THIS END
TOWARDS HINGE

rtification Date: 22 Jul 2022
Expiration Date: 22 Jul 2027

Department of Homeland Security
United States Coast Guard

Certificate of Inspection

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

Vessel Name	Official Number	IMO Number	Call Sign	Service
CCL 24	1196547			Tank Barge

Hailing Port	Hull Material	Horsepower	Propulsion
NEW ORLEANS, LA UNITED STATES	Steel		

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
HOUSTON, TX UNITED STATES	23May2007	15Feb2007	R-735 I-	R-735 I-		R-200.0 I-0

Owner	Operator
CHEM CARRIERS LLC 1237 HIGHWAY 75 SUNSHINE, LA 70780 UNITED STATES	CHEM CARRIERS LLC 1237 HIGHWAY 75 SUNSHINE, LA 70780 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---

Also, in fair weather only, coastwise, 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.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

With this Inspection for Certification having been completed at Houston, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Sector Houston-Galveston 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	Zone	A/P/R	Signature
07JUN23	SEC H/G	A	EM1
28JUN24	SHG	A	CWO
04JUN25	SHG	P	GS

This certificate issued by:
Joseph W. Morgans CDR, USCG, By Direction
Officer in Charge, Marine Inspection
Sector Houston-Galveston
Inspection Zone

OMB No. 2115-0517

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

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1237 HIGHWAY 75
SUNSHINE, LA 70780
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Certification Date:	22 Jul 2022
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Certificate of Inspection

Vessel Name: CCL 24

---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	31Jul2027	13Jul2017	21May2007
Internal Structure	31Jul2027	21Jul2022	13Jul2017

--- 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
11430	Barrels	A	Yes	No	No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1	649	15.0
2	761	15.0
3	676	15.0

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
I	1429	8ft 9in	15.00	LBS
II	1519	9ft 2in	15.00	LBS
III	1735	10ft 2in	15.00	LBS
III	1807	10ft 6in	13.50	LBS
III	1825	10ft 7in	12.80	LBS
III	1915	11ft 0in	15.00	R
III	1969	11ft 3in	13.50	R
III	1987	11ft 4in	12.80	R

Conditions Of Carriage

Per 46 CFR 150.130, the Person In Charge of the barge (vessel) 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 reactive group numbers from the "REACT GRP" column listed in the vessel's Cargo Authority Attachment.

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C2-0701708, dated May 29, 2007, may be carried and then only in the tanks indicated.

In accordance with 46 CFR, Part 39, excluding part 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter, serial #C2-0602834, dated October 2, 2006, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 US Code of Federal Regulations Part 197, Subpart C are applied.

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

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Certificate of Inspection

Vessel Name: CCL 24

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exam		
Tank Id	Previous	Last	Next	Previous	Last	Next
1	21May2007	13Jul2017	31Jul2027	-	-	-
2	21May2007	13Jul2017	31Jul2027	-	-	-
3	21May2007	13Jul2017	31Jul2027	-	-	-

		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

Department of Homeland Security
United States Coast Guard

Serial #: C2-0701708
Dated: 29-May-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 24**
Official #: 1196547

Shipyard: Southwest Shipyard
Hull #: 9547

46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Hull Typ	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Protection Provided	Special Requirements		Elec Haz	Temp Cont
Tnk Grp	Tanks in Group	Density	Press.	Temp.			Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space		General	Materials of Construction		
A	1,2,3	15	Atmos.	Amb.	I	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.

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				
								Vapor Recovery			
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											
Acetonitrile	ATN	37	O	C	III	A	Yes	3	No	G	
Acrylonitrile	ACN	15 [2]	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 [2]	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 [2]	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G	
Ammonium hydroxide (28% or less NH3)	AMH	6	O	NA	III	A	No	N/A	.56-1(a), (b), (c), (f), (g)	G	
Anthracene oil (Coal tar fraction)	AHO	33	O	NA	II	A	No	N/A	No	G	
Benzene	BNZ	32	O	C	III	A	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 [2]	O	C	III	A	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 [2]	O	C	III	A	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G	
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	O	B/C	III	A	Yes	1	.50-60	G	
Butyl acrylate (all isomers)	BAR	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Butyl methacrylate	BMH	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Butyraldehyde (all isomers)	BAE	19	O	C	III	A	Yes	1	.55-1(h)	G	
Camphor oil (light)	CPO	18	O	D	II	A	No	N/A	No	G	
Carbon tetrachloride	CBT	36	O	NA	III	A	No	N/A	No	G	
Caustic potash solution	CPS	5 [2]	O	NA	III	A	No	N/A	.50-73, .55-1(j)	G	
Caustic soda solution	CSS	5 [2]	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 [2]	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 [2]	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 [2]	O	E	III	A	Yes	1	.56-1 (b)	G	
Cyclohexylamine	CHA	7	O	D	III	A	Yes	1	.56-1(a), (b), (c), (g)	G	
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	O	D	III	A	Yes	1	.50-60, .56-1(b)	G	
iso-Decyl acrylate	IAI	14	O	E	III	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G	

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

Department of Homeland Security
United States Coast Guard

Serial #: C2-0701708
Dated: 29-May-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 24**
Official #: 1196547

Shipyard: Southwest Shipyard
Hull #: 9547

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
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
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	No	N/A	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 [1,2]	O	A	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 [2]	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 [2]	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
Dodecyldimethylamine, 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 [2]	O	D	III	A	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 [2]	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 [2]	O	E	III	A	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 [2]	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	No	N/A	.50-70(a), .50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN		O	B	III	A	No	N/A	.50-70(a), .55-1(c)	G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 [2]	O	D	III	A	Yes	1	No	G

Department of Homeland Security
United States Coast Guard

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 24**
Official #: 1196547

Shipyard: Southwest Shipyard
Hull #: 9547

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
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
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(c)	G
alpha-Methylstyrene	MSR	30	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 [2]	O	D	III	A	Yes	1	.55-1(c)	G
1- or 2-Nitropropane	NPM	42	O	D	III	A	Yes	1	.50-81	G
Pentachloroethane	PCE	36	O	NA	III	A	No	N/A	No	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 [2]	O	E	III	A	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	O	E	III	A	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	O	E	III	A	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	O	A	II	A	Yes	5	.55-1(c)	G
Pyridine	PRD	9	O	C	III	A	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		O		III	A	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 [1,2]	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 [1,2]	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 [1,2]	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 [1,2]	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 [2]	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 [2]	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 [2]	O	E	III	A	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	O	NA	III	A	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	O	NA	III	A	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanate	VND	13	O	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	VNT	13	O	D	III	A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G

Subchapter D Cargoes Authorized for Vapor Control

Acetone	ACT	18 [2]	D	C		A	Yes	1
Acetophenone	ACP	18	D	E		A	Yes	1

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 24**
Official #: 1196547

Shipyard: Southwest Shipyard
Hull #: 9547

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
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
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 [2]	D	D		A	Yes	1		
Butyl alcohol (n-)	BAN		D	D		A	Yes	1		
Butyl alcohol (sec-)	BAS		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 [2]	D	E		A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	DAA	20 [2]	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 [2]	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		
Dioctyl phthalate	DOP	34	D	E		A	Yes	1		
Dipentene	DPN	30	D	D		A	Yes	1		
Diphenyl	DIL	32	D	D/E		A	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1		
Diphenyl ether	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	DPG	40	D	E		A	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1		
Distillates: Straight run	DSR	33	D	E		A	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1		
Ethyl acetate	ETA	34	D	C		A	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1		
Ethyl alcohol	EAL	20 [2]	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		

Department of Homeland Security
United States Coast Guard

Serial #: C2-0701708
Dated: 29-May-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 24**
Official #: 1196547

Shipyard: Southwest Shipyard
Hull #: 9547

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
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
Ethyl butyrate	EBR	34	D	D		A	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1		
Ethylene glycol	EGL	20 [2]	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 [2]	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 [2]	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 [2]	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 [2]	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 [2]	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 [2]	D	C		A	Yes	1		
Methyl butyl ketone	MBK	18	D	C		A	Yes	1		
Methyl butyrate	MBU	34	D	C		A	Yes	1		
Methyl ethyl ketone	MEK	18 [2]	D	C		A	Yes	1		
Methyl heptyl ketone	MHK	18	D	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	1		
Myrcene	MRE	30	D	D		A	Yes	1		
Naphtha: Heavy	NAG	33	D	#		A	Yes	1		

Department of Homeland Security
United States Coast Guard

Serial #: C2-0701708
Dated: 29-May-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 24**
Official #: 1196547

Shipyard: Southwest Shipyard
Hull #: 9547

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
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
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 [2]	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 [2]	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: 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		
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 [2]	D	C		A	Yes	1		
n-Propyl alcohol	PAL	20 [2]	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 [2]	D	E		A	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1		
Propylene tetramer	PTT	30	D	D		A	Yes	1		
Sulfolane	SFL	39	D	E		A	Yes	1		
Tetraethylene glycol	TTG	40	D	E		A	Yes	1		
Tetrahydronaphthalene	THN	32	D	E		A	Yes	1		
Toluene	TOL	32	D	C		A	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	1		
Triethylbenzene	TEB	32	D	E		A	Yes	1		
Triethylene glycol	TEG	40	D	E		A	Yes	1		
Triethyl phosphate	TPS	34	D	E		A	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		A	Yes	1		
Trixylenyl phosphate	TRP	34	D	E		A	Yes	1		
Undecene	UDC	30	D	D/E		A	Yes	1		
1-Undecyl alcohol	UND	20	D	E		A	Yes	1		

Department of Homeland Security
United States Coast Guard

Serial #: C2-0701708
Dated: 29-May-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 24**
Official #: 1196547

Shipyard: Southwest Shipyard
Hull #: 9547

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
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
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1		

Certificate of Inspection

Cargo Authority Attachment

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	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.
none	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
Note 2	(202) 372-1425.
	See Appendix I to 46 CFR Part 150 - exceptions to the compatability 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 sufficeint 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 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. 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.
none	The cargo has not been evaluated/classified for use in vapor control systems.

DHS, USCG, CG-1270 (REV. 01-23)

OMB APPROVED
1625-0027

UNITED STATES OF AMERICA

DEPARTMENT OF HOMELAND SECURITY
UNITED STATES COAST GUARD

NATIONAL VESSEL DOCUMENTATION CENTER

CERTIFICATE OF DOCUMENTATION

VESSEL NAME	OFFICIAL NUMBER	IMO OR OTHER NUMBER	YEAR COMPLETED
CCL 24	1196547	9547	2007

HAILING PORT	HULL MATERIAL	MECHANICAL PROPULSION
NEW ORLEANS LA	STEEL	NO

GROSS TONNAGE	NET TONNAGE	LENGTH	BREADTH	DEPTH
735 GRT	735 NRT	200.0	35.0	12.5

PLACE BUILT

HOUSTON TX

OWNERS

CHEM CARRIERS LLC
COMPRISED OF ONE MEMBER

OPERATIONAL ENDORSEMENTS

COASTWISE

MANAGING OWNER

CHEM CARRIERS LLC
1237 HIGHWAY 75
SUNSHINE LA 70780

RESTRICTIONS

NONE

ENTITLEMENTS

NONE

REMARKS

NONE

ISSUE DATE

AUGUST 06, 2025

THIS CERTIFICATE EXPIRES

SEPTEMBER 30, 2026

Christine H. Washburn

DIRECTOR, NATIONAL VESSEL DOCUMENTATION CENTER

PREVIOUS EDITION OBSOLETE, THIS CERTIFICATE MAY NOT BE ALTERED

U.S. COAST GUARD

National Pollution Funds Center

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Click on the Document Icon to the left of a record to display a COFR Confirmation in html. You may print the COFR Confirmation by right clicking your mouse and selecting "print" from the list.

VESSEL NAME	VESSEL TYPE	HULL TYPE	GROSS TONNAGE	COFR NUMBER	EFFECTIVE DATE	EXPIRATION DATE	COFR APPLICANT	VIN	INSURANCE CANCEL FLAG
CCL 24	TANKBARGE D		735	841310 - 21	8/11/2023	8/11/2026	CHEM CARRIERS, L.L.C	D1196547	

< Prev Next >

Ksolv

BARGE VAPOR TIGHTNESS LETTER

NOTE: Test results are valid for (1) one year from date of test

- Test date: 3-1-25
- Barge owner: CHEM CARRIERS
- Barge Name/Official Number: CCL-24
- Maximum load rate (BPH): 3,500 BPH

→ Pressure cargo tanks and vapor system to (28) twenty-eight inches of water using a Manometer to record the time and pressure. Close all valves and allow the vessel to Remain pressure for (30) thirty minutes. Use soap to test and inspect for leaks. After (30) thirty minutes, record pressure and times.

→ Test cargo tanks and Vapor System to 28" inches of water.

→ Start Time: 10:00 Beginning Pressure: 28"

→ End Time: 10:40 Ending Pressure: 27.8

✓ **This vessel has been tested in accordance with Section 61.304f and has been found to to be vapor tight.**

Company of Tester:	Location:
KSOLV MARITIME	CHANELVIEW TX
Name of Tester (Print):	Signature of Tester:
Benito Gutierrez	Benito Gutierrez
Name of Witness (Print):	Signature of Witness:
MATILDE SALGADO	
Affiliation/Company of Witness (Print)	
FOREMAN / KSOLV MARITIME	

1015 Lakeside Dr, Channelview, TX 77530
Phone: 281-452-4000 Fax: 281-452-5523
Revised 10/03/2019

Ksolv

BARGE PIPING LETTER

INSTURCTIONS: ALL FIELDS ARE REQUIRED. USE N/A ON ANY NON-APPLICABLE LINE.

BARGE OWNER/BARGE NAME: CHEM CARRIERS (CCL-24)

Letter expiration date (one year from test date): 3-1-26

NOTE: Test results are valid for (1) year from the date of test.

1. Cargo Piping and Valves (actual date of test): 3-1-25

   Test Pressure (188 psi): 188 PSI

2. Cargo Relief Valve (actual date of test): 3-1-25

   Test Pressure (125 psi): 125 PSI

3. Cargo Pressure Gauge (actual date of test): 3-1-25

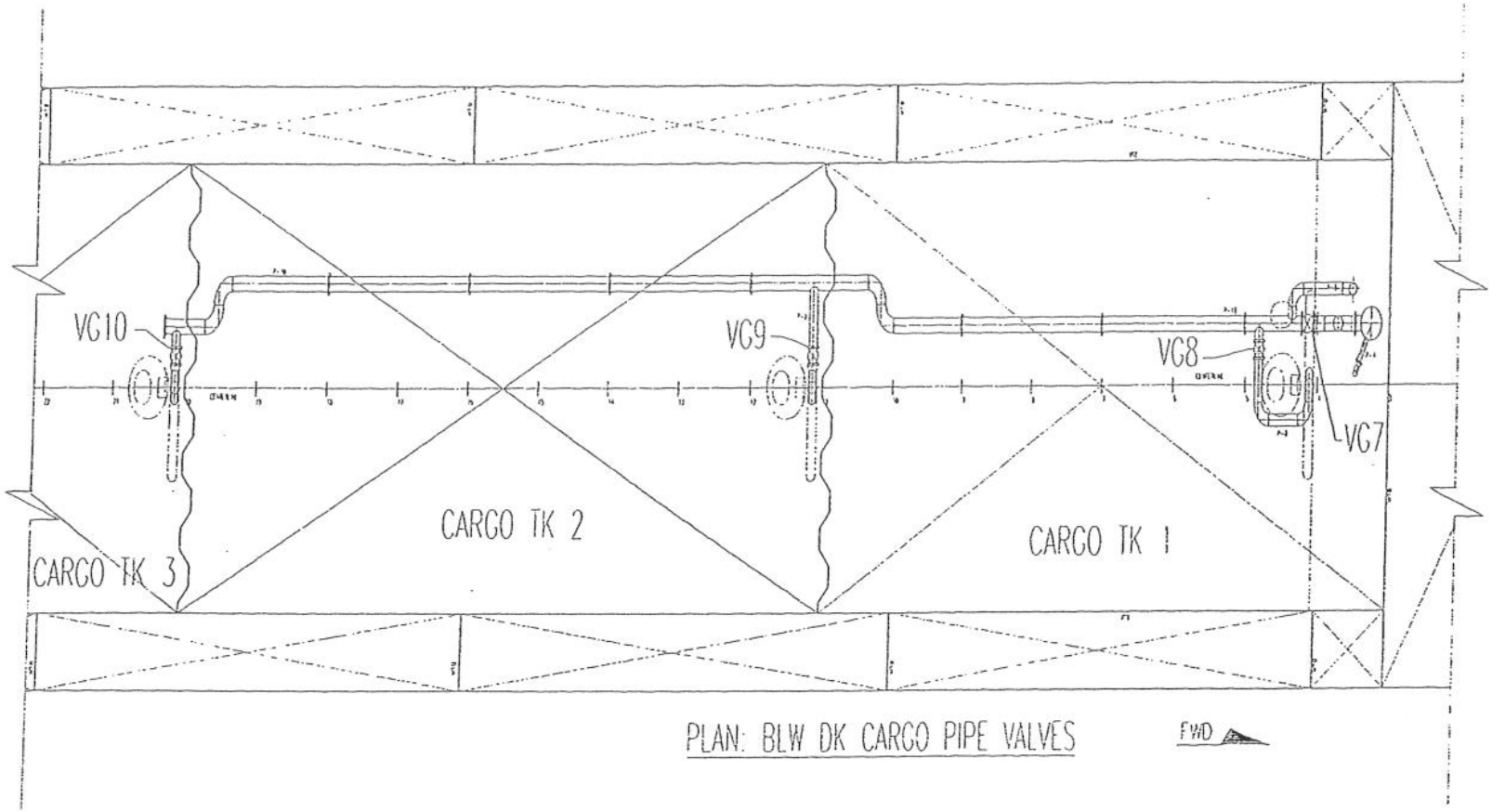
   Percent of Accuracy (%): 98%

4. Steam Piping and Relief Valves (actual date of test): N/A

   Test Pressure (125 psi): N/A

Signature of Tester:	Benito Gutierrez
Printed Name of Tester:	Benito Gutierrez
Company/Location of Tester:	KSOLV MARITIME/ CHANELVIEW TX

1015 Lakeside Dr, Channelview, TX 77530
Phone: 281-452-4000 Fax: 281-452-5523
Revised 10/03/2019

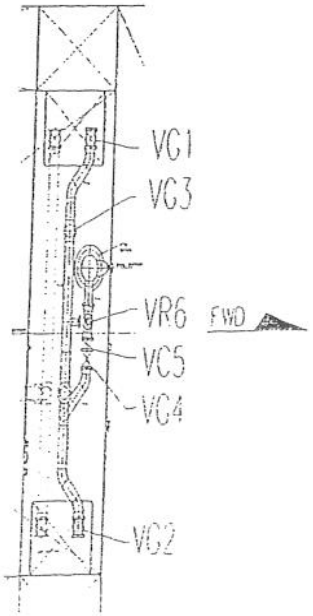


PLAN: BLW DK CARGO PIPE VALVES

FWD

VALVE LEGEND

VC7 = PUMP DISCHARGE GATE VALVE
VC8 = CT 1 SUCTION VALVE
VC9 = CT 2 SUCTION VALVE
VC10 = CT 3 SUCTION VALVE

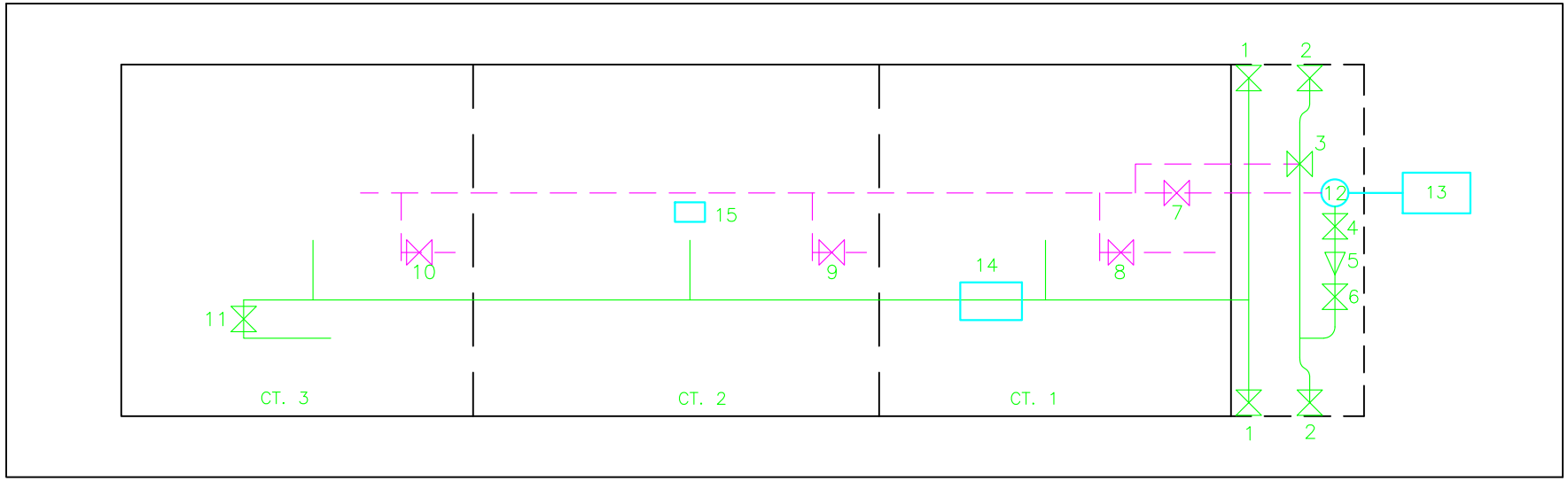


PLAN: ABV DK CARGO PIPE VALVES

VALVE LEGEND

VC1 = MAIN HEADER PORT DISCHARGE VALVE
VC2 = MAIN HEADER STBD DISCHARGE VALVE
VC3 = MAIN HEADER LOADING VALVE
VC4 = PUMP MASTER SUCTION VALVE
VC5 = PUMP CHECK VALVE

CCL 24
Cargo & Vapor Piping



Parts List								
ITEM	QTY	NAME	ITEM	QTY	NAME	ITEM	QTY	NAME
1	2	Vapor Header Valve	7	1	Master Suction Valve	13	1	Pump Engine
2	2	Cargo Header Valve	8	1	No. 1 Cargo Tank Valve	14	1	High Velocity PV Valve
3	1	Drop Valve / Load Valve	9	1	No. 2 Cargo Tank Valve	15	1	Emergency Shutdown
			10	1	No. 3 Cargo Tank Valve			
4	1	Pressure Release Valve	11	1	Vent Stack Valve			
5	1	Pump Discharge Check Valve	12	1	Deep Well Pump			
6	1	Pump Discharge Valve						

Edited 07/13/2020

Security Plan Information Sheet (Barges Copy)

A copy of this page to be placed on the barges with the vessel's documents:

This vessel is covered by a Security Plan. The plan is maintained by the vessel's owner, Chem Carriers, LLC in their Louisiana office.

The current custodian of the vessel, (towboat/fleet/dock), has access to the plan or a copy.

In the event of a TSI (Transportation Security Incident): Contact the following by the most secure means available:

Landline	Preferred
Cell Phone	If no land line readily available
VHF Radio	Emergency (non secure mode)

Dept. of Homeland Security:	USCG Response Center: 800-424-8802
Vessel Owner:	Chem Carriers, LLC.. 225-775-1625
Local Authorities:	If unknown, advise owner of vessel's location.
Capt. of the Port.	Nearest COTP (USCG)

In the event the (TSI) involves a spill or threat of a spill, refer to the OPA-90 Plan maintained on board the vessel for additional information and contact numbers.

In the event of a (TSI) the safety of personnel is most important. Activities and actions should not endanger the crew or dock personnel.

A copy of this page to be placed on the barges with the vessel's documents

CARGO TRANSFER PROCEDURES

CHEM CARRIERS L.L.C.

TRANSFER FROM BARGE TO DOCK

PARTS

Barge CCL 22

PARTS 1. PRODUCTS TRANSFERRED

33 CFR 155.750 (a) (1) (i)

This vessel is certificated for the carriage of grades "A" and lower Sub-Chapter (D) and (O) Products. It has also been certified to carry vapor products. Reference Certificate of Inspection.

PARTS 2. DESCRIPTION OF CARGO TRANSFER SYSTEM

33 CFR 155.750 (a) (2) (i) (ii)

The cargo transfer procedures apply to all Chem Carrier L.L.C. owned or leased tank barges. In most cases other than series built barges, the cargo piping arrangement is usually slightly different on every barge, and for this reason, the piping diagram must be studied before loading or discharging a barge. The basic concept for loading and discharging is fairly standard depending on the location of the pump.

A. (Reference the piping diagram for transfer system arrangement.)

B. PROCEDURES FOR THE CONTAINMENT SYSTEM

33 CFR 155.310 (a) (1) (iv)
33 CFR 155.750 (a) (2) (iii)

1). The containment pans are equipped with a drain for the removal of slops to shore facilities:
NEVER DRAIN THE CONTAINMENT TANKS ONTO THE DECK.

2). CCL 22 is equipped with a separate containment area for

the cargo trunk top and the forward deck area. Each containment area is equipped with drains and scupper plugs. Plugs should be installed prior to cargo transfer and removed after the cargo transfer is complete. PIC should notify Chem Carriers when containment areas need cleaning or if scupper plugs need replacing. **Never Drain Product captured in containment area overboard.**

PARTS 3. PERSONS ON DUTY DURING TRANSFER

33 CFR 155.750 (a) (3)

Number of persons required on duty during transfer operations:

A. At no time during the transfer operation will be less than one responsible person on duty. The certified tankerman assigned shall be in charge and responsible for the safe transfer of cargo.

PARTS 4. PERSONS IN CHARGE

The tanker man (person in charge) is responsible for transferring cargo and carrying out related operations on board in an efficient, safe, and pollution free manner. The tankerman whether employed by the towboat, owner, operator, a shore tankerman service, or Chem Carriers L.L.C., shall comply with all Coast Guard, State and local regulations. Tankerman's responsibility shall include but not be limited to the following:

A. To have on his/her person a valid merchant marine document endorsed as tankerman, certified to handle the grade of cargo to be transferred.

B. Make a thorough inspection of the barge prior to the start of transfer operation.

C. To have proper connection of the grounding cable.

D. The vessel's moorings are adequate to hold during all expected conditions of surge, current, wind, tide, ect., and lines are long enough to allow for surge, tide, wind, changes in draft ect.

E. Proper hose sizes, lengths, support, and connections.

F. The condition of fire extinguishers and required number.

G. The person in charge of transfer operations on the transferring vessel or facility and the person in charge of transferring operations on the receiving vessel or facility agree to begin the transfer operations.

H. The transfer operation between tank barges and dock facilities should be lighted between sunset and sunrise to comply with the U. S. Coast Guard regulation pertaining to the displaying of lights on barges as required by Title 33.

I. The PIC (PERSON IN CHARGE) will be responsible for the DOI (declaration of inspection) and DOS (declaration of security).

J. Always maintain communications with dock or shore personnel with an agreed upon approved system.

PARTS 5: EMERGENCY SHUTDOWN

33 CFR 155.750 (a) (6)

THE EMERGENCY SHUTDOWN IS LOCATED NEAR THE CENTER OF THE BARGE.

A. In the event of an emergency, transfer operations can be stopped by pulling the remote shutdown cable.

B. Familiarize yourself with its location and operation prior to transfer.

PARTS 6; TOPPING OFF PROCEDURES

33 CFR 155.750 (a) (7)

In the process of topping off, tanks should be loaded at different levels to top off one at a time. Extra care should be taken to avoid over pressuring the connections, and hoses by closing valves against the receiving line. Since barges and facilities vary in their systems, no standard for topping off exist, but the following should be considered:

A. The closing of one tank increases the rate of flow to other tanks on the same line.

B. Always consider temperature and cargo in accordance with the amount of expansion that should be allowed.

C. Always maintain communications with dock or shore personnel.

D. A set of dipstick overfill devices have been installed on the CCL 22. Dipsticks can be made operational by releasing the covers or caps. Dipsticks should be used as a visual aid for overfill protection.

PARTS 7: COMPLETION OF TRANSFER

33 CFR 155.750 (a) (8)

Upon the completion of the transfer all pipelines should be drained into cargo tanks. The header valve used during the operation should than be closed, sealed off with a blind flange and shore personnel should seal lines and hatches on vessel.

PARTS 8: REPORTING CARGO SPILLS

33 CFR 155.750 (a) (9)

Should an accidental discharge of product occur, you should consider the following:

A. Locate the source of the spill and try to stop it, if possible, and safe to do so.

B. Make an attempt to contain the product if possible.
C. Notify the Coast Guard. The national Response Center at 1-800-424-9300.
D. Notify Chem Carriers L.L.C. at (225) 642-0060 or Digital pager# 800-213-4791.
E. If loading, transfer the cargo from the leaking tank to an adjacent tank or back to the dock if safe to do so.
E. If discharging, pump the product from the leaking tank as quickly as possible if safe to do so.

***When reporting a spill, the tankerman should provide the following information:**

A. Name (his or her)
B. Name of Company: (employed by;(contracted by;
C. Name of Barge.
D. Spill Location
E. Specify Product.
F. Estimate Quantity of Spill
G. Weather, Tide, Sea and Current Conditions.
H. Cause of Spill.
I. Action Being Taken to Contain and Stop Spill

PART 9 CLOSURES ON VESSELS

Upon completion of cargo transfer operations, all tank hatch covers, ullage covers, and gauging device covers shall be dogged down and secured. In addition, the vent drain valves, if installed, should be secured and left in the proper position. All drain valves should be closed, and drip pan covers, if installed, should be made up tight. Covers for void spaces, bow and stern compartments shall be secured at all times and checked for tightness. Closing devices on clean-out hatches and clean-out opening should be checked, especially when the barge is loaded.

PART 10 PRODUCT DATA

See specific MSDS sheets provided with these procedures.

Incase of any other emergency, immediately shut down and notify the transferring facility, and Chem Carriers L.L.C. (225) 642-0060 24 Hour Line.

PART 11

VAPOR CONTROL PROCEDURES

This is a guide only and is not intended to replace experience, sound judgment, and a proper assessment of the task at hand.

The tankerman on duty is the acting Designated Person In Charge (PIC) and is responsible for cargo transfer operations and carrying out related operations on barges.

1. Vapor Recovery Transfer Maximum Rate is 2300 BBLS/HR for subchapter "D" Cargoes and 2400 BBBLS/Hr for subchapter "O" Cargoes.

1.1 Transfer rates, which exceed these maximums, must be approved by Chem Carriers.

1.2 Transfer rates for each cargo tank should not exceed the maximum transfer rate.

2. Pre-transfer Inspection For Vapor Recovery Operations

2.1 Follow the procedures outlined below in addition to the procedures utilized during normal transfers:

2.1.1 Wear personal protective equipment (PPE) as needed for the cargo in the barge when testing P/V and, hooking up hoses, or draining low points.

2.1.2 Ensure that a Certificate of Vapor Tightness is onboard and valid.

2.1.3 Close the low point drain on the port/starboard vapor header, if applicable.

2.1.4 Close the low point drain near the vent stack, if applicable.

2.1.5 Close valve to the vent riser if applicable.

2.1.7 Blinds used for the vapor control manifold should have a hole to accommodate the ½" stud located in the vapor header.

2.1.8 Each cargo tank is fitted with a liquid level gauge stick. Remove the cap, raise the stick, This stick can be monitored visually to avoid overfilling.

2.1.9 Ensure that the last one meter (3.3 feet) of vapor piping before the vapor connection is painted red/yellow/red.

2.1.10 The cross-header should be stenciled with the word "VAPOR" in black letters at least 2'' high.

2.1.11 The vapor connection flange should be fixed with a 1" long by 1/2" diameter stud projecting outward from the face of the flange, midway between bolt holes.

2.1.12 The high level alarms/shutdowns are installed near the center of each cargo tank. Dock alarm/shutdown should be connected prior to loading, and plugs located near the forward end of the barge Port and Starboard should be labeled "ALARM/SHUTDOWN SENSOR." High level alarms are set to alarm at 90% of the cargo tanks capacity and Shut downs are set to shut transfer down at 95% of each tanks capacity.

2.1.13 Ensure that the P/V relief valve flame screen, if required, is in place and in good condition prior to testing.

2.1.14 Ensure that the facility has a Letter of Adequacy endorsed as meeting the requirements of 33 CFR Subpart E.

3. Vapor Piping

3.1 The PIC checks the vapor piping diagram.

3.2 Characteristics of a vapor header:

3.2.1 The vapor collection piping system on tank barges is permanently installed and located as close as practical to the loading manifold. The piping system is electrically bonded to the hull and electrically continuous.

3.2.2 The last one meter (3.3 feet) of vapor piping prior to the valve before the vapor connection is painted red/yellow/red. The red bands are 4" wide and the yellow band is 32" wide.

3.2.3 The vapor header is stenciled with the word "VAPOR" in black letters at least 2" high.

3.2.4 The vapor connection flange is to be fixed with a 1" by 1/2" diameter stud projecting outward from the face of the flange. This stud is located at the top of the flange, midway between bolt holes.

3.2.5 When not in use, blank off the vapor headers using a blind flange with a bolt in every hole. Each blind flange used on the vapor piping has a hole drilled to accommodate the pin.

4. Inspection And Verification Of Vent Lines

4.1 The Person in Charge performs the following steps:

4.1.1 Checks the Certificate of Inspection on board the barge;

4.1.2 Locates polymerizing or inhibited cargoes in the section of the COI marked *Specific Hazardous Cargo Authority;*

4.1.3 Refers to the MSDS or Chemical Data Guide on board the vessel to determine what cargoes are subject to polymerization, or what cargoes are inhibited;

4.1.4 Locates the MSDS for the cargo and determines its toxicity and whether or not it is a polymerizing or inhibited cargo; and,

4.1.5 Notifies the Dispatcher and Field Supervisor when polymerization is suspected.

5. Any problems with the Vapor Control system must be reported immediately to the person in charge and Chem Carriers.

Part 12: Inert System

1. CCL 22 is equipped with a closed nitrogen) system that will maintain 3 pounds of pressure and/or 3 pounds of vacuum specifically used to transport EDC (Ethylene dichloride).CCL 22 is equipped with pressure gauges on the vapor line. These gauges should be visually monitored during cargo transfer to maintain a proper transfer rate. The Pressure Vacuum Vent Valve is set to relieve pressure/Vacuum at 3 pounds at maximum flow rate.
2. Prior to load or discharge: the dock nitrogen system should be connected and opened in order to maintain a positive pressure to the cargo tank system while loading or discharging. When the pressure on the barge reaches (3# max pressure) the dock nitrogen should be turned off and disconnected.
3. Note: stack butterfly valve has been blanked off while inert system is in use.

4. CCL 22 is equipped with hermetic gauging devices located near the center of each cargo tank these gauging devices are used for closed gauging purposes.

U.S. Department of Homeland Security

United States Coast Guard

Commandant
United States Coast Guard

2703 Martin Luther King Jr. Ave SE
Stop 7516
Washington, DC 20593-7516
Staff Symbol: CG-MER-4 (VRP)
Phone: (202) 372-1005
Fax: (202) 372-8376
Email: vrp@uscg.mil

16460
March 12, 2025

Chem Carriers, L.L.C.
C/O: FOREFRONT EMERGENCY MANAGEMENT, LP
ATTN: ALLIE MARTIN
1730 COTEAU ROAD
HOUMA, LA 70364

Dear Sir or Madam:

Your Vessel Response Plan (Control Number 56041), submitted to meet the requirements of Title 33, Code of Federal Regulations (CFR), Part 155, Subparts D and I, is **approved**. Approval will remain valid until **March 21, 2030**.

The CCL 24 (1196547) is authorized to operate only in the ports or geographic areas indicated in the Captain of the Port zones listed below. If carrying oil as cargo, the vessel is prohibited from handling, storing, transporting, transferring, or lightering oil unless it is operating in full compliance with this plan. Compliance includes ensuring that required resources have been identified and planned for or are in place and available through contract or other approved means. If applicable to your routes, this includes the dispersant and aerial observation requirements of 33 CFR 155.1050.

You are reminded that your chosen salvage and marine firefighting resource provider may have submitted waivers from meeting one or more of the specified response times in accordance with 33 CFR 155.4055. If so, this may be rescinded by the U.S. Coast Guard if the appropriate response resources are not available when the approved waiver expires. You shall continue to assess the adequacy of your chosen salvors and firefighters as required by 33 CFR 155.4050.

The vessel must keep a copy of this approval letter onboard in addition to the minimum sections of the plan as required by 33 CFR 155.1030. In accordance with 33 CFR 155.1070, you are required to review your plan annually and submit plan amendments for approval. As per 33 CFR 155.1070(b), the entire plan must be resubmitted for a comprehensive review and approval six (6) months prior to the expiration date.

APPROVED CAPTAIN OF THE PORT ZONES

CORPUS CHRISTI	LOWER MISSISSIPPI RIVER (MEMPHIS)	OHIO VALLEY	UPPER MISSISSIPPI RIVER (ST. LOUIS)
HOUMA	MOBILE	PORT ARTHUR AND LAKE CHARLES	
HOUSTON-GALVESTON	NEW ORLEANS		

Sincerely,

CHARRON MCCOMBS
Lieutenant Commander
Acting Chief, Domestic Preparedness & Planning Division
U.S. Coast Guard
By direction

The action has been thoroughly reviewed by the USCG, and determined to be categorically excluded under current USCG CE(s) # 31 from further environmental documentation, in accordance with Section 2.B.2. and Figure 2-1 of the National Environmental Policy Act Implementing Procedures and Policy for Considering Environmental Impacts, COMDTINST M16475.1D, as authorized by DHS MD 5100.1.

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-5
Phone: (202) 795-6729
Email: securityplaninfo@uscg.mil

16710
VS-326893
December 3, 2024

Chem Carriers, LLC
Attn: Robert Banta
1237 Hwy 75
Sunshine, LA 70780
robert@chemcarriers.com

Subj: CHEM CARRIERS, LLC VESSELS
VESSEL SECURITY PLAN APPROVAL WITH AMENDMENTS

Ref: (a) Your correspondence dated November 6, 2024
(b) Title 33 Code of Federal Regulations (CFR) Part 104
(c) MSC Vessel Security Plan Approval letter dated October 16, 2024

Dear Mr. Banta:

We have conducted a review of the Vessel Security Plan (VSP) submitted with reference (a) in accordance with reference (b) and it is "**Approved**."

Your vessel must operate in compliance with this approved VSP and the requirements contained in reference (b). You are reminded to immediately report any deviation from this approved plan to the local Captain of the Port (COTP)/Officer in Charge, Marine Inspection (OCMI).

This approval will remain valid until five years from the date of reference (c) unless rescinded in writing by the local COTP/OCMI. You must review your plan annually and submit any amendments to this office for approval. Please ensure that a copy of the VSP is maintained on board the vessel if manned, or, if unmanned, at a suitable secure location so that it is readily available during an emergency or security incident. You shall make available to the Coast Guard, upon request, this letter, the VSP and any information related to the implementation of the VSP. Our Case Number for this plan is 326893. Please ensure that all future correspondence includes this Case Number.

Sincerely,

K. C. WILLIAMS
Lieutenant Commander, U.S. Coast Guard
Chief, Vessel Security Division
By direction

Enclosures: (1) List of Vessel Security Plan Amendments
(2) List of Vessels Covered

List of Vessels Covered

Vessel Name	Official Number (O.N.)
CCL-1	518612
CCL 2	510107
CCL-3	296363
CCL 4	512519
CCL-5	512520
CCL-6	530996
CCL7	551980
CCL 8	551982
CCL 9	551983
CCL 10	551979
CCL 11	551976
CCL 14	1164451
CCL 15	1164452
CCL 16	1164666
CCL 17	1166179
CCL 18	1168981
CCL 19	1168980
CCL 20	1191598
CCL 21	1191599
CCL 22	1191600
CCL 23	1191601
CCL 24	1196547
CCL 25	1196548
CCL 26	1203816
CCL 27	1203817
CCL 28	1212828
CCL 29	1212829
CCL 30	1305871
CCL 31	1305870
CCL 32	1305869
CCL 33	1305868
CCL 401	1216671
CCL 402	1219910
CCL 403	1231311
CCL 404	1231312
CCL 405	1236867
CCL 406	1236866
CCL 407	1246320
CCL 408	1246097
CCL 409	1246098
CCL 410	1255906
CCL 411	1255907
CCL 414-L	1262941
CCL 415-T	1262942

Vessel Name	Official Number (O.N.)
CCL 416-T	1264691
CCL 417 T	1298307
CCL 418-L	1306896
CCL 419-L	1306897
CCL 420-T	1348560
CCL 421-T	CG1843359
CCL 3202	1089031
HFL 413	1237482
HFL 415	1237483
HFL 435	1236563
HFL 605	1237484

VESSEL INCIDENT / ACCIDENT NOTIFICATION CHART

Incidents that involve injury or illness, spill / pollution or a probable discharge, significant equipment failure, property damage, cargo related issues, service delays or any accident involving a Chem Carriers Towing, LLC vessel or crewmember shall be immediately called into the Chem Carriers Towing, LLC 24-hour Emergency Hotline at 225-642-0060

Master Standing the Watch

Once the situation has been stabilized and all safety issues have been addressed, immediately contact the Chem Carriers Towing, LLC Emergency Hotline (225-642-0060)

Any serious marine incident, or any incident that has the potential to become a serious marine incident, alcohol testing shall be conducted on all involved crewmembers within 2 hours, whether onboard the vessel or at a testing facility.

NATIONAL Response Center

1-800-424-8802
or
1-202-267-2675

MADANTORY for all pollution incidents on CCT equipment

Chem Carriers Towing, LLC Emergency Hotline

Qualified Individual (QI)

225-642-0060

State Notifications

Louisiana 225-925-6595
Mississippi 601-987-1212
Texas 409-924-5400

USCG COTP ZONES

Baton Rouge 225-298-5400
New Orleans 504-365-2200
Morgan City 985-380-5320
Lake Charles 337-721-5741

Oil Spill Removal Organization
Customer
Internal

Reference Emergency Response Guidelines for a Complete List of Required Notifications

BARGE "CCL 24"

1 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-01 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22	0	9,810	0	19,830	0	29,884	0	40,046	0	50,208	0	60,371	0	70,528	0	80,688	0	90,855
1/4	200	1/4	10,022	1/4	20,035	1/4	30,096	1/4	40,258	1/4	50,420	1/4	60,582	1/4	70,740	1/4	80,900	1/4	91,067
1/2	378	1/2	10,235	1/2	20,240	1/2	30,307	1/2	40,470	1/2	50,632	1/2	60,794	1/2	70,951	1/2	81,112	1/2	91,279
3/4	557	3/4	10,447	3/4	20,445	3/4	30,519	3/4	40,681	3/4	50,844	3/4	61,006	3/4	71,163	3/4	81,324	3/4	91,491
1	735	1	10,659	1	20,650	1	30,731	1	40,893	1	51,055	1	61,217	1	71,374	1	81,536	1	91,703
1/4	922	1/4	10,871	1/4	20,855	1/4	30,942	1/4	41,105	1/4	51,267	1/4	61,429	1/4	71,586	1/4	81,747	1/4	91,914
1/2	1,108	1/2	11,084	1/2	21,060	1/2	31,154	1/2	41,316	1/2	51,479	1/2	61,641	1/2	71,797	1/2	81,959	1/2	92,126
3/4	1,295	3/4	11,296	3/4	21,265	3/4	31,366	3/4	41,528	3/4	51,690	3/4	61,853	3/4	72,009	3/4	82,171	3/4	92,338
2	1,481	2	11,508	2	21,470	2	31,578	2	41,740	2	51,902	2	62,064	2	72,220	2	82,383	2	92,550
1/4	1,674	1/4	11,721	1/4	21,675	1/4	31,789	1/4	41,952	1/4	52,114	1/4	62,276	1/4	72,431	1/4	82,595	1/4	92,761
1/2	1,867	1/2	11,933	1/2	21,879	1/2	32,001	1/2	42,163	1/2	52,326	1/2	62,488	1/2	72,643	1/2	82,807	1/2	92,973
3/4	2,061	3/4	12,145	3/4	22,084	3/4	32,213	3/4	42,375	3/4	52,537	3/4	62,699	3/4	72,854	3/4	83,018	3/4	93,185
3	2,254	3	12,358	3	22,289	3	32,424	3	42,587	3	52,749	3	62,911	3	73,066	3	83,230	3	93,396
1/4	2,453	1/4	12,570	1/4	22,494	1/4	32,636	1/4	42,798	1/4	52,961	1/4	63,123	1/4	73,277	1/4	83,442	1/4	93,608
1/2	2,653	1/2	12,782	1/2	22,699	1/2	32,848	1/2	43,010	1/2	53,172	1/2	63,335	1/2	73,489	1/2	83,654	1/2	93,820
3/4	2,852	3/4	12,995	3/4	22,904	3/4	33,060	3/4	43,222	3/4	53,384	3/4	63,546	3/4	73,700	3/4	83,866	3/4	94,031
4	3,052	4	13,207	4	23,109	4	33,271	4	43,434	4	53,596	4	63,758	4	73,912	4	84,077	4	94,243
1/4	3,258	1/4	13,419	1/4	23,321	1/4	33,483	1/4	43,645	1/4	53,808	1/4	63,970	1/4	74,123	1/4	84,289	1/4	94,454
1/2	3,463	1/2	13,632	1/2	23,533	1/2	33,695	1/2	43,857	1/2	54,019	1/2	64,181	1/2	74,335	1/2	84,501	1/2	94,666
3/4	3,669	3/4	13,844	3/4	23,744	3/4	33,906	3/4	44,069	3/4	54,231	3/4	64,393	3/4	74,546	3/4	84,713	3/4	94,878
5	3,874	5	14,056	5	23,956	5	34,118	5	44,280	5	54,443	5	64,605	5	74,758	5	84,925	5	95,089
1/4	4,085	1/4	14,269	1/4	24,168	1/4	34,330	1/4	44,492	1/4	54,654	1/4	64,817	1/4	74,970	1/4	85,136	1/4	95,301
1/2	4,296	1/2	14,481	1/2	24,379	1/2	34,542	1/2	44,704	1/2	54,866	1/2	65,028	1/2	75,181	1/2	85,348	1/2	95,513
3/4	4,506	3/4	14,693	3/4	24,591	3/4	34,753	3/4	44,916	3/4	55,078	3/4	65,240	3/4	75,393	3/4	85,560	3/4	95,724
6	4,717	6	14,906	6	24,803	6	34,965	6	45,127	6	55,290	6	65,452	6	75,605	6	85,772	6	95,936
1/4	4,929	1/4	15,111	1/4	25,015	1/4	35,177	1/4	45,339	1/4	55,501	1/4	65,663	1/4	75,817	1/4	85,984	1/4	96,147
1/2	5,141	1/2	15,317	1/2	25,226	1/2	35,388	1/2	45,551	1/2	55,713	1/2	65,875	1/2	76,029	1/2	86,196	1/2	96,359
3/4	5,353	3/4	15,523	3/4	25,438	3/4	35,600	3/4	45,762	3/4	55,925	3/4	66,087	3/4	76,240	3/4	86,407	3/4	96,571
7	5,564	7	15,728	7	25,650	7	35,812	7	45,974	7	56,136	7	66,299	7	76,452	7	86,619	7	96,782
1/4	5,776	1/4	15,934	1/4	25,861	1/4	36,024	1/4	46,186	1/4	56,348	1/4	66,510	1/4	76,664	1/4	86,831	1/4	96,994
1/2	5,989	1/2	16,140	1/2	26,073	1/2	36,235	1/2	46,398	1/2	56,560	1/2	66,722	1/2	76,876	1/2	87,043	1/2	97,206
3/4	6,201	3/4	16,345	3/4	26,285	3/4	36,447	3/4	46,609	3/4	56,771	3/4	66,933	3/4	77,088	3/4	87,255	3/4	97,417
8	6,413	8	16,551	8	26,496	8	36,659	8	46,821	8	56,983	8	67,145	8	77,299	8	87,466	8	97,629
1/4	6,625	1/4	16,756	1/4	26,708	1/4	36,870	1/4	47,033	1/4	57,195	1/4	67,356	1/4	77,511	1/4	87,678	1/4	97,841
1/2	6,837	1/2	16,961	1/2	26,920	1/2	37,082	1/2	47,244	1/2	57,407	1/2	67,567	1/2	77,723	1/2	87,890	1/2	98,052
3/4	7,050	3/4	17,166	3/4	27,132	3/4	37,294	3/4	47,456	3/4	57,618	3/4	67,779	3/4	77,935	3/4	88,102	3/4	98,264
9	7,262	9	17,371	9	27,343	9	37,506	9	47,668	9	57,830	9	67,990	9	78,147	9	88,314	9	98,476
1/4	7,474	1/4	17,576	1/4	27,555	1/4	37,717	1/4	47,880	1/4	58,042	1/4	68,202	1/4	78,359	1/4	88,525	1/4	98,688
1/2	7,687	1/2	17,781	1/2	27,767	1/2	37,929	1/2	48,091	1/2	58,253	1/2	68,413	1/2	78,570	1/2	88,737	1/2	98,900
3/4	7,899	3/4	17,986	3/4	27,978	3/4	38,141	3/4	48,303	3/4	58,465	3/4	68,625	3/4	78,782	3/4	88,949	3/4	99,112
10	8,111	10	18,191	10	28,190	10	38,352	10	48,515	10	58,677	10	68,836	10	78,994	10	89,161	10	99,323
1/4	8,324	1/4	18,395	1/4	28,402	1/4	38,564	1/4	48,726	1/4	58,889	1/4	69,048	1/4	79,206	1/4	89,373	1/4	99,535
1/2	8,536	1/2	18,600	1/2	28,614	1/2	38,776	1/2	48,938	1/2	59,100	1/2	69,259	1/2	79,418	1/2	89,585	1/2	99,747
3/4	8,748	3/4	18,805	3/4	28,825	3/4	38,988	3/4	49,150	3/4	59,312	3/4	69,471	3/4	79,629	3/4	89,796	3/4	99,959
11	8,961	11	19,010	11	29,037	11	39,199	11	49,362	11	59,524	11	69,682	11	79,841	11	90,008	11	100,171
1/4	9,173	1/4	19,215	1/4	29,249	1/4	39,411	1/4	49,573	1/4	59,735	1/4	69,894	1/4	80,053	1/4	90,220	1/4	100,382
1/2	9,385	1/2	19,420	1/2	29,460	1/2	39,623	1/2	49,785	1/2	59,947	1/2	70,105	1/2	80,265	1/2	90,432	1/2	100,594
3/4	9,598	3/4	19,625	3/4	29,672	3/4	39,834	3/4	49,997	3/4	60,159	3/4	70,317	3/4	80,477	3/4	90,644	3/4	100,806

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 27'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

BARGE "CCL 24"

1 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-01 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	101,018	0	110,521	0	119,368	0	128,216	0	137,063	0	145,798	0		0		0		0	
1/4	101,230	1/4	110,705	1/4	119,553	1/4	128,400	1/4	137,247	1/4	145,883	1/4		1/4		1/4		1/4	
1/2	101,441	1/2	110,889	1/2	119,737	1/2	128,585	1/2	137,432	1/2	145,968	1/2		1/2		1/2		1/2	
3/4	101,653	3/4	111,074	3/4	119,921	3/4	128,769	3/4	137,616	3/4	146,053	3/4		3/4		3/4		3/4	
1	101,865	1	111,258	1	120,106	1	128,953	1	137,800	1	146,138	1		1		1		1	
1/4	102,077	1/4	111,442	1/4	120,290	1/4	129,138	1/4	137,984	1/4	146,180	1/4		1/4		1/4		1/4	
1/2	102,289	1/2	111,627	1/2	120,474	1/2	129,322	1/2	138,169	1/2	146,223	1/2		1/2		1/2		1/2	
3/4	102,501	3/4	111,811	3/4	120,659	3/4	129,506	3/4	138,353	3/4	146,265	3/4		3/4		3/4		3/4	
2	102,712	2	111,995	2	120,843	2	129,690	2	138,537	2	146,308	2		2		2		2	
1/4	102,924	1/4	112,180	1/4	121,027	1/4	129,875	1/4	138,722	1/4	146,318	1/4		1/4		1/4		1/4	
1/2	103,136	1/2	112,364	1/2	121,212	1/2	130,059	1/2	138,906	1/2	146,329	1/2		1/2		1/2		1/2	
3/4	103,348	3/4	112,548	3/4	121,396	3/4	130,243	3/4	139,090	3/4		3/4		3/4		3/4		3/4	
3	103,560	3	112,733	3	121,580	3	130,428	3	139,274	3		3		3		3		3	
1/4	103,771	1/4	112,917	1/4	121,765	1/4	130,612	1/4	139,459	1/4		1/4		1/4		1/4		1/4	
1/2	103,983	1/2	113,101	1/2	121,949	1/2	130,796	1/2	139,643	1/2		1/2		1/2		1/2		1/2	
3/4	104,195	3/4	113,286	3/4	122,133	3/4	130,981	3/4	139,827	3/4		3/4		3/4		3/4		3/4	
4	104,407	4	113,470	4	122,317	4	131,165	4	140,012	4		4		4		4		4	
1/4	104,619	1/4	113,654	1/4	122,502	1/4	131,349	1/4	140,196	1/4		1/4		1/4		1/4		1/4	
1/2	104,830	1/2	113,839	1/2	122,686	1/2	131,534	1/2	140,380	1/2		1/2		1/2		1/2		1/2	
3/4	105,042	3/4	114,023	3/4	122,870	3/4	131,718	3/4	140,564	3/4		3/4		3/4		3/4		3/4	
5	105,254	5	114,207	5	123,055	5	131,902	5	140,749	5		5		5		5		5	
1/4	105,466	1/4	114,391	1/4	123,239	1/4	132,087	1/4	140,933	1/4		1/4		1/4		1/4		1/4	
1/2	105,678	1/2	114,576	1/2	123,423	1/2	132,271	1/2	141,117	1/2		1/2		1/2		1/2		1/2	
3/4	105,890	3/4	114,760	3/4	123,608	3/4	132,455	3/4	141,302	3/4		3/4		3/4		3/4		3/4	
6	106,101	6	114,944	6	123,792	6	132,640	6	141,486	6		6		6		6		6	
1/4	106,285	1/4	115,129	1/4	123,976	1/4	132,824	1/4	141,670	1/4		1/4		1/4		1/4		1/4	
1/2	106,469	1/2	115,313	1/2	124,161	1/2	133,008	1/2	141,854	1/2		1/2		1/2		1/2		1/2	
3/4	106,653	3/4	115,497	3/4	124,345	3/4	133,193	3/4	142,039	3/4		3/4		3/4		3/4		3/4	
7	106,836	7	115,682	7	124,529	7	133,377	7	142,223	7		7		7		7		7	
1/4	107,020	1/4	115,866	1/4	124,714	1/4	133,561	1/4	142,407	1/4		1/4		1/4		1/4		1/4	
1/2	107,204	1/2	116,050	1/2	124,898	1/2	133,746	1/2	142,592	1/2		1/2		1/2		1/2		1/2	
3/4	107,388	3/4	116,235	3/4	125,082	3/4	133,930	3/4	142,776	3/4		3/4		3/4		3/4		3/4	
8	107,571	8	116,419	8	125,267	8	134,114	8	142,960	8		8		8		8		8	
1/4	107,756	1/4	116,603	1/4	125,451	1/4	134,299	1/4	143,166	1/4		1/4		1/4		1/4		1/4	
1/2	107,940	1/2	116,788	1/2	125,635	1/2	134,483	1/2	143,371	1/2		1/2		1/2		1/2		1/2	
3/4	108,124	3/4	116,972	3/4	125,820	3/4	134,667	3/4	143,576	3/4		3/4		3/4		3/4		3/4	
9	108,309	9	117,156	9	126,004	9	134,851	9	143,782	9		9		9		9		9	
1/4	108,493	1/4	117,341	1/4	126,188	1/4	135,036	1/4	143,989	1/4		1/4		1/4		1/4		1/4	
1/2	108,677	1/2	117,525	1/2	126,373	1/2	135,220	1/2	144,196	1/2		1/2		1/2		1/2		1/2	
3/4	108,862	3/4	117,709	3/4	126,557	3/4	135,404	3/4	144,403	3/4		3/4		3/4		3/4		3/4	
10	109,046	10	117,894	10	126,741	10	135,589	10	144,610	10		10		10		10		10	
1/4	109,230	1/4	118,078	1/4	126,926	1/4	135,773	1/4	144,779	1/4		1/4		1/4		1/4		1/4	
1/2	109,415	1/2	118,262	1/2	127,110	1/2	135,957	1/2	144,949	1/2		1/2		1/2		1/2		1/2	
3/4	109,599	3/4	118,447	3/4	127,294	3/4	136,141	3/4	145,119	3/4		3/4		3/4		3/4		3/4	
11	109,783	11	118,631	11	127,479	11	136,326	11	145,289	11		11		11		11		11	
1/4	109,968	1/4	118,815	1/4	127,663	1/4	136,510	1/4	145,416	1/4		1/4		1/4		1/4		1/4	
1/2	110,152	1/2	119,000	1/2	127,847	1/2	136,694	1/2	145,544	1/2		1/2		1/2		1/2		1/2	
3/4	110,336	3/4	119,184	3/4	128,032	3/4	136,879	3/4	145,671	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 04/09/2007 CL - SW
CALCULATED: 04/09/2007 CL
PRINTED: 04/09/2007 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2007

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
www.pmaserv.net

PMA

BARGE "CCL 24"

2 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-00 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22	0	11,508	0	22,922	0	34,395	0	45,992	0	57,589	0	69,186	0	80,783	0	92,379	0	103,976
1/4	254	1/4	11,750	1/4	23,156	1/4	34,637	1/4	46,234	1/4	57,831	1/4	69,427	1/4	81,024	1/4	92,621	1/4	104,218
1/2	486	1/2	11,991	1/2	23,390	1/2	34,879	1/2	46,475	1/2	58,072	1/2	69,669	1/2	81,266	1/2	92,863	1/2	104,459
3/4	718	3/4	12,233	3/4	23,623	3/4	35,120	3/4	46,717	3/4	58,314	3/4	69,911	3/4	81,507	3/4	93,104	3/4	104,701
1	949	1	12,474	1	23,857	1	35,362	1	46,959	1	58,555	1	70,152	1	81,749	1	93,346	1	104,943
1/4	1,185	1/4	12,716	1/4	24,091	1/4	35,603	1/4	47,200	1/4	58,797	1/4	70,394	1/4	81,991	1/4	93,587	1/4	105,184
1/2	1,420	1/2	12,957	1/2	24,325	1/2	35,845	1/2	47,442	1/2	59,039	1/2	70,635	1/2	82,232	1/2	93,829	1/2	105,426
3/4	1,655	3/4	13,199	3/4	24,559	3/4	36,087	3/4	47,683	3/4	59,280	3/4	70,877	3/4	82,474	3/4	94,071	3/4	105,667
2	1,891	2	13,440	2	24,793	2	36,328	2	47,925	2	59,522	2	71,119	2	82,715	2	94,312	2	105,909
1/4	2,128	1/4	13,682	1/4	25,027	1/4	36,570	1/4	48,167	1/4	59,763	1/4	71,360	1/4	82,957	1/4	94,554	1/4	106,151
1/2	2,365	1/2	13,923	1/2	25,261	1/2	36,811	1/2	48,408	1/2	60,005	1/2	71,602	1/2	83,199	1/2	94,795	1/2	106,392
3/4	2,602	3/4	14,165	3/4	25,495	3/4	37,053	3/4	48,650	3/4	60,247	3/4	71,843	3/4	83,440	3/4	95,037	3/4	106,634
3	2,839	3	14,406	3	25,729	3	37,295	3	48,891	3	60,488	3	72,085	3	83,682	3	95,279	3	106,875
1/4	3,078	1/4	14,648	1/4	25,963	1/4	37,536	1/4	49,133	1/4	60,730	1/4	72,327	1/4	83,923	1/4	95,520	1/4	107,117
1/2	3,317	1/2	14,890	1/2	26,196	1/2	37,778	1/2	49,375	1/2	60,971	1/2	72,568	1/2	84,165	1/2	95,762	1/2	107,359
3/4	3,555	3/4	15,131	3/4	26,430	3/4	38,019	3/4	49,616	3/4	61,213	3/4	72,810	3/4	84,407	3/4	96,003	3/4	107,600
4	3,794	4	15,373	4	26,664	4	38,261	4	49,858	4	61,455	4	73,051	4	84,648	4	96,245	4	107,842
1/4	4,034	1/4	15,614	1/4	26,906	1/4	38,503	1/4	50,099	1/4	61,696	1/4	73,293	1/4	84,890	1/4	96,487	1/4	108,083
1/2	4,273	1/2	15,856	1/2	27,147	1/2	38,744	1/2	50,341	1/2	61,938	1/2	73,535	1/2	85,131	1/2	96,728	1/2	108,325
3/4	4,513	3/4	16,097	3/4	27,389	3/4	38,986	3/4	50,583	3/4	62,179	3/4	73,776	3/4	85,373	3/4	96,970	3/4	108,567
5	4,753	5	16,339	5	27,631	5	39,227	5	50,824	5	62,421	5	74,018	5	85,615	5	97,211	5	108,808
1/4	4,993	1/4	16,580	1/4	27,872	1/4	39,469	1/4	51,066	1/4	62,663	1/4	74,259	1/4	85,856	1/4	97,453	1/4	109,050
1/2	5,233	1/2	16,822	1/2	28,114	1/2	39,711	1/2	51,307	1/2	62,904	1/2	74,501	1/2	86,098	1/2	97,695	1/2	109,291
3/4	5,474	3/4	17,063	3/4	28,355	3/4	39,952	3/4	51,549	3/4	63,146	3/4	74,743	3/4	86,339	3/4	97,936	3/4	109,533
6	5,714	6	17,305	6	28,597	6	40,194	6	51,791	6	63,387	6	74,984	6	86,581	6	98,178	6	109,775
1/4	5,955	1/4	17,539	1/4	28,839	1/4	40,435	1/4	52,032	1/4	63,629	1/4	75,226	1/4	86,823	1/4	98,419	1/4	110,016
1/2	6,196	1/2	17,774	1/2	29,080	1/2	40,677	1/2	52,274	1/2	63,871	1/2	75,467	1/2	87,064	1/2	98,661	1/2	110,258
3/4	6,437	3/4	18,008	3/4	29,322	3/4	40,919	3/4	52,515	3/4	64,112	3/4	75,709	3/4	87,306	3/4	98,903	3/4	110,499
7	6,678	7	18,242	7	29,563	7	41,160	7	52,757	7	64,354	7	75,951	7	87,547	7	99,144	7	110,741
1/4	6,920	1/4	18,476	1/4	29,805	1/4	41,402	1/4	52,999	1/4	64,595	1/4	76,192	1/4	87,789	1/4	99,386	1/4	110,982
1/2	7,161	1/2	18,711	1/2	30,047	1/2	41,643	1/2	53,240	1/2	64,837	1/2	76,434	1/2	88,031	1/2	99,627	1/2	111,224
3/4	7,402	3/4	18,945	3/4	30,288	3/4	41,885	3/4	53,482	3/4	65,079	3/4	76,675	3/4	88,272	3/4	99,869	3/4	111,466
8	7,644	8	19,179	8	30,530	8	42,127	8	53,723	8	65,320	8	76,917	8	88,514	8	100,111	8	111,707
1/4	7,885	1/4	19,413	1/4	30,771	1/4	42,368	1/4	53,965	1/4	65,562	1/4	77,159	1/4	88,755	1/4	100,352	1/4	111,949
1/2	8,127	1/2	19,647	1/2	31,013	1/2	42,610	1/2	54,207	1/2	65,803	1/2	77,400	1/2	88,997	1/2	100,594	1/2	112,190
3/4	8,368	3/4	19,881	3/4	31,255	3/4	42,851	3/4	54,448	3/4	66,045	3/4	77,642	3/4	89,239	3/4	100,835	3/4	112,432
9	8,610	9	20,115	9	31,496	9	43,093	9	54,690	9	66,287	9	77,883	9	89,480	9	101,077	9	112,674
1/4	8,851	1/4	20,349	1/4	31,738	1/4	43,335	1/4	54,931	1/4	66,528	1/4	78,125	1/4	89,722	1/4	101,319	1/4	112,915
1/2	9,093	1/2	20,583	1/2	31,979	1/2	43,576	1/2	55,173	1/2	66,770	1/2	78,367	1/2	89,963	1/2	101,560	1/2	113,157
3/4	9,334	3/4	20,817	3/4	32,221	3/4	43,818	3/4	55,415	3/4	67,011	3/4	78,608	3/4	90,205	3/4	101,802	3/4	113,398
10	9,576	10	21,050	10	32,463	10	44,059	10	55,656	10	67,253	10	78,850	10	90,447	10	102,043	10	113,640
1/4	9,817	1/4	21,284	1/4	32,704	1/4	44,301	1/4	55,898	1/4	67,495	1/4	79,091	1/4	90,688	1/4	102,285	1/4	113,882
1/2	10,059	1/2	21,518	1/2	32,946	1/2	44,543	1/2	56,139	1/2	67,736	1/2	79,333	1/2	90,930	1/2	102,527	1/2	114,123
3/4	10,300	3/4	21,752	3/4	33,187	3/4	44,784	3/4	56,381	3/4	67,978	3/4	79,575	3/4	91,171	3/4	102,768	3/4	114,365
11	10,542	11	21,986	11	33,429	11	45,026	11	56,623	11	68,219	11	79,816	11	91,413	11	103,010	11	114,606
1/4	10,783	1/4	22,220	1/4	33,671	1/4	45,267	1/4	56,864	1/4	68,461	1/4	80,058	1/4	91,655	1/4	103,251	1/4	114,848
1/2	11,025	1/2	22,454	1/2	33,912	1/2	45,509	1/2	57,106	1/2	68,703	1/2	80,299	1/2	91,896	1/2	103,493	1/2	115,090
3/4	11,266	3/4	22,688	3/4	34,154	3/4	45,751	3/4	57,347	3/4	68,944	3/4	80,541	3/4	92,138	3/4	103,735	3/4	115,331

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 27'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmaa.com

BARGE "CCL 24"

2 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-00 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	115,573	0	127,170	0	138,766	0	150,363	0	161,959	0	172,950	0		0		0		0	
1/4	115,814	1/4	127,411	1/4	139,008	1/4	150,605	1/4	162,201	1/4	173,046	1/4		1/4		1/4		1/4	
1/2	116,056	1/2	127,653	1/2	139,250	1/2	150,846	1/2	162,442	1/2	173,143	1/2		1/2		1/2		1/2	
3/4	116,298	3/4	127,894	3/4	139,491	3/4	151,088	3/4	162,684	3/4	173,239	3/4		3/4		3/4		3/4	
1	116,539	1	128,136	1	139,733	1	151,330	1	162,926	1	173,336	1		1		1		1	
1/4	116,781	1/4	128,378	1/4	139,974	1/4	151,571	1/4	163,167	1/4	173,384	1/4		1/4		1/4		1/4	
1/2	117,022	1/2	128,619	1/2	140,216	1/2	151,813	1/2	163,409	1/2	173,432	1/2		1/2		1/2		1/2	
3/4	117,264	3/4	128,861	3/4	140,458	3/4	152,054	3/4	163,650	3/4	173,481	3/4		3/4		3/4		3/4	
2	117,506	2	129,102	2	140,699	2	152,296	2	163,892	2	173,529	2		2		2		2	
1/4	117,747	1/4	129,344	1/4	140,941	1/4	152,538	1/4	164,133	1/4	173,541	1/4		1/4		1/4		1/4	
1/2	117,989	1/2	129,586	1/2	141,182	1/2	152,779	1/2	164,375	1/2	173,553	1/2		1/2		1/2		1/2	
3/4	118,230	3/4	129,827	3/4	141,424	3/4	153,021	3/4	164,616	3/4		3/4		3/4		3/4		3/4	
3	118,472	3	130,069	3	141,666	3	153,262	3	164,858	3		3		3		3		3	
1/4	118,714	1/4	130,310	1/4	141,907	1/4	153,504	1/4	165,099	1/4		1/4		1/4		1/4		1/4	
1/2	118,955	1/2	130,552	1/2	142,149	1/2	153,746	1/2	165,341	1/2		1/2		1/2		1/2		1/2	
3/4	119,197	3/4	130,794	3/4	142,390	3/4	153,987	3/4	165,583	3/4		3/4		3/4		3/4		3/4	
4	119,438	4	131,035	4	142,632	4	154,229	4	165,824	4		4		4		4		4	
1/4	119,680	1/4	131,277	1/4	142,874	1/4	154,470	1/4	166,066	1/4		1/4		1/4		1/4		1/4	
1/2	119,922	1/2	131,518	1/2	143,115	1/2	154,712	1/2	166,307	1/2		1/2		1/2		1/2		1/2	
3/4	120,163	3/4	131,760	3/4	143,357	3/4	154,954	3/4	166,549	3/4		3/4		3/4		3/4		3/4	
5	120,405	5	132,002	5	143,598	5	155,195	5	166,790	5		5		5		5		5	
1/4	120,646	1/4	132,243	1/4	143,840	1/4	155,437	1/4	167,032	1/4		1/4		1/4		1/4		1/4	
1/2	120,888	1/2	132,485	1/2	144,082	1/2	155,678	1/2	167,273	1/2		1/2		1/2		1/2		1/2	
3/4	121,130	3/4	132,726	3/4	144,323	3/4	155,920	3/4	167,515	3/4		3/4		3/4		3/4		3/4	
6	121,371	6	132,968	6	144,565	6	156,162	6	167,757	6		6		6		6		6	
1/4	121,613	1/4	133,210	1/4	144,806	1/4	156,403	1/4	167,998	1/4		1/4		1/4		1/4		1/4	
1/2	121,854	1/2	133,451	1/2	145,048	1/2	156,645	1/2	168,240	1/2		1/2		1/2		1/2		1/2	
3/4	122,096	3/4	133,693	3/4	145,290	3/4	156,886	3/4	168,481	3/4		3/4		3/4		3/4		3/4	
7	122,338	7	133,934	7	145,531	7	157,128	7	168,723	7		7		7		7		7	
1/4	122,579	1/4	134,176	1/4	145,773	1/4	157,370	1/4	168,964	1/4		1/4		1/4		1/4		1/4	
1/2	122,821	1/2	134,418	1/2	146,014	1/2	157,611	1/2	169,206	1/2		1/2		1/2		1/2		1/2	
3/4	123,062	3/4	134,659	3/4	146,256	3/4	157,853	3/4	169,447	3/4		3/4		3/4		3/4		3/4	
8	123,304	8	134,901	8	146,498	8	158,094	8	169,689	8		8		8		8		8	
1/4	123,546	1/4	135,142	1/4	146,739	1/4	158,336	1/4	169,931	1/4		1/4		1/4		1/4		1/4	
1/2	123,787	1/2	135,384	1/2	146,981	1/2	158,578	1/2	170,172	1/2		1/2		1/2		1/2		1/2	
3/4	124,029	3/4	135,626	3/4	147,222	3/4	158,819	3/4	170,414	3/4		3/4		3/4		3/4		3/4	
9	124,270	9	135,867	9	147,464	9	159,061	9	170,655	9		9		9		9		9	
1/4	124,512	1/4	136,109	1/4	147,706	1/4	159,302	1/4	170,891	1/4		1/4		1/4		1/4		1/4	
1/2	124,754	1/2	136,350	1/2	147,947	1/2	159,544	1/2	171,126	1/2		1/2		1/2		1/2		1/2	
3/4	124,995	3/4	136,592	3/4	148,189	3/4	159,785	3/4	171,362	3/4		3/4		3/4		3/4		3/4	
10	125,237	10	136,834	10	148,430	10	160,027	10	171,597	10		10		10		10		10	
1/4	125,478	1/4	137,075	1/4	148,672	1/4	160,268	1/4	171,790	1/4		1/4		1/4		1/4		1/4	
1/2	125,720	1/2	137,317	1/2	148,914	1/2	160,510	1/2	171,984	1/2		1/2		1/2		1/2		1/2	
3/4	125,962	3/4	137,558	3/4	149,155	3/4	160,752	3/4	172,177	3/4		3/4		3/4		3/4		3/4	
11	126,203	11	137,800	11	149,397	11	160,993	11	172,370	11		11		11		11		11	
1/4	126,445	1/4	138,042	1/4	149,638	1/4	161,235	1/4	172,515	1/4		1/4		1/4		1/4		1/4	
1/2	126,686	1/2	138,283	1/2	149,880	1/2	161,476	1/2	172,660	1/2		1/2		1/2		1/2		1/2	
3/4	126,928	3/4	138,525	3/4	150,122	3/4	161,718	3/4	172,805	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 04/09/2007 CL - SW
CALCULATED: 04/09/2007 CL
PRINTED: 04/09/2007 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2007

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

BARGE "CCL 24"

3 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-01 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22	0	10,320	0	20,711	0	31,105	0	41,502	0	51,899	0	62,296	0	72,693	0	83,090	0	93,487
1/4	230	1/4	10,536	1/4	20,928	1/4	31,322	1/4	41,719	1/4	52,116	1/4	62,513	1/4	72,910	1/4	83,307	1/4	93,703
1/2	438	1/2	10,753	1/2	21,144	1/2	31,538	1/2	41,935	1/2	52,332	1/2	62,729	1/2	73,126	1/2	83,523	1/2	93,920
3/4	646	3/4	10,969	3/4	21,361	3/4	31,755	3/4	42,152	3/4	52,549	3/4	62,946	3/4	73,343	3/4	83,740	3/4	94,137
1	853	1	11,186	1	21,577	1	31,972	1	42,368	1	52,765	1	63,162	1	73,559	1	83,956	1	94,353
1/4	1,064	1/4	11,402	1/4	21,793	1/4	32,188	1/4	42,585	1/4	52,982	1/4	63,379	1/4	73,776	1/4	84,173	1/4	94,570
1/2	1,275	1/2	11,619	1/2	22,010	1/2	32,405	1/2	42,802	1/2	53,199	1/2	63,596	1/2	73,993	1/2	84,390	1/2	94,786
3/4	1,486	3/4	11,835	3/4	22,226	3/4	32,621	3/4	43,018	3/4	53,415	3/4	63,812	3/4	74,209	3/4	84,606	3/4	95,003
2	1,697	2	12,052	2	22,443	2	32,838	2	43,235	2	53,632	2	64,029	2	74,426	2	84,823	2	95,220
1/4	1,910	1/4	12,269	1/4	22,659	1/4	33,055	1/4	43,451	1/4	53,848	1/4	64,245	1/4	74,642	1/4	85,039	1/4	95,436
1/2	2,123	1/2	12,485	1/2	22,875	1/2	33,271	1/2	43,668	1/2	54,065	1/2	64,462	1/2	74,859	1/2	85,256	1/2	95,653
3/4	2,335	3/4	12,702	3/4	23,092	3/4	33,488	3/4	43,885	3/4	54,282	3/4	64,679	3/4	75,076	3/4	85,473	3/4	95,870
3	2,548	3	12,918	3	23,308	3	33,704	3	44,101	3	54,498	3	64,895	3	75,292	3	85,689	3	96,086
1/4	2,762	1/4	13,135	1/4	23,525	1/4	33,921	1/4	44,318	1/4	54,715	1/4	65,112	1/4	75,509	1/4	85,906	1/4	96,303
1/2	2,976	1/2	13,351	1/2	23,741	1/2	34,138	1/2	44,535	1/2	54,931	1/2	65,328	1/2	75,725	1/2	86,122	1/2	96,519
3/4	3,190	3/4	13,568	3/4	23,957	3/4	34,354	3/4	44,751	3/4	55,148	3/4	65,545	3/4	75,942	3/4	86,339	3/4	96,736
4	3,404	4	13,784	4	24,174	4	34,571	4	44,968	4	55,365	4	65,762	4	76,159	4	86,556	4	96,953
1/4	3,618	1/4	14,001	1/4	24,390	1/4	34,787	1/4	45,184	1/4	55,581	1/4	65,978	1/4	76,375	1/4	86,772	1/4	97,169
1/2	3,833	1/2	14,217	1/2	24,607	1/2	35,004	1/2	45,401	1/2	55,798	1/2	66,195	1/2	76,592	1/2	86,989	1/2	97,386
3/4	4,048	3/4	14,434	3/4	24,824	3/4	35,221	3/4	45,618	3/4	56,014	3/4	66,411	3/4	76,808	3/4	87,205	3/4	97,602
5	4,263	5	14,651	5	25,040	5	35,437	5	45,834	5	56,231	5	66,628	5	77,025	5	87,422	5	97,819
1/4	4,479	1/4	14,867	1/4	25,257	1/4	35,654	1/4	46,051	1/4	56,448	1/4	66,845	1/4	77,242	1/4	87,639	1/4	98,036
1/2	4,694	1/2	15,084	1/2	25,473	1/2	35,870	1/2	46,267	1/2	56,664	1/2	67,061	1/2	77,458	1/2	87,855	1/2	98,252
3/4	4,910	3/4	15,300	3/4	25,690	3/4	36,087	3/4	46,484	3/4	56,881	3/4	67,278	3/4	77,675	3/4	88,072	3/4	98,469
6	5,125	6	15,517	6	25,907	6	36,304	6	46,701	6	57,098	6	67,494	6	77,891	6	88,288	6	98,685
1/4	5,341	1/4	15,733	1/4	26,123	1/4	36,520	1/4	46,917	1/4	57,314	1/4	67,711	1/4	78,108	1/4	88,505	1/4	98,902
1/2	5,557	1/2	15,950	1/2	26,340	1/2	36,737	1/2	47,134	1/2	57,531	1/2	67,928	1/2	78,325	1/2	88,722	1/2	99,119
3/4	5,773	3/4	16,166	3/4	26,556	3/4	36,953	3/4	47,350	3/4	57,747	3/4	68,144	3/4	78,541	3/4	88,938	3/4	99,335
7	5,989	7	16,383	7	26,773	7	37,170	7	47,567	7	57,964	7	68,361	7	78,758	7	89,155	7	99,552
1/4	6,206	1/4	16,599	1/4	26,990	1/4	37,387	1/4	47,784	1/4	58,181	1/4	68,577	1/4	78,974	1/4	89,371	1/4	99,768
1/2	6,422	1/2	16,816	1/2	27,206	1/2	37,603	1/2	48,000	1/2	58,397	1/2	68,794	1/2	79,191	1/2	89,588	1/2	99,985
3/4	6,639	3/4	17,033	3/4	27,423	3/4	37,820	3/4	48,217	3/4	58,614	3/4	69,011	3/4	79,408	3/4	89,805	3/4	100,202
8	6,855	8	17,249	8	27,639	8	38,036	8	48,433	8	58,830	8	69,227	8	79,624	8	90,021	8	100,418
1/4	7,071	1/4	17,465	1/4	27,856	1/4	38,253	1/4	48,650	1/4	59,047	1/4	69,444	1/4	79,841	1/4	90,238	1/4	100,635
1/2	7,288	1/2	17,682	1/2	28,073	1/2	38,470	1/2	48,867	1/2	59,264	1/2	69,660	1/2	80,057	1/2	90,454	1/2	100,851
3/4	7,504	3/4	17,898	3/4	28,289	3/4	38,686	3/4	49,083	3/4	59,480	3/4	69,877	3/4	80,274	3/4	90,671	3/4	101,068
9	7,721	9	18,115	9	28,506	9	38,903	9	49,300	9	59,697	9	70,094	9	80,491	9	90,888	9	101,285
1/4	7,938	1/4	18,331	1/4	28,722	1/4	39,119	1/4	49,516	1/4	59,913	1/4	70,310	1/4	80,707	1/4	91,104	1/4	101,501
1/2	8,154	1/2	18,547	1/2	28,939	1/2	39,336	1/2	49,733	1/2	60,130	1/2	70,527	1/2	80,924	1/2	91,321	1/2	101,718
3/4	8,371	3/4	18,764	3/4	29,156	3/4	39,553	3/4	49,950	3/4	60,347	3/4	70,744	3/4	81,140	3/4	91,537	3/4	101,934
10	8,587	10	18,980	10	29,372	10	39,769	10	50,166	10	60,563	10	70,960	10	81,357	10	91,754	10	102,151
1/4	8,804	1/4	19,197	1/4	29,589	1/4	39,986	1/4	50,383	1/4	60,780	1/4	71,177	1/4	81,574	1/4	91,971	1/4	102,368
1/2	9,020	1/2	19,413	1/2	29,805	1/2	40,202	1/2	50,599	1/2	60,996	1/2	71,393	1/2	81,790	1/2	92,187	1/2	102,584
3/4	9,237	3/4	19,629	3/4	30,022	3/4	40,419	3/4	50,816	3/4	61,213	3/4	71,610	3/4	82,007	3/4	92,404	3/4	102,801
11	9,453	11	19,846	11	30,239	11	40,636	11	51,033	11	61,430	11	71,827	11	82,223	11	92,620	11	103,017
1/4	9,670	1/4	20,062	1/4	30,455	1/4	40,852	1/4	51,249	1/4	61,646	1/4	72,043	1/4	82,440	1/4	92,837	1/4	103,234
1/2	9,886	1/2	20,279	1/2	30,672	1/2	41,069	1/2	51,466	1/2	61,863	1/2	72,260	1/2	82,657	1/2	93,054	1/2	103,451
3/4	10,103	3/4	20,495	3/4	30,888	3/4	41,285	3/4	51,682	3/4	62,079	3/4	72,476	3/4	82,873	3/4	93,270	3/4	103,667

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 27'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

PMA

BARGE "CCL 24"

3 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-01 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	103,884	0	114,281	0	124,678	0	135,075	0	145,471	0	155,324	0		0		0		0	
1/4	104,100	1/4	114,497	1/4	124,894	1/4	135,291	1/4	145,688	1/4	155,411	1/4		1/4		1/4		1/4	
1/2	104,317	1/2	114,714	1/2	125,111	1/2	135,508	1/2	145,904	1/2	155,498	1/2		1/2		1/2		1/2	
3/4	104,534	3/4	114,931	3/4	125,328	3/4	135,725	3/4	146,121	3/4	155,584	3/4		3/4		3/4		3/4	
1	104,750	1	115,147	1	125,544	1	135,941	1	146,337	1	155,671	1		1		1		1	
1/4	104,967	1/4	115,364	1/4	125,761	1/4	136,158	1/4	146,554	1/4	155,714	1/4		1/4		1/4		1/4	
1/2	105,183	1/2	115,580	1/2	125,977	1/2	136,374	1/2	146,770	1/2	155,757	1/2		1/2		1/2		1/2	
3/4	105,400	3/4	115,797	3/4	126,194	3/4	136,591	3/4	146,987	3/4	155,800	3/4		3/4		3/4		3/4	
2	105,617	2	116,014	2	126,411	2	136,808	2	147,204	2	155,844	2		2		2		2	
1/4	105,833	1/4	116,230	1/4	126,627	1/4	137,024	1/4	147,420	1/4	155,854	1/4		1/4		1/4		1/4	
1/2	106,050	1/2	116,447	1/2	126,844	1/2	137,241	1/2	147,637	1/2	155,865	1/2		1/2		1/2		1/2	
3/4	106,266	3/4	116,663	3/4	127,060	3/4	137,457	3/4	147,853	3/4		3/4		3/4		3/4		3/4	
3	106,483	3	116,880	3	127,277	3	137,674	3	148,070	3		3		3		3		3	
1/4	106,700	1/4	117,097	1/4	127,494	1/4	137,891	1/4	148,286	1/4		1/4		1/4		1/4		1/4	
1/2	106,916	1/2	117,313	1/2	127,710	1/2	138,107	1/2	148,503	1/2		1/2		1/2		1/2		1/2	
3/4	107,133	3/4	117,530	3/4	127,927	3/4	138,324	3/4	148,720	3/4		3/4		3/4		3/4		3/4	
4	107,349	4	117,746	4	128,143	4	138,540	4	148,936	4		4		4		4		4	
1/4	107,566	1/4	117,963	1/4	128,360	1/4	138,757	1/4	149,153	1/4		1/4		1/4		1/4		1/4	
1/2	107,783	1/2	118,180	1/2	128,577	1/2	138,974	1/2	149,369	1/2		1/2		1/2		1/2		1/2	
3/4	107,999	3/4	118,396	3/4	128,793	3/4	139,190	3/4	149,586	3/4		3/4		3/4		3/4		3/4	
5	108,216	5	118,613	5	129,010	5	139,407	5	149,802	5		5		5		5		5	
1/4	108,433	1/4	118,829	1/4	129,226	1/4	139,623	1/4	150,019	1/4		1/4		1/4		1/4		1/4	
1/2	108,649	1/2	119,046	1/2	129,443	1/2	139,840	1/2	150,235	1/2		1/2		1/2		1/2		1/2	
3/4	108,866	3/4	119,263	3/4	129,660	3/4	140,057	3/4	150,452	3/4		3/4		3/4		3/4		3/4	
6	109,082	6	119,479	6	129,876	6	140,273	6	150,669	6		6		6		6		6	
1/4	109,299	1/4	119,696	1/4	130,093	1/4	140,490	1/4	150,885	1/4		1/4		1/4		1/4		1/4	
1/2	109,516	1/2	119,912	1/2	130,309	1/2	140,706	1/2	151,102	1/2		1/2		1/2		1/2		1/2	
3/4	109,732	3/4	120,129	3/4	130,526	3/4	140,923	3/4	151,318	3/4		3/4		3/4		3/4		3/4	
7	109,949	7	120,346	7	130,743	7	141,140	7	151,535	7		7		7		7		7	
1/4	110,165	1/4	120,562	1/4	130,959	1/4	141,356	1/4	151,751	1/4		1/4		1/4		1/4		1/4	
1/2	110,382	1/2	120,779	1/2	131,176	1/2	141,573	1/2	151,968	1/2		1/2		1/2		1/2		1/2	
3/4	110,599	3/4	120,996	3/4	131,392	3/4	141,789	3/4	152,185	3/4		3/4		3/4		3/4		3/4	
8	110,815	8	121,212	8	131,609	8	142,006	8	152,401	8		8		8		8		8	
1/4	111,032	1/4	121,429	1/4	131,826	1/4	142,223	1/4	152,618	1/4		1/4		1/4		1/4		1/4	
1/2	111,248	1/2	121,645	1/2	132,042	1/2	142,439	1/2	152,834	1/2		1/2		1/2		1/2		1/2	
3/4	111,465	3/4	121,862	3/4	132,259	3/4	142,656	3/4	153,051	3/4		3/4		3/4		3/4		3/4	
9	111,682	9	122,079	9	132,475	9	142,872	9	153,267	9		9		9		9		9	
1/4	111,898	1/4	122,295	1/4	132,692	1/4	143,089	1/4	153,478	1/4		1/4		1/4		1/4		1/4	
1/2	112,115	1/2	122,512	1/2	132,909	1/2	143,305	1/2	153,690	1/2		1/2		1/2		1/2		1/2	
3/4	112,331	3/4	122,728	3/4	133,125	3/4	143,522	3/4	153,901	3/4		3/4		3/4		3/4		3/4	
10	112,548	10	122,945	10	133,342	10	143,739	10	154,112	10		10		10		10		10	
1/4	112,765	1/4	123,162	1/4	133,559	1/4	143,955	1/4	154,285	1/4		1/4		1/4		1/4		1/4	
1/2	112,981	1/2	123,378	1/2	133,775	1/2	144,172	1/2	154,458	1/2		1/2		1/2		1/2		1/2	
3/4	113,198	3/4	123,595	3/4	133,992	3/4	144,388	3/4	154,632	3/4		3/4		3/4		3/4		3/4	
11	113,414	11	123,811	11	134,208	11	144,605	11	154,805	11		11		11		11		11	
1/4	113,631	1/4	124,028	1/4	134,425	1/4	144,821	1/4	154,935	1/4		1/4		1/4		1/4		1/4	
1/2	113,848	1/2	124,245	1/2	134,642	1/2	145,038	1/2	155,065	1/2		1/2		1/2		1/2		1/2	
3/4	114,064	3/4	124,461	3/4	134,858	3/4	145,254	3/4	155,195	3/4		3/4		3/4		3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2007

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