



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

Certification Date: 25 Mar 2025

Expiration Date: 25 Mar 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 420-T	1348560			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
GALVESTON, TX	25Mar2025	25Mar2024	R-1619	R-1619		R-297.5
UNITED STATES			I-	I-		I-0

Owner	Operator
D. Stephen LaPlace, Trustee of the Frank W. Banta 1237 Highway 75 Sunshine, LA 70780 UNITED STATES	CHEM CARRIERS LLC 1237 HIGHWAY 75 SUNSHINE, LA 70780 UNITED STATES

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

0 Masters	0 Licensed Mates	0 Chief Engineers	0 Oilers
0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers	
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers	
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers	
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers	
0 Mate First Class Pilots	0 Deckhands	0 Qualified Member Engineer	

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

**Route Permitted And Conditions Of Operation:**  
**---Lakes, Bays, and Sounds---**

Also, in fair weather only, limited 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 must be 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 Galveston, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Houston-Galveston certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Annual/Periodic/Re-Inspection				This certificate issued by: <i>B. P. Bergan</i> <b>B.P. BERGAN CDR, USCG, BY DIRECTION</b> <hr/> Officer in Charge, Marine Inspection <hr/> Houston-Galveston <hr/> Inspection Zone
Date	Zone	A/P/R	Signature	



# Certificate of Inspection

Vessel Name: CCL 420-T

### ---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	31Mar2035	25Mar2025	
Internal Structure	31Mar2030	25Mar2025	

### --- 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
29442	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)
1P/S	780	13.57
2 P/S	850	13.57
3 P/S	712	13.57

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

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	4034	10ft 1in	13.57	R,LBS
III	4461	11ft 0in	13.57	R,LBS

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial #C1-2500897, dated March 18th, 2025, may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

Per 46 CFR 150.130, the Person in Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the compatibility group numbers from the "Compat Group No" column listed in the vessel's CAA.

The maximum design density of cargo which may be filled to the tank top is 8.97 lbs/gal. Cargoes with higher densities, up to 13.57 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Per 46 CFR 151.10-15(c)(2) the max tank weights reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.



# Certificate of Inspection

Vessel Name: CCL 420-T

**\*Vapor Control Authorization\***

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter #C1-2403300 dated September 3rd, 2024 and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 2 psig P/V valve with Coast Guard Approval 162.017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 3.50 psig.

In accordance with 46 CFR Part 39.5000, this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved by Marine Safety Center letter Serial No. C1-2403300 dated September 3rd, 2024.

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

**\*Cargo Tanks\***

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1P/S	-	25Mar2025	31Mar2035	-	25Mar2025	31Mar2030
2 P/S	-	25Mar2025	31Mar2035	-	25Mar2025	31Mar2030
3 P/S	-	25Mar2025	31Mar2035	-	25Mar2025	31Mar2030

**Hydro Test**

Tank Id	Safety Valves	Hydro Test		
		Previous	Last	Next
1P/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\*\*\*

# List of Authorized Cargoes (LOAC)

for: CCL 420-T, CCL 421-T, O.N. 1348560, 1352615, Kennedy Construction, 178, 179

Revised: 3/18/2025

Cargo Identification					Hull Type	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Prot Req	Special Requirements	Elec Haz	Temp Cont	Tank Intl Insp Period	Tank Group
Name	CAS Number	Chem Code	Press.	Temp.			Type	Vent	Gauge	Pipe Clas	Cont	Tanks	Handling Space						
Acetonitrile	75-05-8	ATN	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
Acrylonitrile	N/A	ACN	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	Yes	.50-70(a), .55-1(e)	I-D	NA	G	A
Adiponitrile	111-69-3	ADN	Atmos.	Amb.	II	1ii 2i	Integral Gravity	PV	Open	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
Alkyl (C7-C9) nitrates	20633-12-9	AKN	Atmos.	Amb.	III	1i 2ii	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.50-81, .50-86	NA	NA	G	A
Aminoethyl ethanolamine	111-41-1	AEE	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(b)	NA	NA	G	A
Ammonium bisulfite solution (70% or less)	10192-30-0	ABX	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No	.50-73, .56-1(a), (b), (c)	NA	NA	G	A
Ammonium hydroxide (28% or less NH3)	1336-21-6	AMH	Atmos.	Amb.	III	1i 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	.56-1(a), (b), (c), (f), (g)	I-D	NA	G	A
Anthracene oil (Coal tar fraction)	65996-91-0	AHO	Atmos.	Amb/Elev	II	1ii 2ii	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	No	I-D	NA	G	A
Benzene	71-43-2	BNZ	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	Yes	.50-60	I-D	NA	G	A
Benzene, C10-16 alkyl derivatives	N/A	BEND	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes		1-D	No	G	A
Benzene and mixtures having 10% Benzene or more	N/A	BHB	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	Yes	.50-60	I-D	NA	G	A
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	N/A	BHA	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	Yes	.50-60, .56-1(b), (d), (f), (g)	I-D	NA	G	A
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	N/A	BTX	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	Yes	.50-60	I-D	NA	G	A
Bis(2-ethylhexyl) terephthalate	N/A	PEC	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Open	II	G-1	NR	Vent N	No	No	NA	NA	G	A
Butyl acrylate (all isomers)	141-32-2	BAR	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent N	Yes	.50-70(a), .50-81(a), (b)	I-D	NA	G	A
Butyl methacrylate	97-88-1	BMH	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), .50-81(a), (b)	I-D	NA	G	A
Camphor oil (light)	8008-51-3	CPO	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	No	I-D	NA	G	A
Carbon tetrachloride	56-23-5	CBT	Atmos.	Amb.	III	1i 2i	Integral Gravity	PV	Open	II	G-1	NR	Vent N	No	No	NA	NA	G	A

Cargo Identification					Hull Type	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Prot Req	Special Requirements	Elec Haz	Temp Cont	Tank Intl Insp Period	Tank Group
Name	CAS Number	Chem Code	Press.	Temp.			Type	Vent	Gauge	Pipe Clas	Cont	Tanks	Handling Space						
Caustic potash solution	1310-58-3	CPS	Atmos.	Amb/Elev	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	NR	No	.50-73, .55-1(j)	NA	NA	G	A
Caustic soda solution	1310-73-2	CSS	Atmos.	Amb/Elev	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	NR	No	.50-73, .55-1(j)	NA	NA	G	A
Chemical Oil (refined, containing phenolics)	N/A	COD	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-73	I-D	NA	G	A
Chlorobenzene	108-90-7	CRB	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Open	II	G-1	NR	Vent N	Yes	No	I-D	NA	G	A
Chloroform	67-66-3	CRF	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent F	No	No	NA	NA	G	A
Coal tar naphtha solvent	8030-30-6	NCT	Atmos.	Amb.	III	1i 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-73	I-D	NA	G	A
Creosote	N/A	CCW	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	No	NA	NA	G	A
Cresols (all isomers)	1319-77-3	CRS	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	No	NA	NA	G	A
Cresylate spent caustic	N/A	CSC	Atmos.	Amb.	III	1ii 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No	.50-73, .55-1(b)	NA	NA	G	A
Cresylic acid tar	N/A	CRX	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(f)	NA	NA	G	A
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	N/A	CHG	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	NR	Yes	No	I-D	NA	G	A
Cyclohexanone	108-94-1	CCH	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.56-1(a), (b)	I-D	NA	G	A
Cyclohexanone, Cyclohexanol mixture	N/A	CYX	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.56-1 (b)	I-D	NA	G	A
Cyclohexylamine	N/A	CHA	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.56-1(a), (b), (c), (g)	I-D	NA	G	A
Cyclopentadiene, Styrene, Benzene mixture	N/A	CSB	Atmos.	Amb.	III	1i 2ii	Integral Gravity	Open	Open	II	G-1	NR	Vent F	Yes	.50-60, .56-1(b)	I-D	NA	G	A
iso-Decyl acrylate	N/A	IAI	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.50-70(a), .50-81(a), (b), .55-1(c)	NA	NA	G	A
Dichlorobenzene (all isomers)	25321-22-6	DBX	Atmos.	Amb.	III	1ii 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.56-1(a), (b)	I-D	NA	G	A
1,1-Dichloroethane	75-34-3	DCH	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
Dichloromethane	75-09-2	DCM	Atmos.	Amb.	III	1i 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	No	I-D	NA	G	A
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	5742-19-8	DDE	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No	.56-1(a), (b), (c), (g)	NA	NA	G	A

Cargo Identification					Hull Type	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Prot Req	Special Requirements	Elec Haz	Temp Cont	Tank Intl Insp Period	Tank Group
Name	CAS Number	Chem Code	Press.	Temp.			Type	Vent	Gauge	Pipe Clas	Cont	Tanks	Handling Space						
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	2008-39-1	DAD	Atmos.	Amb/Elev	III	1i 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	.56-1(a), (b), (c), (g)	NA	NA	G	A
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	34075-45-1	DTI	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No	.56-1(a), (b), (c), (g)	NA	NA	G	A
1,1-Dichloropropane	78-99-9	DPB	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
1,2-Dichloropropane	78-87-5	DPP	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
1,3-Dichloropropane	142-28-9	DPC	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
1,3-Dichloropropene	N/A	DPU	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
Dichloropropene, Dichloropropane mixtures	8003-19-8	DMX	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
Diethanolamine	111-42-2	DEA	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(c)	NA	NA	G	A
Diethylenetriamine	111-40-0	DET	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(c)	NA	NA	G	A
Diisopropanolamine	110-97-4	DIP	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(c)	NA	NA	G	A
N,N-Dimethylacetamide	127-19-5	DAC	Atmos.	Amb.	III	1ii 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.56-1(b)	I-D	NA	G	A
Dimethylformamide	68-12-2	DMF	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.55-1(e)	I-D	NA	G	A
1-Dodecene	N/A	DDC	Atmos.	Amb.	II	1i 2ii	Integral Gravity	Open	Open	II	G-1	NR	NR	Yes	No	I-D	NA	G	A
Dodecyl dimethylamine, Tetradecyl dimethylamine mixture	112-18-5*	DOT	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.56-1(b)	NA	NA	G	A
Dodecyl diphenyl ether disulfonate solution	N/A	DOS	Atmos.	Amb.	II	1ii 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No	No	NA	NA	G	A
Ethanolamine	141-43-5	MEA	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(c)	I-D	NA	G	A
Ethyl acrylate	140-88-5	EAC	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), .50-81(a), (b)	I-D	NA	G	A
Ethylamine solutions (72% or less)	75-04-7	EAN	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	Yes	.55-1(b)	I-D	NA	G	A
Ethylene cyanohydrin	109-78-4	ETC	Atmos.	Amb.	III	1i 2ii	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	No	NA	NA	G	A
Ethylenediamine	107-15-3	EDA	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.55-1(c)	I-D	NA	G	A

Cargo Identification					Hull Type	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Prot Req	Special Requirements	Elec Haz	Temp Cont	Tank Intl Insp Period	Tank Group
Name	CAS Number	Chem Code	Press.	Temp.			Type	Vent	Gauge	Pipe Clas	Cont	Tanks	Handling Space						
Ethylene dichloride	107-06-2	EDC	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
Ethylene glycol hexyl ether	112-25-4	EGH	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	No	NA	NA	G	A
Ethylene glycol propyl ether	2807-30-9	EGP	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	No	NA	NA	G	A
2-Ethylhexyl acrylate	103-11-7	EAI	Atmos.	Amb.	III	1i 2ii	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.50-70(a), (b)	I-D	NA	G	A
Ethyl methacrylate	97-63-2	ETM	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a)	I-D	NA	G	A
Glutaraldehyde solutions (50% or less)	111-30-8	GTA	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No	No	NA	NA	G	A
Hexamethylenediamine solution	124-09-4	HMC	Atmos.	Amb.	III	1i 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.55-1(c)	I-D	NA	G	A
Hydrocarbon 5-9	N/A	HFN	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), (b)	I-D	NA	G	A
Isoprene	78-79-5	IPR	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Open	II	G-1	NR	Vent F	Yes	.50-70(a), (b)	I-D	NA	G	A
Isoprene, Pentadiene mixture	N/A	IPN	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), (c)	I-D	NA	G	A
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	68131-33-9	KPL	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	NR	No	.50-73, (g)	NA	NA	G	A
Mesityl oxide	141-79-7	MSO	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
Methyl acrylate	96-33-3	MAM	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), (b)	I-D	NA	G	A
2-Methyl-5-ethyl pyridine	104-90-5	MEP	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(e)	I-D	NA	G	A
Methyl methacrylate	80-62-6	MMM	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), (b)	I-D	NA	G	A
2-Methylpyridine	109-06-8	MPR	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.55-1(c)	I-D	NA	G	A
alpha-Methylstyrene	98-83-9	MSR	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), (b)	I-D	NA	G	A
Corn oil	8001-30-7	OCO	Atmos.	Amb.	II	1ii 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.50-73	NA	NA	G	A
Olefins (C13+, all isomers)	85535-87-1	OFZ	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes		NA	No	G	A
1,3-Pentadiene	1574-41-0	PDE	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), (b)	I-D	NA	G	A
Perchloroethylene	127-18-4	PER	Atmos.	Amb.	III	1i 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	No	NA	NA	G	A

Cargo Identification					Hull Type	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Prot Req	Special Requirements	Elec Haz	Temp Cont	Tank Intl Insp Period	Tank Group
Name	CAS Number	Chem Code	Press.	Temp.			Type	Vent	Gauge	Pipe Clas	Cont	Tanks	Handling Space						
Polyethylene polyamines	109-89-7	PEB	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(e)	NA	NA	G	A
Potassium chloride solution (brine)	N/A	PCSB	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No		NA	No	G	A
iso-Propanolamine	78-96-6	MPA	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.55-1(c)	I-D	NA	G	A
Propanolamine (iso-, n-)	N/A	PAX	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.56-1(b), (c)	I-D	NA	G	A
Isopropylamine	75-31-0	IPP	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	Yes	.55-1(c)	I-D	NA	G	A
Pyridine	110-86-1	PRD	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.55-1(e)	I-D	NA	G	A
Solution containing ammonium thiosulfate (≤60%), ammonium sulfate (≤6%) and ammonium sulfite (≤5%)		ATAS	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No		NA	No	G	A
Sodium aluminate solution (45% or less)	11138-49-1	SAU	Atmos.	Amb/Elev	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	NR	No	.50-73, .56-1(a), (b), (c)	NA	NA	G	A
Sodium chlorate solution (50% or less)	7775-09	SDD	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No	.50-73	NA	NA	G	A
Sodium hypochlorite solution (20% or less)	7681-52-9	SHQ	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	.50-73, .56-1(a), (b)	NA	NA	G	A
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	N/A	SSH	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	Vent N	No	.50-73, .55-1(b)	NA	NA	G	A
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	N/A	SSI	Atmos.	Amb.	III	1ii 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	.50-73, .55-1(b)	NA	NA	G	A
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	N/A	SSJ	Atmos.	Amb.	II	1ii 2i	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	No	.50-73, .55-1(b)	NA	NA	G	A
Spent Caustic Soda Solution (containing up to 0.1% Benzene)	N/A	SCSS	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Closed	II	G-1	NR	Vent F	No	.50-60, .50-73, .55-1(j)	NA	No	G	A
Styrene (crude)	N/A	STX	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A
Styrene monomer	100-42-5	STY	Atmos.	Amb.	III	1i 2ii	Integral Gravity	Open	Open	II	G-1	NR	Vent N	Yes	.50-70(a), .50-81(a), (b)	I-D	NA	G	A
Tetrachloroethane	79-34-5	TEC	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	No	NA	NA	G	A
1,2,4-Trichlorobenzene	120-82-1	TCB	Atmos.	Amb.	III	1ii 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	No	I-D	NA	G	A

Cargo Identification					Hull Type	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Prot Req	Special Requirements	Elec Haz	Temp Cont	Tank Intl Insp Period	Tank Group
Name	CAS Number	Chem Code	Press.	Temp.			Type	Vent	Gauge	Pipe Clas	Cont	Tanks	Handling Space						
1,1,2-Trichloroethane	79-00-5	TCM	Atmos.	Amb.	III	1ii 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	.50-73, .56-1(a)	I-D	NA	G	A
Trichloroethylene	79-01-6	TCL	Atmos.	Amb.	III	1i 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	No	I-D	NA	G	A
1,2,3-Trichloropropane	96-18-4	TCN	Atmos.	Amb.	II	1ii 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-73, .56-1(a)	I-D	NA	G	A
Triphenylborane (10% or less), caustic soda solution	960-71-4	TPB	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	NR	No	.56-1(a), (b), (c)	NA	NA	G	A
Trisodium phosphate solution	10101-89-0	TSP	Atmos.	Amb/Elev	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	NR	No	.50-73, .56-1(a), (c).	NA	NA	G	A
Urea, Ammonium nitrate solution (containing more than 2% NH3)	N/A	UAS	Atmos.	Amb.	III	1i 2i	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	No	.56-1(b)	I-D	NA	G	A
Vanillin black liquor (free alkali content, 3% or more).	68514-06-7	VBL	Atmos.	Amb.	III	1i 2i	Integral Gravity	Open	Open	II	G-1	NR	NR	No	.50-73, .56-1(a), (c), (g)	NA	NA	G	A
Vinyl acetate	108-05-4	VAM	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Open	II	G-1	NR	Vent F	Yes	.50-70(a), .50-81(a), (b)	I-D	NA	G	A
Vinyl neodecanoate	51000-52-3	VND	Atmos.	Amb.	III	1i 2ii	Integral Gravity	Open	Open	II	G-1	NR	Vent F	Yes	.50-70(a), .50-81(a), (b)	I-D	NA	G	A
Vinytoluene	25013-15-4	VNT	Atmos.	Amb.	III	1i 2ii	Integral Gravity	PV	Restr.	II	G-1	NR	Vent F	Yes	.50-70(a), .50-81, .56-1(a), (b), (c), (g)	I-D	NA	G	A

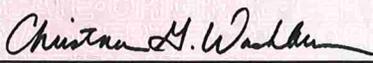


# UNITED STATES OF AMERICA

DEPARTMENT OF HOMELAND SECURITY  
UNITED STATES COAST GUARD

NATIONAL VESSEL DOCUMENTATION CENTER

## CERTIFICATE OF DOCUMENTATION

VESSEL NAME CCL 420-T		OFFICIAL NUMBER 1348560	IMO OR OTHER NUMBER KNDY178	YEAR COMPLETED 2024	
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 GALVESTON TX					
OWNERS D STEPHEN LAPLACE TRUSTEE OF THE FRANK 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 APRIL 29, 2025		 DIRECTOR, NATIONAL VESSEL DOCUMENTATION CENTER			
THIS CERTIFICATE EXPIRES APRIL 30, 2026					



**Certificate of Financial Responsibility (COFR)**

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

Updated: 03/13/2025 15:30

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	4/7/2022 12:00:00 AM	4/7/2025 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	9/27/2022 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	4/20/2022 12:00:00 AM	4/20/2025 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	2/23/2024 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	



### BARGE VAPOR TIGHTNESS LETTER

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

- Test date: 5-14-25
- Barge owner: Chem Carriers
- Barge Name/Official Number: CCL420T / 1348560
- Maximum load rate (BPH): 4,900 (BPH)

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

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

→ Start Time: 9:30 Beginning Pressure: 28"

→ End Time: 10:00 Ending Pressure: 27.5"

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

Company of Tester:	Location:
<u>K-solv</u>	<u>Channelview Tx.</u>
Name of Tester (Print):	Signature of Tester:
<u>Jose Rojas</u>	<u>Jose Rojas</u>
Name of Witness (Print):	Signature of Witness:
<u>Edgar Quiroz</u>	<u>Edgar Quiroz</u>
Affiliation/Company of Witness (Print)	
<u>K-solv / Supervisor</u>	

1015 Lakeside Dr, Channelview, TX 77530

Phone: 281-452-4000 Fax: 281-452-5523

Revised 10/03/2019



# Ksolv

## BARGE PIPING LETTER

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

BARGE OWNER/BARGE NAME: Chem carriers / CCL420T

Letter expiration date (one year from test date): 5-14-2026

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

1. Cargo Piping and Valves (actual date of test): 5-14-25

Test Pressure (188 psi): 188 psi

2. Cargo Relief Valve (actual date of test): 5-14-25

Test Pressure (125 psi): 125 psi

3. Cargo Pressure Gauge (actual date of test): 5-14-25

Percent of Accuracy (%): 92%

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

Test Pressure (125 psi): N/A

Signature of Tester:	<u>Jose Rojas</u>
Printed Name of Tester:	<u>Jose Rojas</u>
Company/Location of Tester:	<u>K-solv / Channelview</u>

1015 Lakeside Dr, Channelview, TX 77530

Phone: 281-452-4000 Fax: 281-452-5523

Revised 10/03/2019

KENNEDY CON., INC. DBA  
**KENNEDY CONSTRUCTION**

Ph: (409) 744-5505

P.O. Box 16298  
Galveston, Texas 77552-6298

Fax: (409) 744-5088

**AIR TEST – CERTIFICATION DOCUMENT**

BARGE NAME: CCL 420-T  
OFFICIAL NUMBER: 1348560  
BARGE OWNER: D. STEPHEN LAPLACE, TRUSTEE OF THE FRANK BANTA, JR. 2012 GRANTOR TRUST  
TESTING LOCATION: KENNEDY CON., INC. DBA KENNEDY CONSTRUCTION  
6506 CHANNEL VIEW DRIVE, GALVESTON, TX 77554

DATE OF TEST: 16 Dec 2024

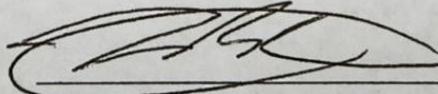
NAME OF TESTER: RAFAEL DIOSDADO

TESTER SIGNATURE: 

WITNESSING INSPECTOR: CHRISTOPHER KENNEDY / COAST GUARD

INSPECTOR SIGNATURE:  LTJG RO: JKH

**TEST RESULTS: 4 LEAKS TOTAL**

SIGNATURE OF TEST: 

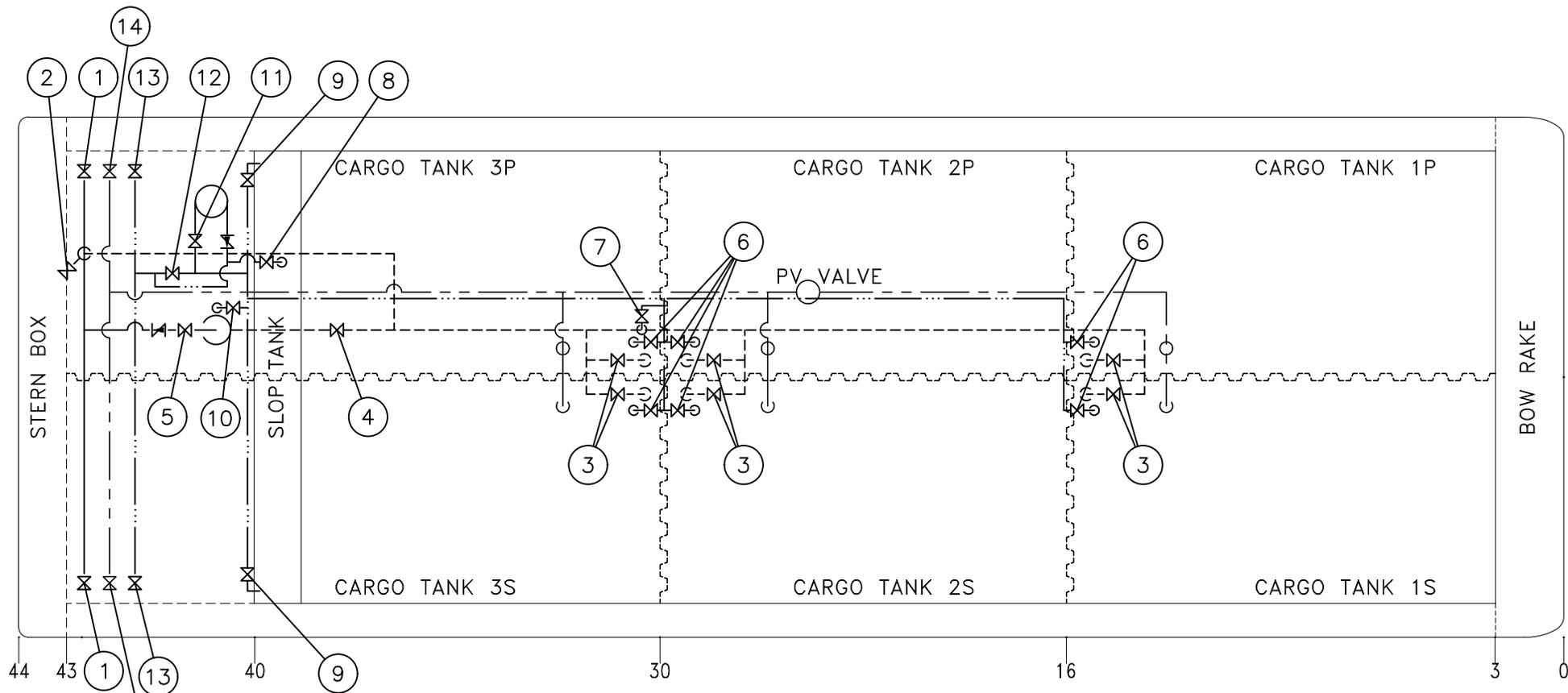
TIME START: 0900

STARTING PRESSURE: 3 PSI

TIME STOP: 1200

ENDING PRESSURE: 3 PSI

CARBON PIPE 187.5 PSI CK



VALVE LIST:

1. CARGO HEADER VALVE
2. CARGO LOAD VALVE
3. CARGO TANK LOAD/DISCHARGE VALVE
4. DEEPWELL BLOCK VALVE
5. CARGO PUMP DISCHARGE
6. SUMP STRIPPING
7. HOLD CARGO HEADER STRIPPING
8. SLOP TANK BLOCK VALVE
9. SLOP TANK STRIPPING
10. DEEPWELL CAN STRIPPING
11. STRIPPING PUMP INTAKE
12. STRIPPING BLOCK VALVE
13. STRIPPING HEADER VALVE
14. VAPOR HEADER VALVE

LOAD BARGE:

- OPEN: 1, 2, 3  
 CLOSE: 4 & 5

DISCHARGE BARGE:

- OPEN: 1, 3, 4, 5  
 CLOSE: 2

STRIP BARGE TO SHORE:

- OPEN: 6, 7, 9, 10, 11, 13  
 CLOSE: 8, 12

STRIP CARGO TO SLOP:

- OPEN: 6, 7, 8, 10, 11  
 CLOSE: 9, 12, 13

VAPOR PIPE



STRIPPING PIPE



## Plan Review Information Sheet (PRIS) for Unmanned Inland Tank Barge

1. Vessel Identification	Hull Type	Service	ABS classed?
CCL 420-T, O.N. 1348560, Kennedy Construction Hull No. 178	II/III	O/D	No
CCL 421-T, O.N. 1352615, Kennedy Construction Hull No. 179	II/III	O/D	No

### 2. Route Permitted - Routes and Conditions

R	Rivers
LBS	Lakes, Bays, and Sounds

### 3. Cargo Authority - "Authorization" Tab in "Cargo" Window

Authorization:

46 CFR Sub. D Authority:	Highest Grade	A	Capacity (bbbls)	29,442
46 CFR Sub. O Authority:	Part 151	Yes	Part 153	No
33 CFR Sub. O Authority:	Part 151.47	No	Part 151.49a	No

### 4. "Conditions of Carriage" Tab in "Cargo" Window

a. The following statement should appear at the beginning of the COI's "Conditions of Carriage" section:  
 Only those cargoes named in the vessel's Cargo Authority Attachment may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 US Code of Federal Regulations Part 197, Subpart C are applied.

Per 46 CFR 150.130, the Person In Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the reactive group numbers from the "Compat Group No" column listed in the vessel's Cargo Authority Attachment.

b. The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 13.57 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed below.

**Note:** Per 46 CFR 151.10-15(c)(2) the max. tank weights listed below reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.

### 5. Loading Constraints

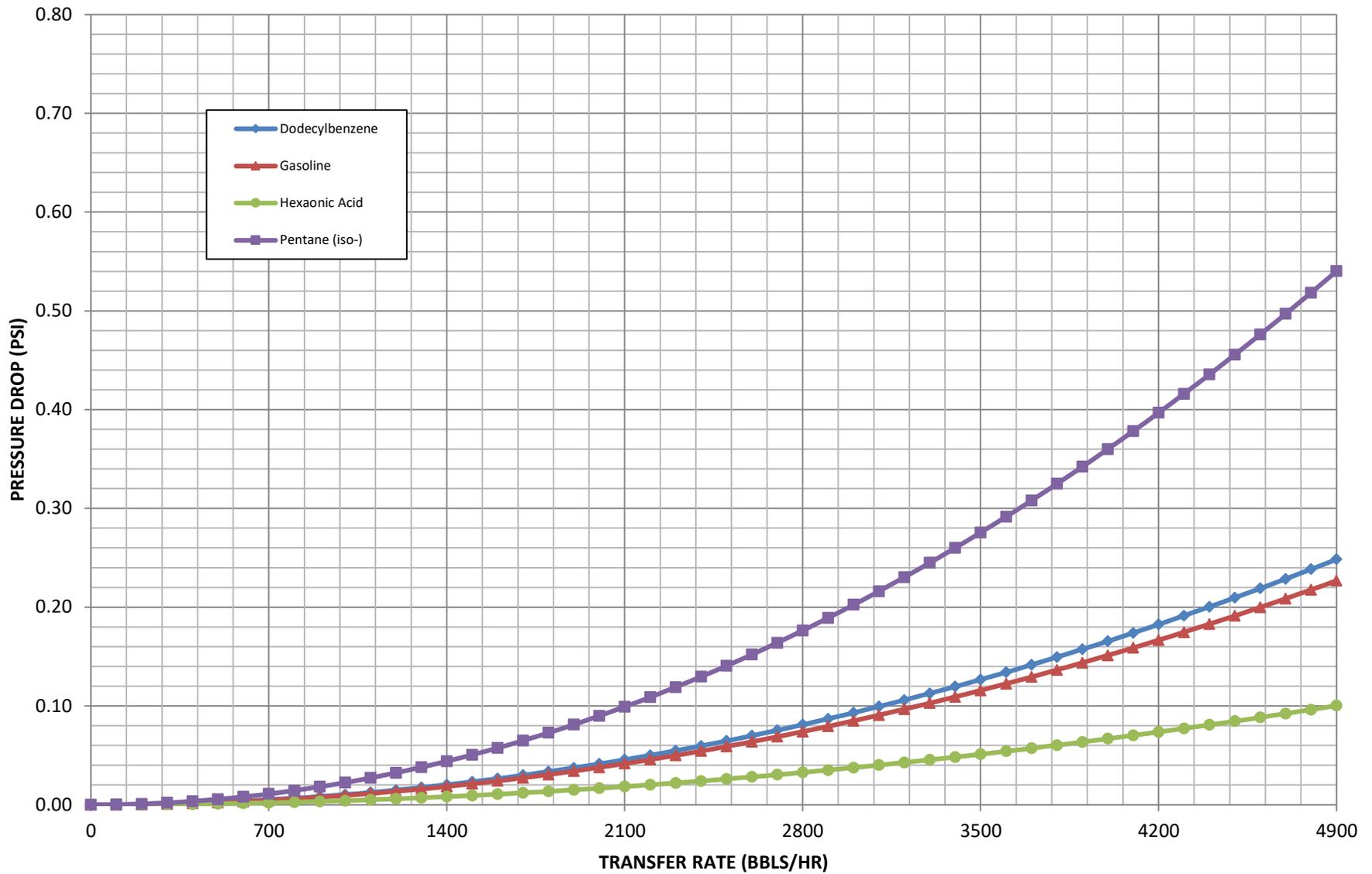
Loading Constraints - Structural

Tank	Max Cargo Wgt/Each Tank (ST)	Max Density (lbs/gal)
1 P/S	780	13.57
2 P/S	850	13.57
3 P/S	712	13.57

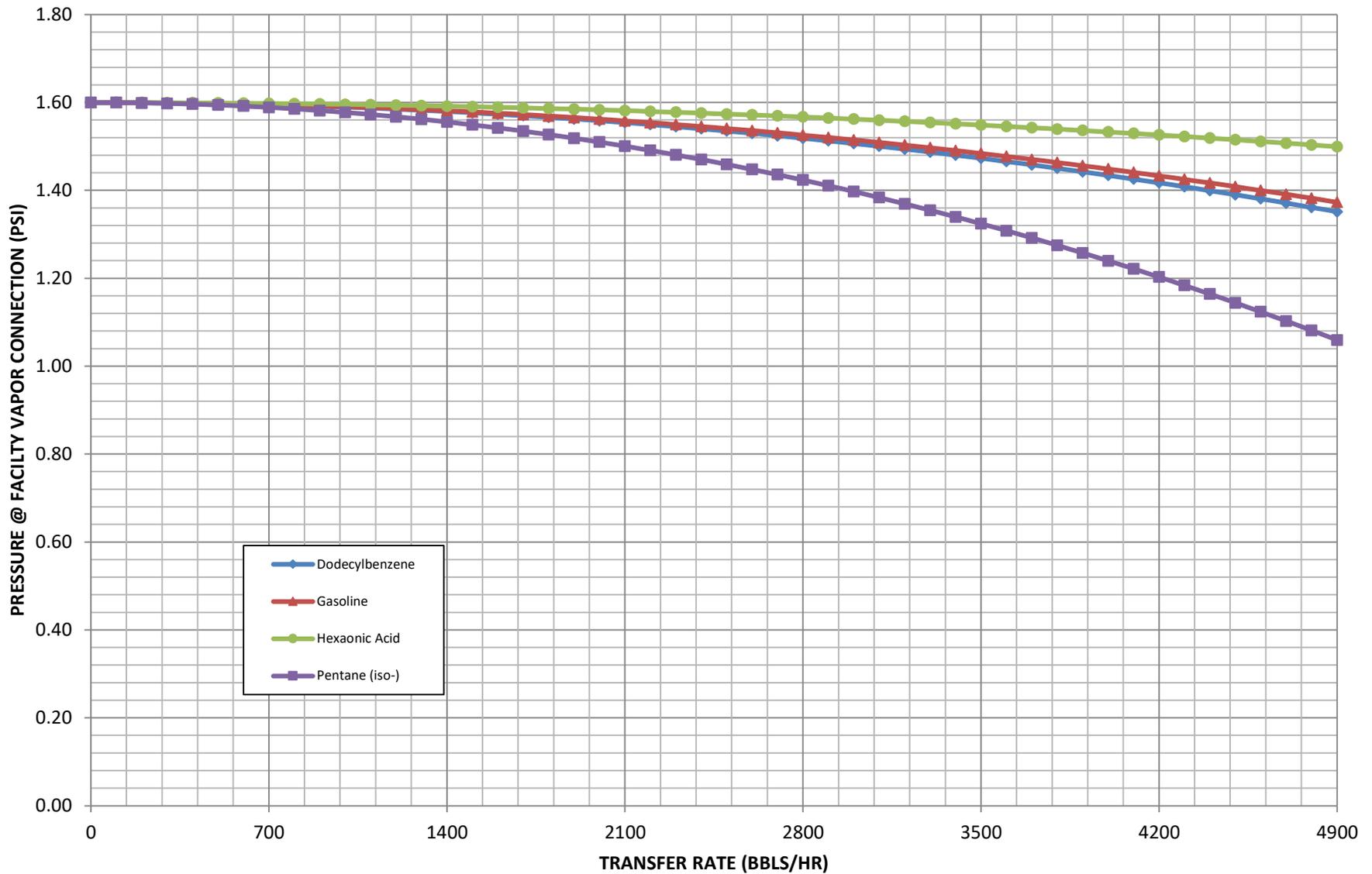
Loading Constraints - Stability

Hull Type	Route	Max. Load (ST)	Max Draft (ft, in)	Max Density (lbs/gal)
II	R, LBS	4034	10'-1 3/4"	13.57
III	R, LBS	4461	11'-0"	13.57

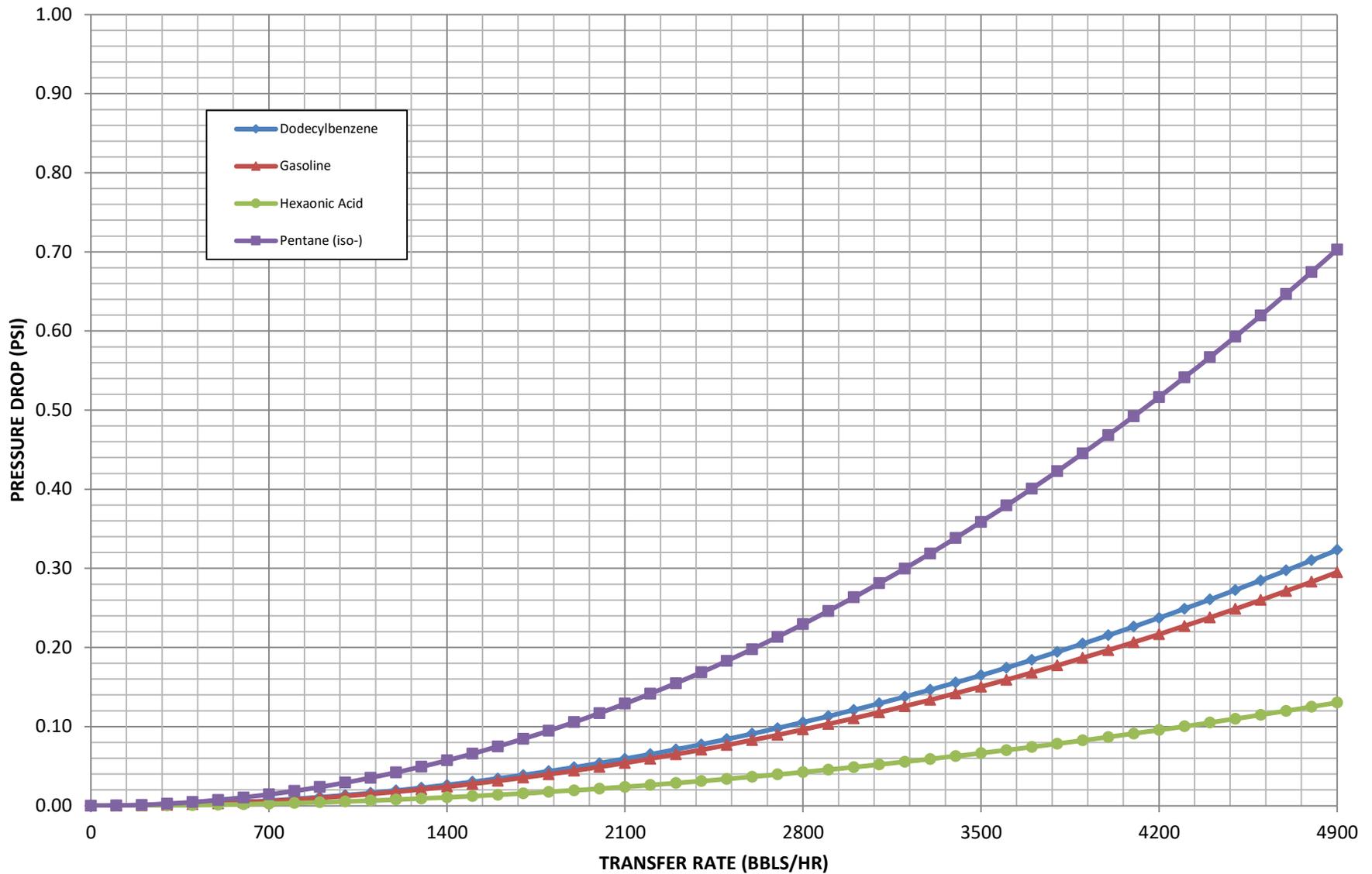
### LIQUID TRANSFER RATE vs PRESSURE DROP - SINGLE (FOR SUBCHAPTER "D" CARGOES)



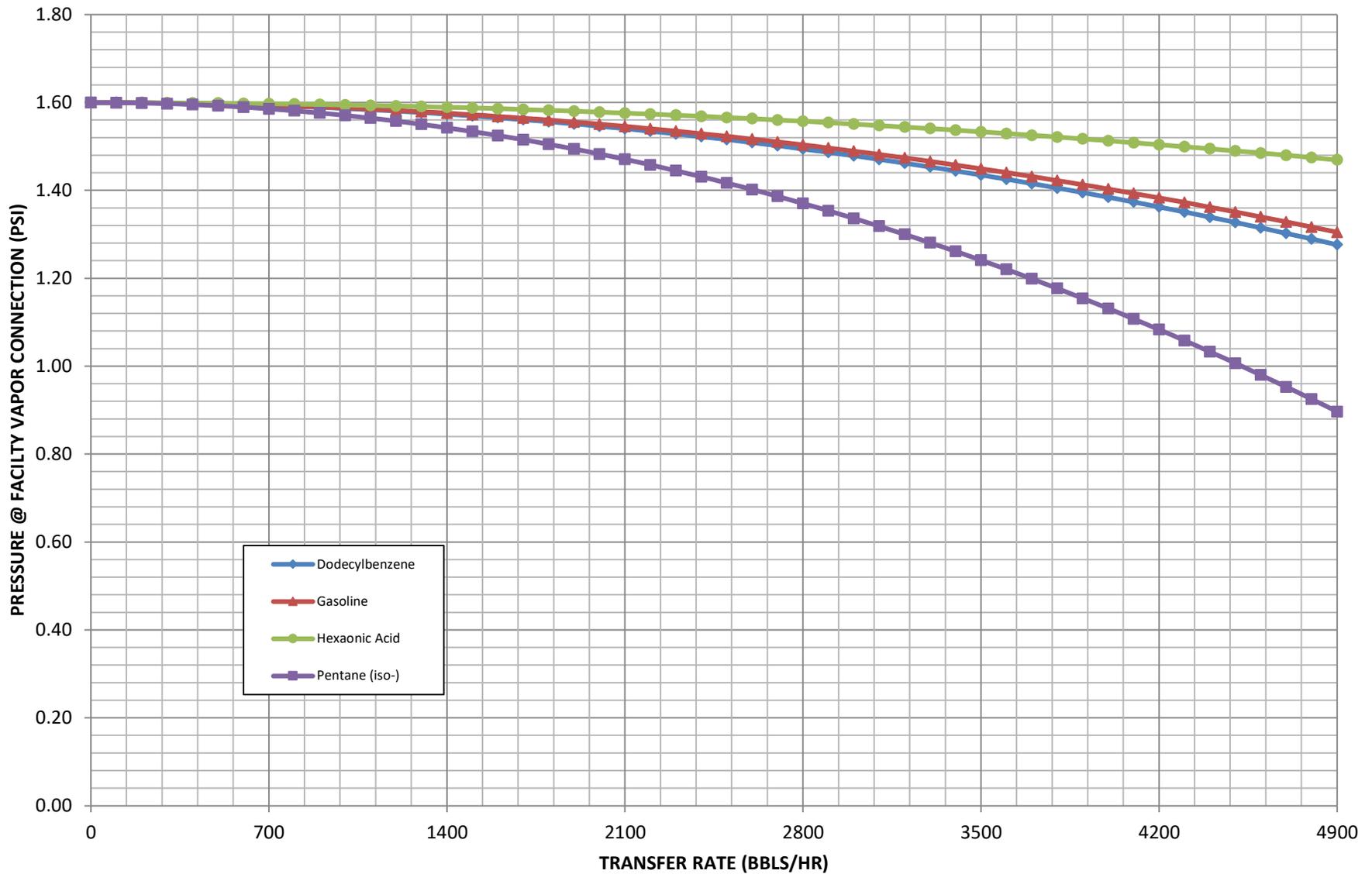
### LIQUID TRANSFER RATE vs PRESSURE DROP - SINGLE (FOR SUBCHAPTER "D" CARGOES)



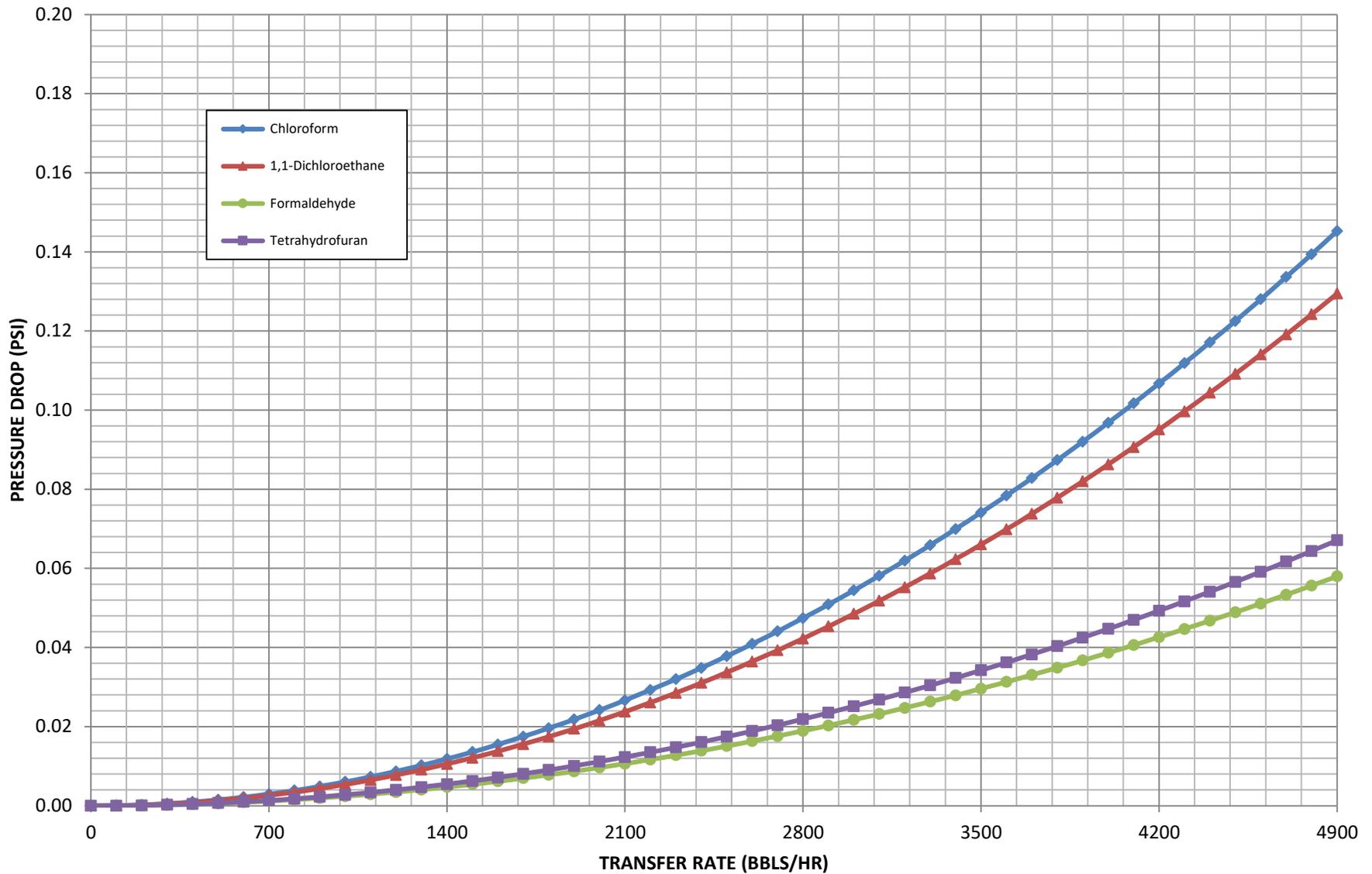
### LIQUID TRANSFER RATE vs PRESSURE DROP - **TANDEM** (FOR SUBCHAPTER "D" CARGOES)



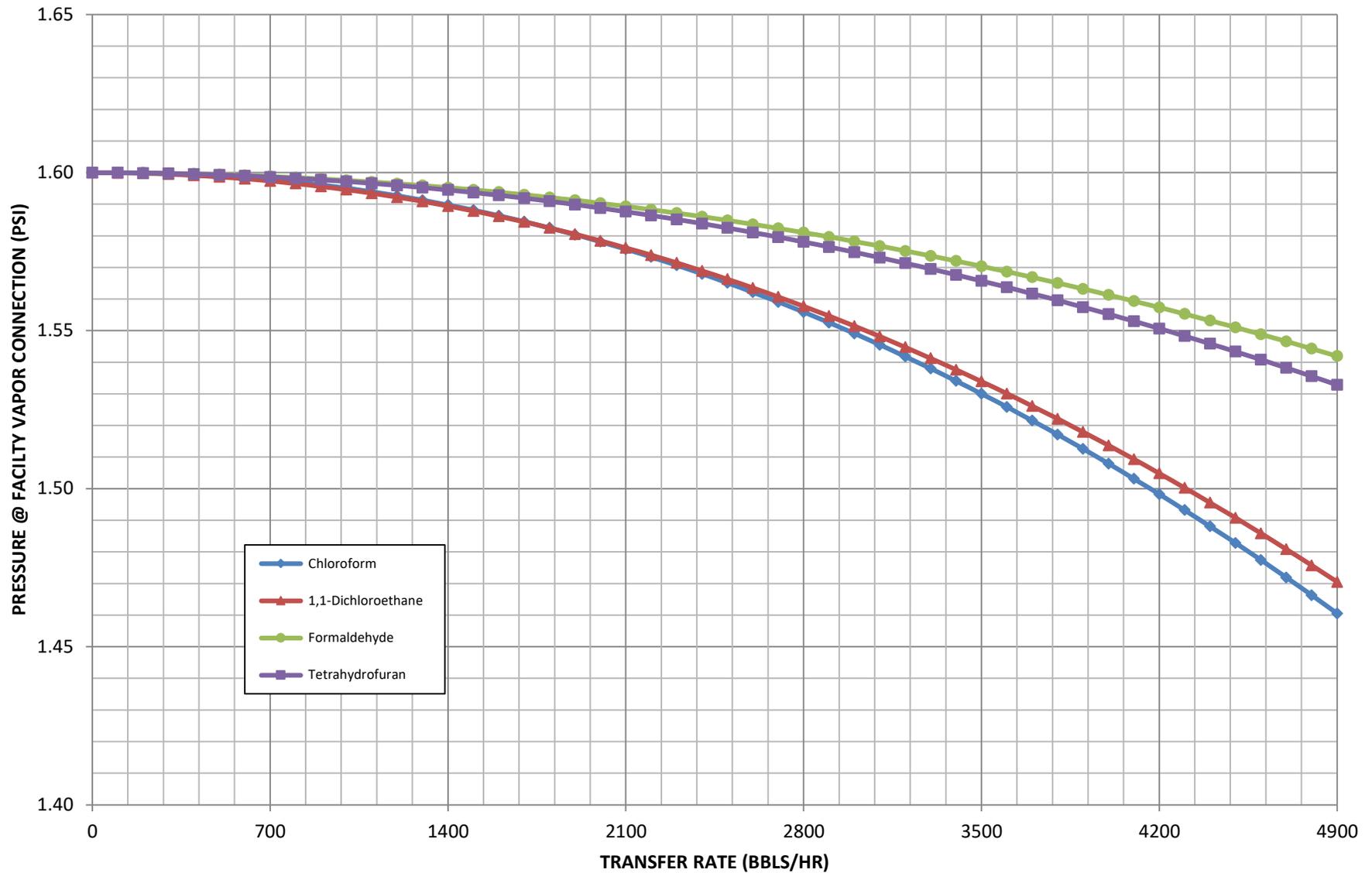
### LIQUID TRANSFER RATE vs PRESSURE DROP - **TANDEM** (FOR SUBCHAPTER "D" CARGOES)



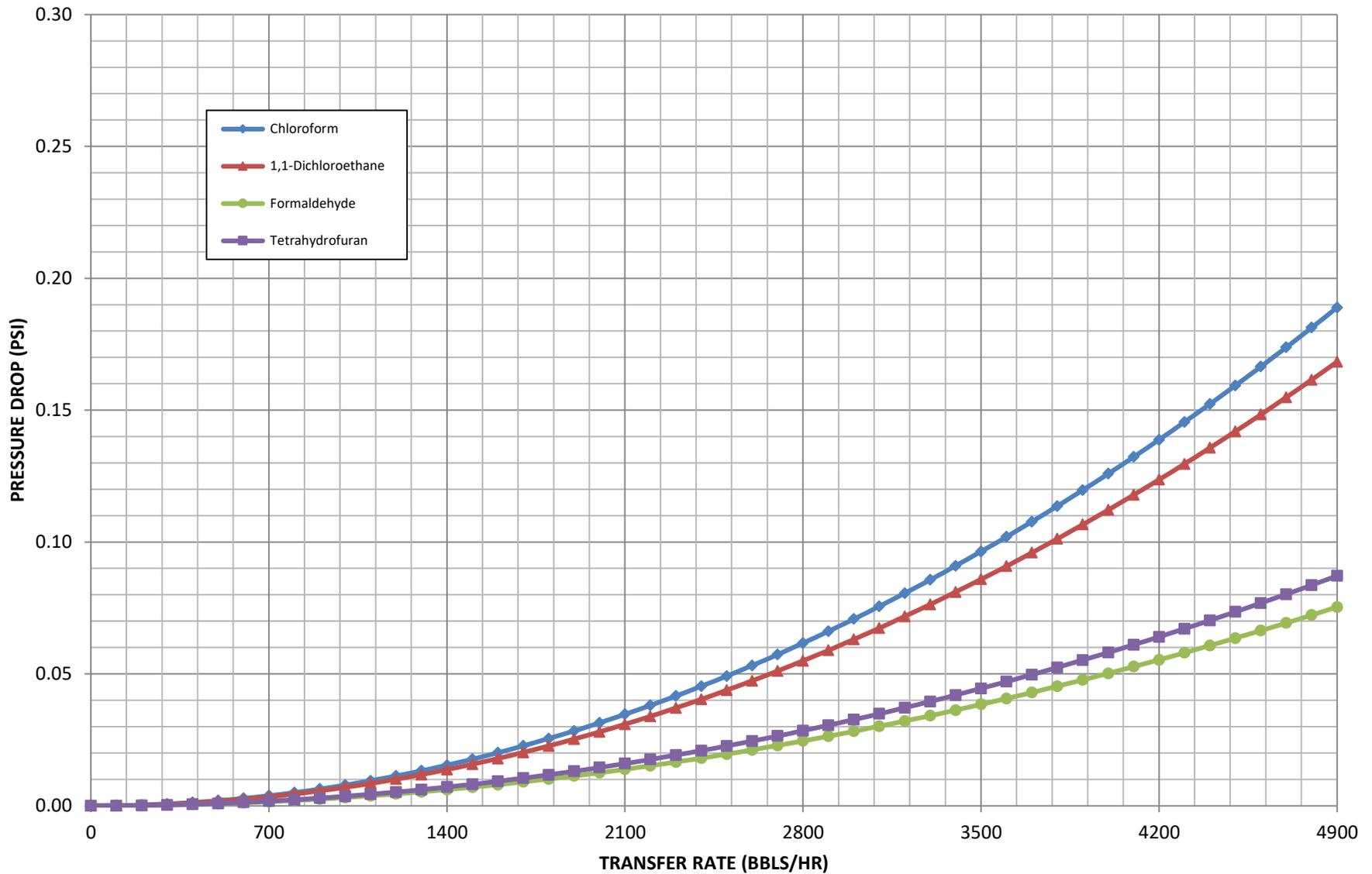
### LIQUID TRANSFER RATE vs PRESSURE DROP - SINGLE (FOR SUBCHAPTER "O" CARGOES)



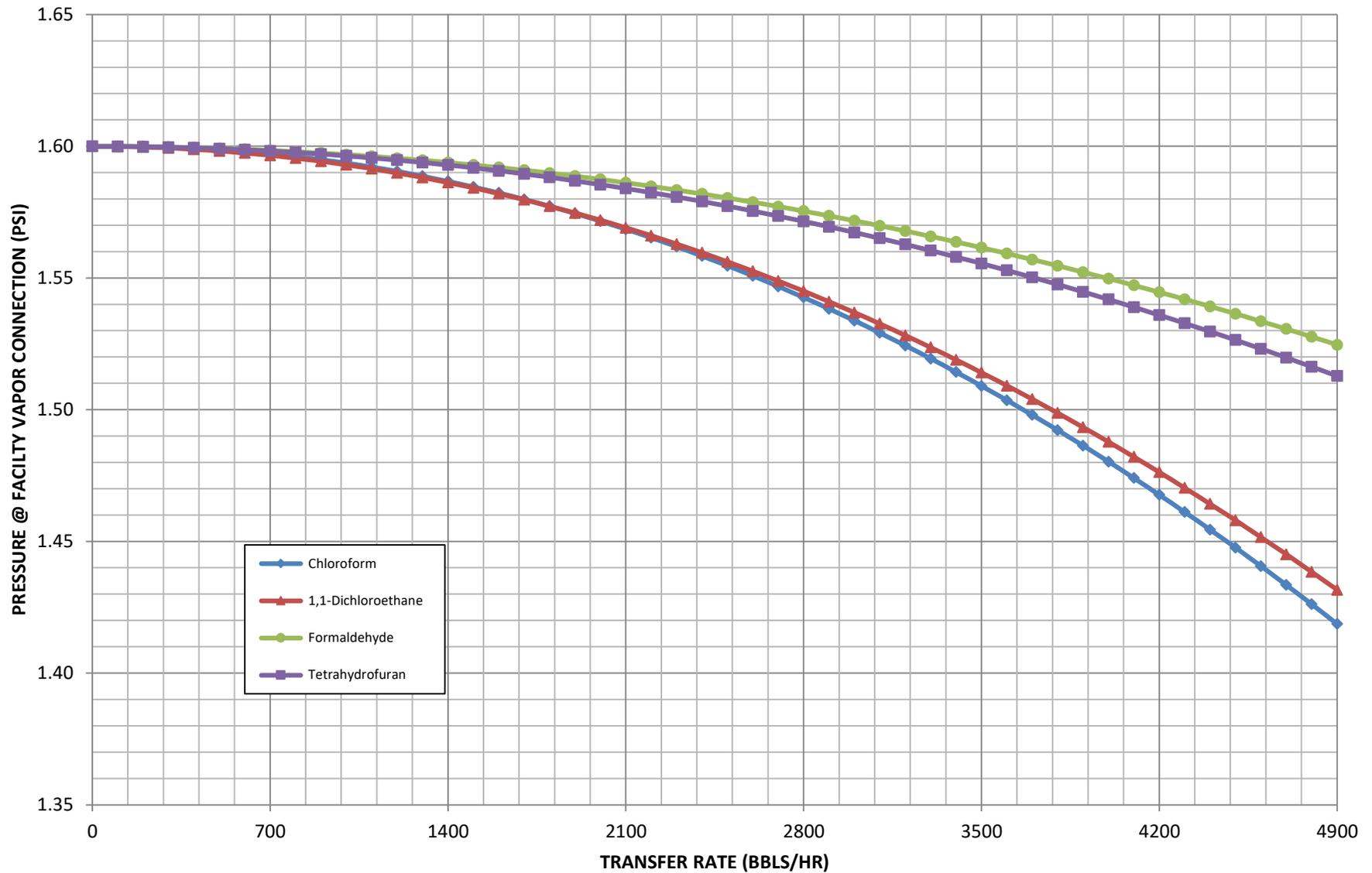
### LIQUID TRANSFER RATE vs PRESSURE DROP - SINGLE (FOR SUBCHAPTER "O" CARGOES)



## LIQUID TRANSFER RATE vs PRESSURE DROP - **TANDEM** (FOR SUBCHAPTER "O" CARGOES)



### LIQUID TRANSFER RATE vs PRESSURE DROP - **TANDEM** (FOR SUBCHAPTER "O" CARGOES)



# 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  
Barge CCL 420-T

#### 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 420-T 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 tanker man assigned shall be in charge and responsible for the safe transfer of cargo.

### **PARTS 4.                   PERSONS IN CHARGE**

The tanker man (person in charge) is responsible for transferring cargo and carrying out related operations on board in an efficient, safe, and pollution free manner. The tanker man whether employed by the towboat, owner, operator, a shore tanker man service, or Chem Carriers L.L.C., shall comply with all Coast Guard, State and local regulations. Tanker man'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 tanker man, 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 etc.
- E. Proper hose sizes, lengths, support, and connections.
- F. The condition of fire extinguishers and required number.
- G. The person in charge of transfer operations on the transferring vessel or facility and the person in charge of transferring operations on the receiving vessel or facility agree to begin the transfer operations.
- H. The transfer operation between tank barges and dock facilities should be lighted between sunset and sunrise to comply with the U. S. Coast Guard regulation pertaining to the displaying of lights on barges as required by Title 33.
- I. The PIC (PERSON IN CHARGE) will be responsible for the DOI (declaration of inspection) and DOS (declaration of security).
- J. Always maintain communications with dock or shore personnel with an agreed upon approved system.

**PARTS 5:                    EMERGENCY SHUTDOWN**

33 CFR 155.750 (a) (6)

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

- A. In the event of an emergency, transfer operations can be stopped by pulling the remote shutdown cable.
- B. Familiarize yourself with its location and operation prior to transfer.

**PARTS 6;    TOPPING OFF PROCEDURES**

33 CFR 155.750 (a) (7)

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

- A. The closing of one tank increases the rate of flow to other tanks on the same line.
- B. Always consider temperature and cargo in accordance with the amount of expansion that should be allowed.
- C. Always maintain communications with dock or shore personnel.
- D. A set of dipstick overfill devices have been installed on the CCL 418-L. Dipsticks can be made operational by releasing the covers or caps. Dipsticks should be used as a visual aid for overfill protection.

**PARTS 7:                    COMPLETION OF TRANSFER**

33 CFR 155.750 (a) (8)

Upon the completion of the transfer all pipelines should be drained into cargo tanks. The header valve used during the operation should 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 tanker man 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 Shipboard Oil Pollution Emergency Plan (SOPEP), Control Number 56041, for CCL 420-T (1348560), has been reviewed and found to be in compliance with the requirements of Regulation 37 of Annex I of the International Convention for the Prevention of Pollution from Ships (MARPOL 73/78).

This approval will remain valid until **March 21, 2030**. You must review your plan annually within one (1) month of the anniversary date of the plan's expiration date and submit a letter to this office certifying that the review has been completed. Any alteration or revision made to the plan, with the exception of those made to the appendices and non-mandatory provisions, must be submitted to this office for review and approval prior to the implementation of the revision. Further, the entire plan must be resubmitted to the Coast Guard for reapproval six (6) months before the end of the approval period of the plan.

I remind you that your plan is a vital working document and that implementing the plan will help ensure effective response and mitigation in the event of an oil pollution incident. Please be sure that all parties with responsibilities under the plan are familiar with the plan's procedures and requirements.

This letter shall be maintained onboard the vessel and placed in the front of the plan.

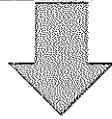
Sincerely,

A handwritten signature in blue ink that reads "Charron McCombs".

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

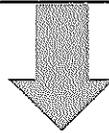
# VESSEL INCIDENT / ACCIDENT NOTIFICATION CHART

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



## Master Standing the Watch

Once the situation has been stabilized and all safety issues have been addressed, immediately contact the Chem Carriers Towing, LLC Emergency Hotline (225-642-0060)  
Any serious marine incident, or any incident that has the potential to become a serious marine incident, alcohol testing shall be conducted on all involved crewmembers within 2 hours, whether onboard the vessel or at a testing facility.



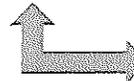
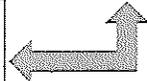
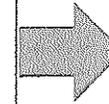
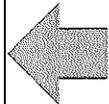
NATIONAL Response Center  
1-800-424-8802  
or  
1-202-267-2675  
MADANTORY for all pollution incidents on CCT equipment

Chem Carriers Towing, LLC  
Emergency Hotline  
↓  
Qualified Individual (QI)  
225-642-0060

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

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

Oil Spill Removal Organization  
Customer  
Internal  
Reference Emergency Response Guidelines for a Complete List of Required Notifications



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 420T"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>										
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
2 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
3 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
3 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-3/4"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 1/4"

LENGTH BETWEEN DRAFT MARKS: 245'-03"

November 12, 2024

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

<http://www.pmacorp.net>



# BARGE "CCL 420-T"

1 PORT

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	9.58	0	296.96	0	637.20	0	992.11	0	1,346.73	0	1,702.36	0	2,057.99	0	2,413.58	0	2,769.15	0	3,124.71
1/4	12.99	1/4	303.67	1/4	644.61	1/4	999.48	1/4	1,354.14	1/4	1,709.77	1/4	2,065.40	1/4	2,420.99	1/4	2,776.56	1/4	3,132.12
1/2	16.40	1/2	310.39	1/2	652.02	1/2	1,006.85	1/2	1,361.55	1/2	1,717.18	1/2	2,072.80	1/2	2,428.40	1/2	2,783.96	1/2	3,139.53
3/4	19.80	3/4	317.10	3/4	659.43	3/4	1,014.21	3/4	1,368.96	3/4	1,724.59	3/4	2,080.21	3/4	2,435.81	3/4	2,791.37	3/4	3,146.94
1	23.21	1	323.81	1	666.84	1	1,021.58	1	1,376.37	1	1,732.00	1	2,087.62	1	2,443.22	1	2,798.78	1	3,154.34
1/4	28.49	1/4	330.59	1/4	674.24	1/4	1,028.95	1/4	1,383.78	1/4	1,739.41	1/4	2,095.03	1/4	2,450.62	1/4	2,806.19	1/4	3,161.75
1/2	33.77	1/2	337.38	1/2	681.65	1/2	1,036.32	1/2	1,391.19	1/2	1,746.82	1/2	2,102.44	1/2	2,458.03	1/2	2,813.60	1/2	3,169.16
3/4	39.05	3/4	344.16	3/4	689.06	3/4	1,043.69	3/4	1,398.60	3/4	1,754.22	3/4	2,109.85	3/4	2,465.44	3/4	2,821.00	3/4	3,176.57
2	44.33	2	350.94	2	696.47	2	1,051.05	2	1,406.01	2	1,761.63	2	2,117.26	2	2,472.85	2	2,828.41	2	3,183.98
1/4	50.28	1/4	357.79	1/4	703.88	1/4	1,058.42	1/4	1,413.41	1/4	1,769.04	1/4	2,124.66	1/4	2,480.25	1/4	2,835.82	1/4	3,191.38
1/2	56.22	1/2	364.65	1/2	711.29	1/2	1,065.79	1/2	1,420.82	1/2	1,776.45	1/2	2,132.07	1/2	2,487.66	1/2	2,843.23	1/2	3,198.79
3/4	62.17	3/4	371.50	3/4	718.70	3/4	1,073.16	3/4	1,428.23	3/4	1,783.86	3/4	2,139.48	3/4	2,495.07	3/4	2,850.63	3/4	3,206.20
3	68.11	3	378.35	3	726.10	3	1,080.52	3	1,435.64	3	1,791.27	3	2,146.89	3	2,502.48	3	2,858.04	3	3,213.61
1/4	74.16	1/4	385.27	1/4	733.51	1/4	1,087.89	1/4	1,443.05	1/4	1,798.68	1/4	2,154.30	1/4	2,509.88	1/4	2,865.45	1/4	3,221.01
1/2	80.20	1/2	392.19	1/2	740.92	1/2	1,095.26	1/2	1,450.46	1/2	1,806.09	1/2	2,161.71	1/2	2,517.29	1/2	2,872.86	1/2	3,228.42
3/4	86.25	3/4	399.12	3/4	748.33	3/4	1,102.63	3/4	1,457.87	3/4	1,813.50	3/4	2,169.12	3/4	2,524.70	3/4	2,880.26	3/4	3,235.83
4	92.30	4	406.04	4	755.74	4	1,110.00	4	1,465.28	4	1,820.90	4	2,176.53	4	2,532.11	4	2,887.67	4	3,243.24
1/4	98.43	1/4	413.03	1/4	763.15	1/4	1,117.36	1/4	1,472.69	1/4	1,828.31	1/4	2,183.93	1/4	2,539.51	1/4	2,895.08	1/4	3,250.64
1/2	104.57	1/2	420.02	1/2	770.56	1/2	1,124.73	1/2	1,480.09	1/2	1,835.72	1/2	2,191.34	1/2	2,546.92	1/2	2,902.49	1/2	3,258.05
3/4	110.70	3/4	427.01	3/4	777.97	3/4	1,132.10	3/4	1,487.50	3/4	1,843.13	3/4	2,198.75	3/4	2,554.33	3/4	2,909.89	3/4	3,265.46
5	116.84	5	434.00	5	785.37	5	1,139.47	5	1,494.91	5	1,850.54	5	2,206.16	5	2,561.74	5	2,917.30	5	3,272.87
1/4	123.05	1/4	441.06	1/4	792.78	1/4	1,146.84	1/4	1,502.32	1/4	1,857.95	1/4	2,213.57	1/4	2,569.14	1/4	2,924.71	1/4	3,280.27
1/2	129.27	1/2	448.12	1/2	800.19	1/2	1,154.22	1/2	1,509.73	1/2	1,865.36	1/2	2,220.98	1/2	2,576.55	1/2	2,932.12	1/2	3,287.68
3/4	135.49	3/4	455.18	3/4	807.60	3/4	1,161.59	3/4	1,517.14	3/4	1,872.77	3/4	2,228.39	3/4	2,583.96	3/4	2,939.52	3/4	3,295.09
6	141.71	6	462.25	6	815.01	6	1,168.97	6	1,524.55	6	1,880.18	6	2,235.80	6	2,591.37	6	2,946.93	6	3,302.50
1/4	148.00	1/4	469.38	1/4	822.41	1/4	1,176.37	1/4	1,531.96	1/4	1,887.58	1/4	2,243.20	1/4	2,598.77	1/4	2,954.34	1/4	3,309.90
1/2	154.29	1/2	476.51	1/2	829.80	1/2	1,183.76	1/2	1,539.37	1/2	1,894.99	1/2	2,250.61	1/2	2,606.18	1/2	2,961.75	1/2	3,317.31
3/4	160.58	3/4	483.64	3/4	837.20	3/4	1,191.16	3/4	1,546.77	3/4	1,902.40	3/4	2,258.02	3/4	2,613.59	3/4	2,969.15	3/4	3,324.72
7	166.88	7	490.77	7	844.59	7	1,198.56	7	1,554.18	7	1,909.81	7	2,265.43	7	2,621.00	7	2,976.56	7	3,332.13
1/4	173.24	1/4	497.97	1/4	851.98	1/4	1,205.97	1/4	1,561.59	1/4	1,917.22	1/4	2,272.84	1/4	2,628.41	1/4	2,983.97	1/4	3,339.53
1/2	179.61	1/2	505.17	1/2	859.36	1/2	1,213.37	1/2	1,569.00	1/2	1,924.63	1/2	2,280.25	1/2	2,635.81	1/2	2,991.38	1/2	3,346.94
3/4	185.97	3/4	512.37	3/4	866.75	3/4	1,220.78	3/4	1,576.41	3/4	1,932.04	3/4	2,287.66	3/4	2,643.22	3/4	2,998.79	3/4	3,354.35
8	192.34	8	519.57	8	874.13	8	1,228.19	8	1,583.82	8	1,939.45	8	2,295.06	8	2,650.63	8	3,006.19	8	3,361.76
1/4	198.77	1/4	526.84	1/4	881.51	1/4	1,235.60	1/4	1,591.23	1/4	1,946.86	1/4	2,302.47	1/4	2,658.04	1/4	3,013.60	1/4	3,369.17
1/2	205.21	1/2	534.11	1/2	888.90	1/2	1,243.01	1/2	1,598.64	1/2	1,954.26	1/2	2,309.88	1/2	2,665.44	1/2	3,021.01	1/2	3,376.57
3/4	211.64	3/4	541.37	3/4	896.28	3/4	1,250.42	3/4	1,606.05	3/4	1,961.67	3/4	2,317.29	3/4	2,672.85	3/4	3,028.42	3/4	3,383.98
9	218.08	9	548.64	9	903.67	9	1,257.83	9	1,613.45	9	1,969.08	9	2,324.69	9	2,680.26	9	3,035.82	9	3,391.39
1/4	224.58	1/4	555.98	1/4	911.04	1/4	1,265.24	1/4	1,620.86	1/4	1,976.49	1/4	2,332.10	1/4	2,687.67	1/4	3,043.23	1/4	3,398.80
1/2	231.08	1/2	563.32	1/2	918.42	1/2	1,272.65	1/2	1,628.27	1/2	1,983.90	1/2	2,339.51	1/2	2,695.07	1/2	3,050.64	1/2	3,406.20
3/4	237.59	3/4	570.66	3/4	925.79	3/4	1,280.05	3/4	1,635.68	3/4	1,991.31	3/4	2,346.92	3/4	2,702.48	3/4	3,058.05	3/4	3,413.61
10	244.09	10	578.00	10	933.17	10	1,287.46	10	1,643.09	10	1,998.72	10	2,354.32	10	2,709.89	10	3,065.45	10	3,421.02
1/4	250.67	1/4	585.39	1/4	940.54	1/4	1,294.87	1/4	1,650.50	1/4	2,006.13	1/4	2,361.73	1/4	2,717.30	1/4	3,072.86	1/4	3,428.43
1/2	257.24	1/2	592.78	1/2	947.90	1/2	1,302.28	1/2	1,657.91	1/2	2,013.53	1/2	2,369.14	1/2	2,724.70	1/2	3,080.27	1/2	3,435.83
3/4	263.81	3/4	600.17	3/4	955.27	3/4	1,309.69	3/4	1,665.32	3/4	2,020.94	3/4	2,376.55	3/4	2,732.11	3/4	3,087.68	3/4	3,443.24
11	270.39	11	607.57	11	962.64	11	1,317.10	11	1,672.73	11	2,028.35	11	2,383.95	11	2,739.52	11	3,095.08	11	3,450.65
1/4	277.03	1/4	614.97	1/4	970.01	1/4	1,324.51	1/4	1,680.14	1/4	2,035.76	1/4	2,391.36	1/4	2,746.93	1/4	3,102.49	1/4	3,458.06
1/2	283.67	1/2	622.38	1/2	977.38	1/2	1,331.92	1/2	1,687.54	1/2	2,043.17	1/2	2,398.77	1/2	2,754.33	1/2	3,109.90	1/2	3,465.46
3/4	290.32	3/4	629.79	3/4	984.74	3/4	1,339.33	3/4	1,694.95	3/4	2,050.58	3/4	2,406.18	3/4	2,761.74	3/4	3,117.31	3/4	3,472.87

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,480.28	0	3,835.84	0	4,187.20	0	4,519.75	0		0		0		0		0		0	
1/4	3,487.69	1/4	3,843.25	1/4	4,194.32	1/4	4,526.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,495.09	1/2	3,850.66	1/2	4,201.43	1/2	4,533.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,502.50	3/4	3,858.07	3/4	4,208.55	3/4	4,539.87	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,509.91	1	3,865.47	1	4,215.66	1	4,546.57	1		1		1		1		1		1	
1/4	3,517.32	1/4	3,872.88	1/4	4,222.75	1/4	4,553.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,524.72	1/2	3,880.29	1/2	4,229.83	1/2	4,559.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,532.13	3/4	3,887.70	3/4	4,236.91	3/4	4,566.60	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,539.54	2	3,895.10	2	4,243.99	2	4,573.27	2		2		2		2		2		2	
1/4	3,546.95	1/4	3,902.51	1/4	4,251.04	1/4	4,579.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,554.36	1/2	3,909.92	1/2	4,258.08	1/2	4,586.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,561.76	3/4	3,917.33	3/4	4,265.13	3/4	4,593.17	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,569.17	3	3,924.74	3	4,272.18	3	4,599.81	3		3		3		3		3		3	
1/4	3,576.58	1/4	3,932.14	1/4	4,279.19	1/4	4,606.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,583.99	1/2	3,939.55	1/2	4,286.19	1/2	4,612.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,591.39	3/4	3,946.96	3/4	4,293.20	3/4	4,619.53	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,598.80	4	3,954.36	4	4,300.21	4	4,626.10	4		4		4		4		4		4	
1/4	3,606.21	1/4	3,961.76	1/4	4,307.19	1/4	4,632.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,613.62	1/2	3,969.16	1/2	4,314.17	1/2	4,639.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,621.02	3/4	3,976.55	3/4	4,321.14	3/4	4,645.66	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,628.43	5	3,983.95	5	4,328.12	5	4,652.17	5		5		5		5		5		5	
1/4	3,635.84	1/4	3,991.32	1/4	4,335.07	1/4	4,658.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,643.25	1/2	3,998.69	1/2	4,342.01	1/2	4,665.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,650.65	3/4	4,006.06	3/4	4,348.95	3/4	4,671.62	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,658.06	6	4,013.43	6	4,355.90	6	4,678.10	6		6		6		6		6		6	
1/4	3,665.47	1/4	4,020.77	1/4	4,362.81	1/4	4,684.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,672.88	1/2	4,028.11	1/2	4,369.72	1/2	4,690.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,680.28	3/4	4,035.45	3/4	4,376.63	3/4	4,697.44	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,687.69	7	4,042.78	7	4,383.54	7	4,703.89	7		7		7		7		7		7	
1/4	3,695.10	1/4	4,050.09	1/4	4,390.42	1/4	4,710.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,702.51	1/2	4,057.39	1/2	4,397.30	1/2	4,716.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.91	3/4	4,064.69	3/4	4,404.18	3/4	4,723.49	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,717.32	8	4,071.99	8	4,411.06	8	4,730.02	8		8		8		8		8		8	
1/4	3,724.73	1/4	4,079.25	1/4	4,417.90	1/4	4,736.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,732.14	1/2	4,086.51	1/2	4,424.75	1/2	4,743.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,739.55	3/4	4,093.76	3/4	4,431.60	3/4	4,749.59	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,746.95	9	4,101.02	9	4,438.44	9	4,756.11	9		9		9		9		9		9	
1/4	3,754.36	1/4	4,108.23	1/4	4,445.25	1/4	4,761.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,761.77	1/2	4,115.45	1/2	4,452.07	1/2	4,767.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,769.18	3/4	4,122.66	3/4	4,458.88	3/4	4,773.48	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,776.58	10	4,129.88	10	4,465.69	10	4,779.27	10		10		10		10		10		10	
1/4	3,783.99	1/4	4,137.06	1/4	4,472.46	1/4	4,783.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,791.40	1/2	4,144.24	1/2	4,479.24	1/2	4,788.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.81	3/4	4,151.42	3/4	4,486.01	3/4	4,792.94	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,806.21	11	4,158.60	11	4,492.79	11	4,797.50	11		11		11		11		11		11	
1/4	3,813.62	1/4	4,165.75	1/4	4,499.53	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,821.03	1/2	4,172.90	1/2	4,506.27	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,828.44	3/4	4,180.05	3/4	4,513.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

PRECISION MEASUREMENT  
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<http://www.omacorp.net>



# BARGE "CCL 420-T"

## 1 STBD

### INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	9.59	0	297.09	0	637.46	0	993.11	0	1,348.62	0	1,704.38	0	2,060.14	0	2,415.87	0	2,771.57	0	3,127.27
1/4	13.00	1/4	303.81	1/4	644.88	1/4	1,000.51	1/4	1,356.03	1/4	1,711.79	1/4	2,067.55	1/4	2,423.28	1/4	2,778.98	1/4	3,134.68
1/2	16.40	1/2	310.52	1/2	652.29	1/2	1,007.91	1/2	1,363.45	1/2	1,719.20	1/2	2,074.96	1/2	2,430.69	1/2	2,786.39	1/2	3,142.09
3/4	19.81	3/4	317.24	3/4	659.70	3/4	1,015.31	3/4	1,370.86	3/4	1,726.61	3/4	2,082.37	3/4	2,438.10	3/4	2,793.80	3/4	3,149.50
1	23.22	1	323.95	1	667.11	1	1,022.71	1	1,378.27	1	1,734.03	1	2,089.78	1	2,445.51	1	2,801.21	1	3,156.91
1/4	28.51	1/4	330.74	1/4	674.52	1/4	1,030.11	1/4	1,385.68	1/4	1,741.44	1/4	2,097.19	1/4	2,452.92	1/4	2,808.62	1/4	3,164.32
1/2	33.79	1/2	337.53	1/2	681.93	1/2	1,037.51	1/2	1,393.09	1/2	1,748.85	1/2	2,104.61	1/2	2,460.34	1/2	2,816.03	1/2	3,171.73
3/4	39.07	3/4	344.31	3/4	689.34	3/4	1,044.91	3/4	1,400.50	3/4	1,756.26	3/4	2,112.02	3/4	2,467.75	3/4	2,823.44	3/4	3,179.14
2	44.36	2	351.10	2	696.76	2	1,052.31	2	1,407.91	2	1,763.67	2	2,119.43	2	2,475.16	2	2,830.86	2	3,186.55
1/4	50.30	1/4	357.95	1/4	704.17	1/4	1,059.71	1/4	1,415.33	1/4	1,771.08	1/4	2,126.84	1/4	2,482.57	1/4	2,838.27	1/4	3,193.96
1/2	56.25	1/2	364.81	1/2	711.58	1/2	1,067.11	1/2	1,422.74	1/2	1,778.49	1/2	2,134.25	1/2	2,489.98	1/2	2,845.68	1/2	3,201.38
3/4	62.20	3/4	371.66	3/4	718.99	3/4	1,074.51	3/4	1,430.15	3/4	1,785.91	3/4	2,141.67	3/4	2,497.39	3/4	2,853.09	3/4	3,208.79
3	68.14	3	378.51	3	726.40	3	1,081.91	3	1,437.56	3	1,793.32	3	2,149.08	3	2,504.80	3	2,860.50	3	3,216.20
1/4	74.19	1/4	385.44	1/4	733.81	1/4	1,089.31	1/4	1,444.97	1/4	1,800.73	1/4	2,156.49	1/4	2,512.21	1/4	2,867.91	1/4	3,223.61
1/2	80.24	1/2	392.36	1/2	741.22	1/2	1,096.72	1/2	1,452.38	1/2	1,808.14	1/2	2,163.90	1/2	2,519.62	1/2	2,875.32	1/2	3,231.02
3/4	86.29	3/4	399.29	3/4	748.64	3/4	1,104.12	3/4	1,459.80	3/4	1,815.55	3/4	2,171.31	3/4	2,527.03	3/4	2,882.73	3/4	3,238.43
4	92.34	4	406.21	4	756.05	4	1,111.52	4	1,467.21	4	1,822.96	4	2,178.72	4	2,534.44	4	2,890.14	4	3,245.84
1/4	98.48	1/4	413.21	1/4	763.46	1/4	1,118.92	1/4	1,474.62	1/4	1,830.38	1/4	2,186.14	1/4	2,541.85	1/4	2,897.55	1/4	3,253.25
1/2	104.62	1/2	420.20	1/2	770.87	1/2	1,126.32	1/2	1,482.03	1/2	1,837.79	1/2	2,193.55	1/2	2,549.26	1/2	2,904.96	1/2	3,260.66
3/4	110.75	3/4	427.19	3/4	778.28	3/4	1,133.72	3/4	1,489.44	3/4	1,845.20	3/4	2,200.96	3/4	2,556.67	3/4	2,912.37	3/4	3,268.07
5	116.89	5	434.19	5	785.69	5	1,141.12	5	1,496.85	5	1,852.61	5	2,208.37	5	2,564.08	5	2,919.78	5	3,275.48
1/4	123.11	1/4	441.25	1/4	793.10	1/4	1,148.53	1/4	1,504.27	1/4	1,860.02	1/4	2,215.78	1/4	2,571.49	1/4	2,927.19	1/4	3,282.89
1/2	129.33	1/2	448.32	1/2	800.52	1/2	1,155.93	1/2	1,511.68	1/2	1,867.43	1/2	2,223.19	1/2	2,578.90	1/2	2,934.60	1/2	3,290.30
3/4	135.55	3/4	455.38	3/4	807.93	3/4	1,163.34	3/4	1,519.09	3/4	1,874.85	3/4	2,230.61	3/4	2,586.31	3/4	2,942.01	3/4	3,297.71
6	141.77	6	462.44	6	815.34	6	1,170.74	6	1,526.50	6	1,882.26	6	2,238.02	6	2,593.72	6	2,949.42	6	3,305.12
1/4	148.07	1/4	469.58	1/4	822.75	1/4	1,178.16	1/4	1,533.91	1/4	1,889.67	1/4	2,245.43	1/4	2,601.13	1/4	2,956.83	1/4	3,312.53
1/2	154.36	1/2	476.71	1/2	830.16	1/2	1,185.57	1/2	1,541.32	1/2	1,897.08	1/2	2,252.84	1/2	2,608.54	1/2	2,964.24	1/2	3,319.94
3/4	160.66	3/4	483.84	3/4	837.57	3/4	1,192.98	3/4	1,548.74	3/4	1,904.49	3/4	2,260.25	3/4	2,615.95	3/4	2,971.65	3/4	3,327.35
7	166.95	7	490.98	7	844.98	7	1,200.39	7	1,556.15	7	1,911.90	7	2,267.66	7	2,623.36	7	2,979.06	7	3,334.76
1/4	173.32	1/4	498.18	1/4	852.39	1/4	1,207.80	1/4	1,563.56	1/4	1,919.32	1/4	2,275.07	1/4	2,630.77	1/4	2,986.47	1/4	3,342.17
1/2	179.69	1/2	505.38	1/2	859.81	1/2	1,215.21	1/2	1,570.97	1/2	1,926.73	1/2	2,282.49	1/2	2,638.18	1/2	2,993.88	1/2	3,349.58
3/4	186.06	3/4	512.58	3/4	867.22	3/4	1,222.62	3/4	1,578.38	3/4	1,934.14	3/4	2,289.90	3/4	2,645.60	3/4	3,001.29	3/4	3,356.99
8	192.42	8	519.79	8	874.63	8	1,230.04	8	1,585.79	8	1,941.55	8	2,297.31	8	2,653.01	8	3,008.70	8	3,364.40
1/4	198.86	1/4	527.06	1/4	882.04	1/4	1,237.45	1/4	1,593.20	1/4	1,948.96	1/4	2,304.72	1/4	2,660.42	1/4	3,016.12	1/4	3,371.81
1/2	205.30	1/2	534.33	1/2	889.45	1/2	1,244.86	1/2	1,600.62	1/2	1,956.37	1/2	2,312.13	1/2	2,667.83	1/2	3,023.53	1/2	3,379.22
3/4	211.74	3/4	541.60	3/4	896.86	3/4	1,252.27	3/4	1,608.03	3/4	1,963.78	3/4	2,319.54	3/4	2,675.24	3/4	3,030.94	3/4	3,386.64
9	218.17	9	548.88	9	904.27	9	1,259.68	9	1,615.44	9	1,971.20	9	2,326.95	9	2,682.65	9	3,038.35	9	3,394.05
1/4	224.68	1/4	556.22	1/4	911.68	1/4	1,267.09	1/4	1,622.85	1/4	1,978.61	1/4	2,334.36	1/4	2,690.06	1/4	3,045.76	1/4	3,401.46
1/2	231.19	1/2	563.56	1/2	919.09	1/2	1,274.51	1/2	1,630.26	1/2	1,986.02	1/2	2,341.77	1/2	2,697.47	1/2	3,053.17	1/2	3,408.87
3/4	237.69	3/4	570.90	3/4	926.49	3/4	1,281.92	3/4	1,637.67	3/4	1,993.43	3/4	2,349.18	3/4	2,704.88	3/4	3,060.58	3/4	3,416.28
10	244.20	10	578.24	10	933.90	10	1,289.33	10	1,645.09	10	2,000.84	10	2,356.59	10	2,712.29	10	3,067.99	10	3,423.69
1/4	250.78	1/4	585.64	1/4	941.30	1/4	1,296.74	1/4	1,652.50	1/4	2,008.25	1/4	2,364.00	1/4	2,719.70	1/4	3,075.40	1/4	3,431.10
1/2	257.35	1/2	593.03	1/2	948.70	1/2	1,304.15	1/2	1,659.91	1/2	2,015.67	1/2	2,371.41	1/2	2,727.11	1/2	3,082.81	1/2	3,438.51
3/4	263.93	3/4	600.42	3/4	956.10	3/4	1,311.56	3/4	1,667.32	3/4	2,023.08	3/4	2,378.82	3/4	2,734.52	3/4	3,090.22	3/4	3,445.92
11	270.51	11	607.82	11	963.50	11	1,318.98	11	1,674.73	11	2,030.49	11	2,386.23	11	2,741.93	11	3,097.63	11	3,453.33
1/4	277.15	1/4	615.23	1/4	970.90	1/4	1,326.39	1/4	1,682.14	1/4	2,037.90	1/4	2,393.64	1/4	2,749.34	1/4	3,105.04	1/4	3,460.74
1/2	283.80	1/2	622.64	1/2	978.30	1/2	1,333.80	1/2	1,689.56	1/2	2,045.31	1/2	2,401.05	1/2	2,756.75	1/2	3,112.45	1/2	3,468.15
3/4	290.45	3/4	630.05	3/4	985.70	3/4	1,341.21	3/4	1,696.97	3/4	2,052.72	3/4	2,408.46	3/4	2,764.16	3/4	3,119.86	3/4	3,475.56

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,482.97	0	3,838.67	0	4,190.15	0	4,522.83	0		0		0		0		0		0	
1/4	3,490.38	1/4	3,846.08	1/4	4,197.27	1/4	4,529.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,497.79	1/2	3,853.49	1/2	4,204.39	1/2	4,536.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,505.20	3/4	3,860.90	3/4	4,211.51	3/4	4,542.96	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,512.61	1	3,868.31	1	4,218.63	1	4,549.67	1		1		1		1		1		1	
1/4	3,520.02	1/4	3,875.72	1/4	4,225.71	1/4	4,556.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,527.43	1/2	3,883.13	1/2	4,232.80	1/2	4,563.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,534.84	3/4	3,890.54	3/4	4,239.88	3/4	4,569.70	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,542.25	2	3,897.95	2	4,246.97	2	4,576.38	2		2		2		2		2		2	
1/4	3,549.66	1/4	3,905.36	1/4	4,254.01	1/4	4,583.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,557.07	1/2	3,912.77	1/2	4,261.06	1/2	4,589.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,564.48	3/4	3,920.18	3/4	4,268.11	3/4	4,596.29	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,571.90	3	3,927.59	3	4,275.16	3	4,602.92	3		3		3		3		3		3	
1/4	3,579.31	1/4	3,935.00	1/4	4,282.17	1/4	4,609.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,586.72	1/2	3,942.41	1/2	4,289.18	1/2	4,616.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,594.13	3/4	3,949.82	3/4	4,296.20	3/4	4,622.65	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,601.54	4	3,957.23	4	4,303.21	4	4,629.23	4		4		4		4		4		4	
1/4	3,608.95	1/4	3,964.63	1/4	4,310.19	1/4	4,635.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,616.36	1/2	3,972.02	1/2	4,317.17	1/2	4,642.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,623.77	3/4	3,979.42	3/4	4,324.15	3/4	4,648.79	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,631.18	5	3,986.82	5	4,331.13	5	4,655.31	5		5		5		5		5		5	
1/4	3,638.59	1/4	3,994.20	1/4	4,338.07	1/4	4,661.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.00	1/2	4,001.57	1/2	4,345.02	1/2	4,668.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,653.41	3/4	4,008.94	3/4	4,351.97	3/4	4,674.77	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,660.82	6	4,016.32	6	4,358.92	6	4,681.25	6		6		6		6		6		6	
1/4	3,668.23	1/4	4,023.66	1/4	4,365.83	1/4	4,687.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,675.64	1/2	4,031.00	1/2	4,372.74	1/2	4,694.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.05	3/4	4,038.34	3/4	4,379.66	3/4	4,700.60	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,690.46	7	4,045.68	7	4,386.57	7	4,707.05	7		7		7		7		7		7	
1/4	3,697.87	1/4	4,052.99	1/4	4,393.45	1/4	4,713.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,705.28	1/2	4,060.29	1/2	4,400.33	1/2	4,720.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,712.69	3/4	4,067.60	3/4	4,407.22	3/4	4,726.66	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,720.10	8	4,074.90	8	4,414.10	8	4,733.19	8		8		8		8		8		8	
1/4	3,727.51	1/4	4,082.16	1/4	4,420.95	1/4	4,739.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,734.92	1/2	4,089.42	1/2	4,427.79	1/2	4,746.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,742.33	3/4	4,096.68	3/4	4,434.64	3/4	4,752.77	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,749.74	9	4,103.94	9	4,441.49	9	4,759.29	9		9		9		9		9		9	
1/4	3,757.16	1/4	4,111.16	1/4	4,448.31	1/4	4,765.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,764.57	1/2	4,118.37	1/2	4,455.12	1/2	4,770.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,771.98	3/4	4,125.59	3/4	4,461.94	3/4	4,776.67	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,779.39	10	4,132.81	10	4,468.75	10	4,782.47	10		10		10		10		10		10	
1/4	3,786.80	1/4	4,139.99	1/4	4,475.53	1/4	4,787.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,794.21	1/2	4,147.18	1/2	4,482.31	1/2	4,791.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,801.62	3/4	4,154.36	3/4	4,489.09	3/4	4,796.14	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,809.03	11	4,161.54	11	4,495.86	11	4,800.70	11		11		11		11		11		11	
1/4	3,816.44	1/4	4,168.70	1/4	4,502.61	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,823.85	1/2	4,175.85	1/2	4,509.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,831.26	3/4	4,183.00	3/4	4,516.09	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

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



# BARGE "CCL 420-T"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-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	13.85	0	387.88	0	776.25	0	1,157.73	0	1,537.79	0	1,926.17	0	2,314.56	0	2,702.91	0	3,091.23	0	3,479.55
1/4	19.24	1/4	395.97	1/4	784.34	1/4	1,165.49	1/4	1,545.88	1/4	1,934.26	1/4	2,322.65	1/4	2,711.00	1/4	3,099.32	1/4	3,487.64
1/2	24.64	1/2	404.06	1/2	792.43	1/2	1,173.26	1/2	1,553.97	1/2	1,942.36	1/2	2,330.74	1/2	2,719.09	1/2	3,107.41	1/2	3,495.73
3/4	30.03	3/4	412.15	3/4	800.52	3/4	1,181.03	3/4	1,562.06	3/4	1,950.45	3/4	2,338.83	3/4	2,727.18	3/4	3,115.50	3/4	3,503.82
1	35.42	1	420.24	1	808.62	1	1,188.80	1	1,570.16	1	1,958.54	1	2,346.92	1	2,735.27	1	3,123.59	1	3,511.91
1/4	42.78	1/4	428.33	1/4	816.71	1/4	1,196.57	1/4	1,578.25	1/4	1,966.63	1/4	2,355.01	1/4	2,743.36	1/4	3,131.68	1/4	3,520.00
1/2	50.15	1/2	436.42	1/2	824.80	1/2	1,204.34	1/2	1,586.34	1/2	1,974.72	1/2	2,363.10	1/2	2,751.45	1/2	3,139.77	1/2	3,528.09
3/4	57.51	3/4	444.52	3/4	832.89	3/4	1,212.11	3/4	1,594.43	3/4	1,982.81	3/4	2,371.19	3/4	2,759.54	3/4	3,147.86	3/4	3,536.18
2	64.87	2	452.61	2	840.98	2	1,219.88	2	1,602.52	2	1,990.90	2	2,379.29	2	2,767.63	2	3,155.95	2	3,544.27
1/4	72.88	1/4	460.70	1/4	849.07	1/4	1,227.65	1/4	1,610.61	1/4	1,998.99	1/4	2,387.38	1/4	2,775.72	1/4	3,164.04	1/4	3,552.36
1/2	80.90	1/2	468.79	1/2	857.16	1/2	1,235.41	1/2	1,618.70	1/2	2,007.09	1/2	2,395.47	1/2	2,783.81	1/2	3,172.13	1/2	3,560.45
3/4	88.91	3/4	476.88	3/4	865.25	3/4	1,243.18	3/4	1,626.79	3/4	2,015.18	3/4	2,403.56	3/4	2,791.90	3/4	3,180.22	3/4	3,568.54
3	96.92	3	484.97	3	873.34	3	1,250.95	3	1,634.89	3	2,023.27	3	2,411.65	3	2,799.99	3	3,188.31	3	3,576.63
1/4	104.97	1/4	493.06	1/4	881.44	1/4	1,258.72	1/4	1,642.98	1/4	2,031.36	1/4	2,419.74	1/4	2,808.08	1/4	3,196.40	1/4	3,584.72
1/2	113.01	1/2	501.15	1/2	889.53	1/2	1,266.49	1/2	1,651.07	1/2	2,039.45	1/2	2,427.83	1/2	2,816.17	1/2	3,204.49	1/2	3,592.81
3/4	121.06	3/4	509.24	3/4	897.62	3/4	1,274.26	3/4	1,659.16	3/4	2,047.54	3/4	2,435.92	3/4	2,824.26	3/4	3,212.58	3/4	3,600.90
4	129.11	4	517.34	4	905.71	4	1,282.03	4	1,667.25	4	2,055.63	4	2,444.02	4	2,832.35	4	3,220.67	4	3,608.99
1/4	137.17	1/4	525.43	1/4	913.80	1/4	1,289.80	1/4	1,675.34	1/4	2,063.72	1/4	2,452.11	1/4	2,840.44	1/4	3,228.76	1/4	3,617.08
1/2	145.24	1/2	533.52	1/2	921.89	1/2	1,297.57	1/2	1,683.43	1/2	2,071.82	1/2	2,460.20	1/2	2,848.53	1/2	3,236.85	1/2	3,625.17
3/4	153.31	3/4	541.61	3/4	929.98	3/4	1,305.33	3/4	1,691.53	3/4	2,079.91	3/4	2,468.29	3/4	2,856.62	3/4	3,244.94	3/4	3,633.26
5	161.38	5	549.70	5	938.07	5	1,313.10	5	1,699.62	5	2,088.00	5	2,476.38	5	2,864.71	5	3,253.03	5	3,641.35
1/4	169.46	1/4	557.79	1/4	946.16	1/4	1,320.88	1/4	1,707.71	1/4	2,096.09	1/4	2,484.47	1/4	2,872.80	1/4	3,261.12	1/4	3,649.44
1/2	177.54	1/2	565.88	1/2	954.25	1/2	1,328.66	1/2	1,715.80	1/2	2,104.18	1/2	2,492.56	1/2	2,880.89	1/2	3,269.21	1/2	3,657.53
3/4	185.62	3/4	573.97	3/4	962.35	3/4	1,336.43	3/4	1,723.89	3/4	2,112.27	3/4	2,500.66	3/4	2,888.98	3/4	3,277.30	3/4	3,665.62
6	193.70	6	582.06	6	970.44	6	1,344.21	6	1,731.98	6	2,120.36	6	2,508.75	6	2,897.07	6	3,285.39	6	3,673.71
1/4	201.79	1/4	590.16	1/4	978.37	1/4	1,352.15	1/4	1,740.07	1/4	2,128.46	1/4	2,516.84	1/4	2,905.16	1/4	3,293.48	1/4	3,681.80
1/2	209.88	1/2	598.25	1/2	986.31	1/2	1,360.09	1/2	1,748.16	1/2	2,136.55	1/2	2,524.93	1/2	2,913.25	1/2	3,301.57	1/2	3,689.89
3/4	217.97	3/4	606.34	3/4	994.25	3/4	1,368.03	3/4	1,756.26	3/4	2,144.64	3/4	2,533.02	3/4	2,921.34	3/4	3,309.66	3/4	3,697.98
7	226.06	7	614.43	7	1,002.19	7	1,375.96	7	1,764.35	7	2,152.73	7	2,541.11	7	2,929.43	7	3,317.75	7	3,706.07
1/4	234.15	1/4	622.52	1/4	1,009.97	1/4	1,384.06	1/4	1,772.44	1/4	2,160.82	1/4	2,549.20	1/4	2,937.52	1/4	3,325.84	1/4	3,714.16
1/2	242.24	1/2	630.61	1/2	1,017.76	1/2	1,392.15	1/2	1,780.53	1/2	2,168.91	1/2	2,557.29	1/2	2,945.61	1/2	3,333.93	1/2	3,722.25
3/4	250.33	3/4	638.70	3/4	1,025.54	3/4	1,400.24	3/4	1,788.62	3/4	2,177.00	3/4	2,565.38	3/4	2,953.70	3/4	3,342.02	3/4	3,730.34
8	258.42	8	646.79	8	1,033.33	8	1,408.33	8	1,796.71	8	2,185.09	8	2,573.47	8	2,961.79	8	3,350.11	8	3,738.43
1/4	266.51	1/4	654.88	1/4	1,041.11	1/4	1,416.42	1/4	1,804.80	1/4	2,193.19	1/4	2,581.56	1/4	2,969.88	1/4	3,358.20	1/4	3,746.52
1/2	274.60	1/2	662.98	1/2	1,048.90	1/2	1,424.51	1/2	1,812.89	1/2	2,201.28	1/2	2,589.65	1/2	2,977.97	1/2	3,366.29	1/2	3,754.61
3/4	282.69	3/4	671.07	3/4	1,056.68	3/4	1,432.60	3/4	1,820.99	3/4	2,209.37	3/4	2,597.74	3/4	2,986.06	3/4	3,374.38	3/4	3,762.70
9	290.78	9	679.16	9	1,064.47	9	1,440.69	9	1,829.08	9	2,217.46	9	2,605.83	9	2,994.15	9	3,382.47	9	3,770.79
1/4	298.88	1/4	687.25	1/4	1,072.24	1/4	1,448.79	1/4	1,837.17	1/4	2,225.55	1/4	2,613.92	1/4	3,002.24	1/4	3,390.56	1/4	3,778.88
1/2	306.97	1/2	695.34	1/2	1,080.02	1/2	1,456.88	1/2	1,845.26	1/2	2,233.64	1/2	2,622.01	1/2	3,010.33	1/2	3,398.65	1/2	3,786.97
3/4	315.06	3/4	703.43	3/4	1,087.80	3/4	1,464.97	3/4	1,853.35	3/4	2,241.73	3/4	2,630.10	3/4	3,018.42	3/4	3,406.74	3/4	3,795.06
10	323.15	10	711.52	10	1,095.57	10	1,473.06	10	1,861.44	10	2,249.82	10	2,638.19	10	3,026.51	10	3,414.83	10	3,803.15
1/4	331.24	1/4	719.61	1/4	1,103.34	1/4	1,481.15	1/4	1,869.53	1/4	2,257.92	1/4	2,646.28	1/4	3,034.60	1/4	3,422.92	1/4	3,811.24
1/2	339.33	1/2	727.70	1/2	1,111.11	1/2	1,489.24	1/2	1,877.63	1/2	2,266.01	1/2	2,654.37	1/2	3,042.69	1/2	3,431.01	1/2	3,819.33
3/4	347.42	3/4	735.80	3/4	1,118.88	3/4	1,497.33	3/4	1,885.72	3/4	2,274.10	3/4	2,662.46	3/4	3,050.78	3/4	3,439.10	3/4	3,827.42
11	355.51	11	743.89	11	1,126.65	11	1,505.43	11	1,893.81	11	2,282.19	11	2,670.55	11	3,058.87	11	3,447.19	11	3,835.51
1/4	363.60	1/4	751.98	1/4	1,134.42	1/4	1,513.52	1/4	1,901.90	1/4	2,290.28	1/4	2,678.64	1/4	3,066.96	1/4	3,455.28	1/4	3,843.60
1/2	371.70	1/2	760.07	1/2	1,142.19	1/2	1,521.61	1/2	1,909.99	1/2	2,298.37	1/2	2,686.73	1/2	3,075.05	1/2	3,463.37	1/2	3,851.69
3/4	379.79	3/4	768.16	3/4	1,149.96	3/4	1,529.70	3/4	1,918.08	3/4	2,306.46	3/4	2,694.82	3/4	3,083.14	3/4	3,471.46	3/4	3,859.78

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-10 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	3,867.87	0	4,256.19	0	4,639.93	0	5,003.17	0		0		0		0		0		0	
1/4	3,875.96	1/4	4,264.28	1/4	4,647.70	1/4	5,010.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,884.05	1/2	4,272.37	1/2	4,655.47	1/2	5,017.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,892.14	3/4	4,280.46	3/4	4,663.24	3/4	5,025.15	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,900.23	1	4,288.55	1	4,671.02	1	5,032.47	1		1		1		1		1		1	
1/4	3,908.32	1/4	4,296.64	1/4	4,678.75	1/4	5,039.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,916.41	1/2	4,304.73	1/2	4,686.49	1/2	5,047.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,924.50	3/4	4,312.82	3/4	4,694.22	3/4	5,054.34	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,932.59	2	4,320.91	2	4,701.96	2	5,061.63	2		2		2		2		2		2	
1/4	3,940.68	1/4	4,329.00	1/4	4,709.66	1/4	5,068.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,948.77	1/2	4,337.09	1/2	4,717.35	1/2	5,076.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,956.86	3/4	4,345.18	3/4	4,725.05	3/4	5,083.38	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,964.95	3	4,353.27	3	4,732.74	3	5,090.62	3		3		3		3		3		3	
1/4	3,973.04	1/4	4,361.36	1/4	4,740.40	1/4	5,097.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,981.13	1/2	4,369.45	1/2	4,748.06	1/2	5,104.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,989.22	3/4	4,377.54	3/4	4,755.71	3/4	5,112.17	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,997.31	4	4,385.63	4	4,763.37	4	5,119.35	4		4		4		4		4		4	
1/4	4,005.40	1/4	4,393.71	1/4	4,770.99	1/4	5,126.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,013.49	1/2	4,401.79	1/2	4,778.61	1/2	5,133.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,021.58	3/4	4,409.86	3/4	4,786.23	3/4	5,140.71	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,029.67	5	4,417.94	5	4,793.85	5	5,147.83	5		5		5		5		5		5	
1/4	4,037.76	1/4	4,425.99	1/4	4,801.44	1/4	5,154.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,045.85	1/2	4,434.04	1/2	4,809.02	1/2	5,162.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,053.94	3/4	4,442.09	3/4	4,816.61	3/4	5,169.08	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,062.03	6	4,450.14	6	4,824.19	6	5,176.16	6		6		6		6		6		6	
1/4	4,070.12	1/4	4,458.16	1/4	4,831.74	1/4	5,183.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,078.21	1/2	4,466.17	1/2	4,839.29	1/2	5,190.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,086.30	3/4	4,474.18	3/4	4,846.84	3/4	5,197.29	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,094.39	7	4,482.20	7	4,854.39	7	5,204.33	7		7		7		7		7		7	
1/4	4,102.48	1/4	4,490.17	1/4	4,861.90	1/4	5,211.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,110.57	1/2	4,498.15	1/2	4,869.41	1/2	5,218.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,118.66	3/4	4,506.12	3/4	4,876.93	3/4	5,225.74	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,126.75	8	4,514.10	8	4,884.44	8	5,232.88	8		8		8		8		8		8	
1/4	4,134.84	1/4	4,522.03	1/4	4,891.92	1/4	5,240.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,142.93	1/2	4,529.95	1/2	4,899.40	1/2	5,247.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,151.02	3/4	4,537.88	3/4	4,906.88	3/4	5,254.25	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,159.11	9	4,545.80	9	4,914.35	9	5,261.38	9		9		9		9		9		9	
1/4	4,167.20	1/4	4,553.68	1/4	4,921.79	1/4	5,267.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,175.29	1/2	4,561.56	1/2	4,929.24	1/2	5,274.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,183.38	3/4	4,569.44	3/4	4,936.68	3/4	5,280.35	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,191.47	10	4,577.32	10	4,944.12	10	5,286.68	10		10		10		10		10		10	
1/4	4,199.56	1/4	4,585.16	1/4	4,951.52	1/4	5,291.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,207.65	1/2	4,593.01	1/2	4,958.92	1/2	5,296.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,215.74	3/4	4,600.85	3/4	4,966.32	3/4	5,301.61	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,223.83	11	4,608.69	11	4,973.72	11	5,306.58	11		11		11		11		11		11	
1/4	4,231.92	1/4	4,616.50	1/4	4,981.08	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,240.01	1/2	4,624.31	1/2	4,988.44	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,248.10	3/4	4,632.12	3/4	4,995.81	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

PRECISION MEASUREMENT  
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<http://www.omacorp.net>



# BARGE "CCL 420-T"

## 2 STBD

### INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	13.85	0	387.79	0	776.07	0	1,164.34	0	1,552.62	0	1,940.91	0	2,329.20	0	2,717.47	0	3,105.71	0	3,493.94
1/4	19.24	1/4	395.88	1/4	784.16	1/4	1,172.43	1/4	1,560.71	1/4	1,949.00	1/4	2,337.29	1/4	2,725.56	1/4	3,113.79	1/4	3,502.03
1/2	24.63	1/2	403.97	1/2	792.25	1/2	1,180.52	1/2	1,568.80	1/2	1,957.09	1/2	2,345.38	1/2	2,733.65	1/2	3,121.88	1/2	3,510.12
3/4	30.02	3/4	412.06	3/4	800.34	3/4	1,188.61	3/4	1,576.89	3/4	1,965.18	3/4	2,353.47	3/4	2,741.74	3/4	3,129.97	3/4	3,518.20
1	35.41	1	420.15	1	808.43	1	1,196.70	1	1,584.98	1	1,973.27	1	2,361.56	1	2,749.82	1	3,138.06	1	3,526.29
1/4	42.77	1/4	428.23	1/4	816.52	1/4	1,204.79	1/4	1,593.07	1/4	1,981.36	1/4	2,369.65	1/4	2,757.91	1/4	3,146.15	1/4	3,534.38
1/2	50.13	1/2	436.32	1/2	824.61	1/2	1,212.88	1/2	1,601.15	1/2	1,989.45	1/2	2,377.74	1/2	2,766.00	1/2	3,154.23	1/2	3,542.47
3/4	57.50	3/4	444.41	3/4	832.69	3/4	1,220.97	3/4	1,609.24	3/4	1,997.54	3/4	2,385.83	3/4	2,774.09	3/4	3,162.32	3/4	3,550.56
2	64.86	2	452.50	2	840.78	2	1,229.05	2	1,617.33	2	2,005.62	2	2,393.92	2	2,782.18	2	3,170.41	2	3,558.64
1/4	72.87	1/4	460.59	1/4	848.87	1/4	1,237.14	1/4	1,625.42	1/4	2,013.71	1/4	2,402.01	1/4	2,790.27	1/4	3,178.50	1/4	3,566.73
1/2	80.88	1/2	468.68	1/2	856.96	1/2	1,245.23	1/2	1,633.51	1/2	2,021.80	1/2	2,410.09	1/2	2,798.35	1/2	3,186.59	1/2	3,574.82
3/4	88.89	3/4	476.77	3/4	865.05	3/4	1,253.32	3/4	1,641.60	3/4	2,029.89	3/4	2,418.18	3/4	2,806.44	3/4	3,194.68	3/4	3,582.91
3	96.90	3	484.86	3	873.14	3	1,261.41	3	1,649.69	3	2,037.98	3	2,426.27	3	2,814.53	3	3,202.76	3	3,591.00
1/4	104.94	1/4	492.95	1/4	881.23	1/4	1,269.50	1/4	1,657.78	1/4	2,046.07	1/4	2,434.36	1/4	2,822.62	1/4	3,210.85	1/4	3,599.09
1/2	112.99	1/2	501.04	1/2	889.32	1/2	1,277.59	1/2	1,665.87	1/2	2,054.16	1/2	2,442.45	1/2	2,830.71	1/2	3,218.94	1/2	3,607.17
3/4	121.03	3/4	509.13	3/4	897.41	3/4	1,285.67	3/4	1,673.96	3/4	2,062.25	3/4	2,450.54	3/4	2,838.79	3/4	3,227.03	3/4	3,615.26
4	129.08	4	517.22	4	905.50	4	1,293.76	4	1,682.05	4	2,070.34	4	2,458.63	4	2,846.88	4	3,235.12	4	3,623.35
1/4	137.14	1/4	525.30	1/4	913.59	1/4	1,301.85	1/4	1,690.14	1/4	2,078.43	1/4	2,466.72	1/4	2,854.97	1/4	3,243.20	1/4	3,631.44
1/2	145.21	1/2	533.39	1/2	921.68	1/2	1,309.94	1/2	1,698.23	1/2	2,086.52	1/2	2,474.81	1/2	2,863.06	1/2	3,251.29	1/2	3,639.53
3/4	153.28	3/4	541.48	3/4	929.76	3/4	1,318.03	3/4	1,706.32	3/4	2,094.61	3/4	2,482.90	3/4	2,871.15	3/4	3,259.38	3/4	3,647.61
5	161.34	5	549.57	5	937.85	5	1,326.12	5	1,714.41	5	2,102.70	5	2,490.99	5	2,879.24	5	3,267.47	5	3,655.70
1/4	169.42	1/4	557.66	1/4	945.94	1/4	1,334.21	1/4	1,722.50	1/4	2,110.79	1/4	2,499.08	1/4	2,887.32	1/4	3,275.56	1/4	3,663.79
1/2	177.50	1/2	565.75	1/2	954.03	1/2	1,342.29	1/2	1,730.59	1/2	2,118.88	1/2	2,507.17	1/2	2,895.41	1/2	3,283.65	1/2	3,671.88
3/4	185.58	3/4	573.84	3/4	962.12	3/4	1,350.38	3/4	1,738.67	3/4	2,126.97	3/4	2,515.26	3/4	2,903.50	3/4	3,291.73	3/4	3,679.97
6	193.66	6	581.93	6	970.21	6	1,358.47	6	1,746.76	6	2,135.06	6	2,523.35	6	2,911.59	6	3,299.82	6	3,688.06
1/4	201.75	1/4	590.02	1/4	978.30	1/4	1,366.56	1/4	1,754.85	1/4	2,143.14	1/4	2,531.44	1/4	2,919.68	1/4	3,307.91	1/4	3,696.14
1/2	209.83	1/2	598.11	1/2	986.39	1/2	1,374.65	1/2	1,762.94	1/2	2,151.23	1/2	2,539.53	1/2	2,927.76	1/2	3,316.00	1/2	3,704.23
3/4	217.92	3/4	606.20	3/4	994.48	3/4	1,382.74	3/4	1,771.03	3/4	2,159.32	3/4	2,547.61	3/4	2,935.85	3/4	3,324.09	3/4	3,712.32
7	226.01	7	614.29	7	1,002.57	7	1,390.83	7	1,779.12	7	2,167.41	7	2,555.70	7	2,943.94	7	3,332.17	7	3,720.41
1/4	234.09	1/4	622.38	1/4	1,010.66	1/4	1,398.92	1/4	1,787.21	1/4	2,175.50	1/4	2,563.79	1/4	2,952.03	1/4	3,340.26	1/4	3,728.50
1/2	242.18	1/2	630.46	1/2	1,018.75	1/2	1,407.01	1/2	1,795.30	1/2	2,183.59	1/2	2,571.88	1/2	2,960.12	1/2	3,348.35	1/2	3,736.58
3/4	250.27	3/4	638.55	3/4	1,026.84	3/4	1,415.10	3/4	1,803.39	3/4	2,191.68	3/4	2,579.97	3/4	2,968.21	3/4	3,356.44	3/4	3,744.67
8	258.36	8	646.64	8	1,034.92	8	1,423.19	8	1,811.48	8	2,199.77	8	2,588.06	8	2,976.29	8	3,364.53	8	3,752.76
1/4	266.45	1/4	654.73	1/4	1,043.01	1/4	1,431.28	1/4	1,819.57	1/4	2,207.86	1/4	2,596.15	1/4	2,984.38	1/4	3,372.62	1/4	3,760.85
1/2	274.54	1/2	662.82	1/2	1,051.10	1/2	1,439.37	1/2	1,827.66	1/2	2,215.95	1/2	2,604.24	1/2	2,992.47	1/2	3,380.70	1/2	3,768.94
3/4	282.63	3/4	670.91	3/4	1,059.19	3/4	1,447.46	3/4	1,835.75	3/4	2,224.04	3/4	2,612.33	3/4	3,000.56	3/4	3,388.79	3/4	3,777.03
9	290.72	9	679.00	9	1,067.28	9	1,455.55	9	1,843.84	9	2,232.13	9	2,620.41	9	3,008.65	9	3,396.88	9	3,785.11
1/4	298.81	1/4	687.09	1/4	1,075.37	1/4	1,463.64	1/4	1,851.93	1/4	2,240.22	1/4	2,628.50	1/4	3,016.74	1/4	3,404.97	1/4	3,793.20
1/2	306.90	1/2	695.18	1/2	1,083.46	1/2	1,471.72	1/2	1,860.02	1/2	2,248.31	1/2	2,636.59	1/2	3,024.82	1/2	3,413.06	1/2	3,801.29
3/4	314.99	3/4	703.27	3/4	1,091.55	3/4	1,479.81	3/4	1,868.11	3/4	2,256.40	3/4	2,644.68	3/4	3,032.91	3/4	3,421.15	3/4	3,809.38
10	323.07	10	711.36	10	1,099.64	10	1,487.90	10	1,876.19	10	2,264.49	10	2,652.77	10	3,041.00	10	3,429.23	10	3,817.47
1/4	331.16	1/4	719.45	1/4	1,107.72	1/4	1,495.99	1/4	1,884.28	1/4	2,272.58	1/4	2,660.85	1/4	3,049.09	1/4	3,437.32	1/4	3,825.56
1/2	339.25	1/2	727.53	1/2	1,115.81	1/2	1,504.08	1/2	1,892.37	1/2	2,280.66	1/2	2,668.94	1/2	3,057.18	1/2	3,445.41	1/2	3,833.64
3/4	347.34	3/4	735.62	3/4	1,123.90	3/4	1,512.17	3/4	1,900.46	3/4	2,288.75	3/4	2,677.03	3/4	3,065.26	3/4	3,453.50	3/4	3,841.73
11	355.43	11	743.71	11	1,131.99	11	1,520.26	11	1,908.55	11	2,296.84	11	2,685.12	11	3,073.35	11	3,461.59	11	3,849.82
1/4	363.52	1/4	751.80	1/4	1,140.08	1/4	1,528.35	1/4	1,916.64	1/4	2,304.93	1/4	2,693.21	1/4	3,081.44	1/4	3,469.67	1/4	3,857.91
1/2	371.61	1/2	759.89	1/2	1,148.17	1/2	1,536.44	1/2	1,924.73	1/2	2,313.02	1/2	2,701.30	1/2	3,089.53	1/2	3,477.76	1/2	3,866.00
3/4	379.70	3/4	767.98	3/4	1,156.26	3/4	1,544.53	3/4	1,932.82	3/4	2,321.11	3/4	2,709.38	3/4	3,097.62	3/4	3,485.85	3/4	3,874.08

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,882.17	0	4,270.41	0	4,654.04	0	5,017.19	0		0		0		0		0		0	
1/4	3,890.26	1/4	4,278.49	1/4	4,661.81	1/4	5,024.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,898.35	1/2	4,286.58	1/2	4,669.58	1/2	5,031.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,906.44	3/4	4,294.67	3/4	4,677.35	3/4	5,039.16	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,914.53	1	4,302.76	1	4,685.12	1	5,046.49	1		1		1		1		1		1	
1/4	3,922.61	1/4	4,310.85	1/4	4,692.85	1/4	5,053.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,930.70	1/2	4,318.94	1/2	4,700.59	1/2	5,061.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,938.79	3/4	4,327.02	3/4	4,708.32	3/4	5,068.35	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,946.88	2	4,335.11	2	4,716.06	2	5,075.64	2		2		2		2		2		2	
1/4	3,954.97	1/4	4,343.20	1/4	4,723.75	1/4	5,082.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,963.05	1/2	4,351.29	1/2	4,731.44	1/2	5,090.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,971.14	3/4	4,359.38	3/4	4,739.14	3/4	5,097.38	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,979.23	3	4,367.46	3	4,746.83	3	5,104.62	3		3		3		3		3		3	
1/4	3,987.32	1/4	4,375.55	1/4	4,754.49	1/4	5,111.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,995.41	1/2	4,383.63	1/2	4,762.14	1/2	5,118.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,003.50	3/4	4,391.72	3/4	4,769.80	3/4	5,126.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,011.58	4	4,399.80	4	4,777.45	4	5,133.34	4		4		4		4		4		4	
1/4	4,019.67	1/4	4,407.88	1/4	4,785.07	1/4	5,140.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,027.76	1/2	4,415.95	1/2	4,792.69	1/2	5,147.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,035.85	3/4	4,424.03	3/4	4,800.31	3/4	5,154.70	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,043.94	5	4,432.10	5	4,807.92	5	5,161.82	5		5		5		5		5		5	
1/4	4,052.02	1/4	4,440.15	1/4	4,815.51	1/4	5,168.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,060.11	1/2	4,448.20	1/2	4,823.09	1/2	5,175.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,068.20	3/4	4,456.25	3/4	4,830.67	3/4	5,183.06	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,076.29	6	4,464.30	6	4,838.26	6	5,190.14	6		6		6		6		6		6	
1/4	4,084.38	1/4	4,472.31	1/4	4,845.80	1/4	5,197.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,092.47	1/2	4,480.32	1/2	4,853.35	1/2	5,204.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,100.55	3/4	4,488.34	3/4	4,860.90	3/4	5,211.26	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,108.64	7	4,496.35	7	4,868.45	7	5,218.30	7		7		7		7		7		7	
1/4	4,116.73	1/4	4,504.32	1/4	4,875.96	1/4	5,225.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,124.82	1/2	4,512.29	1/2	4,883.47	1/2	5,232.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,132.91	3/4	4,520.27	3/4	4,890.98	3/4	5,239.70	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,140.99	8	4,528.24	8	4,898.49	8	5,246.84	8		8		8		8		8		8	
1/4	4,149.08	1/4	4,536.17	1/4	4,905.97	1/4	5,253.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,157.17	1/2	4,544.09	1/2	4,913.45	1/2	5,261.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,165.26	3/4	4,552.01	3/4	4,920.92	3/4	5,268.21	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,173.35	9	4,559.94	9	4,928.40	9	5,275.33	9		9		9		9		9		9	
1/4	4,181.44	1/4	4,567.81	1/4	4,935.84	1/4	5,281.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,189.52	1/2	4,575.69	1/2	4,943.28	1/2	5,287.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,197.61	3/4	4,583.57	3/4	4,950.72	3/4	5,294.30	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,205.70	10	4,591.45	10	4,958.15	10	5,300.63	10		10		10		10		10		10	
1/4	4,213.79	1/4	4,599.29	1/4	4,965.55	1/4	5,305.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,221.88	1/2	4,607.13	1/2	4,972.95	1/2	5,310.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,229.97	3/4	4,614.97	3/4	4,980.35	3/4	5,315.55	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,238.05	11	4,622.81	11	4,987.75	11	5,320.53	11		11		11		11		11		11	
1/4	4,246.14	1/4	4,630.62	1/4	4,995.11	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,254.23	1/2	4,638.43	1/2	5,002.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,262.32	3/4	4,646.23	3/4	5,009.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

PRECISION MEASUREMENT  
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P.O. Box 2092  
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<http://www.omacorp.net>



# BARGE "CCL 420-T"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-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	12.92	0	360.18	0	720.43	0	1,075.21	0	1,428.65	0	1,788.18	0	2,146.36	0	2,506.41	0	2,866.38	0	3,226.29
1/4	17.95	1/4	367.68	1/4	727.93	1/4	1,082.44	1/4	1,436.15	1/4	1,795.63	1/4	2,153.86	1/4	2,513.91	1/4	2,873.88	1/4	3,233.78
1/2	22.97	1/2	375.19	1/2	735.44	1/2	1,089.67	1/2	1,443.65	1/2	1,803.08	1/2	2,161.36	1/2	2,521.42	1/2	2,881.38	1/2	3,241.28
3/4	27.99	3/4	382.70	3/4	742.94	3/4	1,096.90	3/4	1,451.15	3/4	1,810.54	3/4	2,168.87	3/4	2,528.92	3/4	2,888.88	3/4	3,248.78
1	33.01	1	390.20	1	750.45	1	1,104.13	1	1,458.65	1	1,817.99	1	2,176.37	1	2,536.42	1	2,896.37	1	3,256.28
1/4	39.87	1/4	397.71	1/4	757.96	1/4	1,111.35	1/4	1,466.15	1/4	1,825.44	1/4	2,183.87	1/4	2,543.92	1/4	2,903.87	1/4	3,263.78
1/2	46.72	1/2	405.21	1/2	765.46	1/2	1,118.58	1/2	1,473.65	1/2	1,832.89	1/2	2,191.37	1/2	2,551.42	1/2	2,911.37	1/2	3,271.27
3/4	53.58	3/4	412.72	3/4	772.97	3/4	1,125.81	3/4	1,481.15	3/4	1,840.34	3/4	2,198.87	3/4	2,558.92	3/4	2,918.87	3/4	3,278.77
2	60.44	2	420.22	2	780.47	2	1,133.04	2	1,488.66	2	1,847.79	2	2,206.37	2	2,566.43	2	2,926.37	2	3,286.27
1/4	67.89	1/4	427.73	1/4	787.98	1/4	1,140.27	1/4	1,496.16	1/4	1,855.24	1/4	2,213.87	1/4	2,573.93	1/4	2,933.86	1/4	3,293.77
1/2	75.35	1/2	435.23	1/2	795.48	1/2	1,147.50	1/2	1,503.66	1/2	1,862.69	1/2	2,221.37	1/2	2,581.43	1/2	2,941.36	1/2	3,301.27
3/4	82.80	3/4	442.74	3/4	802.99	3/4	1,154.72	3/4	1,511.16	3/4	1,870.14	3/4	2,228.87	3/4	2,588.93	3/4	2,948.86	3/4	3,308.76
3	90.25	3	450.24	3	810.49	3	1,161.95	3	1,518.66	3	1,877.59	3	2,236.37	3	2,596.43	3	2,956.36	3	3,316.26
1/4	97.73	1/4	457.75	1/4	818.00	1/4	1,169.18	1/4	1,526.16	1/4	1,885.05	1/4	2,243.88	1/4	2,603.93	1/4	2,963.86	1/4	3,323.76
1/2	105.20	1/2	465.25	1/2	825.50	1/2	1,176.41	1/2	1,533.66	1/2	1,892.50	1/2	2,251.38	1/2	2,611.44	1/2	2,971.35	1/2	3,331.26
3/4	112.67	3/4	472.76	3/4	833.01	3/4	1,183.64	3/4	1,541.16	3/4	1,899.95	3/4	2,258.88	3/4	2,618.94	3/4	2,978.85	3/4	3,338.76
4	120.15	4	480.26	4	840.51	4	1,190.86	4	1,548.66	4	1,907.40	4	2,266.38	4	2,626.44	4	2,986.35	4	3,346.25
1/4	127.63	1/4	487.77	1/4	848.02	1/4	1,198.12	1/4	1,556.16	1/4	1,914.85	1/4	2,273.88	1/4	2,633.94	1/4	2,993.85	1/4	3,353.77
1/2	135.11	1/2	495.27	1/2	855.52	1/2	1,205.37	1/2	1,563.66	1/2	1,922.30	1/2	2,281.38	1/2	2,641.44	1/2	3,001.35	1/2	3,361.29
3/4	142.60	3/4	502.78	3/4	863.03	3/4	1,212.63	3/4	1,571.16	3/4	1,929.75	3/4	2,288.88	3/4	2,648.94	3/4	3,008.84	3/4	3,368.80
5	150.08	5	510.28	5	870.53	5	1,219.88	5	1,578.66	5	1,937.20	5	2,296.38	5	2,656.44	5	3,016.34	5	3,376.32
1/4	157.58	1/4	517.79	1/4	878.04	1/4	1,227.17	1/4	1,586.16	1/4	1,944.65	1/4	2,303.88	1/4	2,663.94	1/4	3,023.84	1/4	3,383.85
1/2	165.07	1/2	525.29	1/2	885.54	1/2	1,234.46	1/2	1,593.66	1/2	1,952.10	1/2	2,311.38	1/2	2,671.43	1/2	3,031.34	1/2	3,391.39
3/4	172.57	3/4	532.80	3/4	893.05	3/4	1,241.75	3/4	1,601.16	3/4	1,959.56	3/4	2,318.88	3/4	2,678.93	3/4	3,038.84	3/4	3,398.92
6	180.07	6	540.30	6	900.55	6	1,249.04	6	1,608.66	6	1,967.01	6	2,326.39	6	2,686.43	6	3,046.33	6	3,406.45
1/4	187.57	1/4	547.81	1/4	907.96	1/4	1,256.44	1/4	1,616.17	1/4	1,974.46	1/4	2,333.89	1/4	2,693.93	1/4	3,053.83	1/4	3,413.99
1/2	195.07	1/2	555.31	1/2	915.36	1/2	1,263.84	1/2	1,623.67	1/2	1,981.91	1/2	2,341.39	1/2	2,701.43	1/2	3,061.33	1/2	3,421.52
3/4	202.57	3/4	562.82	3/4	922.76	3/4	1,271.24	3/4	1,631.17	3/4	1,989.36	3/4	2,348.89	3/4	2,708.92	3/4	3,068.83	3/4	3,429.06
7	210.08	7	570.33	7	930.16	7	1,278.64	7	1,638.67	7	1,996.81	7	2,356.39	7	2,716.42	7	3,076.33	7	3,436.59
1/4	217.58	1/4	577.83	1/4	937.46	1/4	1,286.14	1/4	1,646.17	1/4	2,004.26	1/4	2,363.89	1/4	2,723.92	1/4	3,083.82	1/4	3,443.84
1/2	225.09	1/2	585.34	1/2	944.76	1/2	1,293.64	1/2	1,653.67	1/2	2,011.71	1/2	2,371.39	1/2	2,731.42	1/2	3,091.32	1/2	3,451.08
3/4	232.59	3/4	592.84	3/4	952.06	3/4	1,301.14	3/4	1,661.17	3/4	2,019.16	3/4	2,378.89	3/4	2,738.92	3/4	3,098.82	3/4	3,458.33
8	240.10	8	600.35	8	959.36	8	1,308.64	8	1,668.67	8	2,026.61	8	2,386.39	8	2,746.41	8	3,106.32	8	3,465.57
1/4	247.60	1/4	607.85	1/4	966.63	1/4	1,316.14	1/4	1,676.17	1/4	2,034.07	1/4	2,393.89	1/4	2,753.91	1/4	3,113.82	1/4	3,471.67
1/2	255.11	1/2	615.36	1/2	973.90	1/2	1,323.64	1/2	1,683.67	1/2	2,041.52	1/2	2,401.39	1/2	2,761.41	1/2	3,121.31	1/2	3,477.76
3/4	262.61	3/4	622.86	3/4	981.17	3/4	1,331.14	3/4	1,691.17	3/4	2,048.97	3/4	2,408.89	3/4	2,768.91	3/4	3,128.81	3/4	3,483.86
9	270.12	9	630.37	9	988.44	9	1,338.64	9	1,698.67	9	2,056.42	9	2,416.39	9	2,776.41	9	3,136.31	9	3,489.95
1/4	277.62	1/4	637.87	1/4	995.68	1/4	1,346.14	1/4	1,706.15	1/4	2,063.90	1/4	2,423.90	1/4	2,783.90	1/4	3,143.81	1/4	3,495.19
1/2	285.13	1/2	645.38	1/2	1,002.92	1/2	1,353.64	1/2	1,713.62	1/2	2,071.37	1/2	2,431.40	1/2	2,791.40	1/2	3,151.31	1/2	3,500.42
3/4	292.63	3/4	652.88	3/4	1,010.15	3/4	1,361.15	3/4	1,721.10	3/4	2,078.85	3/4	2,438.90	3/4	2,798.90	3/4	3,158.80	3/4	3,505.65
10	300.14	10	660.39	10	1,017.39	10	1,368.65	10	1,728.57	10	2,086.33	10	2,446.40	10	2,806.40	10	3,166.30	10	3,510.88
1/4	307.64	1/4	667.89	1/4	1,024.62	1/4	1,376.15	1/4	1,736.03	1/4	2,093.83	1/4	2,453.90	1/4	2,813.90	1/4	3,173.80	1/4	3,516.11
1/2	315.15	1/2	675.40	1/2	1,031.84	1/2	1,383.65	1/2	1,743.48	1/2	2,101.33	1/2	2,461.40	1/2	2,821.39	1/2	3,181.30	1/2	3,521.34
3/4	322.65	3/4	682.90	3/4	1,039.07	3/4	1,391.15	3/4	1,750.93	3/4	2,108.84	3/4	2,468.90	3/4	2,828.89	3/4	3,188.80	3/4	3,526.57
11	330.16	11	690.41	11	1,046.30	11	1,398.65	11	1,758.38	11	2,116.34	11	2,476.41	11	2,836.39	11	3,196.29	11	3,531.81
1/4	337.66	1/4	697.91	1/4	1,053.53	1/4	1,406.15	1/4	1,765.83	1/4	2,123.85	1/4	2,483.91	1/4	2,843.89	1/4	3,203.79	1/4	3,537.04
1/2	345.17	1/2	705.42	1/2	1,060.76	1/2	1,413.65	1/2	1,773.28	1/2	2,131.35	1/2	2,491.41	1/2	2,851.39	1/2	3,211.29	1/2	3,542.27
3/4	352.67	3/4	712.92	3/4	1,067.99	3/4	1,421.15	3/4	1,780.73	3/4	2,138.85	3/4	2,498.91	3/4	2,858.88	3/4	3,218.79	3/4	3,547.50

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-10 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	3,552.73	0	3,803.84	0	4,050.76	0	4,278.81	0		0		0		0		0		0	
1/4	3,557.96	1/4	3,809.07	1/4	4,055.70	1/4	4,283.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,563.19	1/2	3,814.30	1/2	4,060.65	1/2	4,287.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,568.43	3/4	3,819.53	3/4	4,065.59	3/4	4,292.39	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,573.66	1	3,824.76	1	4,070.53	1	4,296.91	1		1		1		1		1		1	
1/4	3,578.89	1/4	3,830.00	1/4	4,075.44	1/4	4,301.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,584.12	1/2	3,835.23	1/2	4,080.34	1/2	4,305.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,589.35	3/4	3,840.46	3/4	4,085.25	3/4	4,310.39	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,594.58	2	3,845.69	2	4,090.16	2	4,314.88	2		2		2		2		2		2	
1/4	3,599.81	1/4	3,850.92	1/4	4,095.03	1/4	4,319.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,605.04	1/2	3,856.15	1/2	4,099.90	1/2	4,323.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,610.28	3/4	3,861.38	3/4	4,104.77	3/4	4,328.24	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,615.51	3	3,866.61	3	4,109.64	3	4,332.69	3		3		3		3		3		3	
1/4	3,620.74	1/4	3,871.85	1/4	4,114.47	1/4	4,337.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,625.97	1/2	3,877.08	1/2	4,119.31	1/2	4,341.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,631.20	3/4	3,882.31	3/4	4,124.14	3/4	4,345.87	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,636.43	4	3,887.54	4	4,128.97	4	4,350.26	4		4		4		4		4		4	
1/4	3,641.66	1/4	3,892.76	1/4	4,133.78	1/4	4,354.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.90	1/2	3,897.98	1/2	4,138.58	1/2	4,358.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,652.13	3/4	3,903.20	3/4	4,143.38	3/4	4,363.27	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,657.36	5	3,908.42	5	4,148.18	5	4,367.60	5		5		5		5		5		5	
1/4	3,662.59	1/4	3,913.61	1/4	4,152.94	1/4	4,371.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,667.82	1/2	3,918.80	1/2	4,157.71	1/2	4,376.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,673.05	3/4	3,924.00	3/4	4,162.48	3/4	4,380.50	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,678.28	6	3,929.19	6	4,167.24	6	4,384.79	6		6		6		6		6		6	
1/4	3,683.52	1/4	3,934.35	1/4	4,171.98	1/4	4,389.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,688.75	1/2	3,939.51	1/2	4,176.71	1/2	4,393.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,693.98	3/4	3,944.68	3/4	4,181.45	3/4	4,397.58	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,699.21	7	3,949.84	7	4,186.18	7	4,401.84	7		7		7		7		7		7	
1/4	3,704.44	1/4	3,954.96	1/4	4,190.88	1/4	4,406.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,709.67	1/2	3,960.09	1/2	4,195.58	1/2	4,410.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,714.90	3/4	3,965.21	3/4	4,200.28	3/4	4,414.89	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,720.14	8	3,970.34	8	4,204.98	8	4,419.24	8		8		8		8		8		8	
1/4	3,725.37	1/4	3,975.42	1/4	4,209.65	1/4	4,423.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,730.60	1/2	3,980.50	1/2	4,214.32	1/2	4,427.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,735.83	3/4	3,985.58	3/4	4,218.99	3/4	4,432.26	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,741.06	9	3,990.67	9	4,223.65	9	4,436.60	9		9		9		9		9		9	
1/4	3,746.29	1/4	3,995.71	1/4	4,228.29	1/4	4,440.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,751.52	1/2	4,000.75	1/2	4,232.92	1/2	4,443.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,756.76	3/4	4,005.79	3/4	4,237.55	3/4	4,447.38	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,761.99	10	4,010.83	10	4,242.19	10	4,450.97	10		10		10		10		10		10	
1/4	3,767.22	1/4	4,015.84	1/4	4,246.78	1/4	4,453.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,772.45	1/2	4,020.85	1/2	4,251.38	1/2	4,455.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.68	3/4	4,025.86	3/4	4,255.97	3/4	4,457.99	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,782.91	11	4,030.86	11	4,260.57	11	4,460.32	11		11		11		11		11		11	
1/4	3,788.14	1/4	4,035.84	1/4	4,265.13	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,793.38	1/2	4,040.81	1/2	4,269.69	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.61	3/4	4,045.79	3/4	4,274.25	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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<http://www.omacorp.net>



# BARGE "CCL 420-T"

3 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	12.92	0	361.06	0	722.56	0	1,084.05	0	1,445.54	0	1,807.05	0	2,168.56	0	2,530.06	0	2,891.42	0	3,252.68
1/4	17.94	1/4	368.60	1/4	730.09	1/4	1,091.58	1/4	1,453.07	1/4	1,814.58	1/4	2,176.09	1/4	2,537.59	1/4	2,898.94	1/4	3,260.19
1/2	22.96	1/2	376.13	1/2	737.62	1/2	1,099.11	1/2	1,460.61	1/2	1,822.11	1/2	2,183.62	1/2	2,545.12	1/2	2,906.47	1/2	3,267.70
3/4	27.97	3/4	383.66	3/4	745.16	3/4	1,106.65	3/4	1,468.14	3/4	1,829.64	3/4	2,191.15	3/4	2,552.65	3/4	2,914.00	3/4	3,275.21
1	32.99	1	391.19	1	752.69	1	1,114.18	1	1,475.67	1	1,837.18	1	2,198.68	1	2,560.18	1	2,921.52	1	3,282.72
1/4	39.85	1/4	398.72	1/4	760.22	1/4	1,121.71	1/4	1,483.20	1/4	1,844.71	1/4	2,206.21	1/4	2,567.71	1/4	2,929.05	1/4	3,290.23
1/2	46.70	1/2	406.25	1/2	767.75	1/2	1,129.24	1/2	1,490.73	1/2	1,852.24	1/2	2,213.75	1/2	2,575.24	1/2	2,936.58	1/2	3,297.74
3/4	53.56	3/4	413.78	3/4	775.28	3/4	1,136.77	3/4	1,498.26	3/4	1,859.77	3/4	2,221.28	3/4	2,582.77	3/4	2,944.11	3/4	3,305.25
2	60.41	2	421.31	2	782.81	2	1,144.30	2	1,505.79	2	1,867.30	2	2,228.81	2	2,590.30	2	2,951.63	2	3,312.75
1/4	67.87	1/4	428.84	1/4	790.34	1/4	1,151.83	1/4	1,513.33	1/4	1,874.83	1/4	2,236.34	1/4	2,597.83	1/4	2,959.16	1/4	3,320.26
1/2	75.32	1/2	436.38	1/2	797.87	1/2	1,159.36	1/2	1,520.86	1/2	1,882.36	1/2	2,243.87	1/2	2,605.36	1/2	2,966.69	1/2	3,327.77
3/4	82.78	3/4	443.91	3/4	805.40	3/4	1,166.89	3/4	1,528.39	3/4	1,889.90	3/4	2,251.40	3/4	2,612.89	3/4	2,974.21	3/4	3,335.28
3	90.24	3	451.44	3	812.94	3	1,174.42	3	1,535.92	3	1,897.43	3	2,258.93	3	2,620.42	3	2,981.74	3	3,342.79
1/4	97.73	1/4	458.97	1/4	820.47	1/4	1,181.95	1/4	1,543.45	1/4	1,904.96	1/4	2,266.47	1/4	2,627.95	1/4	2,989.27	1/4	3,350.30
1/2	105.22	1/2	466.50	1/2	828.00	1/2	1,189.48	1/2	1,550.98	1/2	1,912.49	1/2	2,274.00	1/2	2,635.49	1/2	2,996.79	1/2	3,357.81
3/4	112.71	3/4	474.03	3/4	835.53	3/4	1,197.01	3/4	1,558.51	3/4	1,920.02	3/4	2,281.53	3/4	2,643.02	3/4	3,004.32	3/4	3,365.32
4	120.20	4	481.56	4	843.06	4	1,204.54	4	1,566.05	4	1,927.55	4	2,289.06	4	2,650.55	4	3,011.85	4	3,372.83
1/4	127.71	1/4	489.09	1/4	850.59	1/4	1,212.07	1/4	1,573.58	1/4	1,935.08	1/4	2,296.59	1/4	2,658.07	1/4	3,019.38	1/4	3,380.35
1/2	135.22	1/2	496.63	1/2	858.12	1/2	1,219.60	1/2	1,581.11	1/2	1,942.62	1/2	2,304.12	1/2	2,665.60	1/2	3,026.90	1/2	3,387.87
3/4	142.73	3/4	504.16	3/4	865.65	3/4	1,227.14	3/4	1,588.64	3/4	1,950.15	3/4	2,311.65	3/4	2,673.13	3/4	3,034.43	3/4	3,395.39
5	150.24	5	511.69	5	873.19	5	1,234.67	5	1,596.17	5	1,957.68	5	2,319.19	5	2,680.66	5	3,041.96	5	3,402.91
1/4	157.76	1/4	519.22	1/4	880.72	1/4	1,242.20	1/4	1,603.70	1/4	1,965.21	1/4	2,326.72	1/4	2,688.19	1/4	3,049.48	1/4	3,410.44
1/2	165.28	1/2	526.75	1/2	888.25	1/2	1,249.73	1/2	1,611.23	1/2	1,972.74	1/2	2,334.25	1/2	2,695.71	1/2	3,057.01	1/2	3,417.97
3/4	172.80	3/4	534.28	3/4	895.78	3/4	1,257.26	3/4	1,618.77	3/4	1,980.27	3/4	2,341.78	3/4	2,703.24	3/4	3,064.54	3/4	3,425.50
6	180.33	6	541.81	6	903.31	6	1,264.79	6	1,626.30	6	1,987.80	6	2,349.31	6	2,710.77	6	3,072.06	6	3,433.03
1/4	187.85	1/4	549.34	1/4	910.84	1/4	1,272.32	1/4	1,633.83	1/4	1,995.34	1/4	2,356.84	1/4	2,718.30	1/4	3,079.59	1/4	3,440.56
1/2	195.38	1/2	556.88	1/2	918.37	1/2	1,279.85	1/2	1,641.36	1/2	2,002.87	1/2	2,364.37	1/2	2,725.82	1/2	3,087.12	1/2	3,448.09
3/4	202.91	3/4	564.41	3/4	925.90	3/4	1,287.38	3/4	1,648.89	3/4	2,010.40	3/4	2,371.91	3/4	2,733.35	3/4	3,094.65	3/4	3,455.62
7	210.44	7	571.94	7	933.44	7	1,294.92	7	1,656.42	7	2,017.93	7	2,379.44	7	2,740.88	7	3,102.17	7	3,463.15
1/4	217.97	1/4	579.47	1/4	940.97	1/4	1,302.45	1/4	1,663.95	1/4	2,025.46	1/4	2,386.97	1/4	2,748.40	1/4	3,109.70	1/4	3,470.40
1/2	225.50	1/2	587.00	1/2	948.50	1/2	1,309.98	1/2	1,671.49	1/2	2,032.99	1/2	2,394.50	1/2	2,755.93	1/2	3,117.23	1/2	3,477.64
3/4	233.03	3/4	594.53	3/4	956.03	3/4	1,317.51	3/4	1,679.02	3/4	2,040.52	3/4	2,402.03	3/4	2,763.46	3/4	3,124.75	3/4	3,484.88
8	240.56	8	602.06	8	963.56	8	1,325.04	8	1,686.55	8	2,048.06	8	2,409.56	8	2,770.98	8	3,132.28	8	3,492.13
1/4	248.10	1/4	609.59	1/4	971.09	1/4	1,332.57	1/4	1,694.08	1/4	2,055.59	1/4	2,417.09	1/4	2,778.51	1/4	3,139.81	1/4	3,498.22
1/2	255.63	1/2	617.12	1/2	978.62	1/2	1,340.10	1/2	1,701.61	1/2	2,063.12	1/2	2,424.63	1/2	2,786.04	1/2	3,147.33	1/2	3,504.31
3/4	263.16	3/4	624.66	3/4	986.15	3/4	1,347.64	3/4	1,709.14	3/4	2,070.65	3/4	2,432.16	3/4	2,793.57	3/4	3,154.86	3/4	3,510.40
9	270.69	9	632.19	9	993.68	9	1,355.17	9	1,716.67	9	2,078.18	9	2,439.69	9	2,801.09	9	3,162.39	9	3,516.49
1/4	278.22	1/4	639.72	1/4	1,001.22	1/4	1,362.70	1/4	1,724.21	1/4	2,085.71	1/4	2,447.22	1/4	2,808.62	1/4	3,169.92	1/4	3,521.72
1/2	285.75	1/2	647.25	1/2	1,008.75	1/2	1,370.23	1/2	1,731.74	1/2	2,093.24	1/2	2,454.75	1/2	2,816.15	1/2	3,177.44	1/2	3,526.95
3/4	293.28	3/4	654.78	3/4	1,016.28	3/4	1,377.76	3/4	1,739.27	3/4	2,100.78	3/4	2,462.28	3/4	2,823.67	3/4	3,184.97	3/4	3,532.18
10	300.81	10	662.31	10	1,023.81	10	1,385.29	10	1,746.80	10	2,108.31	10	2,469.81	10	2,831.20	10	3,192.50	10	3,537.40
1/4	308.35	1/4	669.84	1/4	1,031.34	1/4	1,392.82	1/4	1,754.33	1/4	2,115.84	1/4	2,477.34	1/4	2,838.73	1/4	3,200.02	1/4	3,542.63
1/2	315.88	1/2	677.37	1/2	1,038.87	1/2	1,400.35	1/2	1,761.86	1/2	2,123.37	1/2	2,484.87	1/2	2,846.25	1/2	3,207.55	1/2	3,547.86
3/4	323.41	3/4	684.91	3/4	1,046.40	3/4	1,407.89	3/4	1,769.39	3/4	2,130.90	3/4	2,492.40	3/4	2,853.78	3/4	3,215.08	3/4	3,553.09
11	330.94	11	692.44	11	1,053.93	11	1,415.42	11	1,776.92	11	2,138.43	11	2,499.93	11	2,861.31	11	3,222.60	11	3,558.32
1/4	338.47	1/4	699.97	1/4	1,061.46	1/4	1,422.95	1/4	1,784.46	1/4	2,145.96	1/4	2,507.46	1/4	2,868.84	1/4	3,230.12	1/4	3,563.54
1/2	346.00	1/2	707.50	1/2	1,068.99	1/2	1,430.48	1/2	1,791.99	1/2	2,153.49	1/2	2,514.99	1/2	2,876.36	1/2	3,237.64	1/2	3,568.77
3/4	353.53	3/4	715.03	3/4	1,076.52	3/4	1,438.01	3/4	1,799.52	3/4	2,161.03	3/4	2,522.52	3/4	2,883.89	3/4	3,245.16	3/4	3,574.00

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-10 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	3,579.23	0	3,830.18	0	4,076.94	0	4,304.82	0		0		0		0		0		0	
1/4	3,584.46	1/4	3,835.41	1/4	4,081.88	1/4	4,309.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,589.69	1/2	3,840.63	1/2	4,086.82	1/2	4,313.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,594.91	3/4	3,845.86	3/4	4,091.75	3/4	4,318.39	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,600.14	1	3,851.09	1	4,096.69	1	4,322.91	1		1		1		1		1		1	
1/4	3,605.37	1/4	3,856.32	1/4	4,101.60	1/4	4,327.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,610.60	1/2	3,861.55	1/2	4,106.50	1/2	4,331.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,615.83	3/4	3,866.77	3/4	4,111.40	3/4	4,336.38	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,621.05	2	3,872.00	2	4,116.31	2	4,340.87	2		2		2		2		2		2	
1/4	3,626.28	1/4	3,877.23	1/4	4,121.18	1/4	4,345.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,631.51	1/2	3,882.46	1/2	4,126.04	1/2	4,349.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,636.74	3/4	3,887.69	3/4	4,130.91	3/4	4,354.22	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,641.97	3	3,892.91	3	4,135.78	3	4,358.67	3		3		3		3		3		3	
1/4	3,647.19	1/4	3,898.14	1/4	4,140.61	1/4	4,363.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,652.42	1/2	3,903.37	1/2	4,145.44	1/2	4,367.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,657.65	3/4	3,908.59	3/4	4,150.27	3/4	4,371.83	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,662.88	4	3,913.82	4	4,155.10	4	4,376.22	4		4		4		4		4		4	
1/4	3,668.11	1/4	3,919.04	1/4	4,159.89	1/4	4,380.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,673.33	1/2	3,924.25	1/2	4,164.69	1/2	4,384.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,678.56	3/4	3,929.47	3/4	4,169.49	3/4	4,389.22	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,683.79	5	3,934.69	5	4,174.29	5	4,393.55	5		5		5		5		5		5	
1/4	3,689.02	1/4	3,939.88	1/4	4,179.05	1/4	4,397.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,694.25	1/2	3,945.07	1/2	4,183.81	1/2	4,402.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.48	3/4	3,950.26	3/4	4,188.58	3/4	4,406.43	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,704.70	6	3,955.45	6	4,193.34	6	4,410.73	6		6		6		6		6		6	
1/4	3,709.93	1/4	3,960.61	1/4	4,198.07	1/4	4,414.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,715.16	1/2	3,965.76	1/2	4,202.80	1/2	4,419.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,720.39	3/4	3,970.92	3/4	4,207.53	3/4	4,423.50	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,725.62	7	3,976.08	7	4,212.26	7	4,427.76	7		7		7		7		7		7	
1/4	3,730.84	1/4	3,981.20	1/4	4,216.96	1/4	4,432.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,736.07	1/2	3,986.32	1/2	4,221.66	1/2	4,436.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,741.30	3/4	3,991.45	3/4	4,226.36	3/4	4,440.80	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,746.53	8	3,996.57	8	4,231.05	8	4,445.15	8		8		8		8		8		8	
1/4	3,751.76	1/4	4,001.65	1/4	4,235.72	1/4	4,449.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,756.98	1/2	4,006.72	1/2	4,240.38	1/2	4,453.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,762.21	3/4	4,011.80	3/4	4,245.04	3/4	4,458.16	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,767.44	9	4,016.88	9	4,249.71	9	4,462.49	9		9		9		9		9		9	
1/4	3,772.67	1/4	4,021.92	1/4	4,254.34	1/4	4,466.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,777.90	1/2	4,026.96	1/2	4,258.97	1/2	4,469.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,783.12	3/4	4,032.00	3/4	4,263.60	3/4	4,473.27	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,788.35	10	4,037.03	10	4,268.23	10	4,476.86	10		10		10		10		10		10	
1/4	3,793.58	1/4	4,042.04	1/4	4,272.82	1/4	4,479.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,798.81	1/2	4,047.04	1/2	4,277.41	1/2	4,481.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,804.04	3/4	4,052.05	3/4	4,282.01	3/4	4,483.87	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,809.27	11	4,057.05	11	4,286.60	11	4,486.20	11		11		11		11		11		11	
1/4	3,814.49	1/4	4,062.02	1/4	4,291.15	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,819.72	1/2	4,067.00	1/2	4,295.71	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,824.95	3/4	4,071.97	3/4	4,300.27	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

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



# BARGE "CCL 420T"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>										
1 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
3 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-3/4"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 3/4"

LENGTH BETWEEN DRAFT MARKS: 245'-03"

November 12, 2024

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

<http://www.pmacorp.net>



# BARGE "CCL 420-T"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

Gauge Height 14'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	4,792.94	0	4,486.02	0	4,151.42	0	3,798.81	0	3,443.24	0	3,087.68	0	2,732.11	0	2,376.55	0	2,020.94	
1/4	1/4	4,788.39	1/4	4,479.24	1/4	4,144.24	1/4	3,791.40	1/4	3,435.83	1/4	3,080.27	1/4	2,724.70	1/4	2,369.14	1/4	2,013.54	
1/2	1/2	4,783.83	1/2	4,472.47	1/2	4,137.06	1/2	3,783.99	1/2	3,428.43	1/2	3,072.86	1/2	2,717.30	1/2	2,361.73	1/2	2,006.13	
3/4	3/4	4,779.28	3/4	4,465.69	3/4	4,129.88	3/4	3,776.58	3/4	3,421.02	3/4	3,065.45	3/4	2,709.89	3/4	2,354.32	3/4	1,998.72	
1	1	4,773.48	1	4,458.88	1	4,122.66	1	3,769.18	1	3,413.61	1	3,058.05	1	2,702.48	1	2,346.92	1	1,991.31	
1/4	1/4	4,767.69	1/4	4,452.07	1/4	4,115.45	1/4	3,761.77	1/4	3,406.20	1/4	3,050.64	1/4	2,695.07	1/4	2,339.51	1/4	1,983.90	
1/2	1/2	4,761.90	1/2	4,445.25	1/2	4,108.24	1/2	3,754.36	1/2	3,398.80	1/2	3,043.23	1/2	2,687.67	1/2	2,332.10	1/2	1,976.49	
3/4	3/4	4,756.11	3/4	4,438.44	3/4	4,101.02	3/4	3,746.95	3/4	3,391.39	3/4	3,035.82	3/4	2,680.26	3/4	2,324.69	3/4	1,969.08	
2	2	4,749.59	2	4,431.60	2	4,093.76	2	3,739.55	2	3,383.98	2	3,028.42	2	2,672.85	2	2,317.29	2	1,961.67	
1/4	1/4	4,743.07	1/4	4,424.75	1/4	4,086.51	1/4	3,732.14	1/4	3,376.57	1/4	3,021.01	1/4	2,665.44	1/4	2,309.88	1/4	1,954.27	
1/2	1/2	4,736.54	1/2	4,417.90	1/2	4,079.25	1/2	3,724.73	1/2	3,369.17	1/2	3,013.60	1/2	2,658.04	1/2	2,302.47	1/2	1,946.86	
3/4	3/4	4,730.02	3/4	4,411.06	3/4	4,071.99	3/4	3,717.32	3/4	3,361.76	3/4	3,006.19	3/4	2,650.63	3/4	2,295.06	3/4	1,939.45	
3	3	4,723.49	3	4,404.18	3	4,064.69	3	3,709.92	3	3,354.35	3	2,998.79	3	2,643.22	3	2,287.66	3	1,932.04	
1/4	1/4	4,716.95	1/4	4,397.30	1/4	4,057.39	1/4	3,702.51	1/4	3,346.94	1/4	2,991.38	1/4	2,635.81	1/4	2,280.25	1/4	1,924.63	
1/2	1/2	4,710.42	1/2	4,390.42	1/2	4,050.09	1/2	3,695.10	1/2	3,339.54	1/2	2,983.97	1/2	2,628.41	1/2	2,272.84	1/2	1,917.22	
3/4	3/4	4,703.89	3/4	4,383.54	3/4	4,042.79	3/4	3,687.69	3/4	3,332.13	3/4	2,976.56	3/4	2,621.00	3/4	2,265.43	3/4	1,909.81	
4	4	4,697.44	4	4,376.63	4	4,035.45	4	3,680.29	4	3,324.72	4	2,969.16	4	2,613.59	4	2,258.02	4	1,902.40	
1/4	1/4	4,690.99	1/4	4,369.72	1/4	4,028.11	1/4	3,672.88	1/4	3,317.31	1/4	2,961.75	1/4	2,606.18	1/4	2,250.61	1/4	1,894.99	
1/2	1/2	4,684.55	1/2	4,362.81	1/2	4,020.77	1/2	3,665.47	1/2	3,309.91	1/2	2,954.34	1/2	2,598.78	1/2	2,243.20	1/2	1,887.58	
3/4	3/4	4,678.10	3/4	4,355.90	3/4	4,013.43	3/4	3,658.06	3/4	3,302.50	3/4	2,946.93	3/4	2,591.37	3/4	2,235.80	3/4	1,880.18	
5	5	4,671.62	5	4,348.95	5	4,006.06	5	3,650.65	5	3,295.09	5	2,939.53	5	2,583.96	5	2,228.39	5	1,872.77	
1/4	1/4	4,665.14	1/4	4,342.01	1/4	3,998.69	1/4	3,643.25	1/4	3,287.68	1/4	2,932.12	1/4	2,576.55	1/4	2,220.98	1/4	1,865.36	
1/2	1/2	4,658.66	1/2	4,335.07	1/2	3,991.32	1/2	3,635.84	1/2	3,280.27	1/2	2,924.71	1/2	2,569.15	1/2	2,213.57	1/2	1,857.95	
3/4	3/4	4,652.17	3/4	4,328.12	3/4	3,983.95	3/4	3,628.43	3/4	3,272.87	3/4	2,917.30	3/4	2,561.74	3/4	2,206.16	3/4	1,850.54	
6	6	4,645.66	6	4,321.15	6	3,976.55	6	3,621.02	6	3,265.46	6	2,909.89	6	2,554.33	6	2,198.75	6	1,843.13	
1/4	1/4	4,639.14	1/4	4,314.17	1/4	3,969.16	1/4	3,613.62	1/4	3,258.05	1/4	2,902.49	1/4	2,546.92	1/4	2,191.34	1/4	1,835.72	
1/2	1/2	4,632.62	1/2	4,307.19	1/2	3,961.76	1/2	3,606.21	1/2	3,250.64	1/2	2,895.08	1/2	2,539.51	1/2	2,183.94	1/2	1,828.31	
3/4	3/4	4,626.10	3/4	4,300.21	3/4	3,954.37	3/4	3,598.80	3/4	3,243.24	3/4	2,887.67	3/4	2,532.11	3/4	2,176.53	3/4	1,820.90	
7	7	4,619.53	7	4,293.21	7	3,946.96	7	3,591.39	7	3,235.83	7	2,880.26	7	2,524.70	7	2,169.12	7	1,813.50	
1/4	1/4	4,612.95	1/4	4,286.20	1/4	3,939.55	1/4	3,583.99	1/4	3,228.42	1/4	2,872.86	1/4	2,517.29	1/4	2,161.71	1/4	1,806.09	
1/2	1/2	4,606.38	1/2	4,279.19	1/2	3,932.14	1/2	3,576.58	1/2	3,221.01	1/2	2,865.45	1/2	2,509.88	1/2	2,154.30	1/2	1,798.68	
3/4	3/4	4,599.81	3/4	4,272.18	3/4	3,924.74	3/4	3,569.17	3/4	3,213.61	3/4	2,858.04	3/4	2,502.48	3/4	2,146.89	3/4	1,791.27	
8	8	4,593.17	8	4,265.13	8	3,917.33	8	3,561.76	8	3,206.20	8	2,850.63	8	2,495.07	8	2,139.48	8	1,783.86	
1/4	1/4	4,586.54	1/4	4,258.08	1/4	3,909.92	1/4	3,554.36	1/4	3,198.79	1/4	2,843.23	1/4	2,487.66	1/4	2,132.07	1/4	1,776.45	
1/2	1/2	4,579.90	1/2	4,251.04	1/2	3,902.51	1/2	3,546.95	1/2	3,191.38	1/2	2,835.82	1/2	2,480.25	1/2	2,124.67	1/2	1,769.04	
3/4	3/4	4,573.27	3/4	4,243.99	3/4	3,895.11	3/4	3,539.54	3/4	3,183.98	3/4	2,828.41	3/4	2,472.85	3/4	2,117.26	3/4	1,761.63	
9	9	4,566.60	9	4,236.91	9	3,887.70	9	3,532.13	9	3,176.57	9	2,821.00	9	2,465.44	9	2,109.85	9	1,754.22	
1/4	1/4	4,559.92	1/4	4,229.83	1/4	3,880.29	1/4	3,524.73	1/4	3,169.16	1/4	2,813.60	1/4	2,458.03	1/4	2,102.44	1/4	1,746.82	
1/2	1/2	4,553.25	1/2	4,222.75	1/2	3,872.88	1/2	3,517.32	1/2	3,161.75	1/2	2,806.19	1/2	2,450.62	1/2	2,095.03	1/2	1,739.41	
3/4	3/4	4,546.57	3/4	4,215.66	3/4	3,865.48	3/4	3,509.91	3/4	3,154.35	3/4	2,798.78	3/4	2,443.22	3/4	2,087.62	3/4	1,732.00	
10	10	4,539.87	10	4,208.55	10	3,858.07	10	3,502.50	10	3,146.94	10	2,791.37	10	2,435.81	10	2,080.21	10	1,724.59	
1/4	1/4	4,533.16	1/4	4,201.43	1/4	3,850.66	1/4	3,495.10	1/4	3,139.53	1/4	2,783.97	1/4	2,428.40	1/4	2,072.80	1/4	1,717.18	
1/2	1/2	4,526.45	1/2	4,194.32	1/2	3,843.25	1/2	3,487.69	1/2	3,132.12	1/2	2,776.56	1/2	2,420.99	1/2	2,065.40	1/2	1,709.77	
3/4	3/4	4,519.75	3/4	4,187.20	3/4	3,835.84	3/4	3,480.28	3/4	3,124.72	3/4	2,769.15	3/4	2,413.59	3/4	2,057.99	3/4	1,702.36	
11	11	4,513.01	11	4,180.05	11	3,828.44	11	3,472.87	11	3,117.31	11	2,761.74	11	2,406.18	11	2,050.58	11	1,694.95	
1/4	1/4	4,506.27	1/4	4,172.90	1/4	3,821.03	1/4	3,465.46	1/4	3,109.90	1/4	2,754.34	1/4	2,398.77	1/4	2,043.17	1/4	1,687.54	
1/2	1/2	4,499.53	1/2	4,165.75	1/2	3,813.62	1/2	3,458.06	1/2	3,102.49	1/2	2,746.93	1/2	2,391.36	1/2	2,035.76	1/2	1,680.14	
3/4	3/4	4,492.79	3/4	4,158.60	3/4	3,806.21	3/4	3,450.65	3/4	3,095.08	3/4	2,739.52	3/4	2,383.96	3/4	2,028.35	3/4	1,672.73	

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,665.32	0	1,309.69	0	955.27	0	600.17	0	263.81	0		0		0		0		0	
1/4	1,657.91	1/4	1,302.28	1/4	947.90	1/4	592.78	1/4	257.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,650.50	1/2	1,294.87	1/2	940.54	1/2	585.39	1/2	250.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,643.09	3/4	1,287.46	3/4	933.17	3/4	578.00	3/4	244.09	3/4		3/4		3/4		3/4		3/4	
1	1,635.68	1	1,280.06	1	925.79	1	570.66	1	237.59	1		1		1		1		1	
1/4	1,628.27	1/4	1,272.65	1/4	918.42	1/4	563.32	1/4	231.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,620.86	1/2	1,265.24	1/2	911.04	1/2	555.98	1/2	224.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,613.46	3/4	1,257.83	3/4	903.67	3/4	548.64	3/4	218.08	3/4		3/4		3/4		3/4		3/4	
2	1,606.05	2	1,250.42	2	896.28	2	541.38	2	211.64	2		2		2		2		2	
1/4	1,598.64	1/4	1,243.01	1/4	888.90	1/4	534.11	1/4	205.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,591.23	1/2	1,235.60	1/2	881.51	1/2	526.84	1/2	198.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,583.82	3/4	1,228.19	3/4	874.13	3/4	519.57	3/4	192.34	3/4		3/4		3/4		3/4		3/4	
3	1,576.41	3	1,220.78	3	866.75	3	512.37	3	185.97	3		3		3		3		3	
1/4	1,569.00	1/4	1,213.38	1/4	859.36	1/4	505.17	1/4	179.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,561.59	1/2	1,205.97	1/2	851.98	1/2	497.97	1/2	173.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,554.18	3/4	1,198.56	3/4	844.59	3/4	490.77	3/4	166.88	3/4		3/4		3/4		3/4		3/4	
4	1,546.78	4	1,191.16	4	837.20	4	483.64	4	160.59	4		4		4		4		4	
1/4	1,539.37	1/4	1,183.76	1/4	829.80	1/4	476.51	1/4	154.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,531.96	1/2	1,176.37	1/2	822.41	1/2	469.38	1/2	148.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,524.55	3/4	1,168.97	3/4	815.01	3/4	462.25	3/4	141.71	3/4		3/4		3/4		3/4		3/4	
5	1,517.14	5	1,161.60	5	807.60	5	455.18	5	135.49	5		5		5		5		5	
1/4	1,509.73	1/4	1,154.22	1/4	800.19	1/4	448.12	1/4	129.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,502.32	1/2	1,146.84	1/2	792.78	1/2	441.06	1/2	123.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,494.91	3/4	1,139.47	3/4	785.37	3/4	434.00	3/4	116.84	3/4		3/4		3/4		3/4		3/4	
6	1,487.50	6	1,132.10	6	777.97	6	427.01	6	110.70	6		6		6		6		6	
1/4	1,480.10	1/4	1,124.73	1/4	770.56	1/4	420.02	1/4	104.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,472.69	1/2	1,117.36	1/2	763.15	1/2	413.03	1/2	98.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,465.28	3/4	1,110.00	3/4	755.74	3/4	406.04	3/4	92.30	3/4		3/4		3/4		3/4		3/4	
7	1,457.87	7	1,102.63	7	748.33	7	399.12	7	86.25	7		7		7		7		7	
1/4	1,450.46	1/4	1,095.26	1/4	740.92	1/4	392.19	1/4	80.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,443.05	1/2	1,087.89	1/2	733.51	1/2	385.27	1/2	74.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,435.64	3/4	1,080.53	3/4	726.11	3/4	378.35	3/4	68.11	3/4		3/4		3/4		3/4		3/4	
8	1,428.23	8	1,073.16	8	718.70	8	371.50	8	62.17	8		8		8		8		8	
1/4	1,420.82	1/4	1,065.79	1/4	711.29	1/4	364.65	1/4	56.22	1/4		1/4		1/4		1/4		1/4	
1/2	1,413.41	1/2	1,058.42	1/2	703.88	1/2	357.79	1/2	50.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,406.01	3/4	1,051.05	3/4	696.47	3/4	350.94	3/4	44.34	3/4		3/4		3/4		3/4		3/4	
9	1,398.60	9	1,043.69	9	689.06	9	344.16	9	39.05	9		9		9		9		9	
1/4	1,391.19	1/4	1,036.32	1/4	681.65	1/4	337.38	1/4	33.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,383.78	1/2	1,028.95	1/2	674.24	1/2	330.60	1/2	28.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,376.37	3/4	1,021.58	3/4	666.84	3/4	323.81	3/4	23.21	3/4		3/4		3/4		3/4		3/4	
10	1,368.96	10	1,014.22	10	659.43	10	317.10	10	19.80	10		10		10		10		10	
1/4	1,361.55	1/4	1,006.85	1/4	652.02	1/4	310.39	1/4	16.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,354.14	1/2	999.48	1/2	644.61	1/2	303.67	1/2	12.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,346.74	3/4	992.11	3/4	637.20	3/4	296.96	3/4	9.58	3/4		3/4		3/4		3/4		3/4	
11	1,339.33	11	984.74	11	629.79	11	290.32	11		11		11		11		11		11	
1/4	1,331.92	1/4	977.38	1/4	622.38	1/4	283.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,324.51	1/2	970.01	1/2	614.97	1/2	277.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,317.10	3/4	962.64	3/4	607.57	3/4	270.39	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

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



# BARGE "CCL 420-T"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

Gauge Height 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	4,776.68	0	4,461.94	0	4,125.59	0	3,771.98	0	3,416.28	0	3,060.58	0	2,704.88	0	2,349.18	0	1,993.43
1/4		1/4	4,770.88	1/4	4,455.12	1/4	4,118.37	1/4	3,764.57	1/4	3,408.87	1/4	3,053.17	1/4	2,697.47	1/4	2,341.77	1/4	1,986.02
1/2		1/2	4,765.09	1/2	4,448.31	1/2	4,111.16	1/2	3,757.16	1/2	3,401.46	1/2	3,045.76	1/2	2,690.06	1/2	2,334.36	1/2	1,978.61
3/4		3/4	4,759.30	3/4	4,441.49	3/4	4,103.94	3/4	3,749.75	3/4	3,394.05	3/4	3,038.35	3/4	2,682.65	3/4	2,326.95	3/4	1,971.20
1		1	4,752.77	1	4,434.65	1	4,096.68	1	3,742.34	1	3,386.64	1	3,030.94	1	2,675.24	1	2,319.54	1	1,963.79
1/4		1/4	4,746.24	1/4	4,427.80	1/4	4,089.42	1/4	3,734.93	1/4	3,379.23	1/4	3,023.53	1/4	2,667.83	1/4	2,312.13	1/4	1,956.38
1/2		1/2	4,739.72	1/2	4,420.95	1/2	4,082.16	1/2	3,727.52	1/2	3,371.82	1/2	3,016.12	1/2	2,660.42	1/2	2,304.72	1/2	1,948.96
3/4		3/4	4,733.19	3/4	4,414.10	3/4	4,074.90	3/4	3,720.11	3/4	3,364.41	3/4	3,008.71	3/4	2,653.01	3/4	2,297.31	3/4	1,941.55
2		2	4,726.66	2	4,407.22	2	4,067.60	2	3,712.69	2	3,357.00	2	3,001.30	2	2,645.60	2	2,289.90	2	1,934.14
1/4		1/4	4,720.12	1/4	4,400.34	1/4	4,060.29	1/4	3,705.28	1/4	3,349.59	1/4	2,993.89	1/4	2,638.19	1/4	2,282.49	1/4	1,926.73
1/2		1/2	4,713.59	1/2	4,393.46	1/2	4,052.99	1/2	3,697.87	1/2	3,342.17	1/2	2,986.48	1/2	2,630.78	1/2	2,275.08	1/2	1,919.32
3/4		3/4	4,707.05	3/4	4,386.57	3/4	4,045.68	3/4	3,690.46	3/4	3,334.76	3/4	2,979.07	3/4	2,623.37	3/4	2,267.67	3/4	1,911.91
3		3	4,700.60	3	4,379.66	3	4,038.34	3	3,683.05	3	3,327.35	3	2,971.65	3	2,615.96	3	2,260.25	3	1,904.49
1/4		1/4	4,694.15	1/4	4,372.75	1/4	4,031.00	1/4	3,675.64	1/4	3,319.94	1/4	2,964.24	1/4	2,608.55	1/4	2,252.84	1/4	1,897.08
1/2		1/2	4,687.70	1/2	4,365.83	1/2	4,023.66	1/2	3,668.23	1/2	3,312.53	1/2	2,956.83	1/2	2,601.13	1/2	2,245.43	1/2	1,889.67
3/4		3/4	4,681.25	3/4	4,358.92	3/4	4,016.32	3/4	3,660.82	3/4	3,305.12	3/4	2,949.42	3/4	2,593.72	3/4	2,238.02	3/4	1,882.26
4		4	4,674.77	4	4,351.97	4	4,008.95	4	3,653.41	4	3,297.71	4	2,942.01	4	2,586.31	4	2,230.61	4	1,874.85
1/4		1/4	4,668.29	1/4	4,345.02	1/4	4,001.57	1/4	3,646.00	1/4	3,290.30	1/4	2,934.60	1/4	2,578.90	1/4	2,223.20	1/4	1,867.44
1/2		1/2	4,661.80	1/2	4,338.08	1/2	3,994.20	1/2	3,638.59	1/2	3,282.89	1/2	2,927.19	1/2	2,571.49	1/2	2,215.78	1/2	1,860.02
3/4		3/4	4,655.32	3/4	4,331.13	3/4	3,986.82	3/4	3,631.18	3/4	3,275.48	3/4	2,919.78	3/4	2,564.08	3/4	2,208.37	3/4	1,852.61
5		5	4,648.79	5	4,324.15	5	3,979.43	5	3,623.77	5	3,268.07	5	2,912.37	5	2,556.67	5	2,200.96	5	1,845.20
1/4		1/4	4,642.27	1/4	4,317.17	1/4	3,972.03	1/4	3,616.36	1/4	3,260.66	1/4	2,904.96	1/4	2,549.26	1/4	2,193.55	1/4	1,837.79
1/2		1/2	4,635.75	1/2	4,310.19	1/2	3,964.63	1/2	3,608.95	1/2	3,253.25	1/2	2,897.55	1/2	2,541.85	1/2	2,186.14	1/2	1,830.38
3/4		3/4	4,629.23	3/4	4,303.21	3/4	3,957.23	3/4	3,601.54	3/4	3,245.84	3/4	2,890.14	3/4	2,534.44	3/4	2,178.73	3/4	1,822.97
6		6	4,622.65	6	4,296.20	6	3,949.82	6	3,594.13	6	3,238.43	6	2,882.73	6	2,527.03	6	2,171.31	6	1,815.55
1/4		1/4	4,616.08	1/4	4,289.19	1/4	3,942.41	1/4	3,586.72	1/4	3,231.02	1/4	2,875.32	1/4	2,519.62	1/4	2,163.90	1/4	1,808.14
1/2		1/2	4,609.50	1/2	4,282.17	1/2	3,935.00	1/2	3,579.31	1/2	3,223.61	1/2	2,867.91	1/2	2,512.21	1/2	2,156.49	1/2	1,800.73
3/4		3/4	4,602.92	3/4	4,275.16	3/4	3,927.60	3/4	3,571.90	3/4	3,216.20	3/4	2,860.50	3/4	2,504.80	3/4	2,149.08	3/4	1,793.32
7		7	4,596.29	7	4,268.11	7	3,920.19	7	3,564.49	7	3,208.79	7	2,853.09	7	2,497.39	7	2,141.67	7	1,785.91
1/4		1/4	4,589.65	1/4	4,261.07	1/4	3,912.78	1/4	3,557.08	1/4	3,201.38	1/4	2,845.68	1/4	2,489.98	1/4	2,134.26	1/4	1,778.50
1/2		1/2	4,583.01	1/2	4,254.02	1/2	3,905.37	1/2	3,549.67	1/2	3,193.97	1/2	2,838.27	1/2	2,482.57	1/2	2,126.84	1/2	1,771.09
3/4		3/4	4,576.38	3/4	4,246.97	3/4	3,897.95	3/4	3,542.26	3/4	3,186.56	3/4	2,830.86	3/4	2,475.16	3/4	2,119.43	3/4	1,763.67
8		8	4,569.70	8	4,239.88	8	3,890.54	8	3,534.85	8	3,179.15	8	2,823.45	8	2,467.75	8	2,112.02	8	1,756.26
1/4		1/4	4,563.02	1/4	4,232.80	1/4	3,883.13	1/4	3,527.43	1/4	3,171.74	1/4	2,816.04	1/4	2,460.34	1/4	2,104.61	1/4	1,748.85
1/2		1/2	4,556.35	1/2	4,225.71	1/2	3,875.72	1/2	3,520.02	1/2	3,164.33	1/2	2,808.63	1/2	2,452.93	1/2	2,097.20	1/2	1,741.44
3/4		3/4	4,549.67	3/4	4,218.63	3/4	3,868.31	3/4	3,512.61	3/4	3,156.91	3/4	2,801.22	3/4	2,445.52	3/4	2,089.79	3/4	1,734.03
9		9	4,542.96	9	4,211.51	9	3,860.90	9	3,505.20	9	3,149.50	9	2,793.81	9	2,438.11	9	2,082.37	9	1,726.62
1/4		1/4	4,536.25	1/4	4,204.39	1/4	3,853.49	1/4	3,497.79	1/4	3,142.09	1/4	2,786.39	1/4	2,430.70	1/4	2,074.96	1/4	1,719.20
1/2		1/2	4,529.54	1/2	4,197.27	1/2	3,846.08	1/2	3,490.38	1/2	3,134.68	1/2	2,778.98	1/2	2,423.29	1/2	2,067.55	1/2	1,711.79
3/4		3/4	4,522.83	3/4	4,190.15	3/4	3,838.67	3/4	3,482.97	3/4	3,127.27	3/4	2,771.57	3/4	2,415.87	3/4	2,060.14	3/4	1,704.38
10		10	4,516.09	10	4,183.00	10	3,831.26	10	3,475.56	10	3,119.86	10	2,764.16	10	2,408.46	10	2,052.73	10	1,696.97
1/4		1/4	4,509.35	1/4	4,175.85	1/4	3,823.85	1/4	3,468.15	1/4	3,112.45	1/4	2,756.75	1/4	2,401.05	1/4	2,045.31	1/4	1,689.56
1/2		1/2	4,502.61	1/2	4,168.70	1/2	3,816.44	1/2	3,460.74	1/2	3,105.04	1/2	2,749.34	1/2	2,393.64	1/2	2,037.90	1/2	1,682.15
3/4	4,800.70	3/4	4,495.87	3/4	4,161.55	3/4	3,809.03	3/4	3,453.33	3/4	3,097.63	3/4	2,741.93	3/4	2,386.23	3/4	2,030.49	3/4	1,674.73
11	4,796.14	11	4,489.09	11	4,154.36	11	3,801.62	11	3,445.92	11	3,090.22	11	2,734.52	11	2,378.82	11	2,023.08	11	1,667.32
1/4	4,791.58	1/4	4,482.31	1/4	4,147.18	1/4	3,794.21	1/4	3,438.51	1/4	3,082.81	1/4	2,727.11	1/4	2,371.41	1/4	2,015.67	1/4	1,659.91
1/2	4,787.03	1/2	4,475.53	1/2	4,139.99	1/2	3,786.80	1/2	3,431.10	1/2	3,075.40	1/2	2,719.70	1/2	2,364.00	1/2	2,008.26	1/2	1,652.50
3/4	4,782.47	3/4	4,468.75	3/4	4,132.81	3/4	3,779.39	3/4	3,423.69	3/4	3,067.99	3/4	2,712.29	3/4	2,356.59	3/4	2,000.84	3/4	1,645.09

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

**1 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 14'-09 3/4"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,637.68	0	1,281.92	0	926.50	0	570.90	0	237.70	0		0		0		0		0	
1/4	1,630.26	1/4	1,274.51	1/4	919.09	1/4	563.56	1/4	231.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,622.85	1/2	1,267.10	1/2	911.68	1/2	556.22	1/2	224.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,615.44	3/4	1,259.68	3/4	904.28	3/4	548.88	3/4	218.18	3/4		3/4		3/4		3/4		3/4	
1	1,608.03	1	1,252.27	1	896.87	1	541.60	1	211.74	1		1		1		1		1	
1/4	1,600.62	1/4	1,244.86	1/4	889.45	1/4	534.33	1/4	205.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,593.21	1/2	1,237.45	1/2	882.04	1/2	527.06	1/2	198.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,585.80	3/4	1,230.04	3/4	874.63	3/4	519.79	3/4	192.43	3/4		3/4		3/4		3/4		3/4	
2	1,578.38	2	1,222.63	2	867.22	2	512.59	2	186.06	2		2		2		2		2	
1/4	1,570.97	1/4	1,215.22	1/4	859.81	1/4	505.38	1/4	179.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,563.56	1/2	1,207.80	1/2	852.40	1/2	498.18	1/2	173.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,556.15	3/4	1,200.39	3/4	844.99	3/4	490.98	3/4	166.96	3/4		3/4		3/4		3/4		3/4	
3	1,548.74	3	1,192.98	3	837.57	3	483.84	3	160.66	3		3		3		3		3	
1/4	1,541.33	1/4	1,185.57	1/4	830.16	1/4	476.71	1/4	154.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,533.91	1/2	1,178.16	1/2	822.75	1/2	469.58	1/2	148.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,526.50	3/4	1,170.75	3/4	815.34	3/4	462.44	3/4	141.77	3/4		3/4		3/4		3/4		3/4	
4	1,519.09	4	1,163.34	4	807.93	4	455.38	4	135.55	4		4		4		4		4	
1/4	1,511.68	1/4	1,155.93	1/4	800.52	1/4	448.32	1/4	129.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,504.27	1/2	1,148.53	1/2	793.11	1/2	441.25	1/2	123.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,496.86	3/4	1,141.12	3/4	785.69	3/4	434.19	3/4	116.89	3/4		3/4		3/4		3/4		3/4	
5	1,489.44	5	1,133.72	5	778.28	5	427.20	5	110.76	5		5		5		5		5	
1/4	1,482.03	1/4	1,126.32	1/4	770.87	1/4	420.20	1/4	104.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,474.62	1/2	1,118.92	1/2	763.46	1/2	413.21	1/2	98.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,467.21	3/4	1,111.52	3/4	756.05	3/4	406.21	3/4	92.34	3/4		3/4		3/4		3/4		3/4	
6	1,459.80	6	1,104.12	6	748.64	6	399.29	6	86.29	6		6		6		6		6	
1/4	1,452.39	1/4	1,096.72	1/4	741.23	1/4	392.37	1/4	80.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,444.97	1/2	1,089.32	1/2	733.81	1/2	385.44	1/2	74.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,437.56	3/4	1,081.92	3/4	726.40	3/4	378.52	3/4	68.15	3/4		3/4		3/4		3/4		3/4	
7	1,430.15	7	1,074.52	7	718.99	7	371.66	7	62.20	7		7		7		7		7	
1/4	1,422.74	1/4	1,067.11	1/4	711.58	1/4	364.81	1/4	56.25	1/4		1/4		1/4		1/4		1/4	
1/2	1,415.33	1/2	1,059.71	1/2	704.17	1/2	357.95	1/2	50.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,407.92	3/4	1,052.31	3/4	696.76	3/4	351.10	3/4	44.36	3/4		3/4		3/4		3/4		3/4	
8	1,400.51	8	1,044.91	8	689.35	8	344.31	8	39.07	8		8		8		8		8	
1/4	1,393.09	1/4	1,037.51	1/4	681.93	1/4	337.53	1/4	33.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,385.68	1/2	1,030.11	1/2	674.52	1/2	330.74	1/2	28.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,378.27	3/4	1,022.71	3/4	667.11	3/4	323.96	3/4	23.22	3/4		3/4		3/4		3/4		3/4	
9	1,370.86	9	1,015.31	9	659.70	9	317.24	9	19.82	9		9		9		9		9	
1/4	1,363.45	1/4	1,007.91	1/4	652.29	1/4	310.53	1/4	16.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,356.04	1/2	1,000.51	1/2	644.88	1/2	303.81	1/2	13.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,348.62	3/4	993.11	3/4	637.47	3/4	297.09	3/4	9.59	3/4		3/4		3/4		3/4		3/4	
10	1,341.21	10	985.71	10	630.05	10	290.45	10		10		10		10		10		10	
1/4	1,333.80	1/4	978.31	1/4	622.64	1/4	283.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,326.39	1/2	970.91	1/2	615.23	1/2	277.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,318.98	3/4	963.50	3/4	607.82	3/4	270.51	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,311.57	11	956.10	11	600.43	11	263.93	11		11		11		11		11		11	
1/4	1,304.15	1/4	948.70	1/4	593.03	1/4	257.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,296.74	1/2	941.30	1/2	585.64	1/2	250.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,289.33	3/4	933.90	3/4	578.24	3/4	244.20	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

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



# BARGE "CCL 420-T"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-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	5,296.63	0	4,958.92	0	4,593.01	0	4,207.65	0	3,819.33	0	3,431.01	0	3,042.69	0	2,654.37	0	2,266.01		
1/4	1/4	5,291.65	1/4	4,951.52	1/4	4,585.16	1/4	4,199.56	1/4	3,811.24	1/4	3,422.92	1/4	3,034.60	1/4	2,646.28	1/4	2,257.91		
1/2	1/2	5,286.67	1/2	4,944.12	1/2	4,577.32	1/2	4,191.47	1/2	3,803.15	1/2	3,414.83	1/2	3,026.51	1/2	2,638.19	1/2	2,249.82		
3/4	3/4	5,280.35	3/4	4,936.68	3/4	4,569.44	3/4	4,183.38	3/4	3,795.06	3/4	3,406.74	3/4	3,018.42	3/4	2,630.10	3/4	2,241.73		
1	1	5,274.03	1	4,929.23	1	4,561.56	1	4,175.29	1	3,786.97	1	3,398.65	1	3,010.33	1	2,622.01	1	2,233.64		
1/4	1/4	5,267.70	1/4	4,921.79	1/4	4,553.68	1/4	4,167.20	1/4	3,778.88	1/4	3,390.56	1/4	3,002.24	1/4	2,613.92	1/4	2,225.55		
1/2	1/2	5,261.38	1/2	4,914.35	1/2	4,545.80	1/2	4,159.11	1/2	3,770.79	1/2	3,382.47	1/2	2,994.15	1/2	2,605.83	1/2	2,217.46		
3/4	3/4	5,254.25	3/4	4,906.87	3/4	4,537.87	3/4	4,151.02	3/4	3,762.70	3/4	3,374.38	3/4	2,986.06	3/4	2,597.74	3/4	2,209.37		
2	2	5,247.13	2	4,899.40	2	4,529.95	2	4,142.93	2	3,754.61	2	3,366.29	2	2,977.97	2	2,589.65	2	2,201.28		
1/4	1/4	5,240.00	1/4	4,891.92	1/4	4,522.02	1/4	4,134.84	1/4	3,746.52	1/4	3,358.20	1/4	2,969.88	1/4	2,581.56	1/4	2,193.18		
1/2	1/2	5,232.88	1/2	4,884.44	1/2	4,514.10	1/2	4,126.75	1/2	3,738.43	1/2	3,350.11	1/2	2,961.79	1/2	2,573.47	1/2	2,185.09		
3/4	3/4	5,225.74	3/4	4,876.93	3/4	4,506.12	3/4	4,118.66	3/4	3,730.34	3/4	3,342.02	3/4	2,953.70	3/4	2,565.38	3/4	2,177.00		
3	3	5,218.60	3	4,869.41	3	4,498.15	3	4,110.57	3	3,722.25	3	3,333.93	3	2,945.61	3	2,557.29	3	2,168.91		
1/4	1/4	5,211.46	1/4	4,861.90	1/4	4,490.17	1/4	4,102.48	1/4	3,714.16	1/4	3,325.84	1/4	2,937.52	1/4	2,549.20	1/4	2,160.82		
1/2	1/2	5,204.33	1/2	4,854.39	1/2	4,482.20	1/2	4,094.39	1/2	3,706.07	1/2	3,317.75	1/2	2,929.43	1/2	2,541.11	1/2	2,152.73		
3/4	3/4	5,197.28	3/4	4,846.84	3/4	4,474.18	3/4	4,086.30	3/4	3,697.98	3/4	3,309.66	3/4	2,921.34	3/4	2,533.02	3/4	2,144.64		
4	4	5,190.24	4	4,839.29	4	4,466.17	4	4,078.21	4	3,689.89	4	3,301.57	4	2,913.25	4	2,524.93	4	2,136.54		
1/4	1/4	5,183.20	1/4	4,831.74	1/4	4,458.15	1/4	4,070.12	1/4	3,681.80	1/4	3,293.48	1/4	2,905.16	1/4	2,516.84	1/4	2,128.45		
1/2	1/2	5,176.16	1/2	4,824.19	1/2	4,450.14	1/2	4,062.03	1/2	3,673.71	1/2	3,285.39	1/2	2,897.07	1/2	2,508.74	1/2	2,120.36		
3/4	3/4	5,169.08	3/4	4,816.60	3/4	4,442.09	3/4	4,053.94	3/4	3,665.62	3/4	3,277.30	3/4	2,888.98	3/4	2,500.65	3/4	2,112.27		
5	5	5,161.99	5	4,809.02	5	4,434.04	5	4,045.85	5	3,657.53	5	3,269.21	5	2,880.89	5	2,492.56	5	2,104.18		
1/4	1/4	5,154.91	1/4	4,801.43	1/4	4,425.99	1/4	4,037.76	1/4	3,649.44	1/4	3,261.12	1/4	2,872.80	1/4	2,484.47	1/4	2,096.09		
1/2	1/2	5,147.83	1/2	4,793.85	1/2	4,417.94	1/2	4,029.67	1/2	3,641.35	1/2	3,253.03	1/2	2,864.71	1/2	2,476.38	1/2	2,088.00		
3/4	3/4	5,140.71	3/4	4,786.23	3/4	4,409.86	3/4	4,021.58	3/4	3,633.26	3/4	3,244.94	3/4	2,856.62	3/4	2,468.29	3/4	2,079.91		
6	6	5,133.59	6	4,778.61	6	4,401.79	6	4,013.49	6	3,625.17	6	3,236.85	6	2,848.53	6	2,460.20	6	2,071.81		
1/4	1/4	5,126.47	1/4	4,770.99	1/4	4,393.71	1/4	4,005.40	1/4	3,617.08	1/4	3,228.76	1/4	2,840.44	1/4	2,452.11	1/4	2,063.72		
1/2	1/2	5,119.35	1/2	4,763.37	1/2	4,385.63	1/2	3,997.31	1/2	3,608.99	1/2	3,220.67	1/2	2,832.35	1/2	2,444.01	1/2	2,055.63		
3/4	3/4	5,112.17	3/4	4,755.71	3/4	4,377.54	3/4	3,989.22	3/4	3,600.90	3/4	3,212.58	3/4	2,824.26	3/4	2,435.92	3/4	2,047.54		
7	7	5,104.98	7	4,748.05	7	4,369.45	7	3,981.13	7	3,592.81	7	3,204.49	7	2,816.17	7	2,427.83	7	2,039.45		
1/4	1/4	5,097.80	1/4	4,740.40	1/4	4,361.36	1/4	3,973.04	1/4	3,584.72	1/4	3,196.40	1/4	2,808.08	1/4	2,419.74	1/4	2,031.36		
1/2	1/2	5,090.62	1/2	4,732.74	1/2	4,353.27	1/2	3,964.95	1/2	3,576.63	1/2	3,188.31	1/2	2,799.99	1/2	2,411.65	1/2	2,023.27		
3/4	3/4	5,083.37	3/4	4,725.04	3/4	4,345.18	3/4	3,956.86	3/4	3,568.54	3/4	3,180.22	3/4	2,791.90	3/4	2,403.56	3/4	2,015.18		
8	8	5,076.13	8	4,717.35	8	4,337.09	8	3,948.77	8	3,560.45	8	3,172.13	8	2,783.81	8	2,395.47	8	2,007.08		
1/4	1/4	5,068.88	1/4	4,709.65	1/4	4,329.00	1/4	3,940.68	1/4	3,552.36	1/4	3,164.04	1/4	2,775.72	1/4	2,387.38	1/4	1,998.99		
1/2	1/2	5,061.63	1/2	4,701.96	1/2	4,320.91	1/2	3,932.59	1/2	3,544.27	1/2	3,155.95	1/2	2,767.63	1/2	2,379.28	1/2	1,990.90		
3/4	3/4	5,054.34	3/4	4,694.22	3/4	4,312.82	3/4	3,924.50	3/4	3,536.18	3/4	3,147.86	3/4	2,759.54	3/4	2,371.19	3/4	1,982.81		
9	9	5,047.05	9	4,686.49	9	4,304.73	9	3,916.41	9	3,528.09	9	3,139.77	9	2,751.45	9	2,363.10	9	1,974.72		
1/4	1/4	5,039.76	1/4	4,678.75	1/4	4,296.64	1/4	3,908.32	1/4	3,520.00	1/4	3,131.68	1/4	2,743.36	1/4	2,355.01	1/4	1,966.63		
1/2	1/2	5,032.47	1/2	4,671.02	1/2	4,288.55	1/2	3,900.23	1/2	3,511.91	1/2	3,123.59	1/2	2,735.27	1/2	2,346.92	1/2	1,958.54		
3/4	3/4	5,025.15	3/4	4,663.24	3/4	4,280.46	3/4	3,892.14	3/4	3,503.82	3/4	3,115.50	3/4	2,727.18	3/4	2,338.83	3/4	1,950.45		
10	10	5,017.82	10	4,655.47	10	4,272.37	10	3,884.05	10	3,495.73	10	3,107.41	10	2,719.09	10	2,330.74	10	1,942.35		
1/4	1/4	5,010.49	1/4	4,647.70	1/4	4,264.28	1/4	3,875.96	1/4	3,487.64	1/4	3,099.32	1/4	2,711.00	1/4	2,322.64	1/4	1,934.26		
1/2	1/2	5,003.17	1/2	4,639.93	1/2	4,256.19	1/2	3,867.87	1/2	3,479.55	1/2	3,091.23	1/2	2,702.91	1/2	2,314.55	1/2	1,926.17		
3/4	3/4	4,995.81	3/4	4,632.12	3/4	4,248.10	3/4	3,859.78	3/4	3,471.46	3/4	3,083.14	3/4	2,694.82	3/4	2,306.46	3/4	1,918.08		
11	11	4,988.44	11	4,624.31	11	4,240.01	11	3,851.69	11	3,463.37	11	3,075.05	11	2,686.73	11	2,298.37	11	1,909.99		
1/4	1/4	4,981.08	1/4	4,616.50	1/4	4,231.92	1/4	3,843.60	1/4	3,455.28	1/4	3,066.96	1/4	2,678.64	1/4	2,290.28	1/4	1,901.90		
1/2	1/2	5,306.58	1/2	4,973.72	1/2	4,608.69	1/2	4,223.83	1/2	3,835.51	1/2	3,447.19	1/2	3,058.87	1/2	2,670.55	1/2	2,282.19	1/2	1,893.81
3/4	3/4	5,301.60	3/4	4,966.32	3/4	4,600.85	3/4	4,215.74	3/4	3,827.42	3/4	3,439.10	3/4	3,050.78	3/4	2,662.46	3/4	2,274.10	3/4	1,885.71

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-10 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	1,877.62	0	1,489.24	0	1,111.11	0	727.70	0	339.33	0		0		0		0		0	
1/4	1,869.53	1/4	1,481.15	1/4	1,103.34	1/4	719.61	1/4	331.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,861.44	1/2	1,473.06	1/2	1,095.57	1/2	711.52	1/2	323.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,853.35	3/4	1,464.97	3/4	1,087.80	3/4	703.43	3/4	315.06	3/4		3/4		3/4		3/4		3/4	
1	1,845.26	1	1,456.88	1	1,080.02	1	695.34	1	306.97	1		1		1		1		1	
1/4	1,837.17	1/4	1,448.78	1/4	1,072.24	1/4	687.25	1/4	298.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,829.08	1/2	1,440.69	1/2	1,064.46	1/2	679.16	1/2	290.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,820.98	3/4	1,432.60	3/4	1,056.68	3/4	671.06	3/4	282.69	3/4		3/4		3/4		3/4		3/4	
2	1,812.89	2	1,424.51	2	1,048.89	2	662.97	2	274.60	2		2		2		2		2	
1/4	1,804.80	1/4	1,416.42	1/4	1,041.11	1/4	654.88	1/4	266.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,796.71	1/2	1,408.33	1/2	1,033.32	1/2	646.79	1/2	258.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,788.62	3/4	1,400.24	3/4	1,025.54	3/4	638.70	3/4	250.33	3/4		3/4		3/4		3/4		3/4	
3	1,780.53	3	1,392.15	3	1,017.75	3	630.61	3	242.24	3		3		3		3		3	
1/4	1,772.44	1/4	1,384.05	1/4	1,009.97	1/4	622.52	1/4	234.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,764.35	1/2	1,375.96	1/2	1,002.18	1/2	614.43	1/2	226.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,756.25	3/4	1,368.02	3/4	994.25	3/4	606.34	3/4	217.97	3/4		3/4		3/4		3/4		3/4	
4	1,748.16	4	1,360.09	4	986.31	4	598.24	4	209.88	4		4		4		4		4	
1/4	1,740.07	1/4	1,352.15	1/4	978.37	1/4	590.15	1/4	201.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,731.98	1/2	1,344.21	1/2	970.44	1/2	582.06	1/2	193.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,723.89	3/4	1,336.43	3/4	962.34	3/4	573.97	3/4	185.62	3/4		3/4		3/4		3/4		3/4	
5	1,715.80	5	1,328.66	5	954.25	5	565.88	5	177.54	5		5		5		5		5	
1/4	1,707.71	1/4	1,320.88	1/4	946.16	1/4	557.79	1/4	169.46	1/4		1/4		1/4		1/4		1/4	
1/2	1,699.61	1/2	1,313.10	1/2	938.07	1/2	549.70	1/2	161.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,691.52	3/4	1,305.33	3/4	929.98	3/4	541.61	3/4	153.31	3/4		3/4		3/4		3/4		3/4	
6	1,683.43	6	1,297.56	6	921.89	6	533.52	6	145.24	6		6		6		6		6	
1/4	1,675.34	1/4	1,289.80	1/4	913.80	1/4	525.43	1/4	137.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,667.25	1/2	1,282.03	1/2	905.71	1/2	517.33	1/2	129.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,659.16	3/4	1,274.26	3/4	897.62	3/4	509.24	3/4	121.06	3/4		3/4		3/4		3/4		3/4	
7	1,651.07	7	1,266.49	7	889.52	7	501.15	7	113.01	7		7		7		7		7	
1/4	1,642.98	1/4	1,258.72	1/4	881.43	1/4	493.06	1/4	104.96	1/4		1/4		1/4		1/4		1/4	
1/2	1,634.88	1/2	1,250.95	1/2	873.34	1/2	484.97	1/2	96.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,626.79	3/4	1,243.18	3/4	865.25	3/4	476.88	3/4	88.91	3/4		3/4		3/4		3/4		3/4	
8	1,618.70	8	1,235.41	8	857.16	8	468.79	8	80.89	8		8		8		8		8	
1/4	1,610.61	1/4	1,227.64	1/4	849.07	1/4	460.70	1/4	72.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,602.52	1/2	1,219.88	1/2	840.98	1/2	452.61	1/2	64.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,594.43	3/4	1,212.11	3/4	832.89	3/4	444.51	3/4	57.51	3/4		3/4		3/4		3/4		3/4	
9	1,586.34	9	1,204.34	9	824.80	9	436.42	9	50.14	9		9		9		9		9	
1/4	1,578.25	1/4	1,196.57	1/4	816.70	1/4	428.33	1/4	42.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,570.15	1/2	1,188.80	1/2	808.61	1/2	420.24	1/2	35.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,562.06	3/4	1,181.03	3/4	800.52	3/4	412.15	3/4	30.03	3/4		3/4		3/4		3/4		3/4	
10	1,553.97	10	1,173.26	10	792.43	10	404.06	10	24.63	10		10		10		10		10	
1/4	1,545.88	1/4	1,165.49	1/4	784.34	1/4	395.97	1/4	19.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,537.79	1/2	1,157.72	1/2	776.25	1/2	387.88	1/2	13.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,529.70	3/4	1,149.96	3/4	768.16	3/4	379.79	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,521.61	11	1,142.19	11	760.07	11	371.69	11		11		11		11		11		11	
1/4	1,513.51	1/4	1,134.42	1/4	751.98	1/4	363.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,505.42	1/2	1,126.65	1/2	743.88	1/2	355.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,497.33	3/4	1,118.88	3/4	735.79	3/4	347.42	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

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



# BARGE "CCL 420-T"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	5,315.55	0	4,980.36	0	4,614.98	0	4,229.97	0	3,841.73	0	3,453.50	0	3,065.27	0	2,677.03	0	2,288.76	
1/4	1/4	5,310.58	1/4	4,972.96	1/4	4,607.13	1/4	4,221.88	1/4	3,833.65	1/4	3,445.41	1/4	3,057.18	1/4	2,668.95	1/4	2,280.67	
1/2	1/2	5,305.60	1/2	4,965.56	1/2	4,599.29	1/2	4,213.79	1/2	3,825.56	1/2	3,437.32	1/2	3,049.09	1/2	2,660.86	1/2	2,272.58	
3/4	3/4	5,300.63	3/4	4,958.16	3/4	4,591.45	3/4	4,205.70	3/4	3,817.47	3/4	3,429.24	3/4	3,041.00	3/4	2,652.77	3/4	2,264.49	
1	1	5,294.31	1	4,950.72	1	4,583.57	1	4,197.62	1	3,809.38	1	3,421.15	1	3,032.91	1	2,644.68	1	2,256.40	
1/4	1/4	5,287.98	1/4	4,943.28	1/4	4,575.69	1/4	4,189.53	1/4	3,801.29	1/4	3,413.06	1/4	3,024.83	1/4	2,636.59	1/4	2,248.31	
1/2	1/2	5,281.66	1/2	4,935.84	1/2	4,567.82	1/2	4,181.44	1/2	3,793.21	1/2	3,404.97	1/2	3,016.74	1/2	2,628.50	1/2	2,240.22	
3/4	3/4	5,275.34	3/4	4,928.40	3/4	4,559.94	3/4	4,173.35	3/4	3,785.12	3/4	3,396.88	3/4	3,008.65	3/4	2,620.42	3/4	2,232.13	
2	2	5,268.21	2	4,920.93	2	4,552.02	2	4,165.26	2	3,777.03	2	3,388.80	2	3,000.56	2	2,612.33	2	2,224.04	
1/4	1/4	5,261.09	1/4	4,913.45	1/4	4,544.09	1/4	4,157.17	1/4	3,768.94	1/4	3,380.71	1/4	2,992.47	1/4	2,604.24	1/4	2,215.95	
1/2	1/2	5,253.97	1/2	4,905.97	1/2	4,536.17	1/2	4,149.09	1/2	3,760.85	1/2	3,372.62	1/2	2,984.39	1/2	2,596.15	1/2	2,207.86	
3/4	3/4	5,246.84	3/4	4,898.50	3/4	4,528.24	3/4	4,141.00	3/4	3,752.76	3/4	3,364.53	3/4	2,976.30	3/4	2,588.06	3/4	2,199.77	
3	3	5,239.71	3	4,890.99	3	4,520.27	3	4,132.91	3	3,744.68	3	3,356.44	3	2,968.21	3	2,579.97	3	2,191.68	
1/4	1/4	5,232.57	1/4	4,883.47	1/4	4,512.30	1/4	4,124.82	1/4	3,736.59	1/4	3,348.35	1/4	2,960.12	1/4	2,571.89	1/4	2,183.60	
1/2	1/2	5,225.44	1/2	4,875.96	1/2	4,504.32	1/2	4,116.73	1/2	3,728.50	1/2	3,340.27	1/2	2,952.03	1/2	2,563.80	1/2	2,175.51	
3/4	3/4	5,218.30	3/4	4,868.45	3/4	4,496.35	3/4	4,108.65	3/4	3,720.41	3/4	3,332.18	3/4	2,943.94	3/4	2,555.71	3/4	2,167.42	
4	4	5,211.26	4	4,860.90	4	4,488.34	4	4,100.56	4	3,712.32	4	3,324.09	4	2,935.86	4	2,547.62	4	2,159.33	
1/4	1/4	5,204.22	1/4	4,853.36	1/4	4,480.33	1/4	4,092.47	1/4	3,704.24	1/4	3,316.00	1/4	2,927.77	1/4	2,539.53	1/4	2,151.24	
1/2	1/2	5,197.18	1/2	4,845.81	1/2	4,472.31	1/2	4,084.38	1/2	3,696.15	1/2	3,307.91	1/2	2,919.68	1/2	2,531.44	1/2	2,143.15	
3/4	3/4	5,190.14	3/4	4,838.26	3/4	4,464.30	3/4	4,076.29	3/4	3,688.06	3/4	3,299.83	3/4	2,911.59	3/4	2,523.35	3/4	2,135.06	
5	5	5,183.06	5	4,830.68	5	4,456.25	5	4,068.20	5	3,679.97	5	3,291.74	5	2,903.50	5	2,515.26	5	2,126.97	
1/4	1/4	5,175.98	1/4	4,823.09	1/4	4,448.20	1/4	4,060.12	1/4	3,671.88	1/4	3,283.65	1/4	2,895.42	1/4	2,507.17	1/4	2,118.88	
1/2	1/2	5,168.90	1/2	4,815.51	1/2	4,440.16	1/2	4,052.03	1/2	3,663.79	1/2	3,275.56	1/2	2,887.33	1/2	2,499.08	1/2	2,110.79	
3/4	3/4	5,161.82	3/4	4,807.93	3/4	4,432.11	3/4	4,043.94	3/4	3,655.71	3/4	3,267.47	3/4	2,879.24	3/4	2,490.99	3/4	2,102.70	
6	6	5,154.70	6	4,800.31	6	4,424.03	6	4,035.85	6	3,647.62	6	3,259.38	6	2,871.15	6	2,482.90	6	2,094.61	
1/4	1/4	5,147.58	1/4	4,792.69	1/4	4,415.96	1/4	4,027.76	1/4	3,639.53	1/4	3,251.30	1/4	2,863.06	1/4	2,474.81	1/4	2,086.52	
1/2	1/2	5,140.46	1/2	4,785.07	1/2	4,407.88	1/2	4,019.68	1/2	3,631.44	1/2	3,243.21	1/2	2,854.97	1/2	2,466.72	1/2	2,078.43	
3/4	3/4	5,133.34	3/4	4,777.45	3/4	4,399.81	3/4	4,011.59	3/4	3,623.35	3/4	3,235.12	3/4	2,846.89	3/4	2,458.63	3/4	2,070.34	
7	7	5,126.16	7	4,769.80	7	4,391.72	7	4,003.50	7	3,615.27	7	3,227.03	7	2,838.80	7	2,450.55	7	2,062.25	
1/4	1/4	5,118.99	1/4	4,762.14	1/4	4,383.64	1/4	3,995.41	1/4	3,607.18	1/4	3,218.94	1/4	2,830.71	1/4	2,442.46	1/4	2,054.16	
1/2	1/2	5,111.81	1/2	4,754.49	1/2	4,375.55	1/2	3,987.32	1/2	3,599.09	1/2	3,210.86	1/2	2,822.62	1/2	2,434.37	1/2	2,046.08	
3/4	3/4	5,104.63	3/4	4,746.83	3/4	4,367.47	3/4	3,979.23	3/4	3,591.00	3/4	3,202.77	3/4	2,814.53	3/4	2,426.28	3/4	2,037.99	
8	8	5,097.38	8	4,739.14	8	4,359.38	8	3,971.15	8	3,582.91	8	3,194.68	8	2,806.45	8	2,418.19	8	2,029.90	
1/4	1/4	5,090.14	1/4	4,731.45	1/4	4,351.29	1/4	3,963.06	1/4	3,574.82	1/4	3,186.59	1/4	2,798.36	1/4	2,410.10	1/4	2,021.81	
1/2	1/2	5,082.89	1/2	4,723.75	1/2	4,343.20	1/2	3,954.97	1/2	3,566.74	1/2	3,178.50	1/2	2,790.27	1/2	2,402.01	1/2	2,013.72	
3/4	3/4	5,075.65	3/4	4,716.06	3/4	4,335.12	3/4	3,946.88	3/4	3,558.65	3/4	3,170.41	3/4	2,782.18	3/4	2,393.92	3/4	2,005.63	
9	9	5,068.36	9	4,708.33	9	4,327.03	9	3,938.79	9	3,550.56	9	3,162.33	9	2,774.09	9	2,385.83	9	1,997.54	
1/4	1/4	5,061.07	1/4	4,700.59	1/4	4,318.94	1/4	3,930.71	1/4	3,542.47	1/4	3,154.24	1/4	2,766.00	1/4	2,377.74	1/4	1,989.45	
1/2	1/2	5,053.78	1/2	4,692.86	1/2	4,310.85	1/2	3,922.62	1/2	3,534.38	1/2	3,146.15	1/2	2,757.92	1/2	2,369.65	1/2	1,981.36	
3/4	3/4	5,046.49	3/4	4,685.12	3/4	4,302.76	3/4	3,914.53	3/4	3,526.30	3/4	3,138.06	3/4	2,749.83	3/4	2,361.56	3/4	1,973.27	
10	10	5,039.17	10	4,677.35	10	4,294.67	10	3,906.44	10	3,518.21	10	3,129.97	10	2,741.74	10	2,353.47	10	1,965.18	
1/4	1/4	5,031.84	1/4	4,669.58	1/4	4,286.59	1/4	3,898.35	1/4	3,510.12	1/4	3,121.89	1/4	2,733.65	1/4	2,345.38	1/4	1,957.09	
1/2	1/2	5,024.52	1/2	4,661.81	1/2	4,278.50	1/2	3,890.26	1/2	3,502.03	1/2	3,113.80	1/2	2,725.56	1/2	2,337.29	1/2	1,949.00	
3/4	3/4	5,017.19	3/4	4,654.04	3/4	4,270.41	3/4	3,882.18	3/4	3,493.94	3/4	3,105.71	3/4	2,717.48	3/4	2,329.20	3/4	1,940.91	
11	11	5,009.83	11	4,646.24	11	4,262.32	11	3,874.09	11	3,485.85	11	3,097.62	11	2,709.39	11	2,321.11	11	1,932.82	
1/4	1/4	5,002.47	1/4	4,638.43	1/4	4,254.23	1/4	3,866.00	1/4	3,477.77	1/4	3,089.53	1/4	2,701.30	1/4	2,313.03	1/4	1,924.73	
1/2	1/2	4,995.11	1/2	4,630.62	1/2	4,246.15	1/2	3,857.91	1/2	3,469.68	1/2	3,081.44	1/2	2,693.21	1/2	2,304.94	1/2	1,916.64	
3/4	3/4	5,320.53	3/4	4,987.75	3/4	4,622.82	3/4	4,238.06	3/4	3,849.82	3/4	3,461.59	3/4	3,073.36	3/4	2,685.12	3/4	2,296.85	

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,900.47	0	1,512.17	0	1,123.91	0	735.63	0	347.35	0		0		0		0		0	
1/4	1,892.38	1/4	1,504.09	1/4	1,115.82	1/4	727.54	1/4	339.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,884.29	1/2	1,496.00	1/2	1,107.73	1/2	719.45	1/2	331.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,876.20	3/4	1,487.91	3/4	1,099.64	3/4	711.36	3/4	323.08	3/4		3/4		3/4		3/4		3/4	
1	1,868.11	1	1,479.82	1	1,091.55	1	703.27	1	314.99	1		1		1		1		1	
1/4	1,860.02	1/4	1,471.73	1/4	1,083.46	1/4	695.18	1/4	306.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,851.93	1/2	1,463.64	1/2	1,075.37	1/2	687.09	1/2	298.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,843.84	3/4	1,455.55	3/4	1,067.28	3/4	679.00	3/4	290.72	3/4		3/4		3/4		3/4		3/4	
2	1,835.75	2	1,447.46	2	1,059.20	2	670.91	2	282.63	2		2		2		2		2	
1/4	1,827.66	1/4	1,439.37	1/4	1,051.11	1/4	662.82	1/4	274.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,819.57	1/2	1,431.28	1/2	1,043.02	1/2	654.74	1/2	266.45	1/2		1/2		1/2		1/2		1/2	
3/4	1,811.48	3/4	1,423.19	3/4	1,034.93	3/4	646.65	3/4	258.36	3/4		3/4		3/4		3/4		3/4	
3	1,803.39	3	1,415.10	3	1,026.84	3	638.56	3	250.28	3		3		3		3		3	
1/4	1,795.30	1/4	1,407.01	1/4	1,018.75	1/4	630.47	1/4	242.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,787.21	1/2	1,398.92	1/2	1,010.66	1/2	622.38	1/2	234.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,779.13	3/4	1,390.83	3/4	1,002.57	3/4	614.29	3/4	226.01	3/4		3/4		3/4		3/4		3/4	
4	1,771.04	4	1,382.74	4	994.48	4	606.20	4	217.92	4		4		4		4		4	
1/4	1,762.95	1/4	1,374.66	1/4	986.39	1/4	598.11	1/4	209.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,754.86	1/2	1,366.57	1/2	978.30	1/2	590.02	1/2	201.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,746.77	3/4	1,358.48	3/4	970.21	3/4	581.93	3/4	193.66	3/4		3/4		3/4		3/4		3/4	
5	1,738.68	5	1,350.39	5	962.13	5	573.84	5	185.58	5		5		5		5		5	
1/4	1,730.59	1/4	1,342.30	1/4	954.04	1/4	565.75	1/4	177.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,722.50	1/2	1,334.21	1/2	945.95	1/2	557.67	1/2	169.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,714.41	3/4	1,326.12	3/4	937.86	3/4	549.58	3/4	161.35	3/4		3/4		3/4		3/4		3/4	
6	1,706.32	6	1,318.03	6	929.77	6	541.49	6	153.28	6		6		6		6		6	
1/4	1,698.23	1/4	1,309.94	1/4	921.68	1/4	533.40	1/4	145.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,690.14	1/2	1,301.85	1/2	913.59	1/2	525.31	1/2	137.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,682.05	3/4	1,293.77	3/4	905.50	3/4	517.22	3/4	129.08	3/4		3/4		3/4		3/4		3/4	
7	1,673.96	7	1,285.68	7	897.41	7	509.13	7	121.04	7		7		7		7		7	
1/4	1,665.87	1/4	1,277.59	1/4	889.32	1/4	501.04	1/4	112.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,657.78	1/2	1,269.50	1/2	881.23	1/2	492.95	1/2	104.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,649.69	3/4	1,261.41	3/4	873.14	3/4	484.86	3/4	96.90	3/4		3/4		3/4		3/4		3/4	
8	1,641.61	8	1,253.32	8	865.05	8	476.77	8	88.89	8		8		8		8		8	
1/4	1,633.52	1/4	1,245.23	1/4	856.97	1/4	468.68	1/4	80.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,625.43	1/2	1,237.15	1/2	848.88	1/2	460.59	1/2	72.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,617.34	3/4	1,229.06	3/4	840.79	3/4	452.51	3/4	64.86	3/4		3/4		3/4		3/4		3/4	
9	1,609.25	9	1,220.97	9	832.70	9	444.42	9	57.50	9		9		9		9		9	
1/4	1,601.16	1/4	1,212.88	1/4	824.61	1/4	436.33	1/4	50.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,593.07	1/2	1,204.79	1/2	816.52	1/2	428.24	1/2	42.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,584.98	3/4	1,196.70	3/4	808.43	3/4	420.15	3/4	35.41	3/4		3/4		3/4		3/4		3/4	
10	1,576.89	10	1,188.61	10	800.34	10	412.06	10	30.02	10		10		10		10		10	
1/4	1,568.80	1/4	1,180.53	1/4	792.25	1/4	403.97	1/4	24.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,560.71	1/2	1,172.44	1/2	784.16	1/2	395.88	1/2	19.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,552.62	3/4	1,164.35	3/4	776.07	3/4	387.79	3/4	13.85	3/4		3/4		3/4		3/4		3/4	
11	1,544.53	11	1,156.26	11	767.98	11	379.70	11		11		11		11		11		11	
1/4	1,536.44	1/4	1,148.17	1/4	759.90	1/4	371.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,528.35	1/2	1,140.08	1/2	751.81	1/2	363.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,520.26	3/4	1,131.99	3/4	743.72	3/4	355.44	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2024 JS  
CALCULATED: 11/13/2024 CL  
PRINTED: 11/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

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



# BARGE "CCL 420-T"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0	4,455.64	0	4,251.37	0	4,020.84	0	3,772.45	0	3,521.34	0	3,181.29	0	2,821.39	0	2,461.40	0	2,101.33		
1/4	1/4	1/4	4,453.31	1/4	4,246.78	1/4	4,015.83	1/4	3,767.21	1/4	3,516.11	1/4	3,173.80	1/4	2,813.89	1/4	2,453.90	1/4	2,093.83		
1/2	1/2	1/2	4,450.97	1/2	4,242.18	1/2	4,010.83	1/2	3,761.98	1/2	3,510.88	1/2	3,166.30	1/2	2,806.39	1/2	2,446.40	1/2	2,086.32		
3/4	3/4	3/4	4,447.38	3/4	4,237.55	3/4	4,005.79	3/4	3,756.75	3/4	3,505.64	3/4	3,158.80	3/4	2,798.90	3/4	2,438.89	3/4	2,078.85		
1	1	1	4,443.78	1	4,232.92	1	4,000.74	1	3,751.52	1	3,500.41	1	3,151.30	1	2,791.40	1	2,431.39	1	2,071.37		
1/4	1/4	1/4	4,440.19	1/4	4,228.28	1/4	3,995.70	1/4	3,746.29	1/4	3,495.18	1/4	3,143.80	1/4	2,783.90	1/4	2,423.89	1/4	2,063.89		
1/2	1/2	1/2	4,436.59	1/2	4,223.65	1/2	3,990.66	1/2	3,741.06	1/2	3,489.95	1/2	3,136.31	1/2	2,776.40	1/2	2,416.39	1/2	2,056.41		
3/4	3/4	3/4	4,432.26	3/4	4,218.98	3/4	3,985.58	3/4	3,735.83	3/4	3,483.85	3/4	3,128.81	3/4	2,768.90	3/4	2,408.89	3/4	2,048.96		
2	2	2	4,427.92	2	4,214.31	2	3,980.50	2	3,730.59	2	3,477.76	2	3,121.31	2	2,761.41	2	2,401.39	2	2,041.51		
1/4	1/4	1/4	4,423.58	1/4	4,209.65	1/4	3,975.42	1/4	3,725.36	1/4	3,471.66	1/4	3,113.81	1/4	2,753.91	1/4	2,393.89	1/4	2,034.06		
1/2	1/2	1/2	4,419.24	1/2	4,204.98	1/2	3,970.33	1/2	3,720.13	1/2	3,465.57	1/2	3,106.31	1/2	2,746.41	1/2	2,386.39	1/2	2,026.61		
3/4	3/4	3/4	4,414.89	3/4	4,200.28	3/4	3,965.21	3/4	3,714.90	3/4	3,458.32	3/4	3,098.82	3/4	2,738.91	3/4	2,378.89	3/4	2,019.16		
3	3	3	4,410.54	3	4,195.58	3	3,960.08	3	3,709.67	3	3,451.08	3	3,091.32	3	2,731.41	3	2,371.39	3	2,011.71		
1/4	1/4	1/4	4,406.19	1/4	4,190.88	1/4	3,954.96	1/4	3,704.44	1/4	3,443.83	1/4	3,083.82	1/4	2,723.92	1/4	2,363.89	1/4	2,004.26		
1/2	1/2	1/2	4,401.84	1/2	4,186.18	1/2	3,949.83	1/2	3,699.21	1/2	3,436.59	1/2	3,076.32	1/2	2,716.42	1/2	2,356.38	1/2	1,996.81		
3/4	3/4	3/4	4,397.58	3/4	4,181.44	3/4	3,944.67	3/4	3,693.97	3/4	3,429.05	3/4	3,068.82	3/4	2,708.92	3/4	2,348.88	3/4	1,989.35		
4	4	4	4,393.31	4	4,176.71	4	3,939.51	4	3,688.74	4	3,421.52	4	3,061.33	4	2,701.42	4	2,341.38	4	1,981.90		
1/4	1/4	1/4	4,389.05	1/4	4,171.97	1/4	3,934.35	1/4	3,683.51	1/4	3,413.98	1/4	3,053.83	1/4	2,693.92	1/4	2,333.88	1/4	1,974.45		
1/2	1/2	1/2	4,384.79	1/2	4,167.24	1/2	3,929.19	1/2	3,678.28	1/2	3,406.45	1/2	3,046.33	1/2	2,686.43	1/2	2,326.38	1/2	1,967.00		
3/4	3/4	3/4	4,380.49	3/4	4,162.47	3/4	3,923.99	3/4	3,673.05	3/4	3,398.92	3/4	3,038.83	3/4	2,678.93	3/4	2,318.88	3/4	1,959.55		
5	5	5	4,376.19	5	4,157.71	5	3,918.80	5	3,667.82	5	3,391.38	5	3,031.33	5	2,671.43	5	2,311.38	5	1,952.10		
1/4	1/4	1/4	4,371.90	1/4	4,152.94	1/4	3,913.61	1/4	3,662.59	1/4	3,383.85	1/4	3,023.84	1/4	2,663.93	1/4	2,303.88	1/4	1,944.65		
1/2	1/2	1/2	4,367.60	1/2	4,148.17	1/2	3,908.41	1/2	3,657.35	1/2	3,376.31	1/2	3,016.34	1/2	2,656.43	1/2	2,296.38	1/2	1,937.20		
3/4	3/4	3/4	4,363.26	3/4	4,143.37	3/4	3,903.19	3/4	3,652.12	3/4	3,368.80	3/4	3,008.84	3/4	2,648.93	3/4	2,288.88	3/4	1,929.75		
6	6	6	4,358.93	6	4,138.57	6	3,897.97	6	3,646.89	6	3,361.28	6	3,001.34	6	2,641.43	6	2,281.38	6	1,922.30		
1/4	1/4	1/4	4,354.59	1/4	4,133.77	1/4	3,892.75	1/4	3,641.66	1/4	3,353.77	1/4	2,993.84	1/4	2,633.93	1/4	2,273.87	1/4	1,914.84		
1/2	1/2	1/2	4,350.25	1/2	4,128.97	1/2	3,887.53	1/2	3,636.43	1/2	3,346.25	1/2	2,986.35	1/2	2,626.43	1/2	2,266.37	1/2	1,907.39		
3/4	3/4	3/4	4,345.86	3/4	4,124.14	3/4	3,882.30	3/4	3,631.20	3/4	3,338.75	3/4	2,978.85	3/4	2,618.93	3/4	2,258.87	3/4	1,899.94		
7	7	7	4,341.47	7	4,119.30	7	3,877.07	7	3,625.97	7	3,331.25	7	2,971.35	7	2,611.43	7	2,251.37	7	1,892.49		
1/4	1/4	1/4	4,337.08	1/4	4,114.47	1/4	3,871.84	1/4	3,620.73	1/4	3,323.76	1/4	2,963.85	1/4	2,603.93	1/4	2,243.87	1/4	1,885.04		
1/2	1/2	1/2	4,332.69	1/2	4,109.64	1/2	3,866.61	1/2	3,615.50	1/2	3,316.26	1/2	2,956.35	1/2	2,596.43	1/2	2,236.37	1/2	1,877.59		
3/4	3/4	3/4	4,328.24	3/4	4,104.77	3/4	3,861.38	3/4	3,610.27	3/4	3,308.76	3/4	2,948.86	3/4	2,588.93	3/4	2,228.87	3/4	1,870.14		
8	8	8	4,323.78	8	4,099.90	8	3,856.15	8	3,605.04	8	3,301.26	8	2,941.36	8	2,581.42	8	2,221.37	8	1,862.69		
1/4	1/4	1/4	4,319.33	1/4	4,095.02	1/4	3,850.92	1/4	3,599.81	1/4	3,293.76	1/4	2,933.86	1/4	2,573.92	1/4	2,213.87	1/4	1,855.24		
1/2	1/2	1/2	4,314.88	1/2	4,090.15	1/2	3,845.68	1/2	3,594.58	1/2	3,286.27	1/2	2,926.36	1/2	2,566.42	1/2	2,206.37	1/2	1,847.79		
3/4	3/4	3/4	4,310.39	3/4	4,085.25	3/4	3,840.45	3/4	3,589.35	3/4	3,278.77	3/4	2,918.86	3/4	2,558.92	3/4	2,198.87	3/4	1,840.33		
9	9	9	4,305.89	9	4,080.34	9	3,835.22	9	3,584.11	9	3,271.27	9	2,911.37	9	2,551.42	9	2,191.36	9	1,832.88		
1/4	1/4	1/4	4,301.40	1/4	4,075.43	1/4	3,829.99	1/4	3,578.88	1/4	3,263.77	1/4	2,903.87	1/4	2,543.92	1/4	2,183.86	1/4	1,825.43		
1/2	1/2	1/2	4,296.91	1/2	4,070.52	1/2	3,824.76	1/2	3,573.65	1/2	3,256.27	1/2	2,896.37	1/2	2,536.41	1/2	2,176.36	1/2	1,817.98		
3/4	3/4	3/4	4,292.38	3/4	4,065.58	3/4	3,819.53	3/4	3,568.42	3/4	3,248.78	3/4	2,888.87	3/4	2,528.91	3/4	2,168.86	3/4	1,810.53		
10	10	10	4,287.86	10	4,060.64	10	3,814.30	10	3,563.19	10	3,241.28	10	2,881.37	10	2,521.41	10	2,161.36	10	1,803.08		
1/4	1/4	1/4	4,283.33	1/4	4,055.70	1/4	3,809.06	1/4	3,557.96	1/4	3,233.78	1/4	2,873.88	1/4	2,513.91	1/4	2,153.86	1/4	1,795.63		
1/2	1/2	1/2	4,278.80	1/2	4,050.76	1/2	3,803.83	1/2	3,552.73	1/2	3,226.28	1/2	2,866.38	1/2	2,506.41	1/2	2,146.35	1/2	1,788.18		
3/4	3/4	3/4	4,274.24	3/4	4,045.78	3/4	3,798.60	3/4	3,547.49	3/4	3,218.78	3/4	2,858.88	3/4	2,498.91	3/4	2,138.85	3/4	1,780.73		
11	11	11	4,269.68	11	4,040.81	11	3,793.37	11	3,542.26	11	3,211.29	11	2,851.38	11	2,491.41	11	2,131.35	11	1,773.28		
1/4	1/4	1/4	4,265.12	1/4	4,035.83	1/4	3,788.14	1/4	3,537.03	1/4	3,203.79	1/4	2,843.88	1/4	2,483.90	1/4	2,123.84	1/4	1,765.82		
1/2	1/2	1/2	4,460.32	1/2	4,260.57	1/2	4,030.86	1/2	3,782.91	1/2	3,531.80	1/2	3,196.29	1/2	2,836.39	1/2	2,476.40	1/2	2,116.34	1/2	1,758.37
3/4	3/4	3/4	4,457.98	3/4	4,255.97	3/4	4,025.85	3/4	3,777.68	3/4	3,526.57	3/4	3,188.79	3/4	2,828.89	3/4	2,468.90	3/4	2,108.83	3/4	1,750.92

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "CCL 420-T"

## SLOP 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	2,171	0	4,462	0	6,708	0	8,830	0		0		0		0		0	
1/4	19	1/4	2,219	1/4	4,510	1/4	6,754	1/4	8,873	1/4		1/4		1/4		1/4		1/4	
1/2	38	1/2	2,267	1/2	4,558	1/2	6,799	1/2	8,916	1/2		1/2		1/2		1/2		1/2	
3/4	57	3/4	2,315	3/4	4,605	3/4	6,845	3/4	8,958	3/4		3/4		3/4		3/4		3/4	
1	76	1	2,362	1	4,653	1	6,890	1	9,001	1		1		1		1		1	
1/4	123	1/4	2,410	1/4	4,701	1/4	6,935	1/4	9,044	1/4		1/4		1/4		1/4		1/4	
1/2	169	1/2	2,458	1/2	4,749	1/2	6,980	1/2	9,086	1/2		1/2		1/2		1/2		1/2	
3/4	216	3/4	2,506	3/4	4,796	3/4	7,025	3/4	9,129	3/4		3/4		3/4		3/4		3/4	
2	262	2	2,553	2	4,844	2	7,071	2	9,171	2		2		2		2		2	
1/4	310	1/4	2,601	1/4	4,892	1/4	7,116	1/4	9,214	1/4		1/4		1/4		1/4		1/4	
1/2	358	1/2	2,649	1/2	4,939	1/2	7,160	1/2	9,256	1/2		1/2		1/2		1/2		1/2	
3/4	406	3/4	2,696	3/4	4,987	3/4	7,205	3/4	9,299	3/4		3/4		3/4		3/4		3/4	
3	453	3	2,744	3	5,034	3	7,250	3	9,341	3		3		3		3		3	
1/4	501	1/4	2,792	1/4	5,082	1/4	7,295	1/4	9,383	1/4		1/4		1/4		1/4		1/4	
1/2	549	1/2	2,840	1/2	5,129	1/2	7,340	1/2	9,425	1/2		1/2		1/2		1/2		1/2	
3/4	597	3/4	2,887	3/4	5,176	3/4	7,385	3/4	9,467	3/4		3/4		3/4		3/4		3/4	
4	644	4	2,935	4	5,224	4	7,429	4	9,509	4		4		4		4		4	
1/4	692	1/4	2,983	1/4	5,271	1/4	7,474	1/4	9,551	1/4		1/4		1/4		1/4		1/4	
1/2	740	1/2	3,030	1/2	5,318	1/2	7,518	1/2	9,593	1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	3,078	3/4	5,365	3/4	7,563	3/4	9,635	3/4		3/4		3/4		3/4		3/4	
5	835	5	3,126	5	5,413	5	7,608	5	9,677	5		5		5		5		5	
1/4	883	1/4	3,174	1/4	5,459	1/4	7,652	1/4	9,719	1/4		1/4		1/4		1/4		1/4	
1/2	931	1/2	3,221	1/2	5,506	1/2	7,696	1/2	9,760	1/2		1/2		1/2		1/2		1/2	
3/4	978	3/4	3,269	3/4	5,553	3/4	7,740	3/4	9,802	3/4		3/4		3/4		3/4		3/4	
6	1,026	6	3,317	6	5,600	6	7,785	6		6		6		6		6		6	
1/4	1,074	1/4	3,365	1/4	5,647	1/4	7,829	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,122	1/2	3,412	1/2	5,694	1/2	7,873	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,169	3/4	3,460	3/4	5,740	3/4	7,917	3/4		3/4		3/4		3/4		3/4		3/4	
7	1,217	7	3,508	7	5,787	7	7,961	7		7		7		7		7		7	
1/4	1,265	1/4	3,555	1/4	5,834	1/4	8,005	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,312	1/2	3,603	1/2	5,880	1/2	8,049	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,360	3/4	3,651	3/4	5,927	3/4	8,093	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,408	8	3,699	8	5,973	8	8,137	8		8		8		8		8		8	
1/4	1,456	1/4	3,746	1/4	6,019	1/4	8,180	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,503	1/2	3,794	1/2	6,066	1/2	8,224	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,551	3/4	3,842	3/4	6,112	3/4	8,268	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,599	9	3,890	9	6,158	9	8,311	9		9		9		9		9		9	
1/4	1,646	1/4	3,937	1/4	6,204	1/4	8,355	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,694	1/2	3,985	1/2	6,250	1/2	8,398	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,742	3/4	4,033	3/4	6,296	3/4	8,442	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,790	10	4,080	10	6,342	10	8,485	10		10		10		10		10		10	
1/4	1,837	1/4	4,128	1/4	6,388	1/4	8,528	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,885	1/2	4,176	1/2	6,434	1/2	8,572	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,933	3/4	4,224	3/4	6,480	3/4	8,615	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,981	11	4,271	11	6,526	11	8,658	11		11		11		11		11		11	
1/4	2,028	1/4	4,319	1/4	6,571	1/4	8,701	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,076	1/2	4,367	1/2	6,617	1/2	8,744	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,124	3/4	4,415	3/4	6,663	3/4	8,787	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 AT GAUGE POINT.

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CANCELS AND SUPERCEDES  
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# BARGE "CCL 420-T"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-03"

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	110	0	282	0	454	0	564	0		0		0		0		0	
1/4	1	1/4	114	1/4	286	1/4	457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	117	1/2	289	1/2	460	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	120	3/4	293	3/4	463	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	123	1	297	1	467	1		1		1		1		1		1	
1/4	4	1/4	127	1/4	301	1/4	470	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	130	1/2	304	1/2	473	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	133	3/4	308	3/4	476	3/4		3/4		3/4		3/4		3/4		3/4	
2	8	2	137	2	312	2	479	2		2		2		2		2		2	
1/4	10	1/4	140	1/4	316	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	144	1/2	319	1/2	485	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	13	3/4	147	3/4	323	3/4	488	3/4		3/4		3/4		3/4		3/4		3/4	
3	15	3	151	3	327	3	491	3		3		3		3		3		3	
1/4	17	1/4	154	1/4	330	1/4	494	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	158	1/2	334	1/2	497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	21	3/4	161	3/4	338	3/4	499	3/4		3/4		3/4		3/4		3/4		3/4	
4	22	4	165	4	342	4	502	4		4		4		4		4		4	
1/4	25	1/4	168	1/4	345	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	27	1/2	172	1/2	349	1/2	508	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	29	3/4	175	3/4	353	3/4	510	3/4		3/4		3/4		3/4		3/4		3/4	
5	31	5	179	5	356	5	513	5		5		5		5		5		5	
1/4	34	1/4	182	1/4	360	1/4	516	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	36	1/2	186	1/2	364	1/2	518	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	38	3/4	190	3/4	367	3/4	521	3/4		3/4		3/4		3/4		3/4		3/4	
6	41	6	193	6	371	6	523	6		6		6		6		6		6	
1/4	43	1/4	197	1/4	374	1/4	526	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46	1/2	200	1/2	378	1/2	528	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	48	3/4	204	3/4	382	3/4	530	3/4		3/4		3/4		3/4		3/4		3/4	
7	51	7	208	7	385	7	533	7		7		7		7		7		7	
1/4	54	1/4	211	1/4	389	1/4	535	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	215	1/2	392	1/2	537	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	59	3/4	219	3/4	396	3/4	539	3/4		3/4		3/4		3/4		3/4		3/4	
8	62	8	222	8	399	8	542	8		8		8		8		8		8	
1/4	65	1/4	226	1/4	403	1/4	544	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	67	1/2	230	1/2	406	1/2	545	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	70	3/4	234	3/4	410	3/4	547	3/4		3/4		3/4		3/4		3/4		3/4	
9	73	9	237	9	413	9	549	9		9		9		9		9		9	
1/4	76	1/4	241	1/4	417	1/4	551	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	79	1/2	245	1/2	420	1/2	553	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	82	3/4	248	3/4	424	3/4	554	3/4		3/4		3/4		3/4		3/4		3/4	
10	85	10	252	10	427	10	556	10		10		10		10		10		10	
1/4	88	1/4	256	1/4	431	1/4	557	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	91	1/2	260	1/2	434	1/2	559	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	94	3/4	263	3/4	437	3/4	560	3/4		3/4		3/4		3/4		3/4		3/4	
11	97	11	267	11	441	11	561	11		11		11		11		11		11	
1/4	101	1/4	271	1/4	444	1/4	562	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	104	1/2	275	1/2	447	1/2	563	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	107	3/4	278	3/4	450	3/4	563	3/4		3/4		3/4		3/4		3/4		3/4	

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