



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

Certification Date: 13 Aug 2025  
Expiration Date: 28 Sep 2030

# 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 414-L	1262941			Tank Barge

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

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
ASHLAND CITY, TN	24Sep2015	25Aug2015	R-1619	R-1619		R-297.5
UNITED STATES			-	-		1-0

Owner	Operator
FRANK W BANTA JR 2012 GRANTOR TRUST DTD 12/28/12 1237 HIGHWAY 75 SUNSHINE, LA 70780 UNITED STATES	CHEM CARRIERS LLC 1237 HWY 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 31.10-21(a) (2). If this vessel is operated in salt water more than six (6) months in any twelve (12) month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a) (1) 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 New Orleans, LA, UNITED STATES, the Officer in Charge, Marine Inspection, Sector New Orleans certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Annual/Periodic/Re-Inspection				This certificate issued by: <b>D. VELEZ COMMANDER, By direction</b> _____ Officer in Charge, Marine Inspection <b>Sector New Orleans</b> _____ Inspection Zone
Date	Zone	A/P/R	Signature	



# Certificate of Inspection

Vessel Name: CCL 414-L

### ---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	31Jul2035	22Jul2025	24Sep2015
Internal Structure	31Jul2030	22Jul2025	25Sep2020

### --- 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
28980	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 P/S	840	13.58
2 P/S	853	13.58
3 P/S	770	13.58
SLOP		

#### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3943	10ft 3in	13.58	LBS, R, LC 0-12
III	4691	11ft 9in	13.58	LBS, R, LC 0-12

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-1503484 dated August 10, 2015, may be carried and then only in the tanks indicated.

Per 46 CFR 150.130, the Person In Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR, Part 150, are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the compatibility group numbers from the "COMPAT GRP" column listed in the vessel's CAA.

When the vessel is carrying cargoes containing greater than 0.5% benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR Part 197, Subpart C are applicable.

#### \*Stability and Trim\*

Cargo tanks must be loaded uniformly whenever a 46 CFR Subchapter "O" cargo is carried; for trim purposes, the weight of cargo in each tank may exceed the uniformly loaded tank cargo weight by at most 5 percent.

The maximum density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 13.58 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

#### \*Vapor Control Authorization\*

In accordance with 46 CFR 39, excluding 46 CFR 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter Serial # C1-1503484 dated August 10, 2015 and the list of authorized cargoes on the



# Certificate of Inspection

Vessel Name: CCL 414-L

CAA, Serial # C1-1503484 dated August 10, 2015 and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

In accordance with 46 CFR Part 39.1017 and 39.5001(e) this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

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

**\*Fuel Tanks\***

Tank ID	Internal Examinations		
	Previous	Last	Next
AFT	-	24Sep2015	-

**\*Cargo Tanks\***

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1 P/S	24Sep2015	22Jul2025	22Jul2035	-	-	-
2 P/S	24Sep2015	22Jul2025	22Jul2035	-	-	-
3 P/S	24Sep2015	22Jul2025	22Jul2035	-	-	-

Tank Id	Safety Valves	Hydro Test		
		Previous	Last	Next
1 P/S	-	-	-	-
2 P/S	-	-	-	-
3 P/S	-	-	-	-

**---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\*\*\*

## Vessel Details for CCL 414-L Plan: 16130

**IMO Number:**  
**Official Number: 1262941**  
**AUTHORIZED**

[Return to plan 16130](#)

**Vessel Information**

Total WCD:	30000 barrels
VRP Type:	Tank (Primary)
Owner:	
Operator:	
Flag:	UNITED STATES
Call Sign:	
Cargo Type Carried:	Group I Non-Persistent Oils Group II Persistent Oils Group III Persistent Oils
Vessel Type:	Tank Barge
Largest Oil Tank:	0 barrels
Length:	297.5 ft
Gross Tons (GRT)	1619
Self Propelled	No

**Zones this Vessel Calls**

**Total Zones: 8 | Total Authorized: 8**

Zone	Approved	Nav Restrictions	Alt Planning Criteria Used	Lightering Restrictions
<u>CORPUS CHRISTI</u>	AUTHORIZED		No	Yes
<u>HOUSTON-GALVESTON</u>	AUTHORIZED		No	Yes
<u>MOBILE</u>	AUTHORIZED		No	Yes
<u>MORGAN CITY</u>	AUTHORIZED		No	Yes
<u>NEW ORLEANS</u>	AUTHORIZED		No	Yes
<u>OHIO VALLEY</u>	AUTHORIZED		No	Yes
<u>PORT ARTHUR AND LAKE CHARLES</u>	AUTHORIZED		No	Yes
<u>UPPER MISSISSIPPI RIVER (ST. LOUIS)</u>	AUTHORIZED		No	Yes



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CCL 414**  
Official #: 1262941

Shipyard: Trinity Marine  
Hull #: 5153

### 46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Tanks			Cargo Transfer		Environmental Control		Fire Protection Provided	Special Requirements		Elec Haz	Temp Cont		
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Cargo Seg Tank	Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	General	Materials of Construction			
A	#1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	50-60, 50-70(a), 50-70(b), 50-73, 50-81(a), 50-81(b),	55-1(b), (c), (e), (f), (j), 56-1(a), (b), (c), (d), (e), (f), (g).	NR	No

- Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.  
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

Name	Cargo Identification						Conditions of Carriage					
	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery 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 <sup>2</sup>	O	C	II	A	Yes	4	50-70(a), 55-1(e)		G
Adiponitrile	ADN	37	O	E	II	A	Yes	1	No		G
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	O	NA	III	A	No	N/A	50-81, 50-86		G
Aminoethylethanolamine	AEE	8	O	E	III	A	Yes	1	55-1(b)		G
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	O	NA	III	A	No	N/A	50-73, 56-1(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 <sup>2</sup>	O	C	III	A	Yes	1	50-60		G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 <sup>2</sup>	O	C	III	A	Yes	1	50-60, 56-1(b), (d), (f), (g)		G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	O	B/C	III	A	Yes	1	50-60		G
Butyl acrylate (all isomers)	BAR	14	O	D	III	A	Yes	2	50-70(a), 50-81(a), (b)		G
Butyl methacrylate	BMH	14	O	D	III	A	Yes	2	50-70(a), 50-81(a), (b)		G
Butyraldehyde (all isomers)	BAE	19	O	C	III	A	Yes	1	55-1(b)		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 <sup>2</sup>	O	NA	III	A	No	N/A	50-73, 55-1(j)		G
Caustic soda solution	CSS	5 <sup>2</sup>	O	NA	III	A	No	N/A	50-73, 55-1(j)		G
Chemical Oil (refined, containing phenolics)	COD	21	O	E	II	A	No	N/A	50-73		G
Chlorobenzene	CRB	36	O	D	III	A	Yes	1	No		G
Chloroform	CRF	36	O	NA	III	A	Yes	3	No		G
Coal tar naphtha solvent	NCT	33	O	D	III	A	Yes	1	50-73		G
Creosote	CCW	21 <sup>2</sup>	O	E	III	A	Yes	1	No		G
Cresols (all isomers)	CRS	21	O	E	III	A	Yes	1	No		G
Cresylate spent caustic	CSC	5	O	NA	III	A	No	N/A	50-73, 55-1(b)		G
Cresylic acid tar	CRX	21	O	E	III	A	Yes	1	55-1(f)		G
Crotonaldehyde	CTA	19 <sup>2</sup>	O	C	II	A	Yes	4	55-1(h)		G
Crude hydrocarbon feed stock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		O	C	III	A	Yes	1	No		G
Cyclohexanone	CCH	18	O	D	III	A	Yes	1	56-1(a), (b)		G
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	O	E	III	A	Yes	1	56-1 (b)		G
Cyclohexylamine	CHA	7	O	D	III	A	Yes	1	56-1(a), (b), (c), (g)		G

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CCL 414**  
Official #: 1262941

Shipyard: Trinity Marine  
Hull #: 5153

Name	Cargo Identification					Conditions of Carriage					
	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'l's of	Insp. Period	
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	O	D	III	A	Yes	1	50-60, 56-1(b)	G	
iso-Decyl acrylate	IAI	14	O	E	III	A	Yes	2	50-70(a), 50-81(a), (b), 55-1(c)	G	
Dichlorobenzene (all isomers)	DBX	36	O	E	III	A	Yes	3	56-1(a), (b)	G	
1,1-Dichloroethane	DCH	36	O	C	III	A	Yes	1	No	G	
2,2'-Dichloroethyl ether	DEE	41	O	D	II	A	Yes	1	55-1(f)	G	
Dichloromethane	DCM	36	O	NA	III	A	Yes	5	No	G	
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	O	E	III	A	No	N/A	56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 <sup>1,2</sup>	O	A	III	A	No	N/A	56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 <sup>2</sup>	O	E	III	A	No	N/A	56-1(a), (b), (c), (g)	G	
1,1-Dichloropropane	DPB	36	O	C	III	A	Yes	3	No	G	
1,2-Dichloropropane	DPP	36	O	C	III	A	Yes	3	No	G	
1,3-Dichloropropane	DPC	36	O	C	III	A	Yes	3	No	G	
1,3-Dichloropropene	DPU	15	O	D	II	A	Yes	4	No	G	
Dichloropropene, Dichloropropane mixtures	DMX	15	O	C	II	A	Yes	1	No	G	
Diethanolamine	DEA	8	O	E	III	A	Yes	1	55-1(c)	G	
Diethylamine	DEN	7	O	C	III	A	Yes	3	55-1(c)	G	
Diethylenetriamine	DET	7 <sup>2</sup>	O	E	III	A	Yes	1	55-1(c)	G	
Diisobutylamine	DBU	7	O	D	III	A	Yes	3	55-1(c)	G	
Diisopropanolamine	DIP	8	O	E	III	A	Yes	1	55-1(c)	G	
Diisopropylamine	DIA	7	O	C	II	A	Yes	3	55-1(c)	G	
N,N-Dimethylacetamide	DAC	10	O	E	III	A	Yes	3	56-1(b)	G	
Dimethylethanolamine	DMB	8	O	D	III	A	Yes	1	56-1(b), (c)	G	
Dimethylformamide	DMF	10	O	D	III	A	Yes	1	55-1(e)	G	
Di-n-propylamine	DNA	7	O	C	II	A	Yes	3	55-1(c)	G	
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 <sup>2</sup>	O	D	III	A	Yes	1	55-1(c)	G	
Ethylene dichloride	EDC	36 <sup>2</sup>	O	C	III	A	Yes	1	No	G	
Ethylene glycol hexyl ether	EGH	40	O	E	III	A	No	N/A	No	G	
Ethylene glycol monoalkyl ethers	EGC	40	O	D/E	III	A	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	O	E	III	A	Yes	1	No	G	
2-Ethylhexyl acrylate	EAI	14	O	E	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	O	D/E	III	A	Yes	2	50-70(a)	G	
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	O	E	III	A	Yes	1	No	G	
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	O	D/E	III	A	Yes	1	55-1(h)	G	
Furfural	FFA	19	O	D	III	A	Yes	1	55-1(h)	G	
Glutaraldehyde solution (50% or less)	GTA	19	O	NA	III	A	No	N/A	No	G	
Hexamethylenediamine solution	HMC	7	O	E	III	A	Yes	1	55-1(c)	G	
Hexamethyleneimine	HMI	7	O	C	II	A	Yes	1	56-1(b), (c)	G	
Hydrocarbon 5-9	HFN		O	C	III	A	Yes	1	50-70(a), 50-81(a), (b)	G	
Isoprene	IPR	30	O	A	III	A	Yes	7	50-70(a), 50-81(a), (b)	G	

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CCL 414

Shipyard: Trinity Marine

Official #: 1262941

Page 3 of 8

Hull #: 5153

Cargo Identification						Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mats of	Insp. Period	
Isoprene, Pentadiene mixture	IPN		O	B	III	A	No	N/A	50-70(a), 55-1(c)	G	
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	O	NA	III	A	No	N/A	50-73, 56-1(a), (c), (g)	G	
Mesityl oxide	MSO	18 <sup>2</sup>	O	D	III	A	Yes	1	No	G	
Methyl acrylate	MAM	14	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Methylcyclopentadiene dimer	MCK	30	O	C	III	A	Yes	1	No	G	
Methyl diethanolamine	MDE	8	O	E	III	A	Yes	1	56-1(b), (c)	G	
2-Methyl-5-ethylpyridine	MEP	9	O	E	III	A	Yes	1	55-1(e)	G	
Methyl methacrylate	MMM	14	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
2-Methylpyridine	MPR	9	O	D	III	A	Yes	3	55-1(c)	G	
alpha-Methylstyrene	MSR	30	O	D	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Morpholine	MPL	7 <sup>2</sup>	O	D	III	A	Yes	1	55-1(c)	G	
Nitroethane	NTE	42	O	D	II	A	No	N/A	50-81, 56-1(b)	G	
1- or 2-Nitropropane	NPM	42	O	D	III	A	Yes	1	50-81	G	
1,3-Pentadiene	PDE	30	O	A	III	A	Yes	7	50-70(a), 50-81	G	
Perchloroethylene	PER	36	O	NA	III	A	No	N/A	No	G	
Polyethylene polyamines	PEB	7 <sup>2</sup>	O	E	III	A	Yes	1	55-1(e)	G	
iso-Propanolamine	MPA	8	O	E	III	A	Yes	1	55-1(c)	G	
Propanolamine (iso-, n-)	PAX	8	O	E	III	A	Yes	1	56-1(b), (c)	G	
iso-Propylamine	IPP	7	O	A	II	A	Yes	5	55-1(c)	G	
Pyridine	PRD	9	O	C	III	A	Yes	1	55-1(e)	G	
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP	5	O		III	A	No	N/A	50-73, 55-1(f)	G	
Sodium aluminate solution (45% or less)	SAU	5	O	NA	III	A	No	N/A	50-73, 56-1(a), (b), (c)	G	
Sodium chlorate solution (50% or less)	SDD	0 <sup>1,2</sup>	O	NA	III	A	No	N/A	50-73	G	
Sodium hypochlorite solution (20% or less)	SHQ	5	O	NA	III	A	No	N/A	50-73, 56-1(a), (b)	G	
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 <sup>1,2</sup>	O	NA	III	A	Yes	1	50-73, 55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 <sup>1,2</sup>	O	NA	III	A	No	N/A	50-73, 55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 <sup>1,2</sup>	O	NA	II	A	No	N/A	50-73, 55-1(b)	G	
Styrene (crude)	STX	30	O	D	III	A	Yes	2	No	G	
Styrene monomer	STY	30	O	D	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
1,1,2,2-Tetrachloroethane	TEC	36	O	NA	III	A	No	N/A	No	G	
Tetraethylenepentamine	TTP	7	O	E	III	A	Yes	1	55-1(c)	G	
Tetrahydrofuran	THF	41	O	C	III	A	Yes	1	50-70(b)	G	
Toluenediamine	TDA	9	O	E	II	A	No	N/A	50-73, 56-1(a), (b), (c), (g)	G	
1,2,4-Trichlorobenzene	TCB	36	O	E	III	A	Yes	1	No	G	
1,1,2-Trichloroethane	TCM	36	O	NA	III	A	Yes	1	50-73, 56-1(a)	G	
Trichloroethylene	TCL	36 <sup>2</sup>	O	NA	III	A	Yes	1	No	G	
1,2,3-Trichloropropane	TCN	36	O	E	II	A	Yes	3	50-73, 56-1(a)	G	
Triethanolamine	TEA	8 <sup>2</sup>	O	E	III	A	Yes	1	55-1(b)	G	
Triethylamine	TEN	7	O	C	II	A	Yes	3	55-1(e)	G	
Triethylenetetramine	TET	7 <sup>2</sup>	O	E	III	A	Yes	1	55-1(b)	G	
Triphenylborane (10% or less), caustic soda solution	TPB	5	O	NA	III	A	No	N/A	56-1(a), (b), (c)	G	
Trisodium phosphate solution	TSP	5	O	NA	III	A	No	N/A	50-73, 56-1(a), (c)	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	O	NA	III	A	No	N/A	56-1(b)	G	
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	O	NA	III	A	No	N/A	50-73, 56-1(a), (c), (g)	G	
Vinyl acetate	VAM	13	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Vinyl neodecanate	VND	13	O	E	III	A	No	N/A	50-70(a), 50-81(a), (b)	G	
Vinyltoluene	VNT	13	O	D	III	A	Yes	2	50-70(a), 50-81, 56-1(a), (b), (c), (f)	G	

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CCL 414**

Shipyard: Trinity Marine

Official #: 1262941

Page 4 of 8

Hull #: 5153

Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat's of	Insp. Period

### Subchapter D Cargoes Authorized for Vapor Control

Acetone	ACT	18 <sup>2</sup>	D	C		A	Yes	1		
Acetophenone	ACP	18	D	E		A	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		A	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		A	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		A	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes	1		
Benzyl alcohol	BAL	21	D	E		A	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		A	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		A	Yes	1		
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		A	Yes	1		
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		A	Yes	1		
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	C		A	Yes	1		
Butyl alcohol (tert-)	BAT	20 <sup>2</sup>	D	C		A	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1		
Butyl toluene	BUE	32	D	D		A	Yes	1		
Caprolactam solutions	CLS	22	D	E		A	Yes	1		
Cyclohexane	CHX	31	D	C		A	Yes	1		
Cyclohexanol	CHN	20	D	E		A	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2		
p-Cymene	CMP	32	D	D		A	Yes	1		
iso-Decaldehyde	IDA	19	D	E		A	Yes	1		
n-Decaldehyde	DAL	19	D	E		A	Yes	1		
Decene	DCE	30	D	D		A	Yes	1		
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	E		A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	DAA	20 <sup>2</sup>	D	D		A	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E		A	Yes	1		
Diethylbenzene	DEB	32	D	D		A	Yes	1		
Diethylene glycol	DEG	40 <sup>2</sup>	D	E		A	Yes	1		
Diisobutylene	DBL	30	D	C		A	Yes	1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes	1		
Dimethyl phthalate	DTL	34	D	E		A	Yes	1		
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	DFE	33	D	E		A	Yes	1		
Distillates: Straight run	DSR	33	D	E		A	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1		

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CCL 414

Shipyard: Trinity Marine

Official #: 1262941

Page 5 of 8

Hull #: 5153

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Ethyl acetate	ETA	34	D	C		A	Yes	1			
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1			
Ethyl alcohol	EAL	20 <sup>2</sup>	D	C		A	Yes	1			
Ethylbenzene	ETB	32	D	C		A	Yes	1			
Ethyl butanol	EBT	20	D	D		A	Yes	1			
Ethyl tert-butyl ether	EBE	41	D	C		A	Yes	1			
Ethyl butyrate	EBR	34	D	D		A	Yes	1			
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1			
Ethylene glycol	EGL	20 <sup>2</sup>	D	E		A	Yes	1			
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1			
Ethylene glycol diacetate	EGY	34	D	E		A	Yes	1			
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1			
Ethyl-3-ethoxypropionate	EEP	34	D	D		A	Yes	1			
2-Ethylhexanol	EHX	20	D	E		A	Yes	1			
Ethyl propionate	EPR	34	D	C		A	Yes	1			
Ethyl toluene	ETE	32	D	D		A	Yes	1			
Formamide	FAM	10	D	E		A	Yes	1			
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	E		A	Yes	1			
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		A	Yes	1			
Gasoline blending stocks: Reformates	GRF	33	D	A/C		A	Yes	1			
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	C		A	Yes	1			
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	C		A	Yes	1			
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1			
Gasolines: Polymer	GPL	33	D	A/C		A	Yes	1			
Gasolines: Straight run	GSR	33	D	A/C		A	Yes	1			
Glycerine	GCR	20 <sup>2</sup>	D	E		A	Yes	1			
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	C		A	Yes	1			
Heptanoic acid	HEP	4	D	E		A	Yes	1			
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1			
Heptene (all isomers)	HPX	30	D	C		A	Yes	2			
Heptyl acetate	HPE	34	D	E		A	Yes	1			
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		A	Yes	1			
Hexanoic acid	HXO	4	D	E		A	Yes	1			
Hexanol	HXN	20	D	D		A	Yes	1			
Hexene (all isomers)	HEX	30	D	C		A	Yes	2			
Hexylene glycol	HXG	20	D	E		A	Yes	1			
Isophorone	IPH	18 <sup>2</sup>	D	E		A	Yes	1			
Jet fuel: JP-4	JPF	33	D	E		A	Yes	1			
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1			
Kerosene	KRS	33	D	D		A	Yes	1			
Methyl acetate	MTT	34	D	D		A	Yes	1			
Methyl alcohol	MAL	20 <sup>2</sup>	D	C		A	Yes	1			
Methylamyl acetate	MAC	34	D	D		A	Yes	1			
Methylamyl alcohol	MAA	20	D	D		A	Yes	1			
Methyl amyl ketone	MAK	18	D	D		A	Yes	1			
Methyl tert-butyl ether	MBE	41 <sup>2</sup>	D	C		A	Yes	1			
Methyl butyl ketone	MBK	18	D	C		A	Yes	1			

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CCL 414

Shipyard: Trinity Marine

Official #: 1262941

Page 6 of 8

Hull #: 5153

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat's of	Insp. Period	
							App'd (Y or N)	VCS Category			
Methyl butyrate	MBU	34	D	C		A	Yes	1			
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	C		A	Yes	1			
Methyl heptyl ketone	MHK	18	D	D		A	Yes	1			
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	C		A	Yes	1			
Methyl naphthalene (molten)	MNA	32	D	E		A	Yes	1			
Mineral spirits	MNS	33	D	D		A	Yes	1			
Myrcene	MRE	30	D	D		A	Yes	1			
Naphtha: Heavy	NAG	33	D	#		A	Yes	1			
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1			
Naphtha: Solvent	NSV	33	D	D		A	Yes	1			
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1			
Naphtha: Varnish makers and painters (75%)	NVM	33	D	C		A	Yes	1			
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1			
Nonene (all isomers)	NON	30	D	D		A	Yes	2			
Nonyl alcohol (all isomers)	NNS	20 <sup>2</sup>	D	E		A	Yes	1			
Nonyl phenol	NNP	21	D	E		A	Yes	1			
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1			
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		A	Yes	1			
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1			
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	E		A	Yes	1			
Octene (all isomers)	OTX	30	D	C		A	Yes	2			
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1			
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1			
Oil, fuel: No. 4	OFR	33	D	D/E		A	Yes	1			
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes	1			
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1			
Oil, misc: Crude	OIL	33	D	A/D		A	Yes	1			
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1			
Oil, misc: Gas, high pour	OGP	33	D	E		A	Yes	1			
Oil, misc: Lubricating	OLB	33	D	E		A	Yes	1			
Oil, misc: Residual	ORL	33	D	E		A	Yes	1			
Oil, misc: Turbine	OTB	33	D	E		A	Yes	1			
Pentane (all isomers)	PTY	31	D	A		A	Yes	5			
Pentene (all isomers)	PTX	30	D	A		A	Yes	5			
n-Pentyl propionate	PPE	34	D	D		A	Yes	1			
alpha-Pinene	PIO	30	D	D		A	Yes	1			
beta-Pinene	PIP	30	D	D		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1			
Polybutene	PLB	30	D	E		A	Yes	1			
Polypropylene glycol	PGC	40	D	E		A	Yes	1			
iso-Propyl acetate	IAC	34	D	C		A	Yes	1			
n-Propyl acetate	PAT	34	D	C		A	Yes	1			
iso-Propyl alcohol	IPA	20 <sup>2</sup>	D	C		A	Yes	1			
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	C		A	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1			
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1			
Propylene glycol	PPG	20 <sup>2</sup>	D	E		A	Yes	1			

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CCL 414**  
Official #: 1262941

Page 7 of 8

Shipyard: Trinity Marine  
Hull #: 5153

Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
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		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1		



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CCL 414**  
Official #: 1262941

Page 8 of 8

Shipyard: Trinity Marine  
Hull #: 5153

### Explanation of terms & symbols used in the Table:

#### Cargo Identification

Name	The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code none	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatibility Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 372-1425.
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatibility chart.
Subchapter Subchapter D Subchapter O Note 3	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified. Those flammable and combustible liquids listed in 46 CFR Table 30.25-1. Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2. Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{}" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
A, B, C	Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E	Combustible liquid cargoes, as defined in 46 CFR 30-10.15.
Note 4	The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
NA	Those subchapter O cargoes which are not classified as a flammable or combustible liquid.
#	No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.
Hull Type	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
I	Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1).
II	Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).
III	Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).
NA	Not applicable to barges certificated under Subchapter D.

#### Conditions of Carriage

Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

#### Conditions of Carriage

Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 156.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety components and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	The cargo has not been evaluated/classified for use in vapor control systems.

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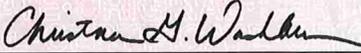


# UNITED STATES OF AMERICA

DEPARTMENT OF HOMELAND SECURITY  
UNITED STATES COAST GUARD

NATIONAL VESSEL DOCUMENTATION CENTER

## CERTIFICATE OF DOCUMENTATION

VESSEL NAME CCL 414-L		OFFICIAL NUMBER 1262941	IMO OR OTHER NUMBER 5153	YEAR COMPLETED 2015	
HAILING PORT NEW ORLEANS LA		HULL MATERIAL STEEL		MECHANICAL PROPULSION NO	
GROSS TONNAGE 1619 GRT	NET TONNAGE 1619 NRT	LENGTH 297.5	BREADTH 54.0	DEPTH 12.0	
PLACE BUILT ASHLAND CITY TN					
OWNERS DAVID STEPHEN LAPLACE TRUSTEE OF THE FRANK W BANTA JR 2012 GRANTOR TRUST			OPERATIONAL ENDORSEMENTS COASTWISE		
MANAGING OWNER D STEPHEN LAPLACE 1237 HWY 75 SUNSHINE LA 70780					
RESTRICTIONS NO RECREATION - BARGE, 79 FEET OR MORE IN LENGTH, MEASURED UNDER SIMPLIFIED SYSTEM					
ENTITLEMENTS NONE					
REMARKS NONE					
ISSUE DATE OCTOBER 10, 2025		 DIRECTOR, NATIONAL VESSEL DOCUMENTATION CENTER			
THIS CERTIFICATE EXPIRES					
NOVEMBER 30, 2026					



**Certificate of Financial Responsibility (COFR)**

<https://www.uscg.mil/Mariners/National-Pollution-Funds-Center/COFRs/ECOFR-Active-Vessel-Status/>

Updated: 04/10/2025 14:00

Vessel Name	Vin	Vessel Type Code	Vsl Vessel Type Desc	Gross Tonnage	Case Control Id	Case- Examiner Id	Case- Operator Name	Effective Date	Expiration Date	Insurance Cancel Flag
CCL 1	D518612	50	TANKBARGE	812	841310	22	CHEM CARRIERS, L.L.C	9/2/2022 12:00:00 AM	9/2/2025 12:00:00 AM	
CCL 2	D510107	50	TANKBARGE	855	841310	22	CHEM CARRIERS, L.L.C	6/23/2023 12:00:00 AM	6/23/2026 12:00:00 AM	
CCL 3	D296363	50	TANKBARGE	822	841310	22	CHEM CARRIERS, L.L.C	10/3/2023 12:00:00 AM	10/3/2026 12:00:00 AM	
CCL 4	D512519	50	TANKBARGE	860	841310	22	CHEM CARRIERS, L.L.C	4/7/2025 4:00:00 AM	4/7/2028 12:00:00 AM	
CCL 5	D512520	50	TANKBARGE	860	841310	22	CHEM CARRIERS, L.L.C	12/6/2022 12:00:00 AM	12/6/2025 12:00:00 AM	
CCL 6	D530996	50	TANKBARGE	798	841310	22	CHEM CARRIERS, L.L.C	1/26/2025 5:00:00 AM	1/26/2028 12:00:00 AM	
CCL 7	D551980	50	TANKBARGE	773	841310	22	CHEM CARRIERS, L.L.C	11/27/2023 12:00:00 AM	11/27/2026 12:00:00 AM	
CCL 8	D551982	50	TANKBARGE	773	841310	22	CHEM CARRIERS, L.L.C	9/27/2023 12:00:00 AM	9/27/2025 12:00:00 AM	
CCL 9	D551983	50	TANKBARGE	773	841310	22	CHEM CARRIERS, L.L.C	2/19/2023 12:00:00 AM	2/19/2026 12:00:00 AM	
CCL 10	D551979	50	TANKBARGE	773	841310	22	CHEM CARRIERS, L.L.C	12/12/2023 12:00:00 AM	12/12/2026 12:00:00 AM	
CCL 11	D551976	50	TANKBARGE	773	841310	22	CHEM CARRIERS, L.L.C	9/29/2022 12:00:00 AM	9/29/2025 12:00:00 AM	
CCL 14	D4497784	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	9/22/2022 12:00:00 AM	9/22/2025 12:00:00 AM	
CCL 15	D1164452	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	3/1/2024 12:00:00 AM	3/1/2027 12:00:00 AM	
CCL 16	D1164666	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	9/14/2024 12:00:00 AM	9/14/2027 12:00:00 AM	
CCL 17	D1166179	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	1/31/2023 12:00:00 AM	1/31/2026 12:00:00 AM	
CCL 18	D1168981	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	7/1/2023 12:00:00 AM	7/1/2026 12:00:00 AM	
CCL 19	D1168980	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	8/24/2023 12:00:00 AM	8/24/2026 12:00:00 AM	
CCL 20	D1191598	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	2/27/2025 5:00:00 AM	2/27/2028 12:00:00 AM	
CCL 21	D1191599	50	TANKBARGE	793	841310	22	CHEM CARRIERS, L.L.C	2/26/2025 5:00:00 AM	2/26/2028 12:00:00 AM	
CCL 22	D1191600	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	1/13/2025 5:00:00 AM	1/13/2028 12:00:00 AM	
CCL 23	D1191601	50	TANKBARGE	793	841310	22	CHEM CARRIERS, L.L.C	4/20/2025 4:00:00 AM	4/20/2028 12:00:00 AM	
CCL 24	D1196547	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	8/11/2023 12:00:00 AM	8/11/2026 12:00:00 AM	
CCL 25	D1196548	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	8/11/2023 12:00:00 AM	8/11/2026 12:00:00 AM	
CCL 26	D1203816	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	2/11/2025 5:00:00 AM	2/11/2028 12:00:00 AM	
CCL 27	D1203817	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	5/3/2024 12:00:00 AM	5/3/2027 12:00:00 AM	
CCL 28	D1212828	50	TANKBARGE	793	841310	22	CHEM CARRIERS, L.L.C	9/9/2023 12:00:00 AM	9/9/2026 12:00:00 AM	
CCL 29	D1212829	50	TANKBARGE	793	841310	22	CHEM CARRIERS, L.L.C	9/22/2023 12:00:00 AM	9/22/2026 12:00:00 AM	
CCL 30	D1305871	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	10/1/2023 12:00:00 AM	10/1/2026 12:00:00 AM	
CCL 31	D1305870	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	10/1/2023 12:00:00 AM	10/1/2026 12:00:00 AM	
CCL 32	D1305869	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	11/13/2023 12:00:00 AM	11/13/2026 12:00:00 AM	
CCL 33	D1305868	50	TANKBARGE	735	841310	22	CHEM CARRIERS, L.L.C	11/13/2023 12:00:00 AM	11/13/2026 12:00:00 AM	
CCL 401	D1216671	50	TANKBARGE	2001	841310	22	CHEM CARRIERS, L.L.C	4/13/2024 12:00:00 AM	4/13/2027 12:00:00 AM	
CCL 402	D1219910	50	TANKBARGE	1754	841310	22	CHEM CARRIERS, L.L.C	4/29/2024 12:00:00 AM	4/29/2027 12:00:00 AM	
CCL 403	D1231311	50	TANKBARGE	1691	841310	22	CHEM CARRIERS, L.L.C	2/8/2023 12:00:00 AM	2/8/2026 12:00:00 AM	
CCL 404	D1231312	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	2/23/2026 12:00:00 AM	2/23/2026 12:00:00 AM	
CCL 405	D1236867	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	1/1/2024 12:00:00 AM	1/1/2027 12:00:00 AM	
CCL 406	D1236866	50	TANKBARGE	1691	841310	22	CHEM CARRIERS, L.L.C	1/27/2024 12:00:00 AM	1/27/2027 12:00:00 AM	
CCL 407	D1246320	50	TANKBARGE	1754	841310	22	CHEM CARRIERS, L.L.C	8/22/2022 12:00:00 AM	8/22/2025 12:00:00 AM	
CCL 408	D1246097	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	8/7/2022 12:00:00 AM	8/7/2025 12:00:00 AM	
CCL 409	D1246098	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	10/2/2022 12:00:00 AM	10/2/2025 12:00:00 AM	
CCL 410	D1255906	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	9/3/2023 12:00:00 AM	9/3/2026 12:00:00 AM	
CCL 411	D1255907	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	9/25/2023 12:00:00 AM	9/25/2026 12:00:00 AM	
CCL 414-L	D1262941	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	9/23/2024 4:00:00 AM	9/23/2027 12:00:00 AM	
CCL 415-T	D1262942	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	9/28/2024 4:00:00 AM	9/28/2027 12:00:00 AM	
CCL 416-T	D1264691	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	1/20/2025 5:00:00 AM	1/20/2028 12:00:00 AM	
CCL 417-T	D1298307	50	TANKBARGE	1769	841310	22	CHEM CARRIERS, L.L.C	1/27/2023 12:00:00 AM	1/27/2026 12:00:00 AM	
CCL 418-L	D1306896	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	11/13/2023 12:00:00 AM	11/13/2026 12:00:00 AM	
CCL 419-L	D1306897	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	1/5/2024 12:00:00 AM	1/5/2027 12:00:00 AM	
CCL 420-T	D1348560	50	TANKBARGE	1619	841310	22	CHEM CARRIERS, L.L.C	2/12/2025 5:00:00 AM	2/12/2028 12:00:00 AM	
AX 3202	D1089031	50	TANKBARGE	1754	841310	22	CHEM CARRIERS, L.L.C	6/11/2024 4:00:00 AM	6/11/2027 12:00:00 AM	
MERLIN BANTA	D249614	51	TUG AND TOWBOAT	384	841310	22	CHEM CARRIERS, L.L.C	11/24/2024 5:00:00 AM	11/24/2027 12:00:00 AM	

**Robert Banta**

---

**From:** Bruce.G.Beardslee@uscg.mil  
**Sent:** Monday, August 26, 2024 3:00 PM  
**To:** Robert Banta  
**Subject:** eCOFR Payment

Thanks for your payment to E-COFR. Your payment information appears below.

Your credit card has been charged \$200

Transaction Information:

Transaction ID: 0000012149037021  
Transaction Type: Renewal  
Case Control Number: 841310  
Operator: CHEM CARRIERS, L.L.C  
Vessel Name: CCL 414-L  
VIN: D1262941  
Transaction Date: 8/26/2024 3:56:10 PM  
Fee: \$100.

---

Transaction ID: 0000012149037022  
Transaction Type: Renewal  
Case Control Number: 841310  
Operator: CHEM CARRIERS, L.L.C  
Vessel Name: CCL 415-T  
VIN: D1262942  
Transaction Date: 8/26/2024 3:56:10 PM  
Fee: \$100.

---

If you have any questions or comments you can call the NPFC Vessel Certification Division at (703)872-6130 Monday through Friday from 7:00am to 4:30pm eastern time.

Please do not reply to this message. It comes from a mailbox that is not monitored.

**C & C Marine and Repair, Inc.**

Post Office Box 2253

Harvey, LA 70059

Phone (504) 433-2000

FAX (504) 433-2044

**Vessel Cargo Piping Test Certificate**

Barge: CC 414

This is to certify that on 8/11/25, cargo piping on the tank barge CC 414 was hydrostatically tested to 188 psi in accordance with 46 CFR 56.97-30. The cargo relief valve is set at 125 psi. Pump pressure gauge tested to within 10%.

Prior to the hydrostatic pipeline test, the test gauge was calibrated to ensure the correct pressure was applied to the pipeline.

Tester: Devin Com

**C & C Marine and Repair, L.L.C.**

Post Office Box 2253

Harvey, LA 70059

Phone (504) 433-2000

Fax (504) 433-2044

The following barge has been tested in accordance with 40 CFR 61.304(f) and has been found to be vapor tight.

**BARGE NAME/ID NO:**

CCL 414

**BARGE OWNER:**

CHEM CARRIERS

**OWNER ADDRESS:**

N/A

**TESTING LOCATION:**

C&C Marine and Repair

**DATE OF TEST:**

8/11/25

**NAME OF TESTER:**

Daniel Cruz

**NAME OF WITNESS:**

Joshua Bauer

**SIGNATURE OF TESTER:**

*Daniel Cruz*

**SIGNATURE OF WITNESS:**

*J Bauer*

**Pump Pressure Gauge Tested Within 10%**

PASSED

**TEST RESULTS:**

PASSED

**TEST DURATION:**

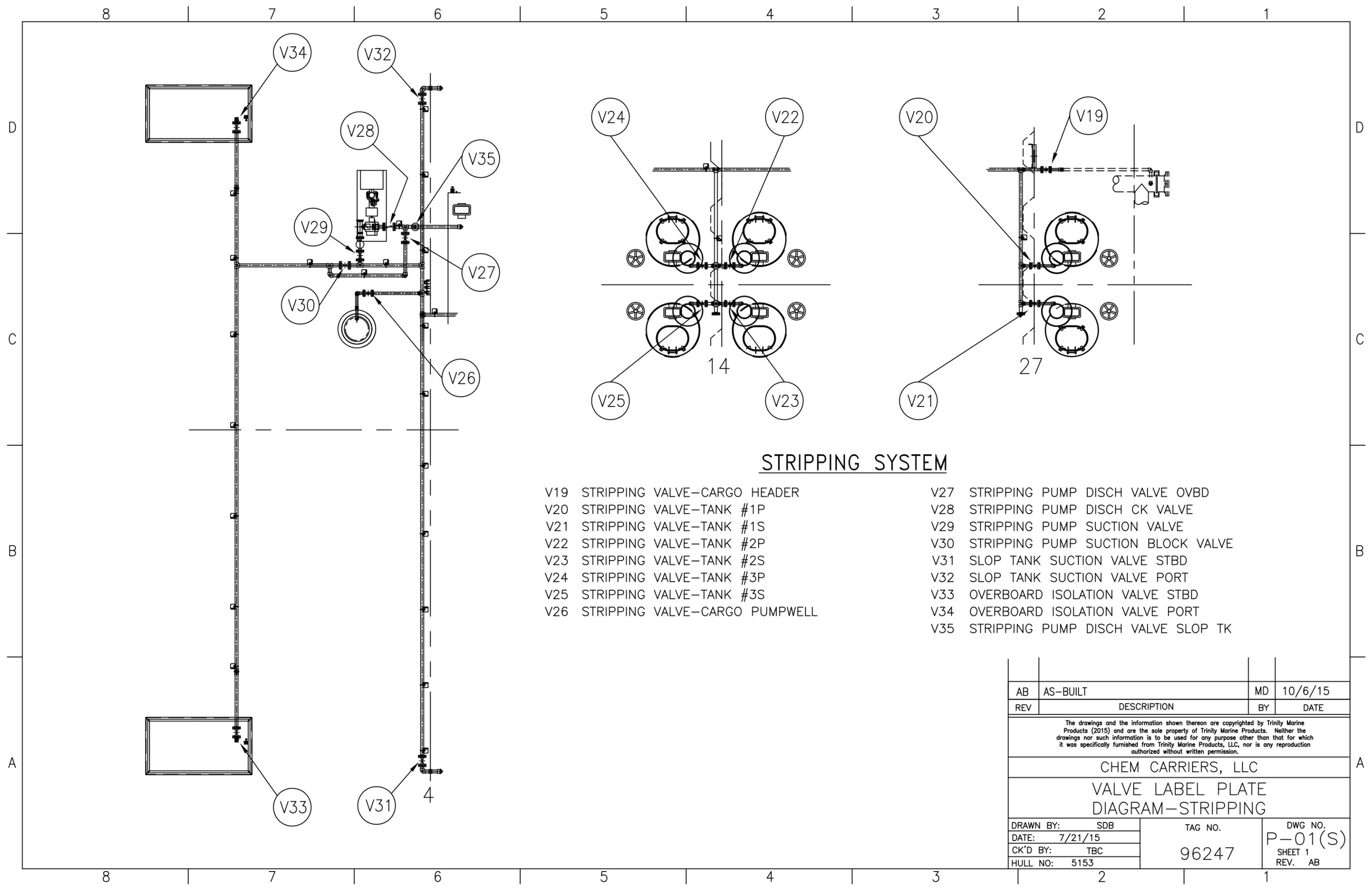
30 min

**STARTING PRESSURE (PSI):**

2.00

**ENDING PRESSURE (PSI):**

1.95



**STRIPPING SYSTEM**

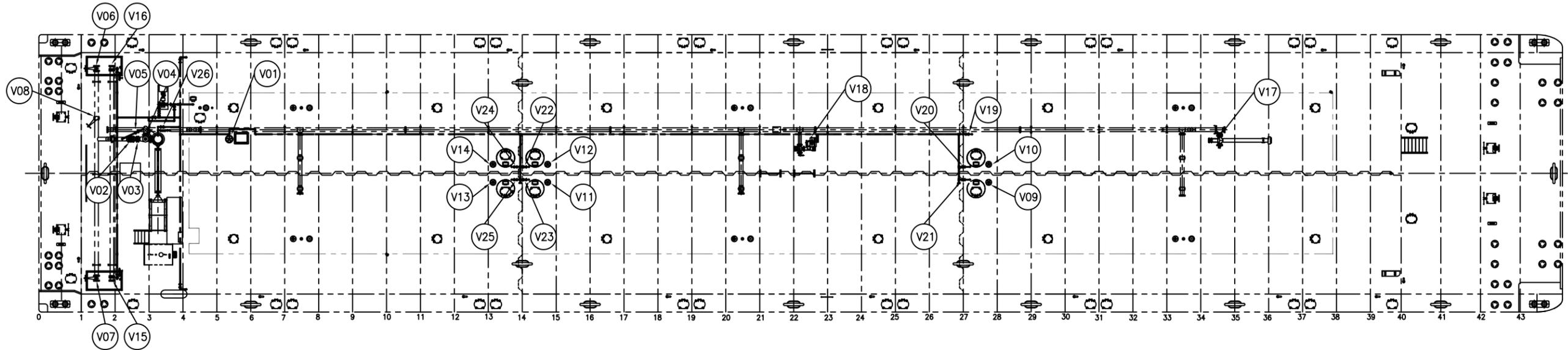
- |     |                                |     |                                    |
|-----|--------------------------------|-----|------------------------------------|
| V19 | STRIPPING VALVE-CARGO HEADER   | V27 | STRIPPING PUMP DISCH VALVE OVBD    |
| V20 | STRIPPING VALVE-TANK #1P       | V28 | STRIPPING PUMP DISCH CK VALVE      |
| V21 | STRIPPING VALVE-TANK #1S       | V29 | STRIPPING PUMP SUCTION VALVE       |
| V22 | STRIPPING VALVE-TANK #2P       | V30 | STRIPPING PUMP SUCTION BLOCK VALVE |
| V23 | STRIPPING VALVE-TANK #2S       | V31 | SLOP TANK SUCTION VALVE STBD       |
| V24 | STRIPPING VALVE-TANK #3P       | V32 | SLOP TANK SUCTION VALVE PORT       |
| V25 | STRIPPING VALVE-TANK #3S       | V33 | OVERBOARD ISOLATION VALVE STBD     |
| V26 | STRIPPING VALVE-CARGO PUMPWELL | V34 | OVERBOARD ISOLATION VALVE PORT     |
|     |                                | V35 | STRIPPING PUMP DISCH VALVE SLOP TK |

AB	AS-BUILT	MD	10/6/15
REV	DESCRIPTION	BY	DATE
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<b>CHEM CARRIERS, LLC</b>			
<b>VALVE LABEL PLATE</b> <b>DIAGRAM-STRIPPING</b>			
DRAWN BY:	SDB	TAG NO.	DWG NO.
DATE:	7/21/15	96247	P-01(S)
CK'D BY:	TBC		
HULL NO:	5153		
			SHEET 1 REV. AB

8 7 6 5 4 3 2 1

D

D



DECK PLAN

B

B

CARGO SYSTEM

VAPOR SYSTEM

STRIPPING SYSTEM

- V01 CARGO PUMP SUCTION VALVE
- V02 CARGO PUMP DISCHARGE VALVE
- V03 CARGO PUMP DISCHARGE CHECK VALVE
- V04 CARGO PUMP RELIEF VALVE
- V05 CARGO PUMP BYPASS VALVE
- V06 PORT TRANS CARGO HDR BLOCK VALVE
- V07 STBD TRANS CARGO HDR BLOCK VALVE
- V08 CARGO LOADING VALVE
- V09 CARGO SUCTION VALVE-TANK #1S
- V10 CARGO SUCTION VALVE-TANK #1P
- V11 CARGO SUCTION VALVE-TANK #2S
- V12 CARGO SUCTION VALVE-TANK #2P
- V13 CARGO SUCTION VALVE-TANK #3S
- V14 CARGO SUCTION VALVE-TANK #3P

- V15 STBD TRANS VAPOR HDR BLOCK VALVE
- V16 PORT TRANS VAPOR HDR BLOCK VALVE
- V17 VAPOR STACK BLOCK VALVE
- V18 VAPOR P/V VALVE

- V19 STRIPPING VALVE-CARGO HEADER
- V20 STRIPPING VALVE-TANK #1P
- V21 STRIPPING VALVE-TANK #1S
- V22 STRIPPING VALVE-TANK #2P
- V23 STRIPPING VALVE-TANK #2S
- V24 STRIPPING VALVE-TANK #3P
- V25 STRIPPING VALVE-TANK #3S
- V26 STRIPPING VALVE-CARGO PUMPWELL

A

A

	AS-BUILT	MD	10/6/15
REV	DESCRIPTION	BY	DATE
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CHEM CARRIERS, LLC VALVE LABEL PLATE DIAGRAM			
DRAWN BY: CAB		TAG NO.	
DATE: 6/5/15		96247	
CK'D BY: GG			
HULL NO: 5153			
		DWG NO. P-01 SHEET 1 REV. AB	

8 7 6 5 4 3 2 1

**STATEMENT OF INTENDED FRESH WATER SERVICE**

**NAME:** Chem Carriers L.L.C.

**ADDRESS:** 1237 HWY 75  
Sunshine, LA. 70780

**Date:** September 9, 2015

It is the intention of the above named owner/ operator to operate the vessel CCL 414-L, Official# 1262941 in fresh water for six out of twelve months during any period. Accordingly, it is requested that the vessel's Certificate of Inspection be endorsed as follows:

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 MONTHS IN ANY TWELVE 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.

The owner/ operator recognizes their responsibilities contained in the endorsement.

Signature:

Name: Robert J Banta Sr.

Position/Title: Chief Operations Officer

# CARGO TRANSFER PROCEDURES

## CHEM CARRIERS L.L.C.

### TRANSFER FROM BARGE TO DOCK

#### PARTS

1. PRODUCTS TRANSFERRED
2. DESCRIPTION OF SYSTEM
3. PERSONS ON DUTY
4. PERSONS IN CHARGE
5. EMERGENCY SHUTDOWN
6. TOPPING OFF PROCEDURE
7. COMPLETION OF TRANSFER
8. REPORTING CARGO SPILLS
9. VESSEL CLOSURES
10. PRODUCT DATA
11. Vapor Control Procedures
12. Inert system

Barge CCL 414-L

#### 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 414-L is equipped with a separate containment area for

the cargo trunk top and the aft 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 tankerman (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 overflow devices have been installed on the CCL 414-L. Dipsticks can be made operational by releasing the covers or caps. Dipsticks should be used as a visual aid for overflow 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 then 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 1-800-424-8802.
- E. Notify Chem Carriers L.L.C. at (225) 642-0060
- F. If loading, transfer the cargo from the leaking tank to an adjacent tank or back to the dock if safe to do so.
- G. 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.

In case 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 5000 BBL/HR for

subchapter "D" Cargoes and 5000 BBLs/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 ½" 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.

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 414-L (1262941) 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  
HOUMA  
HOUSTON-GALVESTON

LOWER MISSISSIPPI RIVER  
(MEMPHIS)  
MOBILE  
NEW ORLEANS

OHIO VALLEY  
PORT ARTHUR AND LAKE  
CHARLES

UPPER MISSISSIPPI RIVER  
(ST. LOUIS)

Sincerely,



CHARRON MCCOMBS

Lieutenant Commander

Acting Chief, Domestic Preparedness & Planning Division

U.S. Coast Guard

By direction

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,

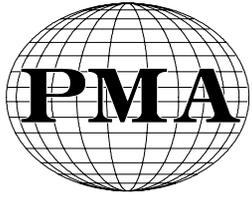
K. C. WILLIAMS  
Lieutenant Commander, U.S. Coast Guard  
Chief, Vessel Security Division  
By direction

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

**List of Vessels Covered**

<u>Vessel Name</u>	<u>Official Number (O.N.)</u>
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

<u>Vessel Name</u>	<u>Official Number (O.N.)</u>
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



# BARGE "CCL 414 L"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>										
1 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 238'-03"

September 11, 2015

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

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	838	0	15,337	0	30,353	0	45,325	0	60,333	0	75,349	0	90,365	0	105,380	0	120,396	0	135,412
1/4	1,054	1/4	15,650	1/4	30,665	1/4	45,637	1/4	60,646	1/4	75,662	1/4	90,677	1/4	105,693	1/4	120,709	1/4	135,725
1/2	1,269	1/2	15,963	1/2	30,978	1/2	45,948	1/2	60,959	1/2	75,974	1/2	90,990	1/2	106,006	1/2	121,022	1/2	136,038
3/4	1,484	3/4	16,276	3/4	31,291	3/4	46,260	3/4	61,271	3/4	76,287	3/4	91,303	3/4	106,319	3/4	121,335	3/4	136,350
1	1,699	1	16,588	1	31,604	1	46,572	1	61,584	1	76,600	1	91,616	1	106,632	1	121,647	1	136,663
1/4	1,982	1/4	16,901	1/4	31,917	1/4	46,884	1/4	61,897	1/4	76,913	1/4	91,929	1/4	106,944	1/4	121,960	1/4	136,976
1/2	2,265	1/2	17,214	1/2	32,229	1/2	47,196	1/2	62,210	1/2	77,226	1/2	92,242	1/2	107,257	1/2	122,273	1/2	137,289
3/4	2,548	3/4	17,527	3/4	32,542	3/4	47,508	3/4	62,523	3/4	77,539	3/4	92,554	3/4	107,570	3/4	122,586	3/4	137,602
2	2,831	2	17,840	2	32,855	2	47,820	2	62,836	2	77,851	2	92,867	2	107,883	2	122,899	2	137,914
1/4	3,142	1/4	18,153	1/4	33,168	1/4	48,133	1/4	63,148	1/4	78,164	1/4	93,180	1/4	108,196	1/4	123,212	1/4	138,227
1/2	3,454	1/2	18,465	1/2	33,481	1/2	48,446	1/2	63,461	1/2	78,477	1/2	93,493	1/2	108,509	1/2	123,524	1/2	138,540
3/4	3,766	3/4	18,778	3/4	33,794	3/4	48,758	3/4	63,774	3/4	78,790	3/4	93,806	3/4	108,821	3/4	123,837	3/4	138,853
3	4,077	3	19,091	3	34,106	3	49,071	3	64,087	3	79,103	3	94,118	3	109,134	3	124,150	3	139,166
1/4	4,390	1/4	19,404	1/4	34,419	1/4	49,384	1/4	64,400	1/4	79,416	1/4	94,431	1/4	109,447	1/4	124,463	1/4	139,479
1/2	4,702	1/2	19,717	1/2	34,731	1/2	49,697	1/2	64,713	1/2	79,728	1/2	94,744	1/2	109,760	1/2	124,776	1/2	139,791
3/4	5,015	3/4	20,029	3/4	35,044	3/4	50,010	3/4	65,025	3/4	80,041	3/4	95,057	3/4	110,073	3/4	125,089	3/4	140,104
4	5,327	4	20,342	4	35,356	4	50,322	4	65,338	4	80,354	4	95,370	4	110,386	4	125,401	4	140,417
1/4	5,640	1/4	20,655	1/4	35,668	1/4	50,635	1/4	65,651	1/4	80,667	1/4	95,683	1/4	110,698	1/4	125,714	1/4	140,730
1/2	5,953	1/2	20,968	1/2	35,979	1/2	50,948	1/2	65,964	1/2	80,980	1/2	95,995	1/2	111,011	1/2	126,027	1/2	141,043
3/4	6,265	3/4	21,281	3/4	36,291	3/4	51,261	3/4	66,277	3/4	81,293	3/4	96,308	3/4	111,324	3/4	126,340	3/4	141,356
5	6,578	5	21,594	5	36,602	5	51,574	5	66,590	5	81,605	5	96,621	5	111,637	5	126,653	5	141,668
1/4	6,891	1/4	21,906	1/4	36,914	1/4	51,887	1/4	66,902	1/4	81,918	1/4	96,934	1/4	111,950	1/4	126,965	1/4	141,981
1/2	7,204	1/2	22,219	1/2	37,225	1/2	52,199	1/2	67,215	1/2	82,231	1/2	97,247	1/2	112,263	1/2	127,278	1/2	142,294
3/4	7,517	3/4	22,532	3/4	37,537	3/4	52,512	3/4	67,528	3/4	82,544	3/4	97,560	3/4	112,575	3/4	127,591	3/4	142,607
6	7,829	6	22,845	6	37,848	6	52,825	6	67,841	6	82,857	6	97,872	6	112,888	6	127,904	6	142,920
1/4	8,142	1/4	23,158	1/4	38,160	1/4	53,138	1/4	68,154	1/4	83,169	1/4	98,185	1/4	113,201	1/4	128,217	1/4	143,233
1/2	8,455	1/2	23,470	1/2	38,471	1/2	53,451	1/2	68,467	1/2	83,482	1/2	98,498	1/2	113,514	1/2	128,530	1/2	143,545
3/4	8,768	3/4	23,783	3/4	38,783	3/4	53,764	3/4	68,779	3/4	83,795	3/4	98,811	3/4	113,827	3/4	128,842	3/4	143,858
7	9,081	7	24,096	7	39,094	7	54,076	7	69,092	7	84,108	7	99,124	7	114,140	7	129,155	7	144,171
1/4	9,394	1/4	24,409	1/4	39,406	1/4	54,389	1/4	69,405	1/4	84,421	1/4	99,437	1/4	114,452	1/4	129,468	1/4	144,484
1/2	9,706	1/2	24,722	1/2	39,717	1/2	54,702	1/2	69,718	1/2	84,734	1/2	99,749	1/2	114,765	1/2	129,781	1/2	144,797
3/4	10,019	3/4	25,035	3/4	40,029	3/4	55,015	3/4	70,031	3/4	85,046	3/4	100,062	3/4	115,078	3/4	130,094	3/4	145,110
8	10,332	8	25,347	8	40,341	8	55,328	8	70,344	8	85,359	8	100,375	8	115,391	8	130,407	8	145,422
1/4	10,645	1/4	25,660	1/4	40,652	1/4	55,641	1/4	70,656	1/4	85,672	1/4	100,688	1/4	115,704	1/4	130,719	1/4	145,735
1/2	10,958	1/2	25,973	1/2	40,964	1/2	55,953	1/2	70,969	1/2	85,985	1/2	101,001	1/2	116,016	1/2	131,032	1/2	146,048
3/4	11,270	3/4	26,286	3/4	41,275	3/4	56,266	3/4	71,282	3/4	86,298	3/4	101,314	3/4	116,329	3/4	131,345	3/4	146,361
9	11,583	9	26,599	9	41,587	9	56,579	9	71,595	9	86,611	9	101,626	9	116,642	9	131,658	9	146,674
1/4	11,896	1/4	26,912	1/4	41,898	1/4	56,892	1/4	71,908	1/4	86,923	1/4	101,939	1/4	116,955	1/4	131,971	1/4	146,987
1/2	12,209	1/2	27,224	1/2	42,210	1/2	57,205	1/2	72,220	1/2	87,236	1/2	102,252	1/2	117,268	1/2	132,284	1/2	147,299
3/4	12,522	3/4	27,537	3/4	42,521	3/4	57,518	3/4	72,533	3/4	87,549	3/4	102,565	3/4	117,581	3/4	132,596	3/4	147,612
10	12,835	10	27,850	10	42,833	10	57,830	10	72,846	10	87,862	10	102,878	10	117,893	10	132,909	10	147,925
1/4	13,147	1/4	28,163	1/4	43,144	1/4	58,143	1/4	73,159	1/4	88,175	1/4	103,191	1/4	118,206	1/4	133,222	1/4	148,238
1/2	13,460	1/2	28,476	1/2	43,456	1/2	58,456	1/2	73,472	1/2	88,488	1/2	103,503	1/2	118,519	1/2	133,535	1/2	148,551
3/4	13,773	3/4	28,788	3/4	43,767	3/4	58,769	3/4	73,785	3/4	88,800	3/4	103,816	3/4	118,832	3/4	133,848	3/4	148,863
11	14,086	11	29,101	11	44,079	11	59,082	11	74,097	11	89,113	11	104,129	11	119,145	11	134,161	11	149,176
1/4	14,399	1/4	29,414	1/4	44,390	1/4	59,395	1/4	74,410	1/4	89,426	1/4	104,442	1/4	119,458	1/4	134,473	1/4	149,465
1/2	14,712	1/2	29,727	1/2	44,702	1/2	59,707	1/2	74,723	1/2	89,739	1/2	104,755	1/2	119,770	1/2	134,786	1/2	149,754
3/4	15,024	3/4	30,040	3/4	45,013	3/4	60,020	3/4	75,036	3/4	90,052	3/4	105,067	3/4	120,083	3/4	135,099	3/4	150,043

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

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	150,331	0	160,706	0	170,709	0	180,158	0	190,217	0		0		0		0		0	
1/4	150,548	1/4	160,919	1/4	170,911	1/4	180,349	1/4	190,394	1/4		1/4		1/4		1/4		1/4	
1/2	150,764	1/2	161,133	1/2	171,113	1/2	180,539	1/2	190,571	1/2		1/2		1/2		1/2		1/2	
3/4	150,981	3/4	161,347	3/4	171,315	3/4	180,730	3/4	190,748	3/4		3/4		3/4		3/4		3/4	
1	151,197	1	161,560	1	171,518	1	180,920	1	190,925	1		1		1		1		1	
1/4	151,413	1/4	161,773	1/4	171,719	1/4	181,110	1/4	191,050	1/4		1/4		1/4		1/4		1/4	
1/2	151,630	1/2	161,986	1/2	171,920	1/2	181,300	1/2	191,175	1/2		1/2		1/2		1/2		1/2	
3/4	151,846	3/4	162,199	3/4	172,121	3/4	181,489	3/4	191,301	3/4		3/4		3/4		3/4		3/4	
2	152,062	2	162,411	2	172,322	2	181,679	2	191,426	2		2		2		2		2	
1/4	152,279	1/4	162,623	1/4	172,523	1/4	181,875	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,495	1/2	162,835	1/2	172,723	1/2	182,071	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,711	3/4	163,047	3/4	172,923	3/4	182,266	3/4		3/4		3/4		3/4		3/4		3/4	
3	152,928	3	163,258	3	173,123	3	182,462	3		3		3		3		3		3	
1/4	153,144	1/4	163,469	1/4	173,322	1/4	182,679	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,360	1/2	163,680	1/2	173,522	1/2	182,895	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,577	3/4	163,891	3/4	173,721	3/4	183,111	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,793	4	164,102	4	173,920	4	183,328	4		4		4		4		4		4	
1/4	154,009	1/4	164,312	1/4	174,119	1/4	183,544	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,226	1/2	164,521	1/2	174,317	1/2	183,760	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,442	3/4	164,731	3/4	174,515	3/4	183,977	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,658	5	164,941	5	174,713	5	184,193	5		5		5		5		5		5	
1/4	154,875	1/4	165,150	1/4	174,911	1/4	184,409	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,091	1/2	165,359	1/2	175,108	1/2	184,626	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,307	3/4	165,568	3/4	175,305	3/4	184,842	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,524	6	165,777	6	175,503	6	185,058	6		6		6		6		6		6	
1/4	155,740	1/4	165,985	1/4	175,699	1/4	185,275	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,956	1/2	166,192	1/2	175,896	1/2	185,491	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,173	3/4	166,400	3/4	176,092	3/4	185,707	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,389	7	166,608	7	176,288	7	185,924	7		7		7		7		7		7	
1/4	156,605	1/4	166,815	1/4	176,484	1/4	186,140	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,822	1/2	167,022	1/2	176,679	1/2	186,356	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,038	3/4	167,229	3/4	176,875	3/4	186,573	3/4		3/4		3/4		3/4		3/4		3/4	
8	157,254	8	167,436	8	177,070	8	186,789	8		8		8		8		8		8	
1/4	157,471	1/4	167,642	1/4	177,264	1/4	187,005	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,687	1/2	167,848	1/2	177,459	1/2	187,222	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,903	3/4	168,054	3/4	177,653	3/4	187,438	3/4		3/4		3/4		3/4		3/4		3/4	
9	158,120	9	168,260	9	177,848	9	187,654	9		9		9		9		9		9	
1/4	158,336	1/4	168,465	1/4	178,041	1/4	187,871	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,552	1/2	168,670	1/2	178,235	1/2	188,087	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,768	3/4	168,875	3/4	178,428	3/4	188,303	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,985	10	169,080	10	178,622	10	188,519	10		10		10		10		10		10	
1/4	159,200	1/4	169,284	1/4	178,814	1/4	188,735	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,416	1/2	169,488	1/2	179,007	1/2	188,951	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,631	3/4	169,692	3/4	179,199	3/4	189,166	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,847	11	169,897	11	179,392	11	189,382	11		11		11		11		11		11	
1/4	160,062	1/4	170,100	1/4	179,583	1/4	189,590	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,276	1/2	170,303	1/2	179,775	1/2	189,799	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,491	3/4	170,506	3/4	179,967	3/4	190,008	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/10/2015 CL  
CALCULATED: 09/11/2015 CL  
PRINTED: 09/11/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

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	838	0	15,313	0	30,297	0	44,892	0	59,737	0	74,709	0	89,650	0	104,599	0	119,559	0	134,489
1/4	1,053	1/4	15,625	1/4	30,609	1/4	45,195	1/4	60,049	1/4	75,021	1/4	89,961	1/4	104,910	1/4	119,871	1/4	134,797
1/2	1,268	1/2	15,937	1/2	30,921	1/2	45,498	1/2	60,361	1/2	75,333	1/2	90,272	1/2	105,222	1/2	120,182	1/2	135,106
3/4	1,483	3/4	16,249	3/4	31,234	3/4	45,801	3/4	60,673	3/4	75,645	3/4	90,583	3/4	105,534	3/4	120,494	3/4	135,415
1	1,698	1	16,561	1	31,546	1	46,104	1	60,985	1	75,957	1	90,894	1	105,845	1	120,806	1	135,723
1/4	1,981	1/4	16,873	1/4	31,858	1/4	46,407	1/4	61,297	1/4	76,269	1/4	91,205	1/4	106,157	1/4	121,117	1/4	136,032
1/2	2,264	1/2	17,186	1/2	32,170	1/2	46,711	1/2	61,609	1/2	76,581	1/2	91,516	1/2	106,469	1/2	121,429	1/2	136,341
3/4	2,547	3/4	17,498	3/4	32,482	3/4	47,014	3/4	61,920	3/4	76,893	3/4	91,827	3/4	106,780	3/4	121,740	3/4	136,650
2	2,830	2	17,810	2	32,795	2	47,317	2	62,232	2	77,204	2	92,137	2	107,092	2	122,052	2	136,958
1/4	3,141	1/4	18,122	1/4	33,106	1/4	47,621	1/4	62,544	1/4	77,516	1/4	92,448	1/4	107,404	1/4	122,364	1/4	137,267
1/2	3,452	1/2	18,434	1/2	33,418	1/2	47,925	1/2	62,856	1/2	77,828	1/2	92,759	1/2	107,715	1/2	122,675	1/2	137,576
3/4	3,764	3/4	18,747	3/4	33,730	3/4	48,229	3/4	63,168	3/4	78,140	3/4	93,070	3/4	108,027	3/4	122,987	3/4	137,884
3	4,075	3	19,059	3	34,042	3	48,532	3	63,480	3	78,452	3	93,380	3	108,339	3	123,298	3	138,193
1/4	4,387	1/4	19,371	1/4	34,350	1/4	48,838	1/4	63,792	1/4	78,763	1/4	93,691	1/4	108,650	1/4	123,610	1/4	138,502
1/2	4,699	1/2	19,683	1/2	34,658	1/2	49,144	1/2	64,104	1/2	79,074	1/2	94,003	1/2	108,962	1/2	123,921	1/2	138,811
3/4	5,011	3/4	19,995	3/4	34,967	3/4	49,450	3/4	64,416	3/4	79,386	3/4	94,314	3/4	109,274	3/4	124,233	3/4	139,119
4	5,323	4	20,307	4	35,275	4	49,756	4	64,728	4	79,697	4	94,625	4	109,585	4	124,544	4	139,428
1/4	5,635	1/4	20,620	1/4	35,575	1/4	50,068	1/4	65,040	1/4	80,008	1/4	94,937	1/4	109,897	1/4	124,856	1/4	139,737
1/2	5,947	1/2	20,932	1/2	35,875	1/2	50,380	1/2	65,352	1/2	80,319	1/2	95,249	1/2	110,209	1/2	125,168	1/2	140,045
3/4	6,259	3/4	21,244	3/4	36,176	3/4	50,691	3/4	65,664	3/4	80,630	3/4	95,560	3/4	110,520	3/4	125,479	3/4	140,354
5	6,572	5	21,556	5	36,476	5	51,003	5	65,975	5	80,941	5	95,872	5	110,832	5	125,791	5	140,663
1/4	6,884	1/4	21,868	1/4	36,776	1/4	51,315	1/4	66,287	1/4	81,252	1/4	96,184	1/4	111,144	1/4	126,102	1/4	140,972
1/2	7,196	1/2	22,180	1/2	37,077	1/2	51,627	1/2	66,599	1/2	81,563	1/2	96,495	1/2	111,455	1/2	126,414	1/2	141,282
3/4	7,508	3/4	22,493	3/4	37,377	3/4	51,939	3/4	66,911	3/4	81,874	3/4	96,807	3/4	111,767	3/4	126,725	3/4	141,592
6	7,820	6	22,805	6	37,677	6	52,251	6	67,223	6	82,185	6	97,119	6	112,079	6	127,037	6	141,901
1/4	8,132	1/4	23,117	1/4	37,977	1/4	52,563	1/4	67,535	1/4	82,496	1/4	97,430	1/4	112,390	1/4	127,348	1/4	142,214
1/2	8,445	1/2	23,429	1/2	38,278	1/2	52,875	1/2	67,847	1/2	82,807	1/2	97,742	1/2	112,702	1/2	127,660	1/2	142,527
3/4	8,757	3/4	23,741	3/4	38,578	3/4	53,187	3/4	68,159	3/4	83,118	3/4	98,054	3/4	113,014	3/4	127,972	3/4	142,839
7	9,069	7	24,054	7	38,878	7	53,499	7	68,471	7	83,430	7	98,365	7	113,325	7	128,283	7	143,152
1/4	9,381	1/4	24,366	1/4	39,179	1/4	53,811	1/4	68,783	1/4	83,741	1/4	98,677	1/4	113,637	1/4	128,595	1/4	143,464
1/2	9,693	1/2	24,678	1/2	39,479	1/2	54,123	1/2	69,095	1/2	84,052	1/2	98,989	1/2	113,949	1/2	128,906	1/2	143,777
3/4	10,006	3/4	24,990	3/4	39,779	3/4	54,434	3/4	69,407	3/4	84,363	3/4	99,300	3/4	114,260	3/4	129,218	3/4	144,089
8	10,318	8	25,302	8	40,079	8	54,746	8	69,718	8	84,674	8	99,612	8	114,572	8	129,529	8	144,402
1/4	10,630	1/4	25,614	1/4	40,380	1/4	55,058	1/4	70,030	1/4	84,985	1/4	99,924	1/4	114,884	1/4	129,841	1/4	144,714
1/2	10,942	1/2	25,927	1/2	40,680	1/2	55,370	1/2	70,342	1/2	85,296	1/2	100,235	1/2	115,195	1/2	130,152	1/2	145,027
3/4	11,254	3/4	26,239	3/4	40,980	3/4	55,682	3/4	70,654	3/4	85,607	3/4	100,547	3/4	115,507	3/4	130,464	3/4	145,340
9	11,566	9	26,551	9	41,281	9	55,994	9	70,966	9	85,918	9	100,859	9	115,819	9	130,776	9	145,652
1/4	11,879	1/4	26,863	1/4	41,581	1/4	56,306	1/4	71,278	1/4	86,229	1/4	101,170	1/4	116,130	1/4	131,086	1/4	145,965
1/2	12,191	1/2	27,175	1/2	41,881	1/2	56,618	1/2	71,590	1/2	86,540	1/2	101,482	1/2	116,442	1/2	131,397	1/2	146,277
3/4	12,503	3/4	27,487	3/4	42,181	3/4	56,930	3/4	71,902	3/4	86,851	3/4	101,794	3/4	116,754	3/4	131,708	3/4	146,590
10	12,815	10	27,800	10	42,482	10	57,242	10	72,214	10	87,162	10	102,105	10	117,065	10	132,019	10	146,902
1/4	13,127	1/4	28,112	1/4	42,782	1/4	57,554	1/4	72,526	1/4	87,473	1/4	102,417	1/4	117,377	1/4	132,328	1/4	147,215
1/2	13,440	1/2	28,424	1/2	43,083	1/2	57,866	1/2	72,838	1/2	87,784	1/2	102,729	1/2	117,689	1/2	132,636	1/2	147,527
3/4	13,752	3/4	28,736	3/4	43,384	3/4	58,177	3/4	73,150	3/4	88,095	3/4	103,040	3/4	118,000	3/4	132,945	3/4	147,840
11	14,064	11	29,048	11	43,684	11	58,489	11	73,461	11	88,406	11	103,352	11	118,312	11	133,254	11	148,153
1/4	14,376	1/4	29,361	1/4	43,986	1/4	58,801	1/4	73,773	1/4	88,717	1/4	103,664	1/4	118,624	1/4	133,562	1/4	148,441
1/2	14,688	1/2	29,673	1/2	44,288	1/2	59,113	1/2	74,085	1/2	89,028	1/2	103,975	1/2	118,935	1/2	133,871	1/2	148,729
3/4	15,000	3/4	29,985	3/4	44,590	3/4	59,425	3/4	74,397	3/4	89,339	3/4	104,287	3/4	119,247	3/4	134,180	3/4	149,018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

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	149,306	0	159,668	0	169,607	0	178,978	0	188,911	0		0		0		0		0	
1/4	149,522	1/4	159,881	1/4	169,808	1/4	179,167	1/4	189,077	1/4		1/4		1/4		1/4		1/4	
1/2	149,739	1/2	160,095	1/2	170,008	1/2	179,356	1/2	189,243	1/2		1/2		1/2		1/2		1/2	
3/4	149,955	3/4	160,308	3/4	170,209	3/4	179,545	3/4	189,409	3/4		3/4		3/4		3/4		3/4	
1	150,171	1	160,521	1	170,410	1	179,734	1	189,576	1		1		1		1		1	
1/4	150,387	1/4	160,734	1/4	170,609	1/4	179,922	1/4	189,690	1/4		1/4		1/4		1/4		1/4	
1/2	150,603	1/2	160,946	1/2	170,809	1/2	180,110	1/2	189,804	1/2		1/2		1/2		1/2		1/2	
3/4	150,819	3/4	161,159	3/4	171,008	3/4	180,298	3/4	189,918	3/4		3/4		3/4		3/4		3/4	
2	151,035	2	161,371	2	171,208	2	180,486	2	190,032	2		2		2		2		2	
1/4	151,251	1/4	161,582	1/4	171,406	1/4	180,680	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,467	1/2	161,794	1/2	171,605	1/2	180,874	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,683	3/4	162,005	3/4	171,803	3/4	181,068	3/4		3/4		3/4		3/4		3/4		3/4	
3	151,899	3	162,216	3	172,002	3	181,263	3		3		3		3		3		3	
1/4	152,115	1/4	162,425	1/4	172,200	1/4	181,477	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,331	1/2	162,634	1/2	172,397	1/2	181,692	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,547	3/4	162,843	3/4	172,595	3/4	181,907	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,764	4	163,053	4	172,793	4	182,121	4		4		4		4		4		4	
1/4	152,980	1/4	163,261	1/4	172,989	1/4	182,336	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,196	1/2	163,469	1/2	173,186	1/2	182,551	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,412	3/4	163,677	3/4	173,383	3/4	182,765	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,628	5	163,885	5	173,579	5	182,980	5		5		5		5		5		5	
1/4	153,844	1/4	164,093	1/4	173,775	1/4	183,195	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,060	1/2	164,300	1/2	173,971	1/2	183,410	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,276	3/4	164,507	3/4	174,166	3/4	183,624	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,492	6	164,714	6	174,362	6	183,839	6		6		6		6		6		6	
1/4	154,708	1/4	164,921	1/4	174,557	1/4	184,054	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,924	1/2	165,127	1/2	174,751	1/2	184,268	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,140	3/4	165,333	3/4	174,946	3/4	184,483	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,356	7	165,540	7	175,141	7	184,698	7		7		7		7		7		7	
1/4	155,572	1/4	165,745	1/4	175,335	1/4	184,912	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,789	1/2	165,950	1/2	175,528	1/2	185,127	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,005	3/4	166,155	3/4	175,722	3/4	185,342	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,221	8	166,361	8	175,916	8	185,557	8		8		8		8		8		8	
1/4	156,437	1/4	166,565	1/4	176,109	1/4	185,771	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,653	1/2	166,770	1/2	176,302	1/2	185,986	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,869	3/4	166,974	3/4	176,494	3/4	186,201	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,085	9	167,178	9	176,687	9	186,415	9		9		9		9		9		9	
1/4	157,301	1/4	167,382	1/4	176,879	1/4	186,630	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,517	1/2	167,585	1/2	177,071	1/2	186,845	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,733	3/4	167,788	3/4	177,263	3/4	187,059	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,949	10	167,992	10	177,455	10	187,274	10		10		10		10		10		10	
1/4	158,164	1/4	168,194	1/4	177,646	1/4	187,485	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,379	1/2	168,397	1/2	177,836	1/2	187,697	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,595	3/4	168,599	3/4	178,027	3/4	187,909	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,810	11	168,802	11	178,218	11	188,120	11		11		11		11		11		11	
1/4	159,025	1/4	169,003	1/4	178,408	1/4	188,318	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,239	1/2	169,205	1/2	178,598	1/2	188,516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,453	3/4	169,406	3/4	178,788	3/4	188,713	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/10/2015 CL  
CALCULATED: 09/11/2015 CL  
PRINTED: 09/11/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 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	842	0	15,410	0	30,496	0	45,540	0	60,619	0	75,706	0	90,793	0	105,880	0	120,967	0	136,048
1/4	1,058	1/4	15,724	1/4	30,811	1/4	45,853	1/4	60,934	1/4	76,021	1/4	91,107	1/4	106,194	1/4	121,281	1/4	136,362
1/2	1,274	1/2	16,038	1/2	31,125	1/2	46,166	1/2	61,248	1/2	76,335	1/2	91,422	1/2	106,509	1/2	121,596	1/2	136,677
3/4	1,491	3/4	16,353	3/4	31,439	3/4	46,480	3/4	61,562	3/4	76,649	3/4	91,736	3/4	106,823	3/4	121,910	3/4	136,991
1	1,707	1	16,667	1	31,754	1	46,793	1	61,877	1	76,963	1	92,050	1	107,137	1	122,224	1	137,305
1/4	1,991	1/4	16,981	1/4	32,068	1/4	47,106	1/4	62,191	1/4	77,278	1/4	92,365	1/4	107,452	1/4	122,539	1/4	137,619
1/2	2,275	1/2	17,296	1/2	32,382	1/2	47,420	1/2	62,505	1/2	77,592	1/2	92,679	1/2	107,766	1/2	122,853	1/2	137,933
3/4	2,560	3/4	17,610	3/4	32,696	3/4	47,733	3/4	62,819	3/4	77,906	3/4	92,993	3/4	108,080	3/4	123,167	3/4	138,247
2	2,844	2	17,924	2	33,011	2	48,047	2	63,134	2	78,221	2	93,308	2	108,395	2	123,482	2	138,562
1/4	3,157	1/4	18,239	1/4	33,325	1/4	48,361	1/4	63,448	1/4	78,535	1/4	93,622	1/4	108,709	1/4	123,796	1/4	138,876
1/2	3,470	1/2	18,553	1/2	33,639	1/2	48,675	1/2	63,762	1/2	78,849	1/2	93,936	1/2	109,023	1/2	124,110	1/2	139,190
3/4	3,783	3/4	18,867	3/4	33,954	3/4	48,990	3/4	64,077	3/4	79,164	3/4	94,251	3/4	109,338	3/4	124,424	3/4	139,504
3	4,096	3	19,181	3	34,268	3	49,304	3	64,391	3	79,478	3	94,565	3	109,652	3	124,738	3	139,818
1/4	4,410	1/4	19,496	1/4	34,582	1/4	49,618	1/4	64,705	1/4	79,792	1/4	94,879	1/4	109,966	1/4	125,053	1/4	140,132
1/2	4,724	1/2	19,810	1/2	34,896	1/2	49,933	1/2	65,020	1/2	80,107	1/2	95,194	1/2	110,280	1/2	125,367	1/2	140,446
3/4	5,038	3/4	20,124	3/4	35,210	3/4	50,247	3/4	65,334	3/4	80,421	3/4	95,508	3/4	110,595	3/4	125,681	3/4	140,761
4	5,352	4	20,439	4	35,524	4	50,561	4	65,648	4	80,735	4	95,822	4	110,909	4	125,995	4	141,075
1/4	5,667	1/4	20,753	1/4	35,837	1/4	50,876	1/4	65,963	1/4	81,049	1/4	96,136	1/4	111,223	1/4	126,309	1/4	141,389
1/2	5,981	1/2	21,067	1/2	36,150	1/2	51,190	1/2	66,277	1/2	81,364	1/2	96,451	1/2	111,538	1/2	126,623	1/2	141,703
3/4	6,295	3/4	21,382	3/4	36,463	3/4	51,504	3/4	66,591	3/4	81,678	3/4	96,765	3/4	111,852	3/4	126,938	3/4	142,017
5	6,609	5	21,696	5	36,776	5	51,819	5	66,905	5	81,992	5	97,079	5	112,166	5	127,252	5	142,331
1/4	6,924	1/4	22,010	1/4	37,089	1/4	52,133	1/4	67,220	1/4	82,307	1/4	97,394	1/4	112,481	1/4	127,566	1/4	142,646
1/2	7,238	1/2	22,324	1/2	37,402	1/2	52,447	1/2	67,534	1/2	82,621	1/2	97,708	1/2	112,795	1/2	127,880	1/2	142,960
3/4	7,552	3/4	22,639	3/4	37,715	3/4	52,761	3/4	67,848	3/4	82,935	3/4	98,022	3/4	113,109	3/4	128,194	3/4	143,274
6	7,867	6	22,953	6	38,028	6	53,076	6	68,163	6	83,250	6	98,337	6	113,424	6	128,508	6	143,588
1/4	8,181	1/4	23,267	1/4	38,341	1/4	53,390	1/4	68,477	1/4	83,564	1/4	98,651	1/4	113,738	1/4	128,823	1/4	143,902
1/2	8,495	1/2	23,582	1/2	38,654	1/2	53,704	1/2	68,791	1/2	83,878	1/2	98,965	1/2	114,052	1/2	129,137	1/2	144,216
3/4	8,809	3/4	23,896	3/4	38,967	3/4	54,019	3/4	69,106	3/4	84,193	3/4	99,280	3/4	114,366	3/4	129,451	3/4	144,531
7	9,124	7	24,210	7	39,280	7	54,333	7	69,420	7	84,507	7	99,594	7	114,681	7	129,765	7	144,845
1/4	9,438	1/4	24,525	1/4	39,593	1/4	54,647	1/4	69,734	1/4	84,821	1/4	99,908	1/4	114,995	1/4	130,079	1/4	145,159
1/2	9,752	1/2	24,839	1/2	39,906	1/2	54,962	1/2	70,049	1/2	85,136	1/2	100,222	1/2	115,309	1/2	130,393	1/2	145,473
3/4	10,067	3/4	25,153	3/4	40,219	3/4	55,276	3/4	70,363	3/4	85,450	3/4	100,537	3/4	115,624	3/4	130,708	3/4	145,787
8	10,381	8	25,467	8	40,532	8	55,590	8	70,677	8	85,764	8	100,851	8	115,938	8	131,022	8	146,101
1/4	10,695	1/4	25,782	1/4	40,845	1/4	55,905	1/4	70,992	1/4	86,078	1/4	101,165	1/4	116,252	1/4	131,336	1/4	146,416
1/2	11,010	1/2	26,096	1/2	41,158	1/2	56,219	1/2	71,306	1/2	86,393	1/2	101,480	1/2	116,567	1/2	131,650	1/2	146,730
3/4	11,324	3/4	26,410	3/4	41,471	3/4	56,533	3/4	71,620	3/4	86,707	3/4	101,794	3/4	116,881	3/4	131,964	3/4	147,044
9	11,638	9	26,725	9	41,784	9	56,848	9	71,934	9	87,021	9	102,108	9	117,195	9	132,278	9	147,358
1/4	11,952	1/4	27,039	1/4	42,097	1/4	57,162	1/4	72,249	1/4	87,336	1/4	102,423	1/4	117,510	1/4	132,592	1/4	147,672
1/2	12,267	1/2	27,353	1/2	42,410	1/2	57,476	1/2	72,563	1/2	87,650	1/2	102,737	1/2	117,824	1/2	132,907	1/2	147,986
3/4	12,581	3/4	27,668	3/4	42,723	3/4	57,790	3/4	72,877	3/4	87,964	3/4	103,051	3/4	118,138	3/4	133,221	3/4	148,300
10	12,895	10	27,982	10	43,036	10	58,105	10	73,192	10	88,279	10	103,366	10	118,453	10	133,535	10	148,615
1/4	13,210	1/4	28,296	1/4	43,349	1/4	58,419	1/4	73,506	1/4	88,593	1/4	103,680	1/4	118,767	1/4	133,849	1/4	148,929
1/2	13,524	1/2	28,611	1/2	43,662	1/2	58,733	1/2	73,820	1/2	88,907	1/2	103,994	1/2	119,081	1/2	134,163	1/2	149,243
3/4	13,838	3/4	28,925	3/4	43,975	3/4	59,048	3/4	74,135	3/4	89,222	3/4	104,309	3/4	119,395	3/4	134,477	3/4	149,557
11	14,153	11	29,239	11	44,288	11	59,362	11	74,449	11	89,536	11	104,623	11	119,710	11	134,792	11	149,871
1/4	14,467	1/4	29,553	1/4	44,601	1/4	59,676	1/4	74,763	1/4	89,850	1/4	104,937	1/4	120,024	1/4	135,106	1/4	150,185
1/2	14,781	1/2	29,868	1/2	44,914	1/2	59,991	1/2	75,078	1/2	90,165	1/2	105,251	1/2	120,338	1/2	135,420	1/2	150,500
3/4	15,095	3/4	30,182	3/4	45,227	3/4	60,305	3/4	75,392	3/4	90,479	3/4	105,566	3/4	120,653	3/4	135,734	3/4	150,814

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 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	151,128	0	166,193	0	180,651	0	194,283	0	208,756	0		0		0		0		0	
1/4	151,442	1/4	166,503	1/4	180,943	1/4	194,558	1/4	209,017	1/4		1/4		1/4		1/4		1/4	
1/2	151,756	1/2	166,813	1/2	181,234	1/2	194,833	1/2	209,277	1/2		1/2		1/2		1/2		1/2	
3/4	152,070	3/4	167,124	3/4	181,526	3/4	195,108	3/4	209,538	3/4		3/4		3/4		3/4		3/4	
1	152,385	1	167,434	1	181,818	1	195,383	1	209,799	1		1		1		1		1	
1/4	152,699	1/4	167,743	1/4	182,108	1/4	195,657	1/4	210,007	1/4		1/4		1/4		1/4		1/4	
1/2	153,013	1/2	168,052	1/2	182,398	1/2	195,930	1/2	210,215	1/2		1/2		1/2		1/2		1/2	
3/4	153,327	3/4	168,361	3/4	182,689	3/4	196,204	3/4	210,424	3/4		3/4		3/4		3/4		3/4	
2	153,641	2	168,670	2	182,979	2	196,477	2	210,632	2		2		2		2		2	
1/4	153,955	1/4	168,977	1/4	183,268	1/4	196,760	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,270	1/2	169,284	1/2	183,557	1/2	197,042	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,584	3/4	169,591	3/4	183,846	3/4	197,325	3/4		3/4		3/4		3/4		3/4		3/4	
3	154,898	3	169,898	3	184,135	3	197,607	3		3		3		3		3		3	
1/4	155,212	1/4	170,202	1/4	184,422	1/4	197,920	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,526	1/2	170,506	1/2	184,710	1/2	198,232	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,840	3/4	170,811	3/4	184,997	3/4	198,544	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,154	4	171,115	4	185,285	4	198,857	4		4		4		4		4		4	
1/4	156,469	1/4	171,418	1/4	185,571	1/4	199,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,783	1/2	171,721	1/2	185,857	1/2	199,481	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,097	3/4	172,024	3/4	186,143	3/4	199,794	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,411	5	172,327	5	186,429	5	200,106	5		5		5		5		5		5	
1/4	157,725	1/4	172,628	1/4	186,714	1/4	200,418	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,039	1/2	172,930	1/2	186,998	1/2	200,731	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,354	3/4	173,231	3/4	187,283	3/4	201,043	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,668	6	173,532	6	187,568	6	201,355	6		6		6		6		6		6	
1/4	158,982	1/4	173,833	1/4	187,851	1/4	201,668	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,296	1/2	174,133	1/2	188,135	1/2	201,980	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,610	3/4	174,433	3/4	188,418	3/4	202,292	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,924	7	174,733	7	188,701	7	202,605	7		7		7		7		7		7	
1/4	160,239	1/4	175,032	1/4	188,983	1/4	202,917	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,553	1/2	175,330	1/2	189,265	1/2	203,229	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,867	3/4	175,629	3/4	189,547	3/4	203,542	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,181	8	175,928	8	189,829	8	203,854	8		8		8		8		8		8	
1/4	161,495	1/4	176,225	1/4	190,109	1/4	204,166	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,809	1/2	176,522	1/2	190,390	1/2	204,479	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,124	3/4	176,820	3/4	190,670	3/4	204,791	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,438	9	177,117	9	190,951	9	205,103	9		9		9		9		9		9	
1/4	162,752	1/4	177,413	1/4	191,230	1/4	205,415	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,066	1/2	177,709	1/2	191,509	1/2	205,728	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,379	3/4	178,005	3/4	191,788	3/4	206,040	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,693	10	178,300	10	192,067	10	206,352	10		10		10		10		10		10	
1/4	164,006	1/4	178,595	1/4	192,345	1/4	206,661	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,320	1/2	178,889	1/2	192,623	1/2	206,969	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,633	3/4	179,184	3/4	192,900	3/4	207,278	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,946	11	179,478	11	193,178	11	207,586	11		11		11		11		11		11	
1/4	165,258	1/4	179,772	1/4	193,455	1/4	207,879	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,569	1/2	180,065	1/2	193,731	1/2	208,171	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,881	3/4	180,358	3/4	194,007	3/4	208,463	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/10/2015 CL  
CALCULATED: 09/11/2015 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

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# BARGE "CCL 414 L"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

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	842	0	15,404	0	30,485	0	45,143	0	60,041	0	75,123	0	90,204	0	105,286	0	120,367	0	135,443
1/4	1,058	1/4	16,978	1/4	30,800	1/4	45,445	1/4	60,355	1/4	75,437	1/4	90,518	1/4	105,600	1/4	120,681	1/4	135,757
1/2	1,274	1/2	16,033	1/2	31,114	1/2	45,746	1/2	60,670	1/2	75,751	1/2	90,833	1/2	105,914	1/2	120,995	1/2	136,071
3/4	1,490	3/4	16,347	3/4	31,428	3/4	46,048	3/4	60,984	3/4	76,065	3/4	91,147	3/4	106,228	3/4	121,310	3/4	136,385
1	1,706	1	16,661	1	31,742	1	46,349	1	61,298	1	76,379	1	91,461	1	106,542	1	121,624	1	136,699
1/4	1,990	1/4	16,975	1/4	32,056	1/4	46,651	1/4	61,612	1/4	76,694	1/4	91,775	1/4	106,857	1/4	121,938	1/4	137,013
1/2	2,275	1/2	17,289	1/2	32,370	1/2	46,953	1/2	61,926	1/2	77,008	1/2	92,089	1/2	107,171	1/2	122,252	1/2	137,327
3/4	2,559	3/4	17,604	3/4	32,685	3/4	47,255	3/4	62,241	3/4	77,322	3/4	92,403	3/4	107,485	3/4	122,567	3/4	137,641
2	2,843	2	17,918	2	32,999	2	47,556	2	62,555	2	77,636	2	92,718	2	107,799	2	122,881	2	137,955
1/4	3,156	1/4	18,232	1/4	33,313	1/4	47,859	1/4	62,869	1/4	77,950	1/4	93,032	1/4	108,113	1/4	123,195	1/4	138,269
1/2	3,469	1/2	18,546	1/2	33,627	1/2	48,161	1/2	63,183	1/2	78,265	1/2	93,346	1/2	108,428	1/2	123,509	1/2	138,583
3/4	3,782	3/4	18,860	3/4	33,941	3/4	48,463	3/4	63,497	3/4	78,579	3/4	93,660	3/4	108,742	3/4	123,823	3/4	138,897
3	4,095	3	19,175	3	34,256	3	48,766	3	63,811	3	78,893	3	93,974	3	109,056	3	124,137	3	139,211
1/4	4,409	1/4	19,489	1/4	34,567	1/4	49,071	1/4	64,126	1/4	79,207	1/4	94,289	1/4	109,370	1/4	124,451	1/4	139,525
1/2	4,723	1/2	19,803	1/2	34,878	1/2	49,376	1/2	64,440	1/2	79,521	1/2	94,603	1/2	109,684	1/2	124,765	1/2	139,840
3/4	5,036	3/4	20,117	3/4	35,189	3/4	49,681	3/4	64,754	3/4	79,836	3/4	94,917	3/4	109,999	3/4	125,079	3/4	140,154
4	5,350	4	20,431	4	35,500	4	49,987	4	65,068	4	80,150	4	95,231	4	110,313	4	125,393	4	140,468
1/4	5,664	1/4	20,745	1/4	35,801	1/4	50,301	1/4	65,382	1/4	80,464	1/4	95,545	1/4	110,627	1/4	125,707	1/4	140,782
1/2	5,979	1/2	21,060	1/2	36,102	1/2	50,615	1/2	65,697	1/2	80,778	1/2	95,860	1/2	110,941	1/2	126,021	1/2	141,096
3/4	6,293	3/4	21,374	3/4	36,404	3/4	50,929	3/4	66,011	3/4	81,092	3/4	96,174	3/4	111,255	3/4	126,336	3/4	141,410
5	6,607	5	21,688	5	36,705	5	51,244	5	66,325	5	81,407	5	96,488	5	111,570	5	126,650	5	141,724
1/4	6,921	1/4	22,002	1/4	37,006	1/4	51,558	1/4	66,639	1/4	81,721	1/4	96,802	1/4	111,884	1/4	126,964	1/4	142,038
1/2	7,235	1/2	22,316	1/2	37,308	1/2	51,872	1/2	66,953	1/2	82,035	1/2	97,116	1/2	112,198	1/2	127,278	1/2	142,352
3/4	7,550	3/4	22,631	3/4	37,609	3/4	52,186	3/4	67,268	3/4	82,349	3/4	97,431	3/4	112,512	3/4	127,592	3/4	142,666
6	7,864	6	22,945	6	37,910	6	52,500	6	67,582	6	82,663	6	97,745	6	112,826	6	127,906	6	142,980
1/4	8,178	1/4	23,259	1/4	38,212	1/4	52,815	1/4	67,896	1/4	82,978	1/4	98,059	1/4	113,141	1/4	128,220	1/4	143,294
1/2	8,492	1/2	23,573	1/2	38,513	1/2	53,129	1/2	68,210	1/2	83,292	1/2	98,373	1/2	113,455	1/2	128,534	1/2	143,608
3/4	8,806	3/4	23,887	3/4	38,814	3/4	53,443	3/4	68,524	3/4	83,606	3/4	98,687	3/4	113,769	3/4	128,848	3/4	143,922
7	9,120	7	24,202	7	39,116	7	53,757	7	68,839	7	83,920	7	99,002	7	114,083	7	129,162	7	144,236
1/4	9,435	1/4	24,516	1/4	39,417	1/4	54,071	1/4	69,153	1/4	84,234	1/4	99,316	1/4	114,397	1/4	129,476	1/4	144,550
1/2	9,749	1/2	24,830	1/2	39,719	1/2	54,386	1/2	69,467	1/2	84,549	1/2	99,630	1/2	114,712	1/2	129,790	1/2	144,864
3/4	10,063	3/4	25,144	3/4	40,020	3/4	54,700	3/4	69,781	3/4	84,863	3/4	99,944	3/4	115,026	3/4	130,104	3/4	145,178
8	10,377	8	25,458	8	40,321	8	55,014	8	70,095	8	85,177	8	100,258	8	115,340	8	130,418	8	145,492
1/4	10,691	1/4	25,772	1/4	40,623	1/4	55,328	1/4	70,410	1/4	85,491	1/4	100,573	1/4	115,654	1/4	130,732	1/4	145,806
1/2	11,006	1/2	26,087	1/2	40,924	1/2	55,642	1/2	70,724	1/2	85,805	1/2	100,887	1/2	115,968	1/2	131,046	1/2	146,120
3/4	11,320	3/4	26,401	3/4	41,225	3/4	55,957	3/4	71,038	3/4	86,120	3/4	101,201	3/4	116,283	3/4	131,360	3/4	146,434
9	11,634	9	26,715	9	41,527	9	56,271	9	71,352	9	86,434	9	101,515	9	116,597	9	131,674	9	146,749
1/4	11,948	1/4	27,029	1/4	41,828	1/4	56,585	1/4	71,666	1/4	86,748	1/4	101,829	1/4	116,911	1/4	131,988	1/4	147,063
1/2	12,262	1/2	27,343	1/2	42,129	1/2	56,899	1/2	71,981	1/2	87,062	1/2	102,144	1/2	117,225	1/2	132,302	1/2	147,377
3/4	12,577	3/4	27,658	3/4	42,431	3/4	57,213	3/4	72,295	3/4	87,376	3/4	102,458	3/4	117,539	3/4	132,616	3/4	147,691
10	12,891	10	27,972	10	42,732	10	57,528	10	72,609	10	87,691	10	102,772	10	117,854	10	132,930	10	148,005
1/4	13,205	1/4	28,286	1/4	43,033	1/4	57,842	1/4	72,923	1/4	88,005	1/4	103,086	1/4	118,168	1/4	133,245	1/4	148,319
1/2	13,519	1/2	28,600	1/2	43,335	1/2	58,156	1/2	73,237	1/2	88,319	1/2	103,400	1/2	118,482	1/2	133,559	1/2	148,633
3/4	13,833	3/4	28,914	3/4	43,636	3/4	58,470	3/4	73,552	3/4	88,633	3/4	103,715	3/4	118,796	3/4	133,873	3/4	148,947
11	14,147	11	29,229	11	43,937	11	58,784	11	73,866	11	88,947	11	104,029	11	119,110	11	134,187	11	149,261
1/4	14,462	1/4	29,543	1/4	44,239	1/4	59,099	1/4	74,180	1/4	89,262	1/4	104,343	1/4	119,425	1/4	134,501	1/4	149,575
1/2	14,776	1/2	29,857	1/2	44,540	1/2	59,413	1/2	74,494	1/2	89,576	1/2	104,657	1/2	119,739	1/2	134,815	1/2	149,889
3/4	15,090	3/4	30,171	3/4	44,842	3/4	59,727	3/4	74,808	3/4	89,890	3/4	104,971	3/4	120,053	3/4	135,129	3/4	150,203

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

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	150,517	0	165,576	0	180,029	0	193,656	0	208,123	0		0		0		0		0	
1/4	150,831	1/4	165,887	1/4	180,321	1/4	193,931	1/4	208,383	1/4		1/4		1/4		1/4		1/4	
1/2	151,145	1/2	166,197	1/2	180,612	1/2	194,206	1/2	208,644	1/2		1/2		1/2		1/2		1/2	
3/4	151,459	3/4	166,507	3/4	180,904	3/4	194,481	3/4	208,905	3/4		3/4		3/4		3/4		3/4	
1	151,773	1	166,817	1	181,196	1	194,756	1	209,165	1		1		1		1		1	
1/4	152,087	1/4	167,126	1/4	181,486	1/4	195,029	1/4	209,373	1/4		1/4		1/4		1/4		1/4	
1/2	152,401	1/2	167,435	1/2	181,776	1/2	195,302	1/2	209,582	1/2		1/2		1/2		1/2		1/2	
3/4	152,715	3/4	167,744	3/4	182,066	3/4	195,576	3/4	209,790	3/4		3/4		3/4		3/4		3/4	
2	153,029	2	168,052	2	182,356	2	195,849	2	209,998	2		2		2		2		2	
1/4	153,344	1/4	168,359	1/4	182,645	1/4	196,132	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,658	1/2	168,666	1/2	182,934	1/2	196,414	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,972	3/4	168,973	3/4	183,223	3/4	196,696	3/4		3/4		3/4		3/4		3/4		3/4	
3	154,286	3	169,280	3	183,511	3	196,979	3		3		3		3		3		3	
1/4	154,600	1/4	169,584	1/4	183,799	1/4	197,291	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,914	1/2	169,888	1/2	184,086	1/2	197,603	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,228	3/4	170,193	3/4	184,374	3/4	197,915	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,542	4	170,497	4	184,661	4	198,228	4		4		4		4		4		4	
1/4	155,856	1/4	170,800	1/4	184,947	1/4	198,540	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,170	1/2	171,102	1/2	185,233	1/2	198,852	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,484	3/4	171,405	3/4	185,519	3/4	199,164	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,798	5	171,708	5	185,805	5	199,476	5		5		5		5		5		5	
1/4	157,112	1/4	172,009	1/4	186,090	1/4	199,789	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,426	1/2	172,311	1/2	186,374	1/2	200,101	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,740	3/4	172,612	3/4	186,659	3/4	200,413	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,054	6	172,913	6	186,943	6	200,725	6		6		6		6		6		6	
1/4	158,368	1/4	173,213	1/4	187,227	1/4	201,038	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,682	1/2	173,513	1/2	187,510	1/2	201,350	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,996	3/4	173,813	3/4	187,793	3/4	201,662	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,310	7	174,113	7	188,076	7	201,974	7		7		7		7		7		7	
1/4	159,624	1/4	174,412	1/4	188,358	1/4	202,286	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,938	1/2	174,711	1/2	188,640	1/2	202,599	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,253	3/4	175,009	3/4	188,922	3/4	202,911	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,567	8	175,308	8	189,203	8	203,223	8		8		8		8		8		8	
1/4	160,881	1/4	175,605	1/4	189,484	1/4	203,535	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,195	1/2	175,902	1/2	189,764	1/2	203,847	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,509	3/4	176,199	3/4	190,045	3/4	204,160	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,823	9	176,496	9	190,325	9	204,472	9		9		9		9		9		9	
1/4	162,137	1/4	176,792	1/4	190,604	1/4	204,784	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,450	1/2	177,088	1/2	190,883	1/2	205,096	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,764	3/4	177,384	3/4	191,162	3/4	205,408	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,078	10	177,680	10	191,441	10	205,720	10		10		10		10		10		10	
1/4	163,391	1/4	177,974	1/4	191,719	1/4	206,028	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,704	1/2	178,268	1/2	191,996	1/2	206,337	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,017	3/4	178,563	3/4	192,274	3/4	206,645	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,330	11	178,857	11	192,552	11	206,954	11		11		11		11		11		11	
1/4	164,642	1/4	179,150	1/4	192,828	1/4	207,246	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,953	1/2	179,443	1/2	193,104	1/2	207,538	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,265	3/4	179,736	3/4	193,380	3/4	207,830	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/10/2015 CL  
CALCULATED: 09/11/2015 CL  
PRINTED: 09/11/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "CCL 414 L"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

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	772	0	13,045	0	27,744	0	42,737	0	57,765	0	72,801	0	87,837	0	102,873	0	117,909	0	132,938
1/4	920	1/4	13,335	1/4	28,058	1/4	43,049	1/4	58,078	1/4	73,114	1/4	88,150	1/4	103,186	1/4	118,222	1/4	133,252
1/2	1,068	1/2	13,625	1/2	28,371	1/2	43,361	1/2	58,392	1/2	73,428	1/2	88,463	1/2	103,499	1/2	118,535	1/2	133,565
3/4	1,217	3/4	13,916	3/4	28,684	3/4	43,673	3/4	58,705	3/4	73,741	3/4	88,777	3/4	103,813	3/4	118,849	3/4	133,878
1	1,365	1	14,206	1	28,997	1	43,985	1	59,018	1	74,054	1	89,090	1	104,126	1	119,162	1	134,191
1/4	1,585	1/4	14,500	1/4	29,311	1/4	44,298	1/4	59,331	1/4	74,367	1/4	89,403	1/4	104,439	1/4	119,475	1/4	134,504
1/2	1,806	1/2	14,794	1/2	29,624	1/2	44,610	1/2	59,645	1/2	74,681	1/2	89,716	1/2	104,752	1/2	119,788	1/2	134,817
3/4	2,026	3/4	15,088	3/4	29,937	3/4	44,923	3/4	59,958	3/4	74,994	3/4	90,030	3/4	105,066	3/4	120,101	3/4	135,130
2	2,246	2	15,382	2	30,250	2	45,235	2	60,271	2	75,307	2	90,343	2	105,379	2	120,415	2	135,443
1/4	2,498	1/4	15,679	1/4	30,564	1/4	45,548	1/4	60,584	1/4	75,620	1/4	90,656	1/4	105,692	1/4	120,728	1/4	135,756
1/2	2,751	1/2	15,977	1/2	30,877	1/2	45,862	1/2	60,898	1/2	75,934	1/2	90,969	1/2	106,005	1/2	121,041	1/2	136,069
3/4	3,003	3/4	16,275	3/4	31,190	3/4	46,175	3/4	61,211	3/4	76,247	3/4	91,283	3/4	106,319	3/4	121,354	3/4	136,382
3	3,255	3	16,572	3	31,503	3	46,488	3	61,524	3	76,560	3	91,596	3	106,632	3	121,667	3	136,696
1/4	3,512	1/4	16,874	1/4	31,816	1/4	46,801	1/4	61,837	1/4	76,873	1/4	91,909	1/4	106,945	1/4	121,980	1/4	137,009
1/2	3,769	1/2	17,175	1/2	32,129	1/2	47,115	1/2	62,151	1/2	77,187	1/2	92,222	1/2	107,258	1/2	122,293	1/2	137,322
3/4	4,026	3/4	17,476	3/4	32,442	3/4	47,428	3/4	62,464	3/4	77,500	3/4	92,536	3/4	107,572	3/4	122,606	3/4	137,635
4	4,283	4	17,778	4	32,755	4	47,741	4	62,777	4	77,813	4	92,849	4	107,885	4	122,919	4	137,948
1/4	4,544	1/4	18,083	1/4	33,067	1/4	48,054	1/4	63,090	1/4	78,126	1/4	93,162	1/4	108,198	1/4	123,233	1/4	138,261
1/2	4,805	1/2	18,388	1/2	33,379	1/2	48,368	1/2	63,404	1/2	78,440	1/2	93,475	1/2	108,511	1/2	123,546	1/2	138,574
3/4	5,066	3/4	18,693	3/4	33,691	3/4	48,681	3/4	63,717	3/4	78,753	3/4	93,789	3/4	108,825	3/4	123,859	3/4	138,887
5	5,327	5	18,998	5	34,003	5	48,994	5	64,030	5	79,066	5	94,102	5	109,138	5	124,172	5	139,200
1/4	5,591	1/4	19,306	1/4	34,315	1/4	49,307	1/4	64,343	1/4	79,379	1/4	94,415	1/4	109,451	1/4	124,485	1/4	139,513
1/2	5,856	1/2	19,615	1/2	34,627	1/2	49,621	1/2	64,657	1/2	79,693	1/2	94,728	1/2	109,764	1/2	124,798	1/2	139,826
3/4	6,121	3/4	19,924	3/4	34,938	3/4	49,934	3/4	64,970	3/4	80,006	3/4	95,042	3/4	110,078	3/4	125,111	3/4	140,140
6	6,385	6	20,232	6	35,250	6	50,247	6	65,283	6	80,319	6	95,355	6	110,391	6	125,424	6	140,453
1/4	6,654	1/4	20,544	1/4	35,562	1/4	50,560	1/4	65,596	1/4	80,632	1/4	95,668	1/4	110,704	1/4	125,737	1/4	140,766
1/2	6,922	1/2	20,856	1/2	35,874	1/2	50,874	1/2	65,910	1/2	80,946	1/2	95,981	1/2	111,017	1/2	126,050	1/2	141,079
3/4	7,190	3/4	21,168	3/4	36,186	3/4	51,187	3/4	66,223	3/4	81,259	3/4	96,295	3/4	111,331	3/4	126,363	3/4	141,392
7	7,459	7	21,480	7	36,498	7	51,500	7	66,536	7	81,572	7	96,608	7	111,644	7	126,677	7	141,705
1/4	7,731	1/4	21,793	1/4	36,810	1/4	51,813	1/4	66,849	1/4	81,885	1/4	96,921	1/4	111,957	1/4	126,990	1/4	142,018
1/2	8,002	1/2	22,106	1/2	37,122	1/2	52,127	1/2	67,163	1/2	82,199	1/2	97,234	1/2	112,270	1/2	127,303	1/2	142,331
3/4	8,274	3/4	22,419	3/4	37,434	3/4	52,440	3/4	67,476	3/4	82,512	3/4	97,548	3/4	112,584	3/4	127,616	3/4	142,644
8	8,546	8	22,733	8	37,746	8	52,753	8	67,789	8	82,825	8	97,861	8	112,897	8	127,929	8	142,957
1/4	8,822	1/4	23,046	1/4	38,058	1/4	53,066	1/4	68,102	1/4	83,138	1/4	98,174	1/4	113,210	1/4	128,242	1/4	143,271
1/2	9,098	1/2	23,359	1/2	38,370	1/2	53,380	1/2	68,416	1/2	83,452	1/2	98,487	1/2	113,523	1/2	128,555	1/2	143,584
3/4	9,373	3/4	23,672	3/4	38,682	3/4	53,693	3/4	68,729	3/4	83,765	3/4	98,801	3/4	113,837	3/4	128,868	3/4	143,897
9	9,649	9	23,986	9	38,994	9	54,006	9	69,042	9	84,078	9	99,114	9	114,150	9	129,181	9	144,210
1/4	9,928	1/4	24,299	1/4	39,305	1/4	54,319	1/4	69,355	1/4	84,391	1/4	99,427	1/4	114,463	1/4	129,494	1/4	144,523
1/2	10,208	1/2	24,612	1/2	39,617	1/2	54,633	1/2	69,669	1/2	84,705	1/2	99,740	1/2	114,776	1/2	129,807	1/2	144,836
3/4	10,487	3/4	24,925	3/4	39,929	3/4	54,946	3/4	69,982	3/4	85,018	3/4	100,054	3/4	115,090	3/4	130,121	3/4	145,149
10	10,766	10	25,239	10	40,241	10	55,259	10	70,295	10	85,331	10	100,367	10	115,403	10	130,434	10	145,462
1/4	11,049	1/4	25,552	1/4	40,553	1/4	55,572	1/4	70,608	1/4	85,644	1/4	100,680	1/4	115,716	1/4	130,747	1/4	145,775
1/2	11,332	1/2	25,865	1/2	40,865	1/2	55,886	1/2	70,922	1/2	85,958	1/2	100,993	1/2	116,029	1/2	131,060	1/2	146,088
3/4	11,615	3/4	26,178	3/4	41,177	3/4	56,199	3/4	71,235	3/4	86,271	3/4	101,307	3/4	116,343	3/4	131,373	3/4	146,401
11	11,898	11	26,491	11	41,489	11	56,512	11	71,548	11	86,584	11	101,620	11	116,656	11	131,686	11	146,715
1/4	12,185	1/4	26,805	1/4	41,801	1/4	56,825	1/4	71,861	1/4	86,897	1/4	101,933	1/4	116,969	1/4	131,999	1/4	147,028
1/2	12,471	1/2	27,118	1/2	42,113	1/2	57,139	1/2	72,175	1/2	87,210	1/2	102,246	1/2	117,282	1/2	132,312	1/2	147,341
3/4	12,758	3/4	27,431	3/4	42,425	3/4	57,452	3/4	72,488	3/4	87,524	3/4	102,560	3/4	117,596	3/4	132,625	3/4	147,654

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

**1 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

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	147,967	0	162,981	0	177,389	0	190,975	0	205,397	0		0		0		0		0	
1/4	148,280	1/4	163,290	1/4	177,680	1/4	191,249	1/4	205,657	1/4		1/4		1/4		1/4		1/4	
1/2	148,593	1/2	163,599	1/2	177,971	1/2	191,523	1/2	205,917	1/2		1/2		1/2		1/2		1/2	
3/4	148,906	3/4	163,909	3/4	178,262	3/4	191,797	3/4	206,176	3/4		3/4		3/4		3/4		3/4	
1	149,219	1	164,218	1	178,552	1	192,071	1	206,436	1		1		1		1		1	
1/4	149,532	1/4	164,526	1/4	178,842	1/4	192,343	1/4	206,644	1/4		1/4		1/4		1/4		1/4	
1/2	149,845	1/2	164,833	1/2	179,131	1/2	192,616	1/2	206,851	1/2		1/2		1/2		1/2		1/2	
3/4	150,159	3/4	165,141	3/4	179,420	3/4	192,889	3/4	207,059	3/4		3/4		3/4		3/4		3/4	
2	150,472	2	165,449	2	179,710	2	193,161	2	207,267	2		2		2		2		2	
1/4	150,785	1/4	165,755	1/4	179,997	1/4	193,443	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,098	1/2	166,061	1/2	180,285	1/2	193,724	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,411	3/4	166,367	3/4	180,573	3/4	194,006	3/4		3/4		3/4		3/4		3/4		3/4	
3	151,724	3	166,673	3	180,861	3	194,287	3		3		3		3		3		3	
1/4	152,037	1/4	166,977	1/4	181,148	1/4	194,598	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,350	1/2	167,280	1/2	181,434	1/2	194,910	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,663	3/4	167,583	3/4	181,721	3/4	195,221	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,976	4	167,886	4	182,007	4	195,532	4		4		4		4		4		4	
1/4	153,289	1/4	168,188	1/4	182,292	1/4	195,843	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,603	1/2	168,490	1/2	182,577	1/2	196,155	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,916	3/4	168,792	3/4	182,863	3/4	196,466	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,229	5	169,094	5	183,148	5	196,777	5		5		5		5		5		5	
1/4	154,542	1/4	169,394	1/4	183,431	1/4	197,089	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,855	1/2	169,695	1/2	183,715	1/2	197,400	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,168	3/4	169,995	3/4	183,999	3/4	197,711	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,481	6	170,296	6	184,283	6	198,022	6		6		6		6		6		6	
1/4	155,794	1/4	170,595	1/4	184,565	1/4	198,334	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,107	1/2	170,894	1/2	184,847	1/2	198,645	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,420	3/4	171,193	3/4	185,130	3/4	198,956	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,734	7	171,492	7	185,412	7	199,267	7		7		7		7		7		7	
1/4	157,047	1/4	171,789	1/4	185,693	1/4	199,579	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,360	1/2	172,087	1/2	185,974	1/2	199,890	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,673	3/4	172,385	3/4	186,255	3/4	200,201	3/4		3/4		3/4		3/4		3/4		3/4	
8	157,986	8	172,683	8	186,536	8	200,513	8		8		8		8		8		8	
1/4	158,299	1/4	172,979	1/4	186,815	1/4	200,824	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,612	1/2	173,275	1/2	187,095	1/2	201,135	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,925	3/4	173,571	3/4	187,374	3/4	201,446	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,238	9	173,868	9	187,654	9	201,757	9		9		9		9		9		9	
1/4	159,551	1/4	174,162	1/4	187,932	1/4	202,069	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,864	1/2	174,457	1/2	188,210	1/2	202,380	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,177	3/4	174,752	3/4	188,488	3/4	202,691	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,490	10	175,047	10	188,766	10	203,002	10		10		10		10		10		10	
1/4	160,802	1/4	175,341	1/4	189,043	1/4	203,309	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,114	1/2	175,634	1/2	189,320	1/2	203,617	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,426	3/4	175,928	3/4	189,597	3/4	203,924	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,738	11	176,221	11	189,873	11	204,232	11		11		11		11		11		11	
1/4	162,049	1/4	176,513	1/4	190,149	1/4	204,523	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,359	1/2	176,805	1/2	190,424	1/2	204,814	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,670	3/4	177,097	3/4	190,700	3/4	205,106	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/10/2015 CL  
CALCULATED: 09/11/2015 CL  
PRINTED: 09/11/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "CCL 414 L"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07"

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	772	0	13,058	0	27,770	0	42,740	0	57,762	0	72,811	0	87,859	0	102,908	0	117,957	0	132,999
1/4	921	1/4	13,348	1/4	28,084	1/4	43,051	1/4	58,075	1/4	73,124	1/4	88,173	1/4	103,221	1/4	118,270	1/4	133,312
1/2	1,070	1/2	13,639	1/2	28,397	1/2	43,363	1/2	58,389	1/2	73,438	1/2	88,486	1/2	103,535	1/2	118,584	1/2	133,626
3/4	1,218	3/4	13,929	3/4	28,711	3/4	43,674	3/4	58,703	3/4	73,751	3/4	88,800	3/4	103,848	3/4	118,897	3/4	133,939
1	1,367	1	14,220	1	29,024	1	43,985	1	59,016	1	74,065	1	89,113	1	104,162	1	119,211	1	134,252
1/4	1,587	1/4	14,514	1/4	29,338	1/4	44,297	1/4	59,330	1/4	74,378	1/4	89,427	1/4	104,475	1/4	119,524	1/4	134,566
1/2	1,807	1/2	14,808	1/2	29,651	1/2	44,608	1/2	59,643	1/2	74,692	1/2	89,740	1/2	104,789	1/2	119,838	1/2	134,879
3/4	2,028	3/4	15,103	3/4	29,965	3/4	44,920	3/4	59,957	3/4	75,005	3/4	90,054	3/4	105,102	3/4	120,151	3/4	135,193
2	2,248	2	15,397	2	30,278	2	45,231	2	60,270	2	75,319	2	90,367	2	105,416	2	120,465	2	135,506
1/4	2,501	1/4	15,695	1/4	30,592	1/4	45,544	1/4	60,584	1/4	75,632	1/4	90,681	1/4	105,730	1/4	120,778	1/4	135,819
1/2	2,754	1/2	15,993	1/2	30,905	1/2	45,856	1/2	60,897	1/2	75,946	1/2	90,994	1/2	106,043	1/2	121,091	1/2	136,133
3/4	3,006	3/4	16,291	3/4	31,219	3/4	46,168	3/4	61,211	3/4	76,259	3/4	91,308	3/4	106,357	3/4	121,405	3/4	136,446
3	3,259	3	16,589	3	31,532	3	46,480	3	61,524	3	76,573	3	91,621	3	106,670	3	121,718	3	136,759
1/4	3,516	1/4	16,890	1/4	31,845	1/4	46,792	1/4	61,838	1/4	76,886	1/4	91,935	1/4	106,984	1/4	122,032	1/4	137,073
1/2	3,773	1/2	17,192	1/2	32,158	1/2	47,105	1/2	62,151	1/2	77,200	1/2	92,248	1/2	107,297	1/2	122,345	1/2	137,386
3/4	4,030	3/4	17,493	3/4	32,471	3/4	47,417	3/4	62,465	3/4	77,513	3/4	92,562	3/4	107,611	3/4	122,658	3/4	137,699
4	4,288	4	17,795	4	32,784	4	47,730	4	62,778	4	77,827	4	92,875	4	107,924	4	122,972	4	138,013
1/4	4,549	1/4	18,100	1/4	33,095	1/4	48,043	1/4	63,092	1/4	78,140	1/4	93,189	1/4	108,238	1/4	123,285	1/4	138,326
1/2	4,810	1/2	18,405	1/2	33,406	1/2	48,357	1/2	63,405	1/2	78,454	1/2	93,502	1/2	108,551	1/2	123,598	1/2	138,639
3/4	5,071	3/4	18,711	3/4	33,717	3/4	48,670	3/4	63,719	3/4	78,767	3/4	93,816	3/4	108,865	3/4	123,912	3/4	138,953
5	5,332	5	19,016	5	34,028	5	48,984	5	64,032	5	79,081	5	94,130	5	109,178	5	124,225	5	139,266
1/4	5,597	1/4	19,325	1/4	34,339	1/4	49,297	1/4	64,346	1/4	79,394	1/4	94,443	1/4	109,492	1/4	124,538	1/4	139,580
1/2	5,862	1/2	19,634	1/2	34,651	1/2	49,611	1/2	64,659	1/2	79,708	1/2	94,757	1/2	109,805	1/2	124,852	1/2	139,893
3/4	6,127	3/4	19,943	3/4	34,962	3/4	49,924	3/4	64,973	3/4	80,021	3/4	95,070	3/4	110,119	3/4	125,165	3/4	140,206
6	6,392	6	20,252	6	35,273	6	50,238	6	65,286	6	80,335	6	95,384	6	110,432	6	125,478	6	140,520
1/4	6,661	1/4	20,564	1/4	35,584	1/4	50,551	1/4	65,600	1/4	80,648	1/4	95,697	1/4	110,746	1/4	125,792	1/4	140,833
1/2	6,929	1/2	20,876	1/2	35,895	1/2	50,865	1/2	65,913	1/2	80,962	1/2	96,011	1/2	111,059	1/2	126,105	1/2	141,146
3/4	7,198	3/4	21,188	3/4	36,206	3/4	51,178	3/4	66,227	3/4	81,275	3/4	96,324	3/4	111,373	3/4	126,419	3/4	141,460
7	7,466	7	21,500	7	36,517	7	51,492	7	66,540	7	81,589	7	96,638	7	111,686	7	126,732	7	141,773
1/4	7,738	1/4	21,814	1/4	36,828	1/4	51,805	1/4	66,854	1/4	81,902	1/4	96,951	1/4	112,000	1/4	127,045	1/4	142,086
1/2	8,011	1/2	22,127	1/2	37,140	1/2	52,119	1/2	67,167	1/2	82,216	1/2	97,265	1/2	112,313	1/2	127,359	1/2	142,400
3/4	8,283	3/4	22,441	3/4	37,451	3/4	52,432	3/4	67,481	3/4	82,530	3/4	97,578	3/4	112,627	3/4	127,672	3/4	142,713
8	8,555	8	22,754	8	37,762	8	52,746	8	67,794	8	82,843	8	97,892	8	112,940	8	127,985	8	143,026
1/4	8,831	1/4	23,068	1/4	38,073	1/4	53,059	1/4	68,108	1/4	83,157	1/4	98,205	1/4	113,254	1/4	128,299	1/4	143,340
1/2	9,107	1/2	23,381	1/2	38,384	1/2	53,373	1/2	68,421	1/2	83,470	1/2	98,519	1/2	113,567	1/2	128,612	1/2	143,653
3/4	9,383	3/4	23,695	3/4	38,695	3/4	53,686	3/4	68,735	3/4	83,784	3/4	98,832	3/4	113,881	3/4	128,925	3/4	143,967
9	9,659	9	24,008	9	39,006	9	54,000	9	69,048	9	84,097	9	99,146	9	114,194	9	129,239	9	144,280
1/4	9,938	1/4	24,322	1/4	39,317	1/4	54,313	1/4	69,362	1/4	84,411	1/4	99,459	1/4	114,508	1/4	129,552	1/4	144,593
1/2	10,218	1/2	24,635	1/2	39,629	1/2	54,627	1/2	69,675	1/2	84,724	1/2	99,773	1/2	114,821	1/2	129,865	1/2	144,907
3/4	10,497	3/4	24,949	3/4	39,940	3/4	54,940	3/4	69,989	3/4	85,038	3/4	100,086	3/4	115,135	3/4	130,179	3/4	145,220
10	10,777	10	25,262	10	40,251	10	55,254	10	70,303	10	85,351	10	100,400	10	115,448	10	130,492	10	145,533
1/4	11,060	1/4	25,576	1/4	40,562	1/4	55,567	1/4	70,616	1/4	85,665	1/4	100,713	1/4	115,762	1/4	130,806	1/4	145,847
1/2	11,344	1/2	25,889	1/2	40,873	1/2	55,881	1/2	70,930	1/2	85,978	1/2	101,027	1/2	116,075	1/2	131,119	1/2	146,160
3/4	11,627	3/4	26,203	3/4	41,184	3/4	56,194	3/4	71,243	3/4	86,292	3/4	101,340	3/4	116,389	3/4	131,432	3/4	146,473
11	11,910	11	26,516	11	41,495	11	56,508	11	71,557	11	86,605	11	101,654	11	116,702	11	131,746	11	146,787
1/4	12,197	1/4	26,830	1/4	41,806	1/4	56,821	1/4	71,870	1/4	86,919	1/4	101,967	1/4	117,016	1/4	132,059	1/4	147,100
1/2	12,484	1/2	27,143	1/2	42,118	1/2	57,135	1/2	72,184	1/2	87,232	1/2	102,281	1/2	117,329	1/2	132,372	1/2	147,413
3/4	12,771	3/4	27,457	3/4	42,429	3/4	57,448	3/4	72,497	3/4	87,546	3/4	102,594	3/4	117,643	3/4	132,686	3/4	147,727

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07"

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	148,040	0	163,067	0	177,488	0	191,087	0	205,522	0		0		0		0		0	
1/4	148,354	1/4	163,376	1/4	177,779	1/4	191,361	1/4	205,782	1/4		1/4		1/4		1/4		1/4	
1/2	148,667	1/2	163,686	1/2	178,070	1/2	191,635	1/2	206,042	1/2		1/2		1/2		1/2		1/2	
3/4	148,980	3/4	163,995	3/4	178,361	3/4	191,909	3/4	206,302	3/4		3/4		3/4		3/4		3/4	
1	149,294	1	164,305	1	178,652	1	192,184	1	206,562	1		1		1		1		1	
1/4	149,607	1/4	164,613	1/4	178,942	1/4	192,456	1/4	206,770	1/4		1/4		1/4		1/4		1/4	
1/2	149,920	1/2	164,921	1/2	179,231	1/2	192,729	1/2	206,978	1/2		1/2		1/2		1/2		1/2	
3/4	150,234	3/4	165,229	3/4	179,521	3/4	193,002	3/4	207,185	3/4		3/4		3/4		3/4		3/4	
2	150,547	2	165,537	2	179,811	2	193,275	2	207,393	2		2		2		2		2	
1/4	150,860	1/4	165,844	1/4	180,099	1/4	193,557	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,174	1/2	166,150	1/2	180,387	1/2	193,838	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,487	3/4	166,456	3/4	180,675	3/4	194,120	3/4		3/4		3/4		3/4		3/4		3/4	
3	151,801	3	166,763	3	180,963	3	194,402	3		3		3		3		3		3	
1/4	152,114	1/4	167,066	1/4	181,250	1/4	194,713	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,427	1/2	167,370	1/2	181,537	1/2	195,025	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,741	3/4	167,673	3/4	181,824	3/4	195,337	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,054	4	167,977	4	182,110	4	195,648	4		4		4		4		4		4	
1/4	153,367	1/4	168,279	1/4	182,396	1/4	195,960	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,681	1/2	168,581	1/2	182,681	1/2	196,271	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,994	3/4	168,883	3/4	182,967	3/4	196,583	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,307	5	169,185	5	183,252	5	196,894	5		5		5		5		5		5	
1/4	154,621	1/4	169,486	1/4	183,536	1/4	197,206	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,934	1/2	169,787	1/2	183,820	1/2	197,517	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,247	3/4	170,087	3/4	184,104	3/4	197,829	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,561	6	170,388	6	184,388	6	198,140	6		6		6		6		6		6	
1/4	155,874	1/4	170,687	1/4	184,670	1/4	198,452	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,188	1/2	170,987	1/2	184,953	1/2	198,763	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,501	3/4	171,286	3/4	185,236	3/4	199,075	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,814	7	171,585	7	185,518	7	199,387	7		7		7		7		7		7	
1/4	157,128	1/4	171,883	1/4	185,799	1/4	199,698	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,441	1/2	172,181	1/2	186,081	1/2	200,010	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,754	3/4	172,479	3/4	186,362	3/4	200,321	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,068	8	172,777	8	186,643	8	200,633	8		8		8		8		8		8	
1/4	158,381	1/4	173,074	1/4	186,923	1/4	200,944	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,694	1/2	173,370	1/2	187,203	1/2	201,256	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,008	3/4	173,667	3/4	187,483	3/4	201,567	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,321	9	173,963	9	187,762	9	201,879	9		9		9		9		9		9	
1/4	159,634	1/4	174,258	1/4	188,041	1/4	202,190	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,948	1/2	174,554	1/2	188,319	1/2	202,502	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,261	3/4	174,849	3/4	188,598	3/4	202,813	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,574	10	175,144	10	188,876	10	203,124	10		10		10		10		10		10	
1/4	160,886	1/4	175,438	1/4	189,153	1/4	203,432	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,199	1/2	175,731	1/2	189,430	1/2	203,740	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,511	3/4	176,025	3/4	189,707	3/4	204,048	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,823	11	176,319	11	189,984	11	204,356	11		11		11		11		11		11	
1/4	162,134	1/4	176,611	1/4	190,260	1/4	204,647	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,445	1/2	176,904	1/2	190,535	1/2	204,939	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,756	3/4	177,196	3/4	190,811	3/4	205,230	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/10/2015 CL  
CALCULATED: 09/11/2015 CL  
PRINTED: 09/11/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "CCL 414 L"

## SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-10 1/2"

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	0	0	2,280	0	4,560	0	6,782	0	8,882	0		0		0		0		0	
1/4	48	1/4	2,328	1/4	4,608	1/4	6,827	1/4	8,925	1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	2,375	1/2	4,655	1/2	6,872	1/2	8,967	1/2		1/2		1/2		1/2		1/2	
3/4	143	3/4	2,423	3/4	4,703	3/4	6,917	3/4	9,009	3/4		3/4		3/4		3/4		3/4	
1	190	1	2,470	1	4,750	1	6,962	1	9,052	1		1		1		1		1	
1/4	238	1/4	2,518	1/4	4,797	1/4	7,007	1/4	9,094	1/4		1/4		1/4		1/4		1/4	
1/2	285	1/2	2,565	1/2	4,845	1/2	7,051	1/2	9,136	1/2		1/2		1/2		1/2		1/2	
3/4	333	3/4	2,613	3/4	4,892	3/4	7,096	3/4	9,178	3/4		3/4		3/4		3/4		3/4	
2	380	2	2,660	2	4,939	2	7,141	2	9,221	2		2		2		2		2	
1/4	428	1/4	2,708	1/4	4,986	1/4	7,185	1/4	9,262	1/4		1/4		1/4		1/4		1/4	
1/2	475	1/2	2,755	1/2	5,033	1/2	7,230	1/2	9,304	1/2		1/2		1/2		1/2		1/2	
3/4	523	3/4	2,803	3/4	5,080	3/4	7,274	3/4	9,346	3/4		3/4		3/4		3/4		3/4	
3	570	3	2,850	3	5,127	3	7,319	3	9,388	3		3		3		3		3	
1/4	618	1/4	2,898	1/4	5,174	1/4	7,363	1/4	9,430	1/4		1/4		1/4		1/4		1/4	
1/2	665	1/2	2,945	1/2	5,221	1/2	7,407	1/2	9,472	1/2		1/2		1/2		1/2		1/2	
3/4	713	3/4	2,993	3/4	5,268	3/4	7,452	3/4	9,514	3/4		3/4		3/4		3/4		3/4	
4	760	4	3,040	4	5,315	4	7,496	4	9,555	4		4		4		4		4	
1/4	808	1/4	3,088	1/4	5,361	1/4	7,540	1/4	9,595	1/4		1/4		1/4		1/4		1/4	
1/2	855	1/2	3,135	1/2	5,408	1/2	7,584	1/2	9,635	1/2		1/2		1/2		1/2		1/2	
3/4	903	3/4	3,183	3/4	5,454	3/4	7,628	3/4	9,675	3/4		3/4		3/4		3/4		3/4	
5	950	5	3,230	5	5,501	5	7,672	5	9,715	5		5		5		5		5	
1/4	998	1/4	3,278	1/4	5,547	1/4	7,716	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,045	1/2	3,325	1/2	5,594	1/2	7,760	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,093	3/4	3,373	3/4	5,640	3/4	7,804	3/4		3/4		3/4		3/4		3/4		3/4	
6	1,140	6	3,420	6	5,687	6	7,848	6		6		6		6		6		6	
1/4	1,188	1/4	3,468	1/4	5,733	1/4	7,891	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,235	1/2	3,515	1/2	5,779	1/2	7,935	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,283	3/4	3,563	3/4	5,825	3/4	7,978	3/4		3/4		3/4		3/4		3/4		3/4	
7	1,330	7	3,610	7	5,871	7	8,022	7		7		7		7		7		7	
1/4	1,378	1/4	3,658	1/4	5,917	1/4	8,066	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,425	1/2	3,705	1/2	5,963	1/2	8,109	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,473	3/4	3,753	3/4	6,009	3/4	8,152	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,520	8	3,800	8	6,055	8	8,196	8		8		8		8		8		8	
1/4	1,568	1/4	3,848	1/4	6,101	1/4	8,239	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,615	1/2	3,895	1/2	6,147	1/2	8,282	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,663	3/4	3,943	3/4	6,192	3/4	8,326	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,710	9	3,990	9	6,238	9	8,369	9		9		9		9		9		9	
1/4	1,758	1/4	4,038	1/4	6,284	1/4	8,412	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,805	1/2	4,085	1/2	6,329	1/2	8,455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,853	3/4	4,133	3/4	6,375	3/4	8,498	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,900	10	4,180	10	6,420	10	8,541	10		10		10		10		10		10	
1/4	1,948	1/4	4,228	1/4	6,466	1/4	8,584	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,995	1/2	4,275	1/2	6,511	1/2	8,626	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,043	3/4	4,323	3/4	6,556	3/4	8,669	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,090	11	4,370	11	6,602	11	8,712	11		11		11		11		11		11	
1/4	2,138	1/4	4,418	1/4	6,647	1/4	8,755	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,185	1/2	4,465	1/2	6,692	1/2	8,797	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,233	3/4	4,513	3/4	6,737	3/4	8,840	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

STRAPPED: 09/10/2015 CL  
CALCULATED: 09/11/2015 CL  
PRINTED: 09/11/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	0	0	101	0	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	3	1	113	1	272	1	428	1		1		1		1	1	1	1	1	1
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	7	2	125	2	286	2	439	2		2		2		2	2	2	2	2	2
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	13	3	138	3	300	3	450	3		3		3		3	3	3	3	3	3
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	21	4	151	4	313	4	460	4		4		4		4	4	4	4	4	4
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	29	5	164	5	327	5	470	5		5		5		5	5	5	5	5	5
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	37	6	177	6	340	6	480	6		6		6		6	6	6	6	6	6
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	47	7	190	7	353	7	488	7		7		7		7	7	7	7	7	7
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	57	8	204	8	366	8	496	8		8		8		8	8	8	8	8	8
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	67	9	217	9	379	9	504	9		9		9		9	9	9	9	9	9
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	78	10	231	10	392	10	510	10		10		10		10	10	10	10	10	10
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	89	11	245	11	404	11	514	11		11		11		11	11	11	11	11	11
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	98	3/4	255	3/4	413	3/4	516	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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  
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# BARGE "CCL 414 L"

## DRIP PAN STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	4	1/4	199	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	8	1/2	203	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	12	3/4	207	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	16	1	212	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	20	1/4	216	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	24	1/2	220	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	28	3/4	224	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	33	2	228	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	37	1/4	232	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	49	3		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	53	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	65	4		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	81	5		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	85	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	98	6		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	102	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	106	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	110	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	114	7		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	118	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	122	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	126	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	130	8		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	134	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	138	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	142	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	146	9		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	151	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	163	10		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	167	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	171	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	175	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	179	11		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	183	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	187	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	191	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
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CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CCL 414 L"

## DRIP PAN PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	4	1/4	199	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	8	1/2	203	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	12	3/4	207	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	16	1	212	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	20	1/4	216	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	24	1/2	220	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	28	3/4	224	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	33	2	228	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	37	1/4	232	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	41	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	49	3	---	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	53	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	65	4	---	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	69	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	81	5	---	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	85	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	90	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	94	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	98	6	---	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	102	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	106	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	110	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	114	7	---	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	118	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	122	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	126	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	130	8	---	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	134	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	138	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	142	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	146	9	---	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	151	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	163	10	---	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	167	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	171	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	175	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	179	11	---	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	183	1/4	---	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	187	1/2	---	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	191	3/4	---	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 LIP OF TANK  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES

STRAPPED: 09/10/2015 CL  
CALCULATED: 09/11/2015 CL  
PRINTED: 09/11/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>

## Vessel Details for CCL 414-L Plan: 16130

**IMO Number:**  
**Official Number: 1262941**  
**AUTHORIZED**

[Return to plan 16130](#)

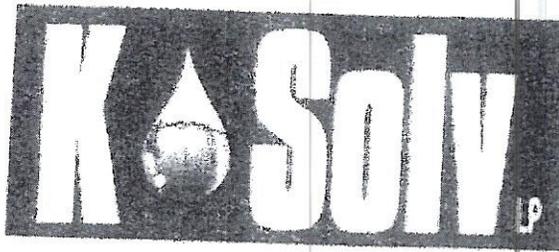
**Vessel Information**

Total WCD:	30000 barrels
VRP Type:	Tank (Primary)
Owner:	
Operator:	
Flag:	UNITED STATES
Call Sign:	
Cargo Type Carried:	Group I Non-Persistent Oils Group II Persistent Oils Group III Persistent Oils
Vessel Type:	Tank Barge
Largest Oil Tank:	0 barrels
Length:	297.5 ft
Gross Tons (GRT)	1619
Self Propelled	No

**Zones this Vessel Calls**

**Total Zones: 8 | Total Authorized: 8**

Zone	Approved	Nav Restrictions	Alt Planning Criteria Used	Lightering Restrictions
<u>CORPUS CHRISTI</u>	AUTHORIZED		No	Yes
<u>HOUSTON-GALVESTON</u>	AUTHORIZED		No	Yes
<u>MOBILE</u>	AUTHORIZED		No	Yes
<u>MORGAN CITY</u>	AUTHORIZED		No	Yes
<u>NEW ORLEANS</u>	AUTHORIZED		No	Yes
<u>OHIO VALLEY</u>	AUTHORIZED		No	Yes
<u>PORT ARTHUR AND LAKE CHARLES</u>	AUTHORIZED		No	Yes
<u>UPPER MISSISSIPPI RIVER (ST. LOUIS)</u>	AUTHORIZED		No	Yes



### Certificate of Hose Inspection

During any test or inspection required, the entire external surface of the hose must be accessible. Each line must:

- (i) Have no unrepaired loose covers, kinks, bulges, soft spots or any other defect which would permit the discharge of oil or hazardous material through the hose material, and no gouges, cuts or slashes that penetrate the first layer of hose reinforcement as defined in §156.120(i).
- (ii) Have no external deterioration and, to the extent internal inspection is possible with both ends of the hose open, no internal deterioration;

Date of Test:	<u>8-17-20</u>	Hose Serial No.	<u>CHTX-15631</u>
Hose Diameter:	<u>8"</u>	Hose Length:	<u>25'</u>
End Connections:	<u>Floating Flange</u>	Alloy of Fittings:	<u>Carbon steel</u>
Hose Type:	<u>vapor</u>	Hose Cover Material:	<u>Composite</u>
Working Pressure:	<u>150 psi</u>	Test Pressure:	<u>225 psi</u>
Continuity/Resistance:	<u>good</u>	Manufacture Date:	<u>NA</u>
Comments: _____			

K-Solv, LP. has subjected the above described Hose to a pressure test meeting the requirements of 33 CFR 156.170, as well as an electrical continuity and resistance test.

The hose working pressure is 200 but due to the end connections only being rated at 150wp, the overall Assembly is rated at 150 wp.

Ash Beatty P.E.  
K-Solv Testing Program  
Approved by  
01/2012

JUAN CRUZ  
Test Conducted by

Paul Moreno  
Test Witnessed by