Shipyard: Trinity Marine, Madisonville

Dated:

C2-0701067

05-Apr-07

Hull #: 2160-3

Cargo Identifica	tion					Conditions of Carriage					
÷ .							Vapor Re	covery			
Name	Chem	Compat Group No	Sub	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.	
Diethylamine	DEN	7	0	С	III	A	Yes	3	.55-1(c)	G	
Diethylenetriamine	DET	7 2	0	Е	111	Α	Yes	1	.55-1(c)	G	
Diisobutylamine	DBU	7	0	D	111	Α	Yes	3	.55-1(c)	G	
Diisopropanolamine	DIP	8	0	E	Ш	Α	Yes	1	.55-1(c)	G	
Diisopropylamine	DIA	7	0	С	П	Α	Yes	3	.55-1(c)	G	
N,N-Dimethylacetamide	DAC	10	0	E	III	Α	Yes	3	.56-1(b)	G	
Dimethylethanolamine	DMB	8	0	D	Ш	Α	Yes	1	.56-1(b), (c)	G	
Dimethylformamide	DMF	10	0	D	111	Α	Yes	1	.55-1(e)	G	
Di-n-propylamine	DNA	7	0	С	11	Α	Yes	3	.55-1(c)	G	
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	III	Α	No	N/A	.56-1(b)	G	
Dodecyl diphenyl ether disulfonate solution	DOS	43	. 0	#	11	Α	No	N/A	No	G	
EE Glycol Ether Mixture	EEG	40	0	D	111	Α	No	N/A	No	G	
Ethanolamine	MEA	8	0	Е	III	Α	Yes	1	.55-1(c)	G	
Ethyl acrylate	EAC	14	0	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethylene cyanohydrin	ETC	20	0	E	III	A	Yes	1	No	G	
Ethylenediamine	EDA	7 2	0	D		A	Yes	1	.55-1(c)	G	
Ethylene dichloride	EDC	36 ²	0	C	111	Α	Yes	1	No	G	
Ethylene glycol hexyl ether	EGH	40	0	E	III	A	No	N/A	No	G	
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	A	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	0	E	III	A	Yes	<u>·</u> 1	No	G	
2-Ethylhexyl acrylate	EAI	14	0	 E	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	0	D/E	111	A	Yes	2	.50-70(a)	G	
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	A	Yes	1	No	G	
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	111	A	Yes	1	.55-1(h)	G	
Furfural	FFA	19	0	D	111	A	Yes	1	.55-1(h)	G	
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	A	No	N/A	No	G	
Hexamethylenediamine solution	HMC	7	0	E	III	A	Yes	1	.55-1(c)	G	
	HMI	7	0	C					.56-1(b), (c)		
Hexamethyleneimine	HFN	-	0	C	111	A	Yes	1	.50-70(a), .50-81(a), (b)	G	
Hydrocarbon 5-9	IPR	30	0	A				N/A	.50-70(a), .50-81(a), (b)	- G	
Isoprene Isoprene Pontadiona mixtura	IPN	30	0	В	111	A	No No	N/A	.50-70(a), .55-1(c)	G	
Isoprene, Pentadiene mixture		18 ²	0						No	G	
Mesityl oxide	MSO			D	111	A	Yes	1	.50-70(a), .50-81(a), (b)	G	
Methyl acrylate	MAM	14	0	С	111	A	Yes	2	No	G	
Methylcyclopentadiene dimer	MCK	30	0	С	111	Α	Yes	1		G	
Methyl diethanolamine	MDE	8	0	E		A	Yes	1	.56-1(b), (c)	G	
2-Methyl-5-ethylpyridine	MEP	9	0	E	- 111	A	Yes	1		G	
Methyl methacrylate	MMM		0	С		Α .	Yes	2	.50-70(a), .50-81(a), (b)	-	
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(c)	G	
alpha-Methylstyrene	MSR	30	0	D	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Morpholine	MPL	7 2	0	D	111	A	Yes	1	.55-1(c)	G	
1- or 2-Nitropropane	NPM	42	0	D	111	Α	Yes	1		G	
1,3-Pentadiene	PDE	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81	G	
Perchloroethylene	PER	36	0	NA	111	Α .	No	N/A	No EE 4(a)	G	
Polyethylene polyamines	PEB	7 2	0	E	111	Α	Yes	1	.55-1(e)	G	
iso-Propanolamine	MPA	8	0	E	111	Α	Yes	1	.55-1(c)	G	
Propanolamine (iso-, n-)	PAX	8	0	E	111	Α	Yes	1	.56-1(b), (c)	G	
iso-Propylamine	IPP	7	0	A	- 11	Α .	Yes	5	.55-1(c)	G	
Pyridine	PRD	9	0	С	III	Α	Yes	1	.55-1(e)	G	
Sodium chlorate solution (50% or less)	SDD	0 1,2		NA	111	Α	No	N/A	.50-73	G	
Styrene (crude)	STX		0	D	111	Α	Yes	2	No	G	



Serial #: C2-0701067

Dated: 05-Apr-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3060
Official #: 1196473

Diphenyl, Diphenyl ether mixtures

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Shipyard: Trinity Marine, Madisonville

Hull #: 2160-3

1100110			age 3	01 /					Hull #: 2160-3	
Cargo Identification	on							Condi	tions of Carriage	
								Recovery		
Styrene monomer	Chem Code STY	Group No 30	Sub Chapte O	Grade	Hull Type III	Tank Group A	App'd (Y or N) Yes	VCS Category 2	Special Requirements in 46 CFR 151 General and Mat'ls of .50-70(a), .50-81(a), (b)	Insp. Period G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	A	No	N/A	No No	G
Tetraethylenepentamine	TTP	7	0	E	 III	A	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	C	111	A	Yes	1	.50-70(b)	G
1,2,4-Trichlorobenzene	TCB	36	0	E		A	Yes	1	No	G
Trichloroethylene	TCL	36 ²	0	NA NA	 III	A	Yes	1	No	G
Triethylamine	TEN	7	0	C	11	A	Yes	3	.55-1(e)	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	III	A	No	N/A	.56-1(b)	G
Vinyl acetate	VAM	13	0	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	
Vinyl neodecanate	VND	13	0	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G
Subchapter D Cargoes Authorized for Vapor Contr	rol									
Acetone	ACT	18 ²	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E		A	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	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		Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	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		D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS		D	С		Α	Yes	1		
Butyl alcohol (tert-)	BAT		D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	E		Α	Yes	1		
Cyclohexane	CHX	31	D	С		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	E		Α	Yes	1		
n-Decaldehyde	DAL	19	D	E		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 2	D	E		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	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		

D

Ε

Yes

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Serial #: C2-0701067 Dated: 05-Apr-07

Certificate of Inspection Cargo Authority Attachment

Vessel Name: HTCO 3060 Official #: 1196473

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Shipyard: Trinity Marine, Madisonville

Hull #: 2160-3

Cargo Identificati	on					Conditions of Carriage						
								Recovery		T		
Name Diphenyl ether	Chem Code DPE	Compat Group No 41	Sub Chapter D	Grade {E}	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Dipropylene glycol	DPG	40	D	E		Α	Yes	1				
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1				
Distillates: Straight run	DSR	33		E		A	Yes	1				
Dodecene (all isomers)	DOZ	30	D	 D		Α	Yes	1				
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1				
2-Ethoxyethyl acetate	EEA	34	D			A	Yes	1				
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1				
Ethyl acetate	ETA	34	D	C		A	Yes	1				
Ethyl acetoacetate	EAA	34		E		A	Yes	1				
Ethyl alcohol	EAL	20 2	D	C		A	Yes	1				
Ethylbenzene	ETB	32		C		A	Yes	1				
Ethyl butanol	EBT	20	D	D		A	Yes	1				
Ethyl tert-butyl ether	EBE	41	D	C			Yes	1				
Ethyl butyrate	EBR	34	D	D		A	Yes	1				
Ethyl cyclohexane	ECY	31	D	D						-		
Ethylene glycol	EGL	20 2	D	E		A	Yes	1				
	EMA					A	Yes	1				
Ethylene glycol butyl ether acetate Ethylene glycol diacetate		34	D	E		Α	Yes	1				
· • • · · · · · · · · · · · · · · · · ·	EGY	34	D	E		A	Yes	1				
Ethylene glycol phenyl ether	EPE	40	D	E		Α .	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	С		Α	Yes	1				
Ethyl toluene	ETE	32	D	D		Α	Yes	1				
Formamide	FAM	10	D	Ε		Α	Yes	1				
Furfuryl alcohol	FAL	20 2	D	E		Α	Yes	1				
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1				
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	11				
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		Α	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	D	A/C		Α	Yes	1				
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1				
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1				
Glycerine	GCR	20 2	D	E		Α	Yes	1				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1				
Heptanoic acid	HEP	4	D	Е		Α	Yes	1				
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1				
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2				
Heptyl acetate	HPE	34	D	E		Α	Yes	1				
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		Α	Yes	1				
Hexanoic acid	HXO	4	D	E		Α	Yes	1				
Hexanol	HXN	20	D	D		Α	Yes	1				
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2				
Hexylene glycol	HXG	20	D	E		Α	Yes	1				
Isophorone	IPH	18 ²	D	E		Α	Yes	1				
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1				
Jet fuel: JP-5 (kerosene, heavy)	JPV	33		D		Α	Yes	1				
	KRS	33		D		Α	Yes	1				
Kerosene	VVO	33		_		/	163					



Serial #: C2-0701067 Dated: 05-Apr-07

Certificate of Inspection Cargo Authority Attachment

Vessel Name: HTCO 3060

Shipyard: Trinity Marine, Madisonville

Hull #: 2160-3

Official #: 1196473

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Cargo Identific	ation						Conditions of Carriage				
								Recovery			
Methyl alcohol	Chem Code MAL	Group No 20 ²	Sub Chapter D	Grade C	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Methylamyl acetate	MAC	34	D	D		Α	Yes	1			
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1			
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1			
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1			
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1			
Methyl butyrate	MBU	34	D	С		A	Yes	1			
Methyl ethyl ketone	MEK	18 ²	D	С		A	Yes	1			
Methyl heptyl ketone	MHK	18		D		A	Yes	1			
Methyl isobutyl ketone	MIK	18 ²	D	C		A	Yes	1			
Methyl naphthalene (molten)	MNA	32	D	E	-	A	Yes	1			
Mineral spirits	MNS	33	D	D		A	Yes				
Myrcene	MRE	30	D	D		A		1			
Naphtha: Heavy	NAG						Yes	1			
Naphtha: Petroleum		33	D	#		A	Yes	1			
Naphtha: Solvent	PTN	33	D	#		Α	Yes	1			
	NSV	33	D	D		Α	Yes	1			
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	11			
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1			
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1			
Nonene (all isomers)	NON	30	D	D		Α	Yes	2			
Nonyl alcohol (all isomers)	NNS	20 2	D	E		Α	Yes	1			
Nonyl phenol	NNP	21	D	E		Α	Yes	1			
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	1			
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1			
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1			
Octanol (all isomers)	OCX	20 2	D	E		Α	Yes	1			
Octene (all isomers)	OTX	30	D	С		Α	Yes	2			
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1			
Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1			
Oil, 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	E		Α	Yes	1			
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1			
Oil, misc: Diesel	ODS	33	D	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	ОТВ	33	D	E		A	Yes	1			
Pentane (all isomers)	PTY	31		Α		A	Yes	5			
Pentene (all isomers)	PTX	30	D	A		A	Yes	5			
alpha-Pinene	PIO	30	D	D		A	Yes	1			
beta-Pinene	PIP	30	D	D		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1			
Polybutene	PLB	30	D	E							
Polypropylene glycol	PGC	40	D	E		Α	Yes	1			
iso-Propyl acetate	IAC			C		Α	Yes	1			
		34	D			A	Yes	1			
n-Propyl acetate	PAT	34	D	С		A	Yes	1 .			
iso-Propyl alcohol	IPA	20 2		С		Α	Yes	1			
n-Propyl alcohol	PAL	20 2		С		Α	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1			

C2-0701067 Dated:

05-Apr-07

Certificate of Inspection

Cargo Authority Attachment

Shipyard: Trinity Marine,

Madisonville

Hull #: 2160-3

Vessel Name: HTCO 3060

Official #: 1196473

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Cargo Identificat	ion					Conditions of Carriage					
	Chem	Compat	Sub		Hull	Tank	Vapor I	Recovery VCS	Special Requirements in 46 CFR	Insp.	
Name iso-Propylcyclohexane	Code	Group No 31		Grade D		Group	(Y or N) Yes		151 General and Mat'ls of	Period	
Propylene glycol	PPG	20 2	D	E		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	Е		Α	Yes	1			
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1			
Tetrahydronaphthalene	THN	32	D	Е		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	Е		Α	Yes	1			
Triethylene glycol	TEG	40	D	Е	-	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			



Serial #:

C2-0701067

Dated: 05-Apr-07



Vessel Name: HTCO 3060 Official #: 1196473

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Shipyard: Trinity Marine,

Hull #: 2160-3

Explanation of terms & symbols used in the Table:

Cargo Identification

Chem Code

Compatability Group No

Note 1

Note 2

Subchapter Subchapter D Subchapter O 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.

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.

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

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.

Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.

Grade

Note 3

A, B, C Note 4

NA

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.

Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

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 Flammable liquid cargoes, as defined in 46 CFR 30-10 22

Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.

Those subchapter O cargoes which are not classified as a flammable or combustible liquid

No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available

le required parge fruit classification for carriage of the specified Subchapter of nazirous internal cargo, see 4.6 of No. 10.1.0.1.

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).

Hull Type

Conditions of Carriage Tank Group

Approved (Y or N)

Not applicable to barges certificated under Subchapter D

The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.

Conditions of Carriage

Vapor Recover

Tank Group Vapor Recover

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.

Approved (Y or N)

The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo

Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

VCS Category

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 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, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39,20-9

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



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@uscq.mil

16710/P014551/mpc Serial: C1-1600601 February 18, 2016

The Shearer Group, Inc Attn: Mr. Christian Olavesen 3101 Nasa Parkway, Suite I Seabrook, TX 77586 colavesen@shearer-group.com

Subj: Multi-Breasted Tandem Loading for Various Higman Marine Service Barges

Ref: (a) The Shearer Group, Dwg. No. 0131-014-043, Rev. 10, "Tank Barge Tandem Loading," 37 sheets, dated February 8, 2016

(b) Marine Safety Information Bulletin 11-14 dated July 8, 2014

Dear Mr. Olavesen:

We have reviewed the pressure drop calculations for multi-breasted tandem loading that were submitted with your email dated February 28, 2016 (MSC Document No. 1611057). Reference (a) is "Examined." The barges listed in enclosure (1) have vapor control systems previously approved by the Marine Safety Center approval letters listed in the last column of enclosure (1) and are acceptable for dual loading operations. Based on the calculations in reference (a), tandem loading is limited to the simultaneous collection of Subchapter D products and Benzene at a maximum vapor-air mixture density of 0.240 lbm/ft³ at a maximum transfer rate of 4,200 bbl/hr per barge.

Please note that in accordance with the procedural changes outlined in reference (b), tandem loading no longer requires final approval by Commandant (CG-ENG-5), but may be approved by the local Officer in Charge, Marine Inspection (OCMI) and may be subject to additional operational requirements.

(continued...)

Subj: Multi-Breasted Tandem Loading for Higman Marine Barges 16710/P014551/mpc

Serial: C1-1600601 February 18, 2016

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 Barges Approved for Tandem Loading

Copy: Supervisor, Marine Safety Detachment Nashville

Subj: Multi-Breasted Tandem Loading for Higman Marine Barges 16710/P014551/mpc

Serial: C1-1600601 February 18, 2016

Name	Builder	Hull#	Official No.	MAWP [psi]	PV Valve Setting [psig]	Date	Serial
HTCO 3002	Nashville Bridge Co.	4037	982734	2.19	1.0	Sept. 20, 1994	C2-9403099
HTCO 3003	Nashville Bridge Co.	4038	982560	2.19	1.0	Sept. 20, 1994	C2-9403099
HTCO 3004	Nashville Bridge Co.	4039	982561	2.19	1.0	Sept. 20, 1994	C2-9403099
HTCO 3005	Sterling Shipyard	H142	1256614	3.00	1.5	Dec 2, 2014	C1-1404325
HTCO 3006	Sterling Shipyard, LP	H130	1250652	3.00	1.5	Jan. 15, 2014	C1-1400109
HTCO 3007	Sterling Shipyard, LP	H131	1252793	3.00	1.5	Jan. 15, 2014	C1-1400109
HTCO 3008	Sterling Shipyard, LP	H132	1252794	3.00	1.5	Jan. 15, 2014	C1-1400109
HTCO 3009	Nashville Bridge Co.	4157	1027311	2.19	1.0	Oct. 7, 1994	C2-9403270
HTCO 3010	Nashville Bridge Co.	4158	1027308	2.19	1.0	Oct. 7, 1994	C2-9403270
HTCO 3011	Conrad, Morgan City	C-1058	1251102	3.00	1.5	Dec. 11, 2013	C1-1304157
HTCO 3012	Conrad, Morgan City	C-1059	1251103	3.00	1.5	Dec. 11, 2013	C1-1304157
HTCO 3013	McDermott Shipyards, Inc.	398	1041544	1.75	1.3	May. 21, 1996	C1-9601376
HTCO 3014	Snipyards, Inc.	399	1041545	1.75	1.3	May. 21, 1996	C1-9601376
HTCO 3015	McDermott Shipyards, Inc.	400	1041546	1.75	1.3	May. 21, 1996	C1-9601376
HTCO 3016	Trinity, Madisonville	4335	1083778	3.00	1.5	Jun. 17, 1999	C2-9901948
HTCO 3017	Trinity, Ashland City	4344	1083779	3.00	1.5	Jun. 17, 1999	C2-9901948
HTCO 3060	Trinity, Madisonville	2160-3	1196473	3.00	1.5	Dec. 7, 2006	E2-0603580
HTCO 3061	Trinity, Madisonville	2160-4	1196475	3.00	1.5	Dec. 7, 2006	E2-0603580
HTCO 3062	Trinity, Ashland City	4621	1210360	3.00	1.5	Mar. 25, 2008	C1-0800902
HTCO 3063	Trinity, Ashland City	4622	1210362	3.00	1.5	Mar. 25, 2008	C1-0800902
HTCO 3064	Trinity, Ashland City	4623	1210363	3.00	1.5	Mar. 25, 2008	C1-0800902
HTCO 3065	Trinity, Ashland City	4624	1210364	3.00	1.5	Mar. 25, 2008	C1-0800902
HTCO 3066	Trinity, Madisonville	2175-1	1218830	3.00	1.5	Mar. 19, 2009	C2-0900830
HTCO 3067	Trinity, Madisonville	2175-2	1218831	3.00	1.5	Mar. 19, 2009	C2-0900830
HTCO 3068	Trinity, Madisonville	2175-3	1218832	3.00	1.5	Mar. 19, 2009	C2-0900830
HTCO 3069	Trinity, Madisonville	2175-4	1218833	3.00	1.5	Mar. 19, 2009	C2-0900830
HTCO 3070	Trinity, Ashland City	4649	1218291	3.00	1.5	Mar. 19, 2009	C1-0900804
HTCO 3071	Trinity, Ashland City	4650	1218292	3.00	1.5	Mar. 19, 2009	C1-0900804
HTCO 3072	Trinity, Madisonville	2176-3	1218821	3.00	1.5	May. 26, 2009	C2-0901608
HTCO 3073	Trinity, Madisonville	4685	1222725	3.00	1.5	Aug. 31, 2009	C1-0902372
HTCO 3074	Trinity, Ashland City	4686	1222727	3.00	1.5	Aug. 31, 2009	C1-0902372
HTCO 3075	Trinity, Ashland City	4697	1223977	3.00	1.5	Dec. 7, 2004	C1-0903357