(22-38)	United States Department of Ho United States	meland Securit		ertification Da xpiration Date	
For ships on interr	Certificate o alional voyages this certificate fulfills the requirements of 80	F INSP DLAB 74 as bitterided, regi	ection VI14, for a 64	ON '	MENT.
Vessel Name	Official Number M	O Number	Call Sign	Service	
KIRBY 11351	1258945			Tank B	arge
Hailing Port NEW ORLEANS, LA	Hull Material Steel	Horsepower	Propulsion		
UNITED STATES					
Place Built BOURG, LA	Delivery Date Keel Laid Da 19May2015 15Nov20	0 726	Net Tons R-735	DWT	Lengih R-200.0
UNITED STATES	TOWAY2010 TOMOV20		⊦		10
Owner KIRBY INLAND MARINE I 55 WAUGH DR STE 1000 HOUSTON, TX 77007 UNITED STATES	P	Operator KIRBY INLAND M 18350 Market Str Channelview, TX JNITED STATES	eet 77530		
This vessel must be manne 0 Certified Lifeboatmen, 0	d with the following licensed and unlice Certified Tankermen, 0 HSC Type Rati	ensed Personnel. ing, and 0 GMDS	Included in v S Operators.	which there mu	ist be
0 Masters	O Licensed Mates O Chief Engineers	0 OI			*****
0 Chief Mates	0 First Class Pilots 0 First Assistant En	gineers			
0 Second Mates	0 Radio Officers 0 Second Assistant				
0 Third Mates	0 Able Seamen 0 Third Assistant Er	•			
0 Master First Class Pilot	0 Ordinary Seamen 0 Licensed Engineer 0 Deckhards 0 Qualified Member	~			
0 Mate First Class Pilots In addition, this vessel may Persons allowed: 0	0 Deckhands 0 Qualified Member carry 0 Passengers, 0 Other Persons i	w	s in addition t	o crew, and n	o Others. Total
Route Permitted And Co	nditions Of Operation:				
Lakes, Bays, and	Sounds plus Limited Coast	wise			
LIMITED COASTWISE SERVIC VISIBILITY, NOT MORE THAT	E: IN SEAS OF LESS THAN THREE (3) N TWELVE (12) MILES FROM SHORE BE	FEET, WIND LES Tween St. Marks	S THAN TWEN	TY (20) KNOT: ELLE, FLORID	S AND CLEAR A.
OT (N), TO BUTS VESSEL TS	NTED A FRESH WATER SERVICE EXAMIN OPERATED IN SALT WATER MORE THAN USING SALT WATER INTERVALS AND T	SIX (6) MONTHS	IN ANY TWE	LVE (12) MUN	IN PARIOD, INC
	R ADDITIONAL CERTIFICATE INF			, , , , , , , , , , , , , , , , , , ,	and the second
With this Inspection for Cerl Inspection, Houma, Louisian the rules and regulations pro-	ification having been completed at Hou a certified the vessel, in all respects, in scribed thereunder.	ima, LA, UNITE s in conformity wi	D STATES, II th the applica	ne Officer in C ible vessel insj	harge, Marine pection laws an
Annual/Pe	iodic/Re-Inspection	This certificate		CDR USCG	By Direction
Date Zone 3-4-2021 ATR-IN, TR	A/P/R Signature	Officer in Charge, Man			DY Direction
-25-2022 Port Ardwin 1-25-2022 Port Ardwin		1	· , ,	a, Louislana	
		Inspection Zone			

Dept. of Home Sec., USCG, CG-841 (Rev 4-2000)(v2)

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United States of America Department of Homeland Security United States Coast Guard Certification Date: 22 May 2020 Expiration Date: 22 May 2025

Certificate of Inspection

Vessel Name: KIRBY 11351

THIS TANK BARGE IS PARTICIPATING IN THE EIGHTH-NINTH COAST GUARD DISTRICT`S TANK BARGE STREAMLINED INSPECTION PROGRAM (TBSIP). INSPECTION ACTIVITIES ABOARD THIS BARGE SHALL BE CONDUCTED IN ACCORDANCE WITH ITS TANK BARGE ACTION PLAN (TAP). INSPECTION ISSUES CONCERNING THIS BARGE SHOULD BE DIRECTED TO OCMI HOUSTON-GALVESTON.

Hull Exam	S		×		
Exam Type	Next	Exam	Last Exam	Prior Exa	am
DryDock	31 M	ay2025	07May2015		
Internal Structure	e 31M	ay2025	19May2020	07May20	015
Liquid/Ga	s/Solid Cargo	Authority/Condit	tions		
Authorization:	GRADE "A" AND	LOWER AND SPECIF	IED DANGEROUS C	ARGOES	
Total Capacity	Units	Highest Grade Type	e Part151 Regulated	d Part153 Regulated	Part154 Regulated
11270	Barrel	А	Yes	No	No
*Hazardous Bul	k Solids Authority	k			
Loading Const	raints - Structural				2
Tank Number		Max Cargo Weight	per Tank (short tons)	Maximum Densi	ty (lbs/gal)
#1		611		15.0	
#2		713		15.0	
#3		634		15.0	
Loading Const	raints - Stability				
Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description	
L	1310	8ft 4in	15.0	R, LB&S, LC	
II	1543	9ft 4in	15.0	R, LB&S, LC	
III	1524	9ft 4in	15.0	LB&S	
Ш	1632	9ft 10in	13.50	LB&S	
III	1668	10ft 0in	12.80	LB&S	
Ш	1758	10ft 5in	15.0	R	
Ш	1848	10ft 10in	13.50	R	
	1866	10ft 11in	12.80	R	

DATED 10MAR2015, 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 CFR PART 197, SUBPART C ARE APPLIED.



United States of America Department of Homeland Security United States Coast Guard Certification Date:22 May 2020Expiration Date:22 May 2025

Certificate of Inspection

Vessel Name: KIRBY 11351

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 MARINE SAFETY CENTER LETTERS SERIAL #C1-1303636 DATED 280CT2015, AND FOUND ACCEPTABLE FOR THE COLLECTION OF BULK LIQUID CARGO VAPORS ANNOTATED WITH "YES" IN THE CAA'S VCS COLUMN."

---- Inspection Status ----

Cargo Tanks

	Internal Exam			External Exam	1	
Tank Id	Previous	Last	Next	Previous	Last	Next
#1	-	07 M ay2015	31May2025	-	-	-
#2	-	07May2015	31May2025	-	-	-
#3	-	07 M ay2015	31May2025	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
#1	-		-	-	-	
#2	-		-	-	-	
#3	-		-	-	-	

---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: CGBM 130

Shipyard: Bourg Dry Dock & Service Co.

Hull #: 7006

46 CFR 151 Tank				ics			Tanks		Carg		Environ			Special Require	ments		Ţ
Tank Group Information	Cargo lo	Ientificati	on	1	Cargo		Tanks		Tran	sfer	Control		Fire Protection		Materials of	Elec	Temp
Tnk Gro Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Provided	General	Construction	Haz	
A #1C. #2C. #3C	15	Atmos.	Amb.	I	1ii 2i1	Integral Gravity	PV	Closed	1	G-1	NR	NA		.50-60, .50-70(a).		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 cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

of Authorized Cargoes

Cargo Identification	n						C	ondi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Red App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes									.50-5, 50-70(b), .50-73 50-81	G
Acetone cyanohydrin	ACY	0 1.		E		<u>A</u>	Yes	3	No	G
Acetoritrile	ATN	37	0	C	ш	A	Yes	3	50-70(a) 55-1(a)	G
Acrylonitrile	ACN	15 ²	0	С	н	A	Yes	4	An and a second se	G
Adiponitrile	ADN	37	0	E	11	<u> </u>	Yes	1	No 50-81, 50-86	G
Alkyl(C7-C9) nitrates	AKN	34 ²	0	NA	111	A	No	N/A		G
Alivi alcohol	ALA	15 2	0	С	1.	A	Yes	3	no-6, .50-73	0
Ally chloride	ALC	15	0	в	1	А	Yes	3	50-5	
Aminoethylethanolamine	AEE	8	0	E	III	А	Yes	1	,65-1(b)	3
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	A	No	N/A		G
Ammonium hydroxide (28% or less NH3)	AMH	4 6	0	NA	111	А	No	N/A	and the second s	Ģ
and a second	ANL	. 9	0	E	I	A	Yes	3	50-5. 50-73	G
Aniline	AHC) 33	0	NA	11	A	No	N/A	A No	с
Anihracene oil (Coal tar fraction)	BNZ		0	С	111	A	Yes	1	.50-60	G
Benzene Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHE		0	С	111	·A	Yes	1	.50-60	3
Benzene or hydrocarbon mixtures (containing Acetylene and 10%	BHA	32	0	С	111	А	Yes	1	50-60, 56-1(b) (d), (f) (g)	G
Benzene or more)	BTX	(32	0	B/C	. 111	A	Yes	1	.50-60	n
Benzene. Toluene, Xylene mixtures (10% Benzene or more)	BAF		0	D		A	Yes	2	50-70(a), 50-61(a), (b)	G
Butyl acrylate (all isomers)	BM		0	D	111	A	Yes	2	.50-70(a), .50-81(s), (b)	G
Butyl methacrylate	BA		0	c	111		Yes	; 1	.55-1(h)	G
Butyraldehyde (all isomers)			0	 D		A	No	N/	A No	G
Camphor oil (light)	CP		0	E	1	A	Yes		50-5. 50-73	G
Carbolic oil	CB				100		No	, 0 N/	A No	G
Carbon tetrachloride	CB		2 0	NA				N/		G
Caustic potash solution	CP		07.5	NA			10.00	N		G
Caustic soda solution	CS			NA				N		G
Chemical Oil (refined. containing phenolics)	CO		0	E_		A			No	G
Chlorobenzene	CR		0	D	11				No	G
Chloroform	- CR			NA						c
Chiorohydrins (crude)	CH		0	D	!	A			and a second	G
o-Chloronitrobenzene	CN			E	1	A				G
Coal tar crude bases	СТ			D		Α			(A 50-5, 50-73, 55-1(e) .50-73	G
Coal tar naphtha solvent	NC	CT 33	0	D	1	I A	. Ye	s 1		
Creosoto	cc	W 21	2 0	E	1	I A	Ye	s 1	No	6
Cresols (all isomers)	CF	RS 21	0	E	1	II A	Ye	s 1	No	G



Serial # C1-1500947 Dated: 10-Mar-15

Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 130

Shipyard: Bourg Dry Dock & Service Co. Hull #: 7006

.50-70(a), 50-81(a). (b)

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Page 2 of 8 Official #: 1258945 **Conditions of Carriage Cargo Identification** Vapor Recovery Special Requirements in 46 CFR VCS App'd Y or N) Sub Hull Tank Insp. Chem Compat Grade 151 General and Mat'ls of Period Chapte Group Category Type Name Code Group No .50-73, .55-1(b) G NA N/A 0 111 A No 5 Cresylate spent caustic CSC G 111 Yes 55-1(f) 0 E A 1 21 CRX Cresylic acid tar С П Yes 4 .55-1(h) G 19 2 0 CTA A Crotonaldehyde No G С ш A Yes 1 Crude hydrocarbon feedstock (containing Butyraldehydes and CHG 0 Ethylpropyl acrolein) G 56-1(a), (b) D 111 Yes 1 CCH 18 0 A Cyclobexanone G .56-1 (b) 111 Yes 18 2 0 F CYX A 1 Cyclohexanone, Cyclohexanol mixture .56-1(a), (b), (c), (g) G 111 Yes 1 0 D A CHA 7 Cyclohexylamine .50-60, 56-1(b) G 111 Yes D 1 CSB 30 0 A Cyclopentadiene, Styrene, Benzene mixture G 2 50-70(a), .50-81(a), (b), 55-1(c) 0 F ш Yes IAI 14 A iso-Decyl acrylate .56-1(a), (b) G 0 F 111 A Yes 3 DBX 36 Dichlorobenzene (all isomers) No G С 111 Yes DCH 36 0 A 1 1,1-Dichloroethane G .55-1(f) 1 DEE 41 0 D 11 A Yes 2,2'-Dichloroethyl ether G 36 0 NA 111 A Yes 5 DCN Dichloromethane .56-1(a), (b), (c), (g) G No N/A DDE 43 0 E 111 A 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution G .56-1(a), (b), (c), (g) DAD 0 1.2 0 A 111 A NO N/A 2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution G .56-1(a), (b), (c), (g) 43 2 0 Ε 111 A No N/A DTI 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution G 36 0 С 111 A Yes 3 No DPB 1,1-Dichloropropane G No DPP 36 0 C 111 A Yes 3 1,2-Dichloropropane G No С 111 A Yes 3 DPC 36 0 1.3-Dichloropropane G No 4 DPU 0 D 11 A Yes 15 1.3-Dichloropropene G No DMX 15 0 С 11 A Yes 1 Dichloropropene, Dichloropropane mixtures G 111 .55-1(c) DEA 8 0 E A Yes 1 Diethanolamine .55-1(c) G DEN 7 0 С III A Yes 3 Diethylamine G 55-1(c) ш DET 72 0 E A Yes 1 Diethylenetriamine G D .55-1(c) 7 0 III A Yes 3 DBU Diisobutylamine G 55-1(c) 1 DIP 8 0 E Ш A Yes Diisopropanolamine 55-1(c) G С 11 3 DIA 7 0 A Yes Diisopropylamine Е 56-1(b) G 111 3 DAC 10 0 A Yes N,N-Dimethylacetamide DMB 8 0 D 111 A Yes 1 56-1(b), (c) G Dimethylethanolamine DME 10 0 D 111 A Yes 1 55-1(e) G Dimethylformamide G 55-1(c) DNA 7 0 С 11 A Yes 3 Di-n-propylamine G 56-1(b) Dodecyldimethylamine. Tetradecyldimethylamine mixture DOT 7 0 E 111 A No N/A No G # 11 No N/A A Dodecyl diphenyl ether disulfonate solution DOS 43 0 No 0 D 111 N/A **EE Glycol Ether Mixture** EEG 40 0 A No G .50-5 EPC 17 0 D A Yes 3 Epichlorohydrin 1 G .55-1(c) MEA 8 0 Е 111 A Yes 1 Ethanolamine G 50-70(a), .50-81(a), (b) 14 0 С 111 А Yes 2 EAC Ethyl acrylate G .55-1(6) Ethylamine solution (72% or less) EAN 7 0 A 11 A Yes 6 G 55-1(b) 0 D 111 3 EBA 7 A Yes N-Ethylbutylamine 55-1(b) G ECC 7 0 D Ш Yes 1 A N-Ethylcyclohexylamine 50-5, 50-73 G 0 D ECH 20 1 A Yes 3 Ethylene chlorohydrin Е 111 No G ETC 20 0 А Yes 1 Ethylene cyanohydrin G EDA 7 2 0 D 111 A Yes 1 55-1(c) Ethylenediamine G No EDC 36 2 0 С 111 А Yes 1 Ethylene dichloride Ne G EGH 40 0 E ш A No N/A Ethylene glycol hexyl ether G EGC 40 0 D/E 111 A Yes No 1 Ethylene glycol monoalkyl ethers G No EGP 40 0 Е Ш А Yes 1

2-Ethylhexyl acrylate ***

Ethylene glycol propyl ether

This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. de de de

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Yes

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Serial #: C1-1500947 Dated: 10-Mar-15

Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 130

Shipyard: Bourg Dry Dock & Service Co. Hull #: 7006

Official #: 1258945		Pag	ge 3 d	of 8					Hull #: 7006	
Cargo Identification							C	Condit	ions of Carriage	
Name			Sub hapter O	Grade D/E	Hull Type	Tank Group A	Vapor Re App'd (Y or N) Yes	VCS Category 2	Special Requirements in 46 CFR 151 General and Mat'ls of .50-70(a)	Insp. Period G
Ethyl methacrylate	EPA	19 2	0	E		A	Yes	1	No	G
2-Ethyl-3-propylacrolein	FMS	19 ²	0	D/E	111	А	Yes	1	55-1(h)	G
Formaldehyde solution (37% to 50%)	FFA	19	0	D	111	A	Yes	1	.55-1(h)	G
Furfural	GTA	19	0	NA	- 111	A	No	N/A	No	G
Glutaraidehyde solution (50% or less)	HMC	7	0	Е	ш	A	Yes	1	55-1(c)	G
Hexamethylenediamine solution	HMI	7	0	c	11	A	Yes	1	.56-1(b), (c)	G
Hexamethyleneimine	HFN	803 100	0	C	Ш	А	Yes	1	.50-70(a)50-81(a). (b)	G
Hydrocarbon 5-9		0 1.2	õ	E	1	A	Yes	3	50-5. 50-70(a), 50-73, 50-81(a). (G
2-Hydroxyethyl acrylate	HAI	75		A	10	A	Yes	7	.50-70(a)50-81(a). (b)	G
Isoprene	IPR	30	0	В	11	A	No	N/A	.50-70(n), .55-1(c)	G
Isoprene, Pentadiene mixture	IPN		0			<u>A</u>		N/A	.50-73, 56-1(a), (c), (g)	G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	10		No		No	G
Mesityl oxide	MSO	18 ²	0	D		A	Yes	1	.50-70(p), 50-81(n), (b)	G
Methyl acrylate	MAM	14	0	<u> </u>		<u>A</u>	Yes	2	No	G
Methylcyclopentadiene dimer	MCK	30	0	С	ш	A	Yes	1	.56-1(b). (c)	G
Methyl diethanolamine	MDE	8	0	E	щ	A	Yes	1	and the second	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	A	Yes		.55-1(a)	
Methyl methacrylate	MMM	14	0	С	111	A	Yes		50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	111	A	Yes		.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	111	А	Yes	2	50-70(a), 50-81(a), (b)	G
Morpholine	MPL	72	0	D		A	Yes	1	.55-1(c)	G
Nitrobenzene	NTB	42	0	Е	1	Α	Yes	3	.50-5, .50-73	G
Nitroethane	NTE	42	0	D	II.	А	No	N/A	· ·	6
1- or 2-Nitropropane	NPM	42	0	D	m	A	Yes	1	.50-81	G
o-Nitrotoluene	NIE	42	0	E	1	А	No	N/A	.50-5, .50-73	G
Pentachloroethane	PCE	36	0	NA	III	A	No	N//	No No	G
1,3-Pentadiene	PDE	30	0	A	10	А	Yes	; 7	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	111	А	NO	N/A	A No .	G
Polyethylene polyamines	PEB	7 2	0	E	. III	А	Yes	s 1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	E	111	A	Yes	5 1	55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	III	A	Yes	; 1	56-1(b) (c)	Ġ
iso-Propylamine	IPP	7	0	A	П	А	Yes	5 5	.55-1(c)	G
Pyridine	PRD	9	0	С	111	A	Yes	5 1	55-1(0)	G
Pyrolysis Gasoline	GPY	32	0	D		A	Yes	s 1	.50-5, .50-60	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium	SAP	5	0		ш	A	No	N/	Q .50-7355-1(j)	G
Hydroxide) Sodium aluminate solution (45% or less)	SAU	5	0	NA	ill	A	No	N/	A .50-7356-1(a). (b). (c)	G
Sodium aluminate solution (45% of less) Sodium chlorate solution (50% or less)	SDD	0 1.2		NA		A	No	N/		G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	HI	A	No			G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1.2	0	NA	111	A	Ye		.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1.2		NA	III	A	No		A 50-73. 55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0,5	0	NA	11	А	No	N/	A 50-7355-1(b)	G
Styrene (crude)	STX	30	0	D	10	А	Ye	s 2	No	G
Styrene monomer	STY	30	0	D	111	A	Ye	s 2	50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	111	A	No		A ^{No}	G
Control Con			0				Ye		.55-1(c)	G
Tetraethylenepentamine		41	- 0	E C	111	A A	Ye		50-70(b)	6
Tetrahydrofuran	THF	41				A	Te	3 1		A STREET OF THE



Serial #: C1-1500947 Dated: 10-Mar-15

Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 130

Shipyard: Bourg Dry Dock & Service Co. Hull #: 7006

Cargo Identification Conditions of Carriage Name Conditions Cond	Official #: 1258945		F	age 4	of 8					Hull #: 7006	and the second
Name Company Sub Company Company Sub Company Company Sub Company Company		1						(Conditi	ions of Carriage	
Name Case Displeter Displeter <thdispleter< th=""> <thdispleter< th=""> <thdispleter< <="" th=""><th>ourge raona</th><th></th><th></th><th></th><th> </th><th></th><th></th><th></th><th></th><th></th><th></th></thdispleter<></thdispleter<></thdispleter<>	ourge raona										
Name TDA 9 O E II A Not Not Astronation (Astronation (Astronationation (Astronationation (Astronation	225				Grade			App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	
Total Addies Tul 0 O E III A Yess 3 50., 1073 0 12.4.7 fricklordsmane TOM 36 0 NA III A Yess 1 Man 0 0 NA III A Yess 3 261,00 0 Tradithydinghorman (10% or fess), caustic sods solution TBS 0 NA III A No NA A No NA 40.00 NA 40.00 NA 40.00 NA 40.00 NA 40.00 0 0 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00					1	62600	· · · · · · · · · · · · · · · · · · ·				
12.4 Triphicondumentame TC0 66 0 E III A Ves. 1 A N <td></td> <td>TLI</td> <td>9</td> <td>0</td> <td>E</td> <td>- 11</td> <td>А</td> <td>Yes</td> <td>3</td> <td>.50-5, .50-73</td> <td></td>		TLI	9	0	E	- 11	А	Yes	3	.50-5, .50-73	
1, 2-7 traditoreathylene TCM S0 O NA III A Yes 1 set Set C Trichtoraethylene TCA 36 ² O NA III A Yes 1 set C		TCB	36	0	E	111	А	Yes	1	No	
Tickloregroup TCL 36 O NA III A Yes 1 38.72. skilul C 12.3-Trichloregroup TFA 8.4 O E III A Yes 1 skilul G Trichly-indettamine TEN 7 O E III A Yes 1 skilul G Trichly-indettamine TEN 7 O E III A Yes 1 skilul G Trichly-indettamine TEN 7 O E III A No NA Skilul G G O NA III A No NA Skilul G G O NA III A No NA Skilul Skilul G G O Nu Nu A No NA Skilul Skilul G G G G G Skilul Skilul G G G G G G G G G G G G G		TCM	36	0	NA	111	A	Yes	1	.50-73, .56-1(a)	
12.3-3-Training model TON 36 O E III A Yes 1 5 Trenhanolamine TEA 8 - 0 C III A Yes 1 5 5 5 5 5 5 5 5 0 NA NII A Yes 1 3 5 0 NA NII A Yes 1 3 5 0 NA NA NN NN A 50:0 0 NA NA NN NA 50:0 NA NA NN NA 50:0 NA NA NN A 50:0 0 NA NA NA 50:0 NA NA NA		TCL	36 ²	0	NA	111	A	Yes	1		
TrefA B ² O E III A Yes J Aster <	and the second	TCN	36	Ö	Ē	П	A	Yes	3	.50-73, 56-1(a)	
Telm TEN 7 O C II A Yes J autor Triedhydnetelramine TET 7.2 O E III A Yes J autor a Triedhydnetelramine TET 7.2 O E III A No NA Seria (avio) (d) G Urg, Amronum Initiate solution (containing more than 2% NH3) UAS 6 O NA III A No NA Seria (avio) (d) G <		TEA	8 2	0	E	111	A	Yes	1	2015	
Trefbylanaletramine TET 7 2 0 E III A Yes 1 A No NA Set-lin, b), (c) c Trejburghorane (10% or less), causile soda solution TSP 5 0 NA III A No NA Set-lin, b), (c) c Urag, Ammonium nitrate solution Containing more than 2% NH3 UAS 6 0 NA III A No NA Sora, set-lin, (b) c Viny acatate VAM 13 0 C III A No NA Sora, Sora, (b), (b) o o Viny locatate VNT 13 0 E III A Yes 2 Sora, Sora, (b), (b) o o Subchapter D Cargoes Authorized for Vapor Control A C A Yes 1 Accond(C12.C16) poly(1-6) poly(1-6) poly(1-6) poly(2-6) poly(1-6) poly(2-6) poly(1-6) poly(2-6) poly(1-6) poly(2-6) poly(1-6) poly(2-6) poly(1-6) poly(2-6) poly(TEN	7	0	С	П	A	Yes	3		0.000
Triphenylborane (10% or less), causitic soda solution TPB 5 0 NA III A No NVA zota active (i) c Usea, Annonum Intrate solution (containing more than 2% NH3) UAS 6 0 NA III A No NVA zota zette (ii) c Vanilin black flagor (free alkali content, 3% or more). VBL 5 0 NA III A No NVA zota zette (ii) c Vanilin black flagor (free alkali content, 3% or more). VBL 5 0 NA III A No NVA zota zette (ii) c c viry acetate VA 13 0 E III A Yes 2 zotapic, zette (ii) o viry acetate viry interviry it 0 D IIII A Yes 1 . Acotapic zette (ii) o o it A Yes 1 . . Acotapic zette (ii) o D D A Yes 1 Acotapic zette (ii) acotapic zette (ii)	The second	TET	7 2	0	Ē	111	А	Yes	1		
Triesdium phosphate solution TSP 5 0 NA III A No. NVA 46-169 0 Unea, Ammonium titute solution (content, 3% or more). VEL 5 0 NA III A No NVA 46-169 0 Virpl activates VAIII 13 0 C III A No NVA 56-72, 66-168, 10, 10 0 Virpl activates VND 13 0 C III A No NVA 56-70, 66-168, 10, 10 0 Virpl activates VND 13 0 C III A No NVA 56-70, 66-168, 10, 10 0 Subchapter D Cargoes Authorized for Vapor Controt A Virpl activates ACP 18 D E A Yes 1 - <td></td> <td>TPB</td> <td>5</td> <td>0</td> <td>NA</td> <td>RI</td> <td>А</td> <td>No</td> <td>N/A</td> <td>56-1(a), (b), (c)</td> <td></td>		TPB	5	0	NA	RI	А	No	N/A	56-1(a), (b), (c)	
Lines. Ammonium nitrite solution (containing more than 2%, NH3) UAS 6 O NA III A No NVA Strate Mail (addition of the solution) Vaniin black flipor (free skali content, 3% or more). VAM 13 O C III A Nos NVA Strate Mail (addition) 0 C III A Nos NVA Strate Mail (addition) 0 C III A Nos NVA Strate Mail (addition) 0 C III A Nos NVA Strate Mail (addition) 0 C IIII A Nos NVA Strate Mail (addition) 0 C A Yes 2 Strate Mail (addition) 0 C A Yes 1 Accorbine Accorbine ACC I Accorbine Addition (addition) A Yes 1 Accorbine Addition Addition A Yes 1 Accorbine Addition Addition Addition Addition Addition Addition Addition Addition Addition		TSP	5	0	NA	111	А	No	N/A	50-73, .56-1(a). (c).	
Under Anniholubin Production VBL 5 O NA III A No NA Association C Vm/M actatile VND 13 O C III A Yes 2 597ap, 43416; k6 (e) G Vm/Matchine VND 13 O C III A Yes 2 597ap, 43416; k6 (e) G Subchapter D Cargoes Authorized for Vapor Control Action A Yes 1 Aves 1 Accond C12 C16) poly(1 - Bjethoxylates APU 20 D E A Yes 1 -		UAS	6	0	NA	111	A	No	N/A	.56-1(b)	
Vinyl acadetite VAM 13 O C III A Yes 2 sortage, isortage, is				0	NA	111	A	No	N/A	.50-73, .56-1(a), (c), (g)	a a 🔔 tast
Ving readecentite VND 13 O E III A No IV/A Journal (1) Journal (1) <thj< td=""><td></td><td>VAM</td><td>1 13</td><td>0</td><td>С</td><td>111</td><td>А</td><td>Yes</td><td>2</td><td>50-70(a), .50-81(a), (b)</td><td></td></thj<>		VAM	1 13	0	С	111	А	Yes	2	50-70(a), .50-81(a), (b)	
Vinytoluene VNT 13 O D III A Ves 2 automatic and the set of the se		VND	13	0	E	111	А	No	N/A	.50-70(a), 50-81(a). (b)	
Subchapter D Cargoes Authorized for Vapor Control Act 18 2 D C A Yes 1 Acetone ACP 18 D E A Yes 1 Acetonic (72-C16) bly(1-6)thoxylates APU 0 D E A Yes 1 Acothol (C6-C17)(secondary) poly(7-12)ethoxylates AEB 20 D E A Yes 1 Amy lacetate (all isomers) AEC 34 D D A Yes 1 Amy lacetate (all isomers) AAI 20 D D A Yes 1 Benzy lacohol (sco- sec. primary) BAI 21 D E A Yes 1 Brake fluid base mitures (containing Poly(2-8)alkyten(C2-C3) BYkyten(C2-C4) Bykone(C2-C10) BAI 20 D A Yes 1 Butyl alcohol (iso-) IAI 202 D D A Yes 1 Butyl alcohol (rel-) BAS 202 D		VNT	13	0	D	111	A	Yes	s 2	50-70(a), .50-81, .56-1(a), (b), (c), (G .
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Diethylbenzene DEB 32 D D A Yes 1											
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	The second	DEE	3 32	D	D		А	Yes	s 1		
		DEC	G 40 ²	D	E		Α	Ye	s 1		



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 130

Shipyard: Bourg Dry Dock & Service Co.

Official #: 1258945		P	age 5 c	018					Hull #: 7006	
Cargo Identification	n						(Condi	tions of Carriage	
Cargo identification			Cub		Hull	Tank	Vapor R App'd	VCS	Special Requirements in 46 CFR	Insp.
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Туре	Group	(Y or N)	Category	151 General and Mat'ls of	Period
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	Е		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		A	Yes	1		
	DPN	30	D	D		A	Yes	1		e e i e e e e e e e e e e e e e e e e e
Dipentene	DIL	32	D	D/E		A	Yes	. 1	e e 1	121.2
Diphenyl Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1	1.000	
	DPE	41	D	{E}		A	Yes	1		
Diphenyl ether	DPG	40	D	Е		А	Yes	1	283	
Dipropylene glycol	DFF	33	D	E		А	Yes	1		
Distillates: Flashed feed stocks	DSR	33	D	E		Α	Yes	1		
Distillates: Straight run	DOZ	30	D	D		A	Yes	1		
Dodecene (all isomers)	DDB	32	D	Е	* 1	A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	EEA	34	D	D		А	Yes	1		
2-Ethoxyethyl acetate	ETG	40	D	E		A	Yes	1		
Ethoxy triglycol (crude)	ETA	34	D	С		A	Yes	1		
Ethyl acetate	EAA	34	D	Е		А	Yes	1		12
Ethyl acetoacetate	EAL	20 2	D	c		A	Yes	1	37 T	
Ethyl alcohol		32	D	c		A	Yes			
Ethylbenzene	ETB	20	D			A	Yes			
Ethyl butanol	EBT			C C		A	Yes			
Ethyl tert-butyl ether	EBE	.41	D			A	Yes			
Ethyl butyrate	EBR	34	<u>D</u>	0		A	Yes			
Ethyl cyclohexane	ECY	31	D	D				°		
Ethylene glycol	EGL	20 2	11	E		A	Yes	· · · · ·		
Ethylene glycol butyl ether acetate	EMA		D	E		A	Yes			
Ethylene glycol diacetate	EGY	34	D	E		A	Yes			
Ethylene glycol phenyl ether	EPE	40	D	E		<u>A</u>	Yes			
Ethyl-3-ethoxypropionate	EEP	34	D	D		A	Yes			
2-Ethylhexanol	EHX	20	D	E		A	Yes			
Ethyl propionate	EPR	34	D	С		A	Yes			
Ethyl toluene	ETE	32	D	D		А	Yes			
Formamide	FAM	1 10	D	E		A	Yes			
Furfuryl alcohol	FAL	20	מ	E		A	Yes			
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		A	Yes	s 1		
Gasoline blending stocks: Reformates	GRF	= 33	D	A/C		А	Ye	s 1		
Gasolines: Automotive (containing not over 4.23 grams lead per	GAT	33	D	С		А	Ye	s 1		
galion) Gasolines: Aviation (containing not over 4.86 grams of lead per	GA	/ 33	D	С		A	Ye	s 1		
gallon)	GCS	S 33	D	A/C	3	А	Ye	s 1		
Gasolines: Casinghead (natural)	GPI		D	A/C		A	Ye	s 1		
Gasolines: Polymer	GSI		D	A/0		A				
Gasolines: Straight run	GCI			E		A	Ye			
Glycerine	HM		D	C		A				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HEI		D	E		A				
Heptanoic acid			D	 D/I	=	A				
Heptanol (all isomers)	HT)		-		-					
Heptene (all isomers)	HP		D	C		A				
Heptyl acetate	HP	E 34	D	E		A	. 16	50 1		

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Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 130

Oil. misc: Turbine

Shipyard: Bourg Dry Dock & Service Co.

Official #: 1258945		F	age 6 d	of 8			-		Hull #: 7006		
Cargo Identification	1						(Condi	tions of Carr	iage	
Cargo Identification				1				Recovery			
	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirement 151 General and Mat	s in 46 CFR Is of	Insp. Period
	HXS	31 ²	D	B/C	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A	Yes	1			
Hexane (all isomers), see Alkanes (C6-C9)	HXO	4	D	E		A	Yes	1	3.*		
Hexanoic acid	HXN	20	D	D		A	Yes	1			
Hexanol	HEX	30	D	C		A	Yes	2			
Hexene (all isomers)	HXG	20	D	E		A	Yes	.1			
Hexylene glycol	IPH	18 2	D	E		A	Yes	1			
Isophorone	JPF	33		E		A	Yes	1			
Jet fuel: JP-4	JPV	33	D	D		А	Yes	1			
Jet fuel: JP-5 (kerosene, heavy)	KRS	33	D	D		A	Yes	1			
Kerosene	MTT	34	D	D		А	Yes	1			
Methyl acetate	MAL	20 ²	D	C		A	Yes	1			
Methyl alcohol		34	D	D		A	Yes	1			
Methylamyl acetate	MAC		D			A	Yes	1			
Methylamyl alcohol	MAA	20				A	Yes	1			
Methyl amyl ketone	MAK	18	D	D		Ā	Yes	1			
Methyl tert-butyl ether	MBE	41 2	D	<u> </u>		- A	Yes	1			
Methyl butyl ketone	MBK	18	D	C			1.000	1			
Methyl butyrate	MBU	34	D	С		A	Yes				
Methyl ethyl ketone	MEK	18 ²	D	°.	. 6	A	Yes	1			(8°)
Methyl heptyl ketone	MHK		D	D		A	Yes	. 1			
Methyl isobutyl ketone	MIK	18 %	D	C		<u>A</u>	Yes				
Methyl naphthalene (molten)	MNA		D	E		A	Yes		596. e	а <i>г</i>	
Mineral spirits	MNS		D	D		A	Yes		10.00		11 1 2) (11 1 2)
Myrcene	MRE		D	D		A	Yes				
Naphtha: Heavy	NAG	33	D	#		A	Yes				
Naphtha: Petroleum	PTN	33	D	#		A .	Yes		18		
Naphtha: Solvent	NSV	33	D	D		<u>A</u>	Yes				
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes				
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		A	Yes				•••••
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes				
Nonene (all isomers)	NON	30	D	D		<u> </u>	Yes				
Nonyl alcohol (all isomers)	NNS	20 2	D	E		<u>A</u>	Yes				
Nonyl phenol	NNP	21	D	E		A	Yes				
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Е		A	Yes				
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		Α	Yes				
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes				
Octanol (all isomers)	OCX	(20 ²	D	Е		A	Yes	s 1			
Octene (all isomers)	OTX	30	D	С		А	Yes	s 2			
Oil, fuel: No. 2	OTV	V 33	D	D/E		А	Yes	s 1			
Oil, fuel: No. 2-D	OTD	33	D	D		А	Yes	s 1			
Oil, fuel: No. 4	OFF	33	D	D/E		A	Ye	s 1			
Oil, fuel: No. 5	OFV	/ 33	D	D/E		А	Ye	s 1			(-)
Oil, fuel: No. 6	OS>	< 33	D	E		A	Ye	s 1			
Oil, misc: Crude	OIL		D	A/D)	A	Ye	s 1			
Oil, misc: Diesel	ODS		D	D/E		A	Ye	s 1			
Oil, misc: Gas, high pour	OGF		D	E		A	Ye	s 1			
	OLE	3 33	D	E		A	Ye	s 1			
OII, misc: Lubricating	ORI		D	E		A	Ye	s 1			
Oil, misc: Residual	OTE		D	E		А	Ye				

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OTB



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 130

Shipyard: Bourg Dry Dock & Service Co.

Official #: 1258945		F	age 7 d	of 8					Hull #: 7006
Cargo Identifica	tion						(Condi	tions of Carriage
Name	Chem Code	Compat Group No			Hull Type	Tank Group	App'd (Y or N)		Special Requirements in 46 CFR Ins 151 General and Mat'ls of Pe
Pentane (all isomers)	PTY	31	D	A		A	Yes	5	3 Ø
Pentene (all isomers)	PTX	30	D	A		A	Yes	5	
n-Pentyl propionate	PPE	34	D	D		<u>A</u>	Yes	1	
Ipha-Pinene	PIO	30	D	D		A	Yes	1	
eta-Pinene	PIP	30	D	D		A	Yes	1	8. 8:9 l
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		
Polybutene	PLB	30	D	Е		A	Yes	. 1	()
Polypropylene glycol	PGC	40	D	Е		A	Yes	1	
so-Propyl acetate	IAC	34	D	С		A	Yes	1	
	PAT	34	D	С		А	Yes	1	
n-Propyl acetate	IPA	20 2	D	С		А	Yes	1	
so-Propyl alcohol	PAL	20 2	D	С		A	Yes	1	
n-Propyl alcohol	PBY	32	D	D		А	Yes	1	
Propylbenzene (all isomers)	IPX	31	D	D		А	Yes	1	
so-Propylcyclohexane	PPG	20 2	D	E		A	Yes	1	
Propylene glycol	PGN	34	D	D	200	А	Yes	1	
Propylene glycol methyl ether acetate	PTT	30	D	D		А	Yes	1	
Propylene tetramer	SFL	39	D	Е		A	Yes	1	
Sulfolane	TTG	40	D	Е		А	Yes	1	
Tetraethylene glycol	THN	32	D	E		A	Yes	1	,
Tetrahydronaphthalene	TOL	32	D	С		A	Yes	1	
Toluene	TCP	34	D	E		A	Yes	1	
Tricresyl phosphate (less than 1% of the ortho isomer)	TEB	32	D	E		A	Yes	1	
Triethylbenzene	TEG		D	Е		А	Yes	1	
Triethylene glycol	TPS	34	D	E		A	Yes	1	
Triethyl phosphate	TRE	34	D	{D}		A	Yes		
Trimethylbenzene (all isomers)	TRP	34	U	E		A	Yes		
Trixylenyl phosphate			D	D/E		A	Yes		
Undecene	UDC		D	E		Â	Yes		
1-Undecyl alcohol			D			A	Yes		
Xylenes (ortho-, meta-, para-)	XLX	32	U	U		~ ~	165	<u>, ,</u>	



Shipyard: Bourg Dry Doc Hull #: 7006

Certificate of Inspection Cargo Authority Attachment

Page 8 of 8

Cargo Identification	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.
Name Chem Code	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.
none 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 cargo reactive group number assigned for compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables,
Note 1	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
Note 2	Chart. For additional compatibility information, contact commandant (Cocor Coco), one occurrence and the compatibility information contract commandant (Cocor Coco), one occurrence and the compatibility chart. See Appendix 1 to 46 CFR Part 150 - exceptions to the compatability chart.
• • • • • •	The subchapter in Title 46 Gode of Federal Regulations under which the cargo has been classified.
Subchapter Subchapter D	These formable and combustible liquids listed in 46 (JFK 12016 JU.22-1)
Subchapter O Note 3	Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2. Those cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.
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 and ensure that the barge is authorized for carriage of
A, B, C	that grade of cargo. Flammable liquid cargoes, as defined in 46 CFR 30-10-22.
D, E	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
Note 4	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 naminable of compusition induit. No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.
10 10 10 10 10 10 10 10 10 10 10 10 10 1	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
Hull Type	
u	Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3). Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).
III NA	Designed to carry products of summer research for equine or modeled by so the set of the
Conditions of Carriage	
Tank Group	The vessel's lank group (as defined in Section 4) which is authorized for carriage of the named cargo
Vapor Recovery	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo.
Approved (Y or N)	No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
Conditions of Carriage	
Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery	Yes. The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo.
Approved (Y or N)	No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Tilles 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 calculatione (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Determination) Determination and residue build up of these cargoes can adversely affect the yessel by fourting safety components and restricting vapor flow which could
United by a	lead to cargo tank overpressuration. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
	The cargo has not been evaluated/classified for use in vapor control systems.
none	