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

Certification Date:	22 Nov 2024
Expiration Date:	22 Nov 2029

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 411	1255907			Tank Barge

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

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
PALACIOS, TX UNITED STATES	23Sep2014	23May2014	R-1619 I-	R-1619 I-		R-297.5 I-0

Owner	Operator
FRANK W BANTA JR 2012 GRANTOR TRUST DTD 12/28/12 1237 HIGHWAY 75 SUNSHINE, LA 70780 UNITED STATES	CHEM CARRIERS LLC 1237 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 plus Limited Coastwise---

Also, in fair weather only, 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 per 46 CFR 31.10-21(a)(2). If this vessel is operated in salt water more than 6 months in any 12 month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI notified in writing as soon as this change in status occurs.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

Annual/Periodic/Re-Inspection

Date	Zone	A/P/R	Signature
23JAN26	MSUPA	A	[illegible] CS12

This certificate issued by:

D. VELEZ COMMANDER; By direction

Officer in Charge, Marine Inspection

Sector New Orleans

Inspection Zone

Certification Date:	22 Nov 2024
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Officer in Charge, Marine Inspection

Sector New Orleans

Inspection Zone

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

Certification Date:	22 Nov 2024
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Certificate of Inspection

Vessel Name: CCL 411

---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	30Nov2034	01Nov2024	22Oct2019
Internal Structure	30Nov2029	01Nov2024	22Oct2019

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

Authorization: FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
29218	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	727	13.6
1S	727	13.6
2P	871	13.6
2S	871	13.6
3P	747	13.6
3S	747	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	4058	10ft 9in	13.6	LBS/LC
II	4058	10ft 9in	13.6	R
III	4431	11ft 6in	13.6	LBS/LC
III	4431	11ft 6in	13.6	R

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-1303733, dated 07FEB14, and Grade A and lower cargoes may be carried. The specified hazardous cargoes may be carried, and then only in the tanks indicated.

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

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

Stability and Trim

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

The maximum design density of cargo which may be filled to the tank top is 8.54 lbs/gal. Cargoes with higher densities, up to 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Vapor Control Authorization

Per 46 CFR 39, excluding Part 39.40, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial C1-1303733 dated 07FEB14, and the list of authorized cargoes on the CAA, Serial C1-1303733 and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

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

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exam		
Tank Id	Previous	Last	Next	Previous	Last	Next
1P	23Sep2014	01Nov2024	01Nov2034	-	-	-
1S	23Sep2014	01Nov2024	01Nov2034	-	-	-
2P	23Sep2014	01Nov2024	01Nov2034	-	-	-
2S	23Sep2014	01Nov2024	01Nov2034	-	-	-
3P	23Sep2014	01Nov2024	01Nov2034	-	-	-
3S	23Sep2014	01Nov2024	01Nov2034	-	-	-

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

---Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity	Class Type
2	40-B

END

Department of Homeland Security
United States Coast Guard

Serial #: *C1-1303733*
Dated: *07-Feb-14*

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 411**
Official #: 1255907

Shipyard: Tres Palacios Marine
Hull #: 153

46 CFR 151 Tank Group Characteristics

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

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

2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.

3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

List of Authorized Cargoes

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	O	C	III	A	Yes	3	No	G
Acrylonitrile	ACN	15 [2]	O	C	II	A	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	O	E	II	A	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 [2]	O	NA	III	A	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	O	E	III	A	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 [2]	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	O	NA	III	A	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	O	NA	II	A	No	N/A	No	G
Benzene	BNZ	32	O	C	III	A	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 [2]	O	C	III	A	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 [2]	O	C	III	A	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	O	B/C	III	A	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	BMH	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	O	C	III	A	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	O	D	II	A	No	N/A	No	G
Carbon tetrachloride	CBT	36	O	NA	III	A	No	N/A	No	G
Caustic potash solution	CPS	5 [2]	O	NA	III	A	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 [2]	O	NA	III	A	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	O	E	II	A	No	N/A	.50-73	G
Chlorobenzene	CRB	36	O	D	III	A	Yes	1	No	G
Chloroform	CRF	36	O	NA	III	A	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	O	D	III	A	Yes	1	.50-73	G
Creosote	CCW	21 [2]	O	E	III	A	Yes	1	No	G
Cresols (all isomers)	CRS	21	O	E	III	A	Yes	1	No	G
Cresylate spent caustic	CSC	5	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	21	O	E	III	A	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 [2]	O	C	II	A	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		O	C	III	A	Yes	1	No	G
Cyclohexanone	CCH	18	O	D	III	A	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 [2]	O	E	III	A	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	O	D	III	A	Yes	1	.56-1(a), (b), (c), (g)	G

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Department of Homeland Security
United States Coast Guard

Serial #: C1-1303733
Dated: 07-Feb-14

Certificate of Inspection
Cargo Authority Attachment

Vessel Name: **CCL 411**
Official #: 1255907

Shipyard: Tres Palacios Marine
Hull #: 153

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	O	D	III	A	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	O	E	III	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	O	E	III	A	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	O	C	III	A	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	O	D	II	A	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	O	NA	III	A	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 [1,2]	O	A	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 [2]	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	O	C	III	A	Yes	3	No	G
1,2-Dichloropropane	DPP	36	O	C	III	A	Yes	3	No	G
1,3-Dichloropropane	DPC	36	O	C	III	A	Yes	3	No	G
1,3-Dichloropropene	DPU	15	O	D	II	A	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	O	C	II	A	Yes	1	No	G
Diethanolamine	DEA	8	O	E	III	A	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	O	C	III	A	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 [2]	O	E	III	A	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	O	D	III	A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	O	E	III	A	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	O	C	II	A	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	O	E	III	A	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB	8	O	D	III	A	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	O	D	III	A	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	O	C	II	A	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	O	E	III	A	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	O	#	II	A	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	O	D	III	A	No	N/A	No	G
Ethanolamine	MEA	8	O	E	III	A	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	O	A	II	A	No	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA	7	O	D	III	A	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	O	D	III	A	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	O	E	III	A	Yes	1	No	G
Ethylenediamine	EDA	7 [2]	O	D	III	A	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 [2]	O	C	III	A	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	O	E	III	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	O	D/E	III	A	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	O	E	III	A	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	O	E	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	O	D/E	III	A	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 [2]	O	E	III	A	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 [2]	O	D/E	III	A	Yes	1	.55-1(h)	G
Furfural	FFA	19	O	D	III	A	Yes	1	.55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	O	NA	III	A	No	N/A	No	G
Hexamethylenediamine solution	HMC	7	O	E	III	A	Yes	1	.55-1(c)	G
Hexamethyleneimine	HMI	7	O	C	II	A	Yes	1	.56-1(b), (c)	G
Hydrocarbon 5-9	HFN		O	C	III	A	Yes	1	.50-70(a), .50-81(a), (b)	G
Isoprene	IPR	30	O	A	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G

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Department of Homeland Security
United States Coast Guard

Serial #: *C1-1303733*
Dated: *07-Feb-14*

Certificate of Inspection
Cargo Authority Attachment

Vessel Name: **CCL 411**
Official #: 1255907

Shipyard: Tres Palacios Marine
Hull #: 153

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

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CCL 411
Official #: 1255907

Shipyard: Tres Palacios Marine
Hull #: 153

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Vinyltoluene	VNT	13	O	D	III	A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G
Subchapter D Cargoes Authorized for Vapor Control										
Acetone	ACT	18 [2]	D	C		A	Yes	1		
Acetophenone	ACP	18	D	E		A	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		A	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		A	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		A	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes	1		
Benzyl alcohol	BAL	21	D	E		A	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		A	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		A	Yes	1		
Butyl alcohol (iso-)	IAL	20 [2]	D	D		A	Yes	1		
Butyl alcohol (n-)	BAN	20 [2]	D	D		A	Yes	1		
Butyl alcohol (sec-)	BAS	20 [2]	D	C		A	Yes	1		
Butyl alcohol (tert-)	BAT	20 [2]	D	C		A	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1		
Butyl toluene	BUE	32	D	D		A	Yes	1		
Caprolactam solutions	CLS	22	D	E		A	Yes	1		
Cyclohexane	CHX	31	D	C		A	Yes	1		
Cyclohexanol	CHN	20	D	E		A	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2		
p-Cymene	CMP	32	D	D		A	Yes	1		
iso-Decaldehyde	IDA	19	D	E		A	Yes	1		
n-Decaldehyde	DAL	19	D	E		A	Yes	1		
Decene	DCE	30	D	D		A	Yes	1		
Decyl alcohol (all isomers)	DAX	20 [2]	D	E		A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	DAA	20 [2]	D	D		A	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E		A	Yes	1		
Diethylbenzene	DEB	32	D	D		A	Yes	1		
Diethylene glycol	DEG	40 [2]	D	E		A	Yes	1		
Diisobutylene	DBL	30	D	C		A	Yes	1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes	1		
Dimethyl phthalate	DTL	34	D	E		A	Yes	1		
Dioctyl phthalate	DOP	34	D	E		A	Yes	1		
Dipentene	DPN	30	D	D		A	Yes	1		
Diphenyl	DIL	32	D	D/E		A	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1		
Diphenyl ether	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	DPG	40	D	E		A	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1		
Distillates: Straight run	DSR	33	D	E		A	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1		

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 411**
Official #: 1255907

Shipyard: Tres Palacios Marine
Hull #: 153

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

Department of Homeland Security
United States Coast Guard

Serial #: *C1-1303733*
Dated: *07-Feb-14*

Certificate of Inspection
Cargo Authority Attachment

Vessel Name: **CCL 411**
Official #: 1255907

Shipyard: Tres Palacios Marine
Hull #: 153

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

Department of Homeland Security
United States Coast Guard

Serial #: *C1-1303733*
Dated: *07-Feb-14*

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CCL 411**
Official #: 1255907

Shipyard: Tres Palacios Marine
Hull #: 153

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Propylene glycol	PPG	20 [2]	D	E		A	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1		
Propylene tetramer	PTT	30	D	D		A	Yes	1		
Sulfolane	SFL	39	D	E		A	Yes	1		
Tetraethylene glycol	TTG	40	D	E		A	Yes	1		
Tetrahydronaphthalene	THN	32	D	E		A	Yes	1		
Toluene	TOL	32	D	C		A	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	1		
Triethylbenzene	TEB	32	D	E		A	Yes	1		
Triethylene glycol	TEG	40	D	E		A	Yes	1		
Triethyl phosphate	TPS	34	D	E		A	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		A	Yes	1		
Trixylenyl phosphate	TRP	34	D	E		A	Yes	1		
Undecene	UDC	30	D	D/E		A	Yes	1		
1-Undecyl alcohol	UND	20	D	E		A	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1		

Certificate of Inspection

Cargo Authority Attachment

Explanation of terms & symbols used in the Table:

Cargo Identification

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

Conditions of Carriage

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

Conditions of Carriage

Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety componenets and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	The cargo has not been evaluated/classified for use in vapor control systems.

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

OMB APPROVED
1625-0027

UNITED STATES OF AMERICA

DEPARTMENT OF HOMELAND SECURITY
UNITED STATES COAST GUARD

NATIONAL VESSEL DOCUMENTATION CENTER

CERTIFICATE OF DOCUMENTATION

VESSEL NAME	OFFICIAL NUMBER	IMO OR OTHER NUMBER	YEAR COMPLETED
CCL 411	1255907	153	2014

HAILING PORT	HULL MATERIAL	MECHANICAL PROPULSION
NEW ORLEANS LA	STEEL	NO

GROSS TONNAGE	NET TONNAGE	LENGTH	BREADTH	DEPTH
1619 GRT	1619 NRT	297.5	54.0	12.0

PLACE BUILT

PALACIOS TX

OWNERS	OPERATIONAL ENDORSEMENTS
D STEPHEN LAPLACE TRUSTEE FOR THE FRANK W BANTA JR 2012 TRUST	COASTWISE

MANAGING OWNER

D STEPHEN LAPLACE
1237 HWY 75
SUNSHINE LA 70780

RESTRICTIONS
NONE

ENTITLEMENTS
NONE

REMARKS
None

ISSUE DATE
JULY 09, 2026

THIS CERTIFICATE EXPIRES

AUGUST 31, 2027

Christian G. Waddell

DIRECTOR, NATIONAL VESSEL DOCUMENTATION CENTER

COPYBAN CAPTURE® ANTI-FRAUD PROTECTION

U.S. COAST GUARD

National Pollution Funds Center

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VESSEL NAME	VESSEL TYPE	HULL TYPE	GROSS TONNAGE	COFR NUMBER	EFFECTIVE DATE	EXPIRATION DATE	COFR APPLICANT	VIN	INSURANCE CANCEL FLAG
CCL 411	TANKBARGE D		1619	841310 - 21	9/25/2023	9/25/2026	CHEM CARRIERS, L.L.C	D1255907	

< Prev Next >

HYDROSTATIC CARGO PIPING TEST

BARGE NAME / NUMBER CCL 411	DATE OF TEST: 7-13-26
BARGE OWNER: Chem carriers	M.A.W.P.: 125 psi
BARGE OFFICIAL NUMBER: 1255907	TESTING LOCATION : Channel marine Services

TRANSFER SYSTEM TESTING DATA

Write N/A if non-applicable to barge

DATE	TESTED EQUIPMENT	RESULTS		
7-13-26	Cargo Piping & Valves	Pass	PSI	125 psi
7-13-26	Cargo Pressure Gauges	PASS	(%)Accuracy	99%
7-13-26	Cargo Tank Relief Valves	PASS	PSI	125 psi

Each pressure gauge accurate with 10%. Each remote-controlled operating or indicating equipment such as remotely operated valve, tank alarm and emergency shutdown device are operating properly. Section 33 CFR 156.170 & 46 CFR 35.35-70(b)

CHANNEL MARINE SERVICES

SIGNATURES

I CREDIT THAT THE TESTS CONTAINED HEREIN WERE CONDUCTED IN COMPLIANCE WITH 46 CFR 35.35-70 & 33 CFR 156.170

TESTER NAME (PRINT) Brian Avila	
TESTER SIGNATURE :	

CHANNEL MARINE SERVICES
(832) 675-9434
www.channeltx.com
info@channeltx.com
5718 Westheimer, Suite 100
Houston, TX 77057

VAPOR TIGHTNESS CERTIFICATE

BARGE NAME / NUMBER : CCL 411	PRESSURE INDICATOR : Manometer
BARGE OWNER : Chem carriers	MAXIMUM LOAD RATE (BPH) : 6,000
BARGE OFFICIAL NUMBER : 1255907	
DATE OF TEST : 7-13-26	

TEST RESULTS

BARGE IS VAPOR TIGHT IF " TOTAL PRESSURE LOSS " IS LESS THAN ALLOWABLE PRESSURE LOSS "

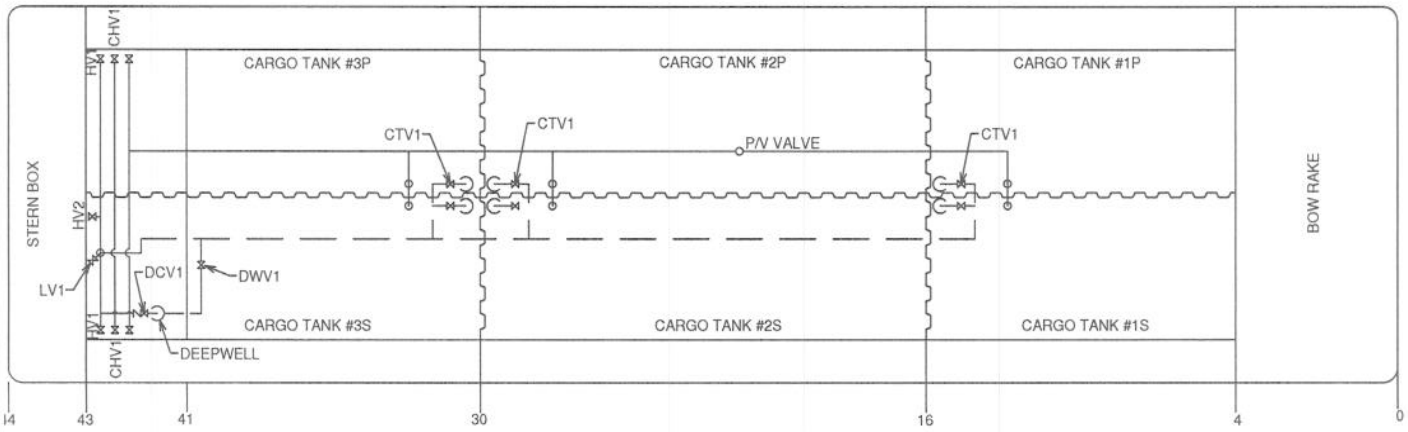
TEST DURATION : 1 HR	BEGINNING PRESSURE 28
ALLOWABLE PRESSURE LOSS : 255	ENDING PRESSURE : 28
	TOTAL PRESSURE LOSS : 0

THE FOLLOWING BARGE WAS TESTED IN ACCORDANCE WITH THE NATIONAL EMISSION STANDARD FOR BENZENE EMISIONS FROM BENZENE TRANSFER OPERATONS, SECTION 40 CFR 61.304(F) AND SECTION 40 CFR 63.565 (C

CHANNEL MARINE SERVICES

SIGNATURES:

TESTER NAME :	
TESTER SIGNATURE:	
WITNESS INSPECTOR NAME :	Kyle Kizzard
WITNESS SIGNATURE :	
WITNESS AFFILIATION :	Channel Marine Services



HV1 = CARGO HEADER VALVE
HV2 = BARGE TO BARGE
CHV1 = CROSS HEADER
LV1 = CARGO LOAD VALVE
DCV1 = CARGO PUMP DISCHARGE VALVE
DWV1 = DEEPWELL BLOCK VALVE
CTV1 = CARGO TANK LOAD/DISCHARGE VALVE

LOAD BAGRE
OPEN: HV1,LV1,CTV1
CLOSE: DWV1, DCV1

DISCHARGE BARGE
OPEN: DWV1, DCV1, HV1,CTV1
CLOSE: LV1

CARGO AND VAPOR PIPING

CHEM CARRIERS	297'-6" X 54' X 12' TANK BARGE - CCL 410 & 411	TANKERMAN'S PLAN	09/18/2014	E.R.C

CARGO TRANSFER PROCEDURES

CHEM CARRIERS L.L.C.

TRANSFER FROM BARGE TO DOCK

PARTS

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

Barge CCL 411

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 410 is equipped with a separate containment area for

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

PARTS 3. PERSONS ON DUTY DURING TRANSFER

33 CFR 155.750 (a) (3)

Number of persons required on duty during transfer operations:

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

PARTS 4. PERSONS IN CHARGE

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

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

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

C. To have proper connection of the grounding cable.
D. The vessel's moorings are adequate to hold during all expected conditions of surge, current, wind, tide, ect., and lines are long enough to allow for surge, tide, wind, changes in draft ect.
E. Proper hose sizes, lengths, support, and connections.
F. The condition of fire extinguishers and required number.
G. The person in charge of transfer operations on the transferring vessel or facility and the person in charge of transferring operations on the receiving vessel or facility agree to begin the transfer operations.
H. The transfer operation between tank barges and dock facilities should be lighted between sunset and sunrise to comply with the U. S. Coast Guard regulation pertaining to the displaying of lights on barges as required by Title 33.
I. The PIC (PERSON IN CHARGE) will be responsible for the DOI (declaration of inspection) and DOS (declaration of security).
J. Always maintain communications with dock or shore personnel with an agreed upon approved system.

PARTS 5: EMERGENCY SHUTDOWN

33 CFR 155.750 (a) (6)

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

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

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

PARTS 6; TOPPING OFF PROCEDURES

33 CFR 155.750 (a) (7)

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

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

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

C. Always maintain communications with dock or shore personnel.

D. A set of dipstick overfill devices have been installed on the CCL 409. 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 tankerman on duty is the acting Designated Person In Charge (PIC) and is responsible for cargo transfer operations and carrying out related operations on barges.

1. Vapor Recovery Transfer Maximum Rate is 4000 BBLS/HR for

subchapter "D" Cargoes and 4000 BBBLS/Hr for subchapter "O" Cargoes.

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

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

2. Pre-transfer Inspection For Vapor Recovery Operations

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

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

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

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

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

2.1.5 Close valve to the vent riser if applicable.

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

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

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

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

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

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

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

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

3. Vapor Piping

3.1 The PIC checks the vapor piping diagram.

3.2 Characteristics of a vapor header:

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

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

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

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

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

4. Inspection And Verification Of Vent Lines

4.1 The Person in Charge performs the following steps:

4.1.1 Checks the Certificate of Inspection on board the barge;

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

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

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

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

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

U.S. Department of Homeland Security

United States Coast Guard

Commandant
United States Coast Guard

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

16460
March 12, 2025

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

Dear Sir or Madam:

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

The CCL 411 (1255907) is authorized to operate only in the ports or geographic areas indicated in the Captain of the Port zones listed below. If carrying oil as cargo, the vessel is prohibited from handling, storing, transporting, transferring, or lightering oil unless it is operating in full compliance with this plan. Compliance includes ensuring that required resources have been identified and planned for or are in place and available through contract or other approved means. If applicable to your routes, this includes the dispersant and aerial observation requirements of 33 CFR 155.1050.

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

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

APPROVED CAPTAIN OF THE PORT ZONES

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

Sincerely,

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

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

U.S. Department of Homeland Security
United States Coast Guard

Commanding Officer
United States Coast Guard
Marine Safety Center

US Coast Guard Stop 7430
2703 Martin Luther King Jr. Ave. SE
Washington, DC 20593-7430
Staff Symbol: MSC-5
Phone: (202) 795-6729
Email: securityplaninfo@uscg.mil

16710
VS-326893
December 3, 2024

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

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

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

Dear Mr. Banta:

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

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

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

Sincerely,

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

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

List of Vessels Covered

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

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

BARGE "CCL 411"

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5 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	653	0	11,075	0	23,079	0	36,056	0	49,897	0	63,854	0	77,811	0	91,768	0	105,724	0	119,681
1/4	772	1/4	11,315	1/4	23,341	1/4	36,337	1/4	50,188	1/4	64,145	1/4	78,101	1/4	92,058	1/4	106,015	1/4	119,972
1/2	891	1/2	11,556	1/2	23,602	1/2	36,618	1/2	50,478	1/2	64,435	1/2	78,392	1/2	92,349	1/2	106,306	1/2	120,263
3/4	1,010	3/4	11,796	3/4	23,864	3/4	36,899	3/4	50,769	3/4	64,726	3/4	78,683	3/4	92,640	3/4	106,597	3/4	120,554
1	1,129	1	12,036	1	24,125	1	37,180	1	51,060	1	65,017	1	78,974	1	92,931	1	106,887	1	120,844
1/4	1,317	1/4	12,278	1/4	24,389	1/4	37,463	1/4	51,351	1/4	65,308	1/4	79,264	1/4	93,221	1/4	107,178	1/4	121,135
1/2	1,506	1/2	12,520	1/2	24,652	1/2	37,745	1/2	51,641	1/2	65,598	1/2	79,555	1/2	93,512	1/2	107,469	1/2	121,426
3/4	1,694	3/4	12,762	3/4	24,916	3/4	38,028	3/4	51,932	3/4	65,889	3/4	79,846	3/4	93,803	3/4	107,760	3/4	121,717
2	1,882	2	13,005	2	25,179	2	38,311	2	52,223	2	66,180	2	80,137	2	94,094	2	108,051	2	122,007
1/4	2,101	1/4	13,248	1/4	25,444	1/4	38,596	1/4	52,514	1/4	66,471	1/4	80,428	1/4	94,384	1/4	108,341	1/4	122,298
1/2	2,320	1/2	13,492	1/2	25,710	1/2	38,880	1/2	52,805	1/2	66,761	1/2	80,718	1/2	94,675	1/2	108,632	1/2	122,589
3/4	2,539	3/4	13,736	3/4	25,975	3/4	39,165	3/4	53,095	3/4	67,052	3/4	81,009	3/4	94,966	3/4	108,923	3/4	122,880
3	2,759	3	13,980	3	26,240	3	39,450	3	53,386	3	67,343	3	81,300	3	95,257	3	109,214	3	123,171
1/4	2,981	1/4	14,226	1/4	26,507	1/4	39,737	1/4	53,677	1/4	67,634	1/4	81,591	1/4	95,548	1/4	109,504	1/4	123,461
1/2	3,203	1/2	14,471	1/2	26,774	1/2	40,024	1/2	53,968	1/2	67,925	1/2	81,881	1/2	95,838	1/2	109,795	1/2	123,752
3/4	3,426	3/4	14,717	3/4	27,041	3/4	40,312	3/4	54,258	3/4	68,215	3/4	82,172	3/4	96,129	3/4	110,086	3/4	124,043
4	3,648	4	14,962	4	27,308	4	40,599	4	54,549	4	68,506	4	82,463	4	96,420	4	110,377	4	124,334
1/4	3,873	1/4	15,210	1/4	27,576	1/4	40,888	1/4	54,840	1/4	68,797	1/4	82,754	1/4	96,711	1/4	110,667	1/4	124,624
1/2	4,098	1/2	15,457	1/2	27,845	1/2	41,177	1/2	55,131	1/2	69,088	1/2	83,044	1/2	97,001	1/2	110,958	1/2	124,915
3/4	4,323	3/4	15,705	3/4	28,114	3/4	41,466	3/4	55,421	3/4	69,378	3/4	83,335	3/4	97,292	3/4	111,249	3/4	125,206
5	4,548	5	15,952	5	28,382	5	41,755	5	55,712	5	69,669	5	83,626	5	97,583	5	111,540	5	125,497
1/4	4,776	1/4	16,201	1/4	28,652	1/4	42,046	1/4	56,003	1/4	69,960	1/4	83,917	1/4	97,874	1/4	111,831	1/4	125,787
1/2	5,003	1/2	16,451	1/2	28,921	1/2	42,337	1/2	56,294	1/2	70,251	1/2	84,208	1/2	98,164	1/2	112,121	1/2	126,078
3/4	5,230	3/4	16,700	3/4	29,190	3/4	42,628	3/4	56,585	3/4	70,541	3/4	84,498	3/4	98,455	3/4	112,412	3/4	126,369
6	5,458	6	16,949	6	29,460	6	42,918	6	56,875	6	70,832	6	84,789	6	98,746	6	112,703	6	126,660
1/4	5,687	1/4	17,200	1/4	29,731	1/4	43,209	1/4	57,166	1/4	71,123	1/4	85,080	1/4	99,037	1/4	112,994	1/4	126,950
1/2	5,917	1/2	17,451	1/2	30,002	1/2	43,500	1/2	57,457	1/2	71,414	1/2	85,371	1/2	99,327	1/2	113,284	1/2	127,241
3/4	6,146	3/4	17,702	3/4	30,273	3/4	43,791	3/4	57,748	3/4	71,704	3/4	85,661	3/4	99,618	3/4	113,575	3/4	127,532
7	6,376	7	17,953	7	30,544	7	44,081	7	58,038	7	71,995	7	85,952	7	99,909	7	113,866	7	127,823
1/4	6,607	1/4	18,206	1/4	30,816	1/4	44,372	1/4	58,329	1/4	72,286	1/4	86,243	1/4	100,200	1/4	114,157	1/4	128,114
1/2	6,838	1/2	18,458	1/2	31,088	1/2	44,663	1/2	58,620	1/2	72,577	1/2	86,534	1/2	100,491	1/2	114,447	1/2	128,404
3/4	7,070	3/4	18,711	3/4	31,360	3/4	44,954	3/4	58,911	3/4	72,868	3/4	86,824	3/4	100,781	3/4	114,738	3/4	128,695
8	7,301	8	18,964	8	31,632	8	45,245	8	59,201	8	73,158	8	87,115	8	101,072	8	115,029	8	128,986
1/4	7,534	1/4	19,218	1/4	31,906	1/4	45,535	1/4	59,492	1/4	73,449	1/4	87,406	1/4	101,363	1/4	115,320	1/4	129,277
1/2	7,768	1/2	19,473	1/2	32,180	1/2	45,826	1/2	59,783	1/2	73,740	1/2	87,697	1/2	101,654	1/2	115,611	1/2	129,567
3/4	8,001	3/4	19,727	3/4	32,454	3/4	46,117	3/4	60,074	3/4	74,031	3/4	87,988	3/4	101,944	3/4	115,901	3/4	129,858
9	8,234	9	19,982	9	32,728	9	46,408	9	60,365	9	74,321	9	88,278	9	102,235	9	116,192	9	130,149
1/4	8,469	1/4	20,238	1/4	33,003	1/4	46,698	1/4	60,655	1/4	74,612	1/4	88,569	1/4	102,526	1/4	116,483	1/4	130,440
1/2	8,704	1/2	20,495	1/2	33,279	1/2	46,989	1/2	60,946	1/2	74,903	1/2	88,860	1/2	102,817	1/2	116,774	1/2	130,730
3/4	8,939	3/4	20,751	3/4	33,555	3/4	47,280	3/4	61,237	3/4	75,194	3/4	89,151	3/4	103,107	3/4	117,064	3/4	131,021
10	9,174	10	21,007	10	33,830	10	47,571	10	61,528	10	75,484	10	89,441	10	103,398	10	117,355	10	131,312
1/4	9,411	1/4	21,265	1/4	34,108	1/4	47,861	1/4	61,818	1/4	75,775	1/4	89,732	1/4	103,689	1/4	117,646	1/4	131,603
1/2	9,647	1/2	21,523	1/2	34,385	1/2	48,152	1/2	62,109	1/2	76,066	1/2	90,023	1/2	103,980	1/2	117,937	1/2	131,894
3/4	9,884	3/4	21,781	3/4	34,662	3/4	48,443	3/4	62,400	3/4	76,357	3/4	90,314	3/4	104,271	3/4	118,227	3/4	132,184
11	10,121	11	22,039	11	34,939	11	48,734	11	62,691	11	76,648	11	90,604	11	104,561	11	118,518	11	132,475
1/4	10,359	1/4	22,299	1/4	35,219	1/4	49,025	1/4	62,981	1/4	76,938	1/4	90,895	1/4	104,852	1/4	118,809	1/4	132,766
1/2	10,598	1/2	22,559	1/2	35,498	1/2	49,315	1/2	63,272	1/2	77,229	1/2	91,186	1/2	105,143	1/2	119,100	1/2	133,057
3/4	10,836	3/4	22,819	3/4	35,777	3/4	49,606	3/4	63,563	3/4	77,520	3/4	91,477	3/4	105,434	3/4	119,391	3/4	133,347

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE
GAUGE POINT: (2" PIPE) LOCATED 12'-06" OFF CENTERLINE AND 35'-03" FORWARD OF AFT BULKHEAD

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

4,919.24 BBLS

BARGE "CCL 411"

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5 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	133,638	0	147,594	0	161,549	0	175,490	0	188,880	0	201,368	0		0		0		0	
1/4	133,929	1/4	147,885	1/4	161,839	1/4	175,777	1/4	189,150	1/4	201,618	1/4		1/4		1/4		1/4	
1/2	134,220	1/2	148,175	1/2	162,130	1/2	176,064	1/2	189,419	1/2	201,868	1/2		1/2		1/2		1/2	
3/4	134,510	3/4	148,466	3/4	162,421	3/4	176,351	3/4	189,689	3/4	202,119	3/4		3/4		3/4		3/4	
1	134,801	1	148,757	1	162,712	1	176,638	1	189,959	1	202,369	1		1		1		1	
1/4	135,092	1/4	149,047	1/4	163,002	1/4	176,924	1/4	190,226	1/4	202,618	1/4		1/4		1/4		1/4	
1/2	135,383	1/2	149,338	1/2	163,293	1/2	177,209	1/2	190,494	1/2	202,867	1/2		1/2		1/2		1/2	
3/4	135,674	3/4	149,629	3/4	163,584	3/4	177,495	3/4	190,762	3/4	203,115	3/4		3/4		3/4		3/4	
2	135,964	2	149,920	2	163,875	2	177,780	2	191,030	2	203,364	2		2		2		2	
1/4	136,255	1/4	150,210	1/4	164,165	1/4	178,064	1/4	191,295	1/4	203,608	1/4		1/4		1/4		1/4	
1/2	136,546	1/2	150,501	1/2	164,456	1/2	178,348	1/2	191,560	1/2	203,853	1/2		1/2		1/2		1/2	
3/4	136,837	3/4	150,792	3/4	164,747	3/4	178,632	3/4	191,825	3/4	204,097	3/4		3/4		3/4		3/4	
3	137,127	3	151,083	3	165,037	3	178,916	3	192,090	3	204,342	3		3		3		3	
1/4	137,418	1/4	151,373	1/4	165,328	1/4	179,199	1/4	192,353	1/4	204,585	1/4		1/4		1/4		1/4	
1/2	137,709	1/2	151,664	1/2	165,619	1/2	179,481	1/2	192,617	1/2	204,828	1/2		1/2		1/2		1/2	
3/4	138,000	3/4	151,955	3/4	165,910	3/4	179,764	3/4	192,880	3/4	205,071	3/4		3/4		3/4		3/4	
4	138,290	4	152,245	4	166,200	4	180,046	4	193,144	4	205,314	4		4		4		4	
1/4	138,581	1/4	152,536	1/4	166,491	1/4	180,328	1/4	193,406	1/4	205,549	1/4		1/4		1/4		1/4	
1/2	138,872	1/2	152,827	1/2	166,782	1/2	180,609	1/2	193,668	1/2	205,784	1/2		1/2		1/2		1/2	
3/4	139,163	3/4	153,118	3/4	167,073	3/4	180,890	3/4	193,930	3/4	206,019	3/4		3/4		3/4		3/4	
5	139,454	5	153,408	5	167,363	5	181,171	5	194,192	5	206,254	5		5		5		5	
1/4	139,744	1/4	153,699	1/4	167,654	1/4	181,451	1/4	194,453	1/4	206,431	1/4		1/4		1/4		1/4	
1/2	140,035	1/2	153,990	1/2	167,945	1/2	181,730	1/2	194,713	1/2	206,608	1/2		1/2		1/2		1/2	
3/4	140,326	3/4	154,281	3/4	168,235	3/4	182,010	3/4	194,974	3/4		3/4		3/4		3/4		3/4	
6	140,616	6	154,571	6	168,526	6	182,290	6	195,235	6		6		6		6		6	
1/4	140,907	1/4	154,862	1/4	168,817	1/4	182,568	1/4	195,494	1/4		1/4		1/4		1/4		1/4	
1/2	141,198	1/2	155,153	1/2	169,108	1/2	182,846	1/2	195,753	1/2		1/2		1/2		1/2		1/2	
3/4	141,489	3/4	155,443	3/4	169,398	3/4	183,124	3/4	196,012	3/4		3/4		3/4		3/4		3/4	
7	141,779	7	155,734	7	169,689	7	183,403	7	196,271	7		7		7		7		7	
1/4	142,070	1/4	156,025	1/4	169,980	1/4	183,679	1/4	196,529	1/4		1/4		1/4		1/4		1/4	
1/2	142,361	1/2	156,316	1/2	170,271	1/2	183,956	1/2	196,787	1/2		1/2		1/2		1/2		1/2	
3/4	142,652	3/4	156,606	3/4	170,561	3/4	184,233	3/4	197,044	3/4		3/4		3/4		3/4		3/4	
8	142,942	8	156,897	8	170,852	8	184,510	8	197,302	8		8		8		8		8	
1/4	143,233	1/4	157,188	1/4	171,143	1/4	184,785	1/4	197,558	1/4		1/4		1/4		1/4		1/4	
1/2	143,524	1/2	157,479	1/2	171,433	1/2	185,060	1/2	197,815	1/2		1/2		1/2		1/2		1/2	
3/4	143,814	3/4	157,769	3/4	171,724	3/4	185,336	3/4	198,071	3/4		3/4		3/4		3/4		3/4	
9	144,105	9	158,060	9	172,015	9	185,611	9	198,327	9		9		9		9		9	
1/4	144,396	1/4	158,351	1/4	172,306	1/4	185,885	1/4	198,582	1/4		1/4		1/4		1/4		1/4	
1/2	144,687	1/2	158,641	1/2	172,596	1/2	186,159	1/2	198,837	1/2		1/2		1/2		1/2		1/2	
3/4	144,977	3/4	158,932	3/4	172,887	3/4	186,433	3/4	199,092	3/4		3/4		3/4		3/4		3/4	
10	145,268	10	159,223	10	173,178	10	186,707	10	199,346	10		10		10		10		10	
1/4	145,559	1/4	159,514	1/4	173,467	1/4	186,979	1/4	199,600	1/4		1/4		1/4		1/4		1/4	
1/2	145,850	1/2	159,804	1/2	173,757	1/2	187,252	1/2	199,853	1/2		1/2		1/2		1/2		1/2	
3/4	146,140	3/4	160,095	3/4	174,047	3/4	187,524	3/4	200,107	3/4		3/4		3/4		3/4		3/4	
11	146,431	11	160,386	11	174,337	11	187,796	11	200,360	11		11		11		11		11	
1/4	146,722	1/4	160,677	1/4	174,625	1/4	188,067	1/4	200,612	1/4		1/4		1/4		1/4		1/4	
1/2	147,012	1/2	160,967	1/2	174,914	1/2	188,338	1/2	200,864	1/2		1/2		1/2		1/2		1/2	
3/4	147,303	3/4	161,258	3/4	175,202	3/4	188,609	3/4	201,116	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/30/2014 CL
CALCULATED: 07/31/2014 CL
PRINTED: 07/31/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CCL 411"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5"

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	653	0	11,095	0	23,114	0	36,139	0	50,011	0	63,973	0	77,935	0	91,897	0	105,860	0	119,822
1/4	773	1/4	11,336	1/4	23,376	1/4	36,422	1/4	50,302	1/4	64,264	1/4	78,226	1/4	92,188	1/4	106,150	1/4	120,113
1/2	892	1/2	11,576	1/2	23,638	1/2	36,704	1/2	50,592	1/2	64,555	1/2	78,517	1/2	92,479	1/2	106,441	1/2	120,404
3/4	1,012	3/4	11,817	3/4	23,900	3/4	36,987	3/4	50,883	3/4	64,846	3/4	78,808	3/4	92,770	3/4	106,732	3/4	120,694
1	1,131	1	12,058	1	24,161	1	37,270	1	51,174	1	65,136	1	79,099	1	93,061	1	107,023	1	120,985
1/4	1,320	1/4	12,300	1/4	24,425	1/4	37,554	1/4	51,465	1/4	65,427	1/4	79,390	1/4	93,352	1/4	107,314	1/4	121,276
1/2	1,508	1/2	12,542	1/2	24,689	1/2	37,838	1/2	51,756	1/2	65,718	1/2	79,680	1/2	93,643	1/2	107,605	1/2	121,567
3/4	1,697	3/4	12,785	3/4	24,952	3/4	38,123	3/4	52,047	3/4	66,009	3/4	79,971	3/4	93,933	3/4	107,896	3/4	121,858
2	1,886	2	13,027	2	25,216	2	38,407	2	52,338	2	66,300	2	80,262	2	94,224	2	108,187	2	122,149
1/4	2,105	1/4	13,272	1/4	25,482	1/4	38,693	1/4	52,629	1/4	66,591	1/4	80,553	1/4	94,515	1/4	108,477	1/4	122,440
1/2	2,325	1/2	13,516	1/2	25,747	1/2	38,979	1/2	52,919	1/2	66,882	1/2	80,844	1/2	94,806	1/2	108,768	1/2	122,731
3/4	2,545	3/4	13,760	3/4	26,012	3/4	39,266	3/4	53,210	3/4	67,173	3/4	81,135	3/4	95,097	3/4	109,059	3/4	123,021
3	2,764	3	14,004	3	26,278	3	39,552	3	53,501	3	67,463	3	81,426	3	95,388	3	109,350	3	123,312
1/4	2,987	1/4	14,250	1/4	26,545	1/4	39,840	1/4	53,792	1/4	67,754	1/4	81,717	1/4	95,679	1/4	109,641	1/4	123,603
1/2	3,210	1/2	14,496	1/2	26,812	1/2	40,129	1/2	54,083	1/2	68,045	1/2	82,007	1/2	95,970	1/2	109,932	1/2	123,894
3/4	3,433	3/4	14,742	3/4	27,079	3/4	40,417	3/4	54,374	3/4	68,336	3/4	82,298	3/4	96,261	3/4	110,223	3/4	124,185
4	3,655	4	14,988	4	27,347	4	40,706	4	54,665	4	68,627	4	82,589	4	96,551	4	110,514	4	124,476
1/4	3,881	1/4	15,236	1/4	27,616	1/4	40,996	1/4	54,956	1/4	68,918	1/4	82,880	1/4	96,842	1/4	110,804	1/4	124,767
1/2	4,106	1/2	15,483	1/2	27,885	1/2	41,286	1/2	55,247	1/2	69,209	1/2	83,171	1/2	97,133	1/2	111,095	1/2	125,058
3/4	4,332	3/4	15,731	3/4	28,154	3/4	41,576	3/4	55,537	3/4	69,500	3/4	83,462	3/4	97,424	3/4	111,386	3/4	125,348
5	4,557	5	15,979	5	28,423	5	41,866	5	55,828	5	69,790	5	83,753	5	97,715	5	111,677	5	125,639
1/4	4,785	1/4	16,228	1/4	28,693	1/4	42,157	1/4	56,119	1/4	70,081	1/4	84,044	1/4	98,006	1/4	111,968	1/4	125,930
1/2	5,013	1/2	16,478	1/2	28,964	1/2	42,448	1/2	56,410	1/2	70,372	1/2	84,334	1/2	98,297	1/2	112,259	1/2	126,221
3/4	5,241	3/4	16,727	3/4	29,235	3/4	42,739	3/4	56,701	3/4	70,663	3/4	84,625	3/4	98,588	3/4	112,550	3/4	126,512
6	5,468	6	16,977	6	29,506	6	43,030	6	56,992	6	70,954	6	84,916	6	98,878	6	112,841	6	126,803
1/4	5,698	1/4	17,228	1/4	29,778	1/4	43,320	1/4	57,283	1/4	71,245	1/4	85,207	1/4	99,169	1/4	113,132	1/4	127,094
1/2	5,928	1/2	17,480	1/2	30,050	1/2	43,611	1/2	57,574	1/2	71,536	1/2	85,498	1/2	99,460	1/2	113,422	1/2	127,385
3/4	6,158	3/4	17,731	3/4	30,323	3/4	43,902	3/4	57,864	3/4	71,827	3/4	85,789	3/4	99,751	3/4	113,713	3/4	127,675
7	6,388	7	17,982	7	30,595	7	44,193	7	58,155	7	72,118	7	86,080	7	100,042	7	114,004	7	127,966
1/4	6,620	1/4	18,235	1/4	30,869	1/4	44,484	1/4	58,446	1/4	72,408	1/4	86,371	1/4	100,333	1/4	114,295	1/4	128,257
1/2	6,852	1/2	18,488	1/2	31,143	1/2	44,775	1/2	58,737	1/2	72,699	1/2	86,662	1/2	100,624	1/2	114,586	1/2	128,548
3/4	7,083	3/4	18,741	3/4	31,417	3/4	45,066	3/4	59,028	3/4	72,990	3/4	86,952	3/4	100,915	3/4	114,877	3/4	128,839
8	7,315	8	18,994	8	31,690	8	45,357	8	59,319	8	73,281	8	87,243	8	101,205	8	115,168	8	129,130
1/4	7,549	1/4	19,249	1/4	31,966	1/4	45,648	1/4	59,610	1/4	73,572	1/4	87,534	1/4	101,496	1/4	115,459	1/4	129,421
1/2	7,782	1/2	19,504	1/2	32,241	1/2	45,938	1/2	59,901	1/2	73,863	1/2	87,825	1/2	101,787	1/2	115,749	1/2	129,712
3/4	8,016	3/4	19,759	3/4	32,517	3/4	46,229	3/4	60,191	3/4	74,154	3/4	88,116	3/4	102,078	3/4	116,040	3/4	130,003
9	8,250	9	20,014	9	32,792	9	46,520	9	60,482	9	74,445	9	88,407	9	102,369	9	116,331	9	130,293
1/4	8,485	1/4	20,270	1/4	33,070	1/4	46,811	1/4	60,773	1/4	74,735	1/4	88,698	1/4	102,660	1/4	116,622	1/4	130,584
1/2	8,720	1/2	20,527	1/2	33,347	1/2	47,102	1/2	61,064	1/2	75,026	1/2	88,989	1/2	102,951	1/2	116,913	1/2	130,875
3/4	8,956	3/4	20,783	3/4	33,624	3/4	47,393	3/4	61,355	3/4	75,317	3/4	89,279	3/4	103,242	3/4	117,204	3/4	131,166
10	9,191	10	21,040	10	33,901	10	47,684	10	61,646	10	75,608	10	89,570	10	103,533	10	117,495	10	131,457
1/4	9,428	1/4	21,298	1/4	34,180	1/4	47,975	1/4	61,937	1/4	75,899	1/4	89,861	1/4	103,823	1/4	117,786	1/4	131,748
1/2	9,665	1/2	21,557	1/2	34,459	1/2	48,265	1/2	62,228	1/2	76,190	1/2	90,152	1/2	104,114	1/2	118,076	1/2	132,039
3/4	9,902	3/4	21,815	3/4	34,738	3/4	48,556	3/4	62,519	3/4	76,481	3/4	90,443	3/4	104,405	3/4	118,367	3/4	132,330
11	10,139	11	22,073	11	35,017	11	48,847	11	62,809	11	76,772	11	90,734	11	104,696	11	118,658	11	132,620
1/4	10,378	1/4	22,333	1/4	35,297	1/4	49,138	1/4	63,100	1/4	77,062	1/4	91,025	1/4	104,987	1/4	118,949	1/4	132,911
1/2	10,617	1/2	22,594	1/2	35,578	1/2	49,429	1/2	63,391	1/2	77,353	1/2	91,316	1/2	105,278	1/2	119,240	1/2	133,202
3/4	10,856	3/4	22,854	3/4	35,859	3/4	49,720	3/4	63,682	3/4	77,644	3/4	91,606	3/4	105,569	3/4	119,531	3/4	133,493

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE
GAUGE POINT: (2" PIPE) LOCATED 12'-06" OFF CENTERLINE AND 35'-03" FORWARD OF AFT BULKHEAD

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

4,923.7 BBLS.

BARGE "CCL 411"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5"

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	133,784	0	147,746	0	161,707	0	175,654	0	189,052	0	201,552	0		0		0		0	
1/4	134,075	1/4	148,037	1/4	161,998	1/4	175,941	1/4	189,322	1/4	201,803	1/4		1/4		1/4		1/4	
1/2	134,366	1/2	148,328	1/2	162,288	1/2	176,228	1/2	189,592	1/2	202,053	1/2		1/2		1/2		1/2	
3/4	134,657	3/4	148,619	3/4	162,579	3/4	176,515	3/4	189,861	3/4	202,304	3/4		3/4		3/4		3/4	
1	134,947	1	148,910	1	162,870	1	176,802	1	190,131	1	202,555	1		1		1		1	
1/4	135,238	1/4	149,201	1/4	163,161	1/4	177,088	1/4	190,399	1/4	202,804	1/4		1/4		1/4		1/4	
1/2	135,529	1/2	149,491	1/2	163,452	1/2	177,373	1/2	190,667	1/2	203,053	1/2		1/2		1/2		1/2	
3/4	135,820	3/4	149,782	3/4	163,743	3/4	177,659	3/4	190,935	3/4	203,302	3/4		3/4		3/4		3/4	
2	136,111	2	150,073	2	164,033	2	177,945	2	191,204	2	203,551	2		2		2		2	
1/4	136,402	1/4	150,364	1/4	164,324	1/4	178,229	1/4	191,469	1/4	203,796	1/4		1/4		1/4		1/4	
1/2	136,693	1/2	150,655	1/2	164,615	1/2	178,513	1/2	191,734	1/2	204,040	1/2		1/2		1/2		1/2	
3/4	136,984	3/4	150,946	3/4	164,906	3/4	178,797	3/4	191,999	3/4	204,285	3/4		3/4		3/4		3/4	
3	137,275	3	151,236	3	165,197	3	179,081	3	192,264	3	204,530	3		3		3		3	
1/4	137,565	1/4	151,527	1/4	165,488	1/4	179,364	1/4	192,528	1/4	204,773	1/4		1/4		1/4		1/4	
1/2	137,856	1/2	151,818	1/2	165,779	1/2	179,647	1/2	192,792	1/2	205,017	1/2		1/2		1/2		1/2	
3/4	138,147	3/4	152,109	3/4	166,069	3/4	179,930	3/4	193,056	3/4	205,260	3/4		3/4		3/4		3/4	
4	138,438	4	152,400	4	166,360	4	180,212	4	193,319	4	205,504	4		4		4		4	
1/4	138,729	1/4	152,691	1/4	166,651	1/4	180,494	1/4	193,582	1/4	205,739	1/4		1/4		1/4		1/4	
1/2	139,020	1/2	152,981	1/2	166,942	1/2	180,775	1/2	193,844	1/2	205,974	1/2		1/2		1/2		1/2	
3/4	139,312	3/4	153,272	3/4	167,233	3/4	181,056	3/4	194,106	3/4	206,210	3/4		3/4		3/4		3/4	
5	139,603	5	153,563	5	167,524	5	181,337	5	194,369	5	206,445	5		5		5		5	
1/4	139,894	1/4	153,854	1/4	167,814	1/4	181,617	1/4	194,630	1/4	206,622	1/4		1/4		1/4		1/4	
1/2	140,184	1/2	154,145	1/2	168,105	1/2	181,897	1/2	194,890	1/2	206,799	1/2		1/2		1/2		1/2	
3/4	140,475	3/4	154,436	3/4	168,396	3/4	182,177	3/4	195,151	3/4		3/4		3/4		3/4		3/4	
6	140,766	6	154,727	6	168,687	6	182,457	6	195,412	6		6		6		6		6	
1/4	141,057	1/4	155,017	1/4	168,978	1/4	182,735	1/4	195,672	1/4		1/4		1/4		1/4		1/4	
1/2	141,348	1/2	155,308	1/2	169,269	1/2	183,014	1/2	195,931	1/2		1/2		1/2		1/2		1/2	
3/4	141,639	3/4	155,599	3/4	169,559	3/4	183,292	3/4	196,190	3/4		3/4		3/4		3/4		3/4	
7	141,929	7	155,890	7	169,850	7	183,571	7	196,450	7		7		7		7		7	
1/4	142,220	1/4	156,181	1/4	170,141	1/4	183,847	1/4	196,708	1/4		1/4		1/4		1/4		1/4	
1/2	142,511	1/2	156,472	1/2	170,432	1/2	184,124	1/2	196,966	1/2		1/2		1/2		1/2		1/2	
3/4	142,802	3/4	156,762	3/4	170,723	3/4	184,401	3/4	197,224	3/4		3/4		3/4		3/4		3/4	
8	143,093	8	157,053	8	171,014	8	184,678	8	197,482	8		8		8		8		8	
1/4	143,384	1/4	157,344	1/4	171,304	1/4	184,954	1/4	197,738	1/4		1/4		1/4		1/4		1/4	
1/2	143,675	1/2	157,635	1/2	171,595	1/2	185,229	1/2	197,995	1/2		1/2		1/2		1/2		1/2	
3/4	143,965	3/4	157,926	3/4	171,886	3/4	185,505	3/4	198,251	3/4		3/4		3/4		3/4		3/4	
9	144,256	9	158,217	9	172,177	9	185,780	9	198,508	9		9		9		9		9	
1/4	144,547	1/4	158,507	1/4	172,468	1/4	186,055	1/4	198,763	1/4		1/4		1/4		1/4		1/4	
1/2	144,838	1/2	158,798	1/2	172,759	1/2	186,329	1/2	199,018	1/2		1/2		1/2		1/2		1/2	
3/4	145,129	3/4	159,089	3/4	173,049	3/4	186,603	3/4	199,273	3/4		3/4		3/4		3/4		3/4	
10	145,420	10	159,380	10	173,340	10	186,877	10	199,528	10		10		10		10		10	
1/4	145,710	1/4	159,671	1/4	173,630	1/4	187,149	1/4	199,782	1/4		1/4		1/4		1/4		1/4	
1/2	146,001	1/2	159,962	1/2	173,920	1/2	187,422	1/2	200,036	1/2		1/2		1/2		1/2		1/2	
3/4	146,292	3/4	160,253	3/4	174,210	3/4	187,695	3/4	200,289	3/4		3/4		3/4		3/4		3/4	
11	146,583	11	160,543	11	174,500	11	187,967	11	200,543	11		11		11		11		11	
1/4	146,874	1/4	160,834	1/4	174,789	1/4	188,239	1/4	200,795	1/4		1/4		1/4		1/4		1/4	
1/2	147,165	1/2	161,125	1/2	175,077	1/2	188,510	1/2	201,047	1/2		1/2		1/2		1/2		1/2	
3/4	147,455	3/4	161,416	3/4	175,366	3/4	188,781	3/4	201,300	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/30/2014 CL
CALCULATED: 07/31/2014 CL
PRINTED: 07/31/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CCL 411"

2 PORT
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5 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	802	0	16,464	0	32,342	0	48,457	0	64,773	0	81,089	0	97,405	0	113,721	0	130,036	0	146,352
1/4	1,025	1/4	16,804	1/4	32,668	1/4	48,797	1/4	65,113	1/4	81,429	1/4	97,745	1/4	114,060	1/4	130,376	1/4	146,692
1/2	1,248	1/2	17,144	1/2	32,995	1/2	49,137	1/2	65,453	1/2	81,769	1/2	98,084	1/2	114,400	1/2	130,716	1/2	147,032
3/4	1,471	3/4	17,484	3/4	33,322	3/4	49,477	3/4	65,793	3/4	82,108	3/4	98,424	3/4	114,740	3/4	131,056	3/4	147,372
1	1,694	1	17,824	1	33,648	1	49,817	1	66,133	1	82,448	1	98,764	1	115,080	1	131,396	1	147,712
1/4	1,996	1/4	18,164	1/4	33,976	1/4	50,157	1/4	66,472	1/4	82,788	1/4	99,104	1/4	115,420	1/4	131,736	1/4	148,052
1/2	2,298	1/2	18,504	1/2	34,303	1/2	50,496	1/2	66,812	1/2	83,128	1/2	99,444	1/2	115,760	1/2	132,076	1/2	148,392
3/4	2,600	3/4	18,844	3/4	34,630	3/4	50,836	3/4	67,152	3/4	83,468	3/4	99,784	3/4	116,100	3/4	132,416	3/4	148,732
2	2,902	2	19,184	2	34,957	2	51,176	2	67,492	2	83,808	2	100,124	2	116,440	2	132,756	2	149,072
1/4	3,238	1/4	19,523	1/4	35,284	1/4	51,516	1/4	67,832	1/4	84,148	1/4	100,464	1/4	116,780	1/4	133,096	1/4	149,412
1/2	3,573	1/2	19,863	1/2	35,611	1/2	51,856	1/2	68,172	1/2	84,488	1/2	100,804	1/2	117,120	1/2	133,436	1/2	149,751
3/4	3,909	3/4	20,203	3/4	35,938	3/4	52,196	3/4	68,512	3/4	84,828	3/4	101,144	3/4	117,460	3/4	133,775	3/4	150,091
3	4,245	3	20,543	3	36,265	3	52,536	3	68,852	3	85,168	3	101,484	3	117,799	3	134,115	3	150,431
1/4	4,583	1/4	20,881	1/4	36,594	1/4	52,876	1/4	69,192	1/4	85,508	1/4	101,824	1/4	118,139	1/4	134,455	1/4	150,771
1/2	4,921	1/2	21,220	1/2	36,922	1/2	53,216	1/2	69,532	1/2	85,848	1/2	102,163	1/2	118,479	1/2	134,795	1/2	151,111
3/4	5,258	3/4	21,558	3/4	37,251	3/4	53,556	3/4	69,872	3/4	86,187	3/4	102,503	3/4	118,819	3/4	135,135	3/4	151,451
4	5,596	4	21,896	4	37,580	4	53,896	4	70,211	4	86,527	4	102,843	4	119,159	4	135,475	4	151,791
1/4	5,935	1/4	22,223	1/4	37,920	1/4	54,236	1/4	70,551	1/4	86,867	1/4	103,183	1/4	119,499	1/4	135,815	1/4	152,131
1/2	6,273	1/2	22,550	1/2	38,260	1/2	54,575	1/2	70,891	1/2	87,207	1/2	103,523	1/2	119,839	1/2	136,155	1/2	152,471
3/4	6,612	3/4	22,876	3/4	38,599	3/4	54,915	3/4	71,231	3/4	87,547	3/4	103,863	3/4	120,179	3/4	136,495	3/4	152,811
5	6,951	5	23,203	5	38,939	5	55,255	5	71,571	5	87,887	5	104,203	5	120,519	5	136,835	5	153,151
1/4	7,290	1/4	23,530	1/4	39,279	1/4	55,595	1/4	71,911	1/4	88,227	1/4	104,543	1/4	120,859	1/4	137,175	1/4	153,491
1/2	7,629	1/2	23,856	1/2	39,619	1/2	55,935	1/2	72,251	1/2	88,567	1/2	104,883	1/2	121,199	1/2	137,515	1/2	153,830
3/4	7,969	3/4	24,182	3/4	39,959	3/4	56,275	3/4	72,591	3/4	88,907	3/4	105,223	3/4	121,539	3/4	137,854	3/4	154,170
6	8,308	6	24,509	6	40,299	6	56,615	6	72,931	6	89,247	6	105,563	6	121,878	6	138,194	6	154,510
1/4	8,648	1/4	24,835	1/4	40,639	1/4	56,955	1/4	73,271	1/4	89,587	1/4	105,902	1/4	122,218	1/4	138,534	1/4	154,850
1/2	8,987	1/2	25,161	1/2	40,979	1/2	57,295	1/2	73,611	1/2	89,927	1/2	106,242	1/2	122,558	1/2	138,874	1/2	155,190
3/4	9,327	3/4	25,488	3/4	41,319	3/4	57,635	3/4	73,951	3/4	90,266	3/4	106,582	3/4	122,898	3/4	139,214	3/4	155,530
7	9,667	7	25,814	7	41,659	7	57,975	7	74,290	7	90,606	7	106,922	7	123,238	7	139,554	7	155,870
1/4	10,007	1/4	26,141	1/4	41,999	1/4	58,314	1/4	74,630	1/4	90,946	1/4	107,262	1/4	123,578	1/4	139,894	1/4	156,210
1/2	10,346	1/2	26,467	1/2	42,339	1/2	58,654	1/2	74,970	1/2	91,286	1/2	107,602	1/2	123,918	1/2	140,234	1/2	156,550
3/4	10,686	3/4	26,793	3/4	42,678	3/4	58,994	3/4	75,310	3/4	91,626	3/4	107,942	3/4	124,258	3/4	140,574	3/4	156,890
8	11,026	8	27,120	8	43,018	8	59,334	8	75,650	8	91,966	8	108,282	8	124,598	8	140,914	8	157,230
1/4	11,366	1/4	27,446	1/4	43,358	1/4	59,674	1/4	75,990	1/4	92,306	1/4	108,622	1/4	124,938	1/4	141,254	1/4	157,569
1/2	11,706	1/2	27,772	1/2	43,698	1/2	60,014	1/2	76,330	1/2	92,646	1/2	108,962	1/2	125,278	1/2	141,594	1/2	157,909
3/4	12,046	3/4	28,098	3/4	44,038	3/4	60,354	3/4	76,670	3/4	92,986	3/4	109,302	3/4	125,618	3/4	141,933	3/4	158,249
9	12,386	9	28,425	9	44,378	9	60,694	9	77,010	9	93,326	9	109,642	9	125,957	9	142,273	9	158,589
1/4	12,726	1/4	28,751	1/4	44,718	1/4	61,034	1/4	77,350	1/4	93,666	1/4	109,981	1/4	126,297	1/4	142,613	1/4	158,929
1/2	13,066	1/2	29,077	1/2	45,058	1/2	61,374	1/2	77,690	1/2	94,005	1/2	110,321	1/2	126,637	1/2	142,953	1/2	159,269
3/4	13,405	3/4	29,403	3/4	45,398	3/4	61,714	3/4	78,030	3/4	94,345	3/4	110,661	3/4	126,977	3/4	143,293	3/4	159,609
10	13,745	10	29,729	10	45,738	10	62,054	10	78,369	10	94,685	10	111,001	10	127,317	10	143,633	10	159,949
1/4	14,085	1/4	30,056	1/4	46,078	1/4	62,393	1/4	78,709	1/4	95,025	1/4	111,341	1/4	127,657	1/4	143,973	1/4	160,289
1/2	14,425	1/2	30,382	1/2	46,417	1/2	62,733	1/2	79,049	1/2	95,365	1/2	111,681	1/2	127,997	1/2	144,313	1/2	160,629
3/4	14,765	3/4	30,709	3/4	46,757	3/4	63,073	3/4	79,389	3/4	95,705	3/4	112,021	3/4	128,337	3/4	144,653	3/4	160,969
11	15,105	11	31,035	11	47,097	11	63,413	11	79,729	11	96,045	11	112,361	11	128,677	11	144,993	11	161,309
1/4	15,445	1/4	31,362	1/4	47,437	1/4	63,753	1/4	80,069	1/4	96,385	1/4	112,701	1/4	129,017	1/4	145,333	1/4	161,648
1/2	15,785	1/2	31,688	1/2	47,777	1/2	64,093	1/2	80,409	1/2	96,725	1/2	113,041	1/2	129,357	1/2	145,672	1/2	161,988
3/4	16,125	3/4	32,015	3/4	48,117	3/4	64,433	3/4	80,749	3/4	97,065	3/4	113,381	3/4	129,697	3/4	146,012	3/4	162,328

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE
GAUGE POINT: (2" PIPE) LOCATED 12'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

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5,904.29 BBLS.

BARGE "CCL 411"

2 PORT
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5 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	162,668	0	178,983	0	195,296	0	211,594	0	227,249	0	241,851	0		0		0		0	
1/4	163,008	1/4	179,323	1/4	195,636	1/4	211,930	1/4	227,565	1/4	242,144	1/4		1/4		1/4		1/4	
1/2	163,348	1/2	179,663	1/2	195,976	1/2	212,265	1/2	227,880	1/2	242,437	1/2		1/2		1/2		1/2	
3/4	163,688	3/4	180,002	3/4	196,316	3/4	212,601	3/4	228,195	3/4	242,730	3/4		3/4		3/4		3/4	
1	164,028	1	180,342	1	196,656	1	212,936	1	228,510	1	243,023	1		1		1		1	
1/4	164,368	1/4	180,682	1/4	196,996	1/4	213,270	1/4	228,823	1/4	243,314	1/4		1/4		1/4		1/4	
1/2	164,708	1/2	181,022	1/2	197,336	1/2	213,604	1/2	229,137	1/2	243,604	1/2		1/2		1/2		1/2	
3/4	165,048	3/4	181,362	3/4	197,676	3/4	213,937	3/4	229,450	3/4	243,895	3/4		3/4		3/4		3/4	
2	165,388	2	181,702	2	198,015	2	214,271	2	229,763	2	244,186	2		2		2		2	
1/4	165,727	1/4	182,042	1/4	198,355	1/4	214,603	1/4	230,073	1/4	244,472	1/4		1/4		1/4		1/4	
1/2	166,067	1/2	182,381	1/2	198,695	1/2	214,935	1/2	230,383	1/2	244,758	1/2		1/2		1/2		1/2	
3/4	166,407	3/4	182,721	3/4	199,035	3/4	215,267	3/4	230,692	3/4	245,044	3/4		3/4		3/4		3/4	
3	166,747	3	183,061	3	199,375	3	215,599	3	231,002	3	245,330	3		3		3		3	
1/4	167,087	1/4	183,401	1/4	199,715	1/4	215,930	1/4	231,310	1/4	245,614	1/4		1/4		1/4		1/4	
1/2	167,427	1/2	183,741	1/2	200,055	1/2	216,260	1/2	231,618	1/2	245,898	1/2		1/2		1/2		1/2	
3/4	167,767	3/4	184,081	3/4	200,395	3/4	216,590	3/4	231,927	3/4	246,183	3/4		3/4		3/4		3/4	
4	168,107	4	184,421	4	200,734	4	216,921	4	232,235	4	246,467	4		4		4		4	
1/4	168,447	1/4	184,761	1/4	201,074	1/4	217,250	1/4	232,541	1/4	246,742	1/4		1/4		1/4		1/4	
1/2	168,787	1/2	185,100	1/2	201,414	1/2	217,578	1/2	232,848	1/2	247,017	1/2		1/2		1/2		1/2	
3/4	169,127	3/4	185,440	3/4	201,754	3/4	217,907	3/4	233,154	3/4	247,291	3/4		3/4		3/4		3/4	
5	169,467	5	185,780	5	202,094	5	218,236	5	233,460	5	247,566	5		5		5		5	
1/4	169,806	1/4	186,120	1/4	202,434	1/4	218,563	1/4	233,765	1/4	247,773	1/4		1/4		1/4		1/4	
1/2	170,146	1/2	186,460	1/2	202,774	1/2	218,890	1/2	234,070	1/2	247,980	1/2		1/2		1/2		1/2	
3/4	170,486	3/4	186,800	3/4	203,113	3/4	219,217	3/4	234,375	3/4		3/4		3/4		3/4		3/4	
6	170,826	6	187,140	6	203,453	6	219,544	6	234,679	6		6		6		6		6	
1/4	171,166	1/4	187,480	1/4	203,793	1/4	219,869	1/4	234,982	1/4		1/4		1/4		1/4		1/4	
1/2	171,506	1/2	187,819	1/2	204,133	1/2	220,194	1/2	235,285	1/2		1/2		1/2		1/2		1/2	
3/4	171,846	3/4	188,159	3/4	204,473	3/4	220,519	3/4	235,589	3/4		3/4		3/4		3/4		3/4	
7	172,185	7	188,499	7	204,813	7	220,845	7	235,892	7		7		7		7		7	
1/4	172,525	1/4	188,839	1/4	205,153	1/4	221,168	1/4	236,193	1/4		1/4		1/4		1/4		1/4	
1/2	172,865	1/2	189,179	1/2	205,493	1/2	221,492	1/2	236,494	1/2		1/2		1/2		1/2		1/2	
3/4	173,205	3/4	189,519	3/4	205,832	3/4	221,816	3/4	236,796	3/4		3/4		3/4		3/4		3/4	
8	173,545	8	189,859	8	206,172	8	222,139	8	237,097	8		8		8		8		8	
1/4	173,885	1/4	190,198	1/4	206,512	1/4	222,461	1/4	237,397	1/4		1/4		1/4		1/4		1/4	
1/2	174,225	1/2	190,538	1/2	206,852	1/2	222,783	1/2	237,696	1/2		1/2		1/2		1/2		1/2	
3/4	174,565	3/4	190,878	3/4	207,192	3/4	223,105	3/4	237,996	3/4		3/4		3/4		3/4		3/4	
9	174,904	9	191,218	9	207,532	9	223,427	9	238,296	9		9		9		9		9	
1/4	175,244	1/4	191,558	1/4	207,871	1/4	223,747	1/4	238,594	1/4		1/4		1/4		1/4		1/4	
1/2	175,584	1/2	191,898	1/2	208,211	1/2	224,067	1/2	238,892	1/2		1/2		1/2		1/2		1/2	
3/4	175,924	3/4	192,238	3/4	208,551	3/4	224,388	3/4	239,190	3/4		3/4		3/4		3/4		3/4	
10	176,264	10	192,578	10	208,891	10	224,708	10	239,488	10		10		10		10		10	
1/4	176,604	1/4	192,917	1/4	209,230	1/4	225,026	1/4	239,784	1/4		1/4		1/4		1/4		1/4	
1/2	176,944	1/2	193,257	1/2	209,568	1/2	225,345	1/2	240,080	1/2		1/2		1/2		1/2		1/2	
3/4	177,283	3/4	193,597	3/4	209,907	3/4	225,663	3/4	240,377	3/4		3/4		3/4		3/4		3/4	
11	177,623	11	193,937	11	210,246	11	225,982	11	240,673	11		11		11		11		11	
1/4	177,963	1/4	194,277	1/4	210,583	1/4	226,299	1/4	240,967	1/4		1/4		1/4		1/4		1/4	
1/2	178,303	1/2	194,617	1/2	210,920	1/2	226,616	1/2	241,262	1/2		1/2		1/2		1/2		1/2	
3/4	178,643	3/4	194,957	3/4	211,257	3/4	226,933	3/4	241,557	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/30/2014 CL
CALCULATED: 07/31/2014 CL
PRINTED: 07/31/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CCL 411"

2 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5"

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	802	0	16,459	0	32,755	0	49,064	0	65,374	0	81,685	0	97,995	0	114,306	0	130,616	0	146,926
1/4	1,025	1/4	16,799	1/4	33,094	1/4	49,404	1/4	65,714	1/4	82,024	1/4	98,335	1/4	114,645	1/4	130,956	1/4	147,266
1/2	1,247	1/2	17,139	1/2	33,434	1/2	49,743	1/2	66,054	1/2	82,364	1/2	98,675	1/2	114,985	1/2	131,296	1/2	147,606
3/4	1,470	3/4	17,478	3/4	33,773	3/4	50,083	3/4	66,394	3/4	82,704	3/4	99,014	3/4	115,325	3/4	131,635	3/4	147,946
1	1,693	1	17,818	1	34,112	1	50,423	1	66,733	1	83,044	1	99,354	1	115,665	1	131,975	1	148,286
1/4	1,995	1/4	18,158	1/4	34,452	1/4	50,763	1/4	67,073	1/4	83,384	1/4	99,694	1/4	116,005	1/4	132,315	1/4	148,625
1/2	2,297	1/2	18,498	1/2	34,792	1/2	51,103	1/2	67,413	1/2	83,723	1/2	100,034	1/2	116,344	1/2	132,655	1/2	148,965
3/4	2,599	3/4	18,837	3/4	35,132	3/4	51,442	3/4	67,753	3/4	84,063	3/4	100,374	3/4	116,684	3/4	132,995	3/4	149,305
2	2,901	2	19,177	2	35,472	2	51,782	2	68,093	2	84,403	2	100,713	2	117,024	2	133,334	2	149,645
1/4	3,237	1/4	19,517	1/4	35,811	1/4	52,122	1/4	68,432	1/4	84,743	1/4	101,053	1/4	117,364	1/4	133,674	1/4	149,985
1/2	3,572	1/2	19,857	1/2	36,151	1/2	52,462	1/2	68,772	1/2	85,083	1/2	101,393	1/2	117,704	1/2	134,014	1/2	150,324
3/4	3,908	3/4	20,197	3/4	36,491	3/4	52,802	3/4	69,112	3/4	85,422	3/4	101,733	3/4	118,043	3/4	134,354	3/4	150,664
3	4,244	3	20,536	3	36,831	3	53,141	3	69,452	3	85,762	3	102,073	3	118,383	3	134,694	3	151,004
1/4	4,581	1/4	20,876	1/4	37,171	1/4	53,481	1/4	69,792	1/4	86,102	1/4	102,412	1/4	118,723	1/4	135,033	1/4	151,344
1/2	4,919	1/2	21,216	1/2	37,510	1/2	53,821	1/2	70,131	1/2	86,442	1/2	102,752	1/2	119,063	1/2	135,373	1/2	151,684
3/4	5,257	3/4	21,556	3/4	37,850	3/4	54,161	3/4	70,471	3/4	86,782	3/4	103,092	3/4	119,403	3/4	135,713	3/4	152,023
4	5,594	4	21,895	4	38,190	4	54,501	4	70,811	4	87,121	4	103,432	4	119,742	4	136,053	4	152,363
1/4	5,933	1/4	22,235	1/4	38,530	1/4	54,840	1/4	71,151	1/4	87,461	1/4	103,772	1/4	120,082	1/4	136,393	1/4	152,703
1/2	6,271	1/2	22,575	1/2	38,870	1/2	55,180	1/2	71,491	1/2	87,801	1/2	104,111	1/2	120,422	1/2	136,732	1/2	153,043
3/4	6,610	3/4	22,915	3/4	39,209	3/4	55,520	3/4	71,830	3/4	88,141	3/4	104,451	3/4	120,762	3/4	137,072	3/4	153,383
5	6,948	5	23,254	5	39,549	5	55,860	5	72,170	5	88,481	5	104,791	5	121,102	5	137,412	5	153,722
1/4	7,288	1/4	23,594	1/4	39,889	1/4	56,200	1/4	72,510	1/4	88,820	1/4	105,131	1/4	121,441	1/4	137,752	1/4	154,062
1/2	7,627	1/2	23,933	1/2	40,229	1/2	56,539	1/2	72,850	1/2	89,160	1/2	105,471	1/2	121,781	1/2	138,092	1/2	154,402
3/4	7,966	3/4	24,272	3/4	40,569	3/4	56,879	3/4	73,190	3/4	89,500	3/4	105,810	3/4	122,121	3/4	138,431	3/4	154,742
6	8,305	6	24,612	6	40,908	6	57,219	6	73,529	6	89,840	6	106,150	6	122,461	6	138,771	6	155,082
1/4	8,645	1/4	24,951	1/4	41,248	1/4	57,559	1/4	73,869	1/4	90,180	1/4	106,490	1/4	122,801	1/4	139,111	1/4	155,421
1/2	8,984	1/2	25,290	1/2	41,588	1/2	57,899	1/2	74,209	1/2	90,519	1/2	106,830	1/2	123,140	1/2	139,451	1/2	155,761
3/4	9,324	3/4	25,630	3/4	41,928	3/4	58,238	3/4	74,549	3/4	90,859	3/4	107,170	3/4	123,480	3/4	139,791	3/4	156,101
7	9,664	7	25,969	7	42,268	7	58,578	7	74,889	7	91,199	7	107,509	7	123,820	7	140,130	7	156,441
1/4	10,003	1/4	26,308	1/4	42,607	1/4	58,918	1/4	75,228	1/4	91,539	1/4	107,849	1/4	124,160	1/4	140,470	1/4	156,781
1/2	10,343	1/2	26,648	1/2	42,947	1/2	59,258	1/2	75,568	1/2	91,879	1/2	108,189	1/2	124,500	1/2	140,810	1/2	157,120
3/4	10,683	3/4	26,987	3/4	43,287	3/4	59,598	3/4	75,908	3/4	92,218	3/4	108,529	3/4	124,839	3/4	141,150	3/4	157,460
8	11,023	8	27,326	8	43,627	8	59,937	8	76,248	8	92,558	8	108,869	8	125,179	8	141,490	8	157,800
1/4	11,362	1/4	27,666	1/4	43,967	1/4	60,277	1/4	76,588	1/4	92,898	1/4	109,208	1/4	125,519	1/4	141,829	1/4	158,140
1/2	11,702	1/2	28,005	1/2	44,307	1/2	60,617	1/2	76,927	1/2	93,238	1/2	109,548	1/2	125,859	1/2	142,169	1/2	158,480
3/4	12,042	3/4	28,344	3/4	44,646	3/4	60,957	3/4	77,267	3/4	93,578	3/4	109,888	3/4	126,199	3/4	142,509	3/4	158,819
9	12,382	9	28,683	9	44,986	9	61,297	9	77,607	9	93,917	9	110,228	9	126,538	9	142,849	9	159,159
1/4	12,721	1/4	29,022	1/4	45,326	1/4	61,636	1/4	77,947	1/4	94,257	1/4	110,568	1/4	126,878	1/4	143,189	1/4	159,499
1/2	13,061	1/2	29,362	1/2	45,666	1/2	61,976	1/2	78,287	1/2	94,597	1/2	110,907	1/2	127,218	1/2	143,528	1/2	159,839
3/4	13,401	3/4	29,701	3/4	46,006	3/4	62,316	3/4	78,626	3/4	94,937	3/4	111,247	3/4	127,558	3/4	143,868	3/4	160,179
10	13,741	10	30,040	10	46,345	10	62,656	10	78,966	10	95,277	10	111,587	10	127,898	10	144,208	10	160,518
1/4	14,081	1/4	30,379	1/4	46,685	1/4	62,996	1/4	79,306	1/4	95,616	1/4	111,927	1/4	128,237	1/4	144,548	1/4	160,858
1/2	14,420	1/2	30,719	1/2	47,025	1/2	63,335	1/2	79,646	1/2	95,956	1/2	112,267	1/2	128,577	1/2	144,888	1/2	161,198
3/4	14,760	3/4	31,058	3/4	47,365	3/4	63,675	3/4	79,986	3/4	96,296	3/4	112,607	3/4	128,917	3/4	145,227	3/4	161,538
11	15,100	11	31,397	11	47,705	11	64,015	11	80,325	11	96,636	11	112,946	11	129,257	11	145,567	11	161,878
1/4	15,440	1/4	31,737	1/4	48,044	1/4	64,355	1/4	80,665	1/4	96,976	1/4	113,286	1/4	129,597	1/4	145,907	1/4	162,217
1/2	15,779	1/2	32,076	1/2	48,384	1/2	64,695	1/2	81,005	1/2	97,315	1/2	113,626	1/2	129,936	1/2	146,247	1/2	162,557
3/4	16,119	3/4	32,415	3/4	48,724	3/4	65,034	3/4	81,345	3/4	97,655	3/4	113,966	3/4	130,276	3/4	146,587	3/4	162,897

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE
GAUGE POINT: (2" PIPE) LOCATED 12'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

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

5,916.86 BBLS.

BARGE "CCL 411"

2 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5"

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	163,237	0	179,546	0	195,854	0	212,146	0	227,793	0	242,384	0		0		0		0	
1/4	163,577	1/4	179,885	1/4	196,194	1/4	212,481	1/4	228,108	1/4	242,677	1/4		1/4		1/4		1/4	
1/2	163,916	1/2	180,225	1/2	196,533	1/2	212,817	1/2	228,423	1/2	242,969	1/2		1/2		1/2		1/2	
3/4	164,256	3/4	180,565	3/4	196,873	3/4	213,152	3/4	228,738	3/4	243,262	3/4		3/4		3/4		3/4	
1	164,596	1	180,905	1	197,213	1	213,487	1	229,053	1	243,555	1		1		1		1	
1/4	164,936	1/4	181,244	1/4	197,553	1/4	213,821	1/4	229,366	1/4	243,845	1/4		1/4		1/4		1/4	
1/2	165,276	1/2	181,584	1/2	197,892	1/2	214,155	1/2	229,679	1/2	244,136	1/2		1/2		1/2		1/2	
3/4	165,615	3/4	181,924	3/4	198,232	3/4	214,488	3/4	229,992	3/4	244,426	3/4		3/4		3/4		3/4	
2	165,955	2	182,264	2	198,572	2	214,822	2	230,305	2	244,717	2		2		2		2	
1/4	166,295	1/4	182,603	1/4	198,912	1/4	215,154	1/4	230,615	1/4	245,002	1/4		1/4		1/4		1/4	
1/2	166,635	1/2	182,943	1/2	199,251	1/2	215,486	1/2	230,925	1/2	245,288	1/2		1/2		1/2		1/2	
3/4	166,975	3/4	183,283	3/4	199,591	3/4	215,817	3/4	231,234	3/4	245,574	3/4		3/4		3/4		3/4	
3	167,314	3	183,623	3	199,931	3	216,149	3	231,544	3	245,859	3		3		3		3	
1/4	167,654	1/4	183,962	1/4	200,271	1/4	216,480	1/4	231,852	1/4	246,143	1/4		1/4		1/4		1/4	
1/2	167,994	1/2	184,302	1/2	200,610	1/2	216,810	1/2	232,160	1/2	246,427	1/2		1/2		1/2		1/2	
3/4	168,334	3/4	184,642	3/4	200,950	3/4	217,140	3/4	232,467	3/4	246,712	3/4		3/4		3/4		3/4	
4	168,674	4	184,982	4	201,290	4	217,470	4	232,775	4	246,996	4		4		4		4	
1/4	169,013	1/4	185,321	1/4	201,630	1/4	217,799	1/4	233,082	1/4	247,270	1/4		1/4		1/4		1/4	
1/2	169,353	1/2	185,661	1/2	201,969	1/2	218,127	1/2	233,388	1/2	247,545	1/2		1/2		1/2		1/2	
3/4	169,693	3/4	186,001	3/4	202,309	3/4	218,456	3/4	233,694	3/4	247,820	3/4		3/4		3/4		3/4	
5	170,032	5	186,341	5	202,649	5	218,784	5	234,000	5	248,095	5		5		5		5	
1/4	170,372	1/4	186,680	1/4	202,989	1/4	219,111	1/4	234,305	1/4	248,301	1/4		1/4		1/4		1/4	
1/2	170,712	1/2	187,020	1/2	203,328	1/2	219,438	1/2	234,609	1/2	248,508	1/2		1/2		1/2		1/2	
3/4	171,052	3/4	187,360	3/4	203,668	3/4	219,765	3/4	234,914	3/4		3/4		3/4		3/4		3/4	
6	171,391	6	187,700	6	204,008	6	220,092	6	235,218	6		6		6		6		6	
1/4	171,731	1/4	188,039	1/4	204,348	1/4	220,417	1/4	235,521	1/4		1/4		1/4		1/4		1/4	
1/2	172,071	1/2	188,379	1/2	204,687	1/2	220,742	1/2	235,824	1/2		1/2		1/2		1/2		1/2	
3/4	172,411	3/4	188,719	3/4	205,027	3/4	221,067	3/4	236,127	3/4		3/4		3/4		3/4		3/4	
7	172,750	7	189,059	7	205,367	7	221,392	7	236,429	7		7		7		7		7	
1/4	173,090	1/4	189,398	1/4	205,707	1/4	221,716	1/4	236,731	1/4		1/4		1/4		1/4		1/4	
1/2	173,430	1/2	189,738	1/2	206,046	1/2	222,039	1/2	237,032	1/2		1/2		1/2		1/2		1/2	
3/4	173,770	3/4	190,078	3/4	206,386	3/4	222,363	3/4	237,333	3/4		3/4		3/4		3/4		3/4	
8	174,109	8	190,418	8	206,726	8	222,686	8	237,634	8		8		8		8		8	
1/4	174,449	1/4	190,757	1/4	207,066	1/4	223,008	1/4	237,933	1/4		1/4		1/4		1/4		1/4	
1/2	174,789	1/2	191,097	1/2	207,405	1/2	223,330	1/2	238,233	1/2		1/2		1/2		1/2		1/2	
3/4	175,129	3/4	191,437	3/4	207,745	3/4	223,651	3/4	238,532	3/4		3/4		3/4		3/4		3/4	
9	175,469	9	191,777	9	208,085	9	223,973	9	238,832	9		9		9		9		9	
1/4	175,808	1/4	192,116	1/4	208,425	1/4	224,293	1/4	239,129	1/4		1/4		1/4		1/4		1/4	
1/2	176,148	1/2	192,456	1/2	208,764	1/2	224,613	1/2	239,427	1/2		1/2		1/2		1/2		1/2	
3/4	176,488	3/4	192,796	3/4	209,104	3/4	224,933	3/4	239,725	3/4		3/4		3/4		3/4		3/4	
10	176,828	10	193,136	10	209,443	10	225,253	10	240,023	10		10		10		10		10	
1/4	177,167	1/4	193,476	1/4	209,782	1/4	225,572	1/4	240,319	1/4		1/4		1/4		1/4		1/4	
1/2	177,507	1/2	193,815	1/2	210,121	1/2	225,890	1/2	240,615	1/2		1/2		1/2		1/2		1/2	
3/4	177,847	3/4	194,155	3/4	210,459	3/4	226,208	3/4	240,911	3/4		3/4		3/4		3/4		3/4	
11	178,187	11	194,495	11	210,798	11	226,527	11	241,207	11		11		11		11		11	
1/4	178,526	1/4	194,835	1/4	211,135	1/4	226,843	1/4	241,501	1/4		1/4		1/4		1/4		1/4	
1/2	178,866	1/2	195,174	1/2	211,472	1/2	227,160	1/2	241,795	1/2		1/2		1/2		1/2		1/2	
3/4	179,206	3/4	195,514	3/4	211,809	3/4	227,477	3/4	242,090	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/30/2014 CL
CALCULATED: 07/31/2014 CL
PRINTED: 07/31/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CCL 411"

3 PORT
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5 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	747	0	15,306	0	30,458	0	45,623	0	60,789	0	75,956	0	91,123	0	106,289	0	121,456	0	136,608
1/4	954	1/4	15,622	1/4	30,773	1/4	45,939	1/4	61,105	1/4	76,272	1/4	91,439	1/4	106,605	1/4	121,771	1/4	136,924
1/2	1,161	1/2	15,938	1/2	31,089	1/2	46,255	1/2	61,421	1/2	76,588	1/2	91,755	1/2	106,921	1/2	122,087	1/2	137,240
3/4	1,368	3/4	16,254	3/4	31,405	3/4	46,571	3/4	61,737	3/4	76,904	3/4	92,071	3/4	107,237	3/4	122,403	3/4	137,556
1	1,576	1	16,569	1	31,720	1	46,887	1	62,053	1	77,220	1	92,386	1	107,553	1	122,718	1	137,872
1/4	1,856	1/4	16,885	1/4	32,036	1/4	47,203	1/4	62,369	1/4	77,536	1/4	92,702	1/4	107,869	1/4	123,034	1/4	138,188
1/2	2,137	1/2	17,201	1/2	32,352	1/2	47,519	1/2	62,685	1/2	77,852	1/2	93,018	1/2	108,185	1/2	123,350	1/2	138,504
3/4	2,418	3/4	17,517	3/4	32,668	3/4	47,835	3/4	63,001	3/4	78,168	3/4	93,334	3/4	108,501	3/4	123,665	3/4	138,820
2	2,698	2	17,833	2	32,984	2	48,151	2	63,317	2	78,484	2	93,650	2	108,817	2	123,981	2	139,136
1/4	3,011	1/4	18,149	1/4	33,300	1/4	48,467	1/4	63,633	1/4	78,800	1/4	93,966	1/4	109,133	1/4	124,297	1/4	139,451
1/2	3,323	1/2	18,465	1/2	33,616	1/2	48,783	1/2	63,949	1/2	79,116	1/2	94,282	1/2	109,449	1/2	124,612	1/2	139,767
3/4	3,635	3/4	18,781	3/4	33,932	3/4	49,099	3/4	64,265	3/4	79,432	3/4	94,598	3/4	109,765	3/4	124,928	3/4	140,083
3	3,947	3	19,097	3	34,248	3	49,415	3	64,581	3	79,748	3	94,914	3	110,081	3	125,244	3	140,399
1/4	4,261	1/4	19,413	1/4	34,564	1/4	49,730	1/4	64,897	1/4	80,064	1/4	95,230	1/4	110,397	1/4	125,559	1/4	140,715
1/2	4,575	1/2	19,729	1/2	34,880	1/2	50,046	1/2	65,213	1/2	80,380	1/2	95,546	1/2	110,713	1/2	125,875	1/2	141,031
3/4	4,889	3/4	20,045	3/4	35,196	3/4	50,362	3/4	65,529	3/4	80,696	3/4	95,862	3/4	111,029	3/4	126,191	3/4	141,347
4	5,203	4	20,361	4	35,512	4	50,678	4	65,845	4	81,012	4	96,178	4	111,345	4	126,506	4	141,663
1/4	5,518	1/4	20,677	1/4	35,828	1/4	50,994	1/4	66,161	1/4	81,328	1/4	96,494	1/4	111,661	1/4	126,822	1/4	141,979
1/2	5,832	1/2	20,993	1/2	36,144	1/2	51,310	1/2	66,477	1/2	81,643	1/2	96,810	1/2	111,977	1/2	127,138	1/2	142,295
3/4	6,147	3/4	21,308	3/4	36,460	3/4	51,626	3/4	66,793	3/4	81,959	3/4	97,126	3/4	112,293	3/4	127,453	3/4	142,611
5	6,462	5	21,624	5	36,776	5	51,942	5	67,109	5	82,275	5	97,442	5	112,609	5	127,769	5	142,927
1/4	6,778	1/4	21,940	1/4	37,092	1/4	52,258	1/4	67,425	1/4	82,591	1/4	97,758	1/4	112,925	1/4	128,085	1/4	143,243
1/2	7,093	1/2	22,255	1/2	37,408	1/2	52,574	1/2	67,741	1/2	82,907	1/2	98,074	1/2	113,241	1/2	128,400	1/2	143,559
3/4	7,408	3/4	22,571	3/4	37,724	3/4	52,890	3/4	68,057	3/4	83,223	3/4	98,390	3/4	113,556	3/4	128,716	3/4	143,875
6	7,724	6	22,887	6	38,040	6	53,206	6	68,373	6	83,539	6	98,706	6	113,872	6	129,032	6	144,191
1/4	8,040	1/4	23,202	1/4	38,356	1/4	53,522	1/4	68,689	1/4	83,855	1/4	99,022	1/4	114,188	1/4	129,347	1/4	144,507
1/2	8,355	1/2	23,518	1/2	38,672	1/2	53,838	1/2	69,005	1/2	84,171	1/2	99,338	1/2	114,504	1/2	129,663	1/2	144,823
3/4	8,671	3/4	23,833	3/4	38,988	3/4	54,154	3/4	69,321	3/4	84,487	3/4	99,654	3/4	114,820	3/4	129,979	3/4	145,139
7	8,987	7	24,149	7	39,303	7	54,470	7	69,637	7	84,803	7	99,970	7	115,136	7	130,294	7	145,455
1/4	9,303	1/4	24,464	1/4	39,619	1/4	54,786	1/4	69,953	1/4	85,119	1/4	100,286	1/4	115,452	1/4	130,610	1/4	145,771
1/2	9,619	1/2	24,780	1/2	39,935	1/2	55,102	1/2	70,269	1/2	85,435	1/2	100,602	1/2	115,768	1/2	130,926	1/2	146,087
3/4	9,935	3/4	25,095	3/4	40,251	3/4	55,418	3/4	70,585	3/4	85,751	3/4	100,918	3/4	116,084	3/4	131,241	3/4	146,403
8	10,251	8	25,411	8	40,567	8	55,734	8	70,901	8	86,067	8	101,234	8	116,400	8	131,557	8	146,719
1/4	10,567	1/4	25,726	1/4	40,883	1/4	56,050	1/4	71,216	1/4	86,383	1/4	101,550	1/4	116,716	1/4	131,873	1/4	147,035
1/2	10,883	1/2	26,041	1/2	41,199	1/2	56,366	1/2	71,532	1/2	86,699	1/2	101,866	1/2	117,032	1/2	132,188	1/2	147,351
3/4	11,198	3/4	26,357	3/4	41,515	3/4	56,682	3/4	71,848	3/4	87,015	3/4	102,182	3/4	117,348	3/4	132,504	3/4	147,667
9	11,514	9	26,672	9	41,831	9	56,998	9	72,164	9	87,331	9	102,498	9	117,664	9	132,820	9	147,983
1/4	11,830	1/4	26,987	1/4	42,147	1/4	57,314	1/4	72,480	1/4	87,647	1/4	102,813	1/4	117,980	1/4	133,135	1/4	148,299
1/2	12,146	1/2	27,303	1/2	42,463	1/2	57,630	1/2	72,796	1/2	87,963	1/2	103,129	1/2	118,296	1/2	133,451	1/2	148,615
3/4	12,462	3/4	27,618	3/4	42,779	3/4	57,946	3/4	73,112	3/4	88,279	3/4	103,445	3/4	118,612	3/4	133,767	3/4	148,931
10	12,778	10	27,934	10	43,095	10	58,262	10	73,428	10	88,595	10	103,761	10	118,928	10	134,082	10	149,247
1/4	13,094	1/4	28,249	1/4	43,411	1/4	58,578	1/4	73,744	1/4	88,911	1/4	104,077	1/4	119,244	1/4	134,398	1/4	149,563
1/2	13,410	1/2	28,565	1/2	43,727	1/2	58,894	1/2	74,060	1/2	89,227	1/2	104,393	1/2	119,560	1/2	134,714	1/2	149,879
3/4	13,726	3/4	28,880	3/4	44,043	3/4	59,210	3/4	74,376	3/4	89,543	3/4	104,709	3/4	119,876	3/4	135,029	3/4	150,195
11	14,042	11	29,196	11	44,359	11	59,526	11	74,692	11	89,859	11	105,025	11	120,192	11	135,345	11	150,511
1/4	14,358	1/4	29,511	1/4	44,675	1/4	59,842	1/4	75,008	1/4	90,175	1/4	105,341	1/4	120,508	1/4	135,661	1/4	150,827
1/2	14,674	1/2	29,827	1/2	44,991	1/2	60,158	1/2	75,324	1/2	90,491	1/2	105,657	1/2	120,824	1/2	135,976	1/2	151,143
3/4	14,990	3/4	30,142	3/4	45,307	3/4	60,473	3/4	75,640	3/4	90,807	3/4	105,973	3/4	121,140	3/4	136,292	3/4	151,459

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE
GAUGE POINT: (2" PIPE) LOCATED 12'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

5,102.26 BBLS.

BARGE "CCL 411"

3 PORT
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-5 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	151,775	0	164,287	0	175,963	0	187,627	0	198,831	0	209,276	0		0		0		0	
1/4	152,091	1/4	164,531	1/4	176,206	1/4	187,868	1/4	199,057	1/4	209,485	1/4		1/4		1/4		1/4	
1/2	152,407	1/2	164,774	1/2	176,449	1/2	188,108	1/2	199,282	1/2	209,695	1/2		1/2		1/2		1/2	
3/4	152,723	3/4	165,017	3/4	176,693	3/4	188,348	3/4	199,508	3/4	209,904	3/4		3/4		3/4		3/4	
1	153,039	1	165,260	1	176,936	1	188,588	1	199,733	1	210,114	1		1		1		1	
1/4	153,355	1/4	165,503	1/4	177,179	1/4	188,827	1/4	199,957	1/4	210,322	1/4		1/4		1/4		1/4	
1/2	153,671	1/2	165,747	1/2	177,422	1/2	189,065	1/2	200,182	1/2	210,529	1/2		1/2		1/2		1/2	
3/4	153,987	3/4	165,990	3/4	177,666	3/4	189,304	3/4	200,406	3/4	210,737	3/4		3/4		3/4		3/4	
2	154,303	2	166,233	2	177,909	2	189,543	2	200,630	2	210,945	2		2		2		2	
1/4	154,610	1/4	166,476	1/4	178,152	1/4	189,781	1/4	200,851	1/4	211,157	1/4		1/4		1/4		1/4	
1/2	154,916	1/2	166,720	1/2	178,395	1/2	190,018	1/2	201,073	1/2	211,370	1/2		1/2		1/2		1/2	
3/4	155,223	3/4	166,963	3/4	178,639	3/4	190,256	3/4	201,295	3/4	211,582	3/4		3/4		3/4		3/4	
3	155,530	3	167,206	3	178,882	3	190,494	3	201,516	3	211,795	3		3		3		3	
1/4	155,774	1/4	167,449	1/4	179,125	1/4	190,730	1/4	201,737	1/4	212,068	1/4		1/4		1/4		1/4	
1/2	156,017	1/2	167,693	1/2	179,368	1/2	190,967	1/2	201,957	1/2	212,342	1/2		1/2		1/2		1/2	
3/4	156,260	3/4	167,936	3/4	179,612	3/4	191,203	3/4	202,177	3/4	212,616	3/4		3/4		3/4		3/4	
4	156,503	4	168,179	4	179,855	4	191,439	4	202,398	4	212,889	4		4		4		4	
1/4	156,747	1/4	168,422	1/4	180,098	1/4	191,675	1/4	202,617	1/4	213,145	1/4		1/4		1/4		1/4	
1/2	156,990	1/2	168,666	1/2	180,341	1/2	191,910	1/2	202,836	1/2	213,400	1/2		1/2		1/2		1/2	
3/4	157,233	3/4	168,909	3/4	180,585	3/4	192,145	3/4	203,055	3/4	213,656	3/4		3/4		3/4		3/4	
5	157,476	5	169,152	5	180,828	5	192,380	5	203,274	5	213,911	5		5		5		5	
1/4	157,720	1/4	169,395	1/4	181,071	1/4	192,614	1/4	203,492	1/4	214,103	1/4		1/4		1/4		1/4	
1/2	157,963	1/2	169,639	1/2	181,314	1/2	192,848	1/2	203,710	1/2	214,295	1/2		1/2		1/2		1/2	
3/4	158,206	3/4	169,882	3/4	181,558	3/4	193,082	3/4	203,928	3/4		3/4		3/4		3/4		3/4	
6	158,449	6	170,125	6	181,801	6	193,316	6	204,146	6		6		6		6		6	
1/4	158,693	1/4	170,368	1/4	182,044	1/4	193,549	1/4	204,363	1/4		1/4		1/4		1/4		1/4	
1/2	158,936	1/2	170,612	1/2	182,287	1/2	193,782	1/2	204,580	1/2		1/2		1/2		1/2		1/2	
3/4	159,179	3/4	170,855	3/4	182,531	3/4	194,015	3/4	204,797	3/4		3/4		3/4		3/4		3/4	
7	159,422	7	171,098	7	182,774	7	194,248	7	205,013	7		7		7		7		7	
1/4	159,666	1/4	171,341	1/4	183,017	1/4	194,479	1/4	205,229	1/4		1/4		1/4		1/4		1/4	
1/2	159,909	1/2	171,585	1/2	183,260	1/2	194,711	1/2	205,444	1/2		1/2		1/2		1/2		1/2	
3/4	160,152	3/4	171,828	3/4	183,503	3/4	194,942	3/4	205,660	3/4		3/4		3/4		3/4		3/4	
8	160,395	8	172,071	8	183,747	8	195,174	8	205,875	8		8		8		8		8	
1/4	160,639	1/4	172,314	1/4	183,990	1/4	195,404	1/4	206,090	1/4		1/4		1/4		1/4		1/4	
1/2	160,882	1/2	172,558	1/2	184,233	1/2	195,635	1/2	206,304	1/2		1/2		1/2		1/2		1/2	
3/4	161,125	3/4	172,801	3/4	184,476	3/4	195,865	3/4	206,518	3/4		3/4		3/4		3/4		3/4	
9	161,368	9	173,044	9	184,720	9	196,096	9	206,733	9		9		9		9		9	
1/4	161,612	1/4	173,287	1/4	184,963	1/4	196,325	1/4	206,946	1/4		1/4		1/4		1/4		1/4	
1/2	161,855	1/2	173,531	1/2	185,206	1/2	196,554	1/2	207,159	1/2		1/2		1/2		1/2		1/2	
3/4	162,098	3/4	173,774	3/4	185,449	3/4	196,783	3/4	207,372	3/4		3/4		3/4		3/4		3/4	
10	162,341	10	174,017	10	185,692	10	197,012	10	207,585	10		10		10		10		10	
1/4	162,585	1/4	174,260	1/4	185,935	1/4	197,240	1/4	207,797	1/4		1/4		1/4		1/4		1/4	
1/2	162,828	1/2	174,503	1/2	186,177	1/2	197,468	1/2	208,009	1/2		1/2		1/2		1/2		1/2	
3/4	163,071	3/4	174,747	3/4	186,420	3/4	197,696	3/4	208,221	3/4		3/4		3/4		3/4		3/4	
11	163,314	11	174,990	11	186,662	11	197,924	11	208,433	11		11		11		11		11	
1/4	163,558	1/4	175,233	1/4	186,904	1/4	198,151	1/4	208,644	1/4		1/4		1/4		1/4		1/4	
1/2	163,801	1/2	175,476	1/2	187,145	1/2	198,378	1/2	208,854	1/2		1/2		1/2		1/2		1/2	
3/4	164,044	3/4	175,720	3/4	187,386	3/4	198,604	3/4	209,065	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/30/2014 CL
CALCULATED: 07/31/2014 CL
PRINTED: 07/31/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "CCL 411"

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-3 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	747	0	15,306	0	30,074	0	45,037	0	60,194	0	75,342	0	90,469	0	105,633	0	120,796	0	135,945
1/4	954	1/4	15,622	1/4	30,378	1/4	45,353	1/4	60,510	1/4	75,657	1/4	90,785	1/4	105,949	1/4	121,112	1/4	136,261
1/2	1,161	1/2	15,938	1/2	30,682	1/2	45,668	1/2	60,825	1/2	75,972	1/2	91,101	1/2	106,265	1/2	121,427	1/2	136,577
3/4	1,368	3/4	16,254	3/4	30,985	3/4	45,984	3/4	61,141	3/4	76,287	3/4	91,417	3/4	106,581	3/4	121,743	3/4	136,893
1	1,576	1	16,570	1	31,289	1	46,300	1	61,457	1	76,602	1	91,733	1	106,896	1	122,059	1	137,209
1/4	1,856	1/4	16,885	1/4	31,593	1/4	46,616	1/4	61,773	1/4	76,917	1/4	92,049	1/4	107,212	1/4	122,374	1/4	137,525
1/2	2,137	1/2	17,201	1/2	31,897	1/2	46,931	1/2	62,088	1/2	77,232	1/2	92,365	1/2	107,528	1/2	122,690	1/2	137,841
3/4	2,418	3/4	17,517	3/4	32,201	3/4	47,247	3/4	62,404	3/4	77,547	3/4	92,681	3/4	107,844	3/4	123,005	3/4	138,157
2	2,698	2	17,833	2	32,506	2	47,563	2	62,720	2	77,862	2	92,997	2	108,160	2	123,321	2	138,473
1/4	3,011	1/4	18,149	1/4	32,809	1/4	47,879	1/4	63,036	1/4	78,176	1/4	93,312	1/4	108,476	1/4	123,637	1/4	138,788
1/2	3,323	1/2	18,465	1/2	33,113	1/2	48,195	1/2	63,351	1/2	78,491	1/2	93,628	1/2	108,792	1/2	123,952	1/2	139,104
3/4	3,635	3/4	18,781	3/4	33,417	3/4	48,510	3/4	63,667	3/4	78,806	3/4	93,944	3/4	109,108	3/4	124,268	3/4	139,420
3	3,947	3	19,097	3	33,720	3	48,826	3	63,983	3	79,121	3	94,260	3	109,424	3	124,584	3	139,736
1/4	4,261	1/4	19,412	1/4	34,026	1/4	49,142	1/4	64,299	1/4	79,436	1/4	94,576	1/4	109,740	1/4	124,899	1/4	140,052
1/2	4,575	1/2	19,726	1/2	34,331	1/2	49,458	1/2	64,615	1/2	79,751	1/2	94,892	1/2	110,056	1/2	125,215	1/2	140,368
3/4	4,889	3/4	20,040	3/4	34,636	3/4	49,773	3/4	64,930	3/4	80,066	3/4	95,208	3/4	110,371	3/4	125,530	3/4	140,684
4	5,203	4	20,355	4	34,941	4	50,089	4	65,246	4	80,381	4	95,524	4	110,687	4	125,846	4	141,000
1/4	5,518	1/4	20,659	1/4	35,257	1/4	50,405	1/4	65,562	1/4	80,696	1/4	95,840	1/4	111,003	1/4	126,162	1/4	141,316
1/2	5,832	1/2	20,963	1/2	35,572	1/2	50,721	1/2	65,878	1/2	81,011	1/2	96,156	1/2	111,319	1/2	126,477	1/2	141,632
3/4	6,147	3/4	21,267	3/4	35,887	3/4	51,036	3/4	66,193	3/4	81,326	3/4	96,472	3/4	111,635	3/4	126,793	3/4	141,948
5	6,462	5	21,571	5	36,203	5	51,352	5	66,509	5	81,641	5	96,787	5	111,951	5	127,108	5	142,264
1/4	6,778	1/4	21,875	1/4	36,518	1/4	51,668	1/4	66,825	1/4	81,956	1/4	97,103	1/4	112,267	1/4	127,424	1/4	142,579
1/2	7,093	1/2	22,179	1/2	36,834	1/2	51,984	1/2	67,141	1/2	82,271	1/2	97,419	1/2	112,583	1/2	127,740	1/2	142,895
3/4	7,408	3/4	22,482	3/4	37,149	3/4	52,300	3/4	67,456	3/4	82,586	3/4	97,735	3/4	112,899	3/4	128,055	3/4	143,211
6	7,724	6	22,786	6	37,464	6	52,615	6	67,772	6	82,901	6	98,051	6	113,215	6	128,371	6	143,527
1/4	8,040	1/4	23,090	1/4	37,780	1/4	52,931	1/4	68,088	1/4	83,216	1/4	98,367	1/4	113,531	1/4	128,686	1/4	143,843
1/2	8,355	1/2	23,394	1/2	38,095	1/2	53,247	1/2	68,404	1/2	83,530	1/2	98,683	1/2	113,846	1/2	129,002	1/2	144,159
3/4	8,671	3/4	23,697	3/4	38,410	3/4	53,563	3/4	68,720	3/4	83,845	3/4	98,999	3/4	114,162	3/4	129,318	3/4	144,475
7	8,987	7	24,001	7	38,726	7	53,878	7	69,035	7	84,160	7	99,315	7	114,478	7	129,633	7	144,791
1/4	9,303	1/4	24,305	1/4	39,041	1/4	54,194	1/4	69,351	1/4	84,475	1/4	99,631	1/4	114,794	1/4	129,949	1/4	145,107
1/2	9,619	1/2	24,608	1/2	39,357	1/2	54,510	1/2	69,667	1/2	84,790	1/2	99,947	1/2	115,110	1/2	130,264	1/2	145,423
3/4	9,935	3/4	24,912	3/4	39,672	3/4	54,826	3/4	69,983	3/4	85,105	3/4	100,262	3/4	115,426	3/4	130,580	3/4	145,739
8	10,251	8	25,216	8	39,987	8	55,141	8	70,298	8	85,420	8	100,578	8	115,742	8	130,896	8	146,055
1/4	10,567	1/4	25,519	1/4	40,303	1/4	55,457	1/4	70,614	1/4	85,735	1/4	100,894	1/4	116,058	1/4	131,211	1/4	146,371
1/2	10,883	1/2	25,823	1/2	40,618	1/2	55,773	1/2	70,930	1/2	86,050	1/2	101,210	1/2	116,374	1/2	131,527	1/2	146,687
3/4	11,198	3/4	26,126	3/4	40,934	3/4	56,089	3/4	71,246	3/4	86,365	3/4	101,526	3/4	116,690	3/4	131,842	3/4	147,003
9	11,514	9	26,430	9	41,249	9	56,405	9	71,561	9	86,680	9	101,842	9	117,006	9	132,158	9	147,319
1/4	11,830	1/4	26,734	1/4	41,564	1/4	56,720	1/4	71,877	1/4	86,996	1/4	102,158	1/4	117,321	1/4	132,474	1/4	147,635
1/2	12,146	1/2	27,037	1/2	41,880	1/2	57,036	1/2	72,192	1/2	87,311	1/2	102,474	1/2	117,637	1/2	132,789	1/2	147,951
3/4	12,462	3/4	27,341	3/4	42,195	3/4	57,352	3/4	72,507	3/4	87,627	3/4	102,790	3/4	117,953	3/4	133,105	3/4	148,267
10	12,778	10	27,644	10	42,511	10	57,668	10	72,822	10	87,942	10	103,106	10	118,269	10	133,420	10	148,583
1/4	13,094	1/4	27,948	1/4	42,826	1/4	57,983	1/4	73,137	1/4	88,258	1/4	103,422	1/4	118,585	1/4	133,736	1/4	148,899
1/2	13,410	1/2	28,252	1/2	43,142	1/2	58,299	1/2	73,452	1/2	88,574	1/2	103,737	1/2	118,901	1/2	134,052	1/2	149,215
3/4	13,726	3/4	28,555	3/4	43,458	3/4	58,615	3/4	73,767	3/4	88,890	3/4	104,053	3/4	119,217	3/4	134,367	3/4	149,531
11	14,042	11	28,859	11	43,774	11	58,931	11	74,082	11	89,206	11	104,369	11	119,533	11	134,683	11	149,847
1/4	14,358	1/4	29,163	1/4	44,090	1/4	59,246	1/4	74,397	1/4	89,522	1/4	104,685	1/4	119,849	1/4	134,998	1/4	150,163
1/2	14,674	1/2	29,467	1/2	44,405	1/2	59,562	1/2	74,712	1/2	89,837	1/2	105,001	1/2	120,165	1/2	135,314	1/2	150,479
3/4	14,990	3/4	29,770	3/4	44,721	3/4	59,878	3/4	75,027	3/4	90,153	3/4	105,317	3/4	120,480	3/4	135,630	3/4	150,795

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE
GAUGE POINT: (2" PIPE) LOCATED 12'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD

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

5,086.02 BBLS.

BARGE "CCL 411"

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-3 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	151,111	0	163,621	0	175,293	0	186,954	0	198,154	0	208,594	0		0		0		0	
1/4	151,427	1/4	163,864	1/4	175,536	1/4	187,194	1/4	198,380	1/4	208,804	1/4		1/4		1/4		1/4	
1/2	151,743	1/2	164,107	1/2	175,780	1/2	187,434	1/2	198,605	1/2	209,013	1/2		1/2		1/2		1/2	
3/4	152,059	3/4	164,351	3/4	176,023	3/4	187,674	3/4	198,831	3/4	209,223	3/4		3/4		3/4		3/4	
1	152,375	1	164,594	1	176,266	1	187,914	1	199,056	1	209,432	1		1		1		1	
1/4	152,691	1/4	164,837	1/4	176,509	1/4	188,153	1/4	199,280	1/4	209,640	1/4		1/4		1/4		1/4	
1/2	153,007	1/2	165,080	1/2	176,752	1/2	188,392	1/2	199,504	1/2	209,847	1/2		1/2		1/2		1/2	
3/4	153,323	3/4	165,323	3/4	176,995	3/4	188,631	3/4	199,728	3/4	210,055	3/4		3/4		3/4		3/4	
2	153,639	2	165,566	2	177,239	2	188,870	2	199,952	2	210,263	2		2		2		2	
1/4	153,946	1/4	165,810	1/4	177,482	1/4	189,107	1/4	200,174	1/4	210,475	1/4		1/4		1/4		1/4	
1/2	154,253	1/2	166,053	1/2	177,725	1/2	189,345	1/2	200,395	1/2	210,688	1/2		1/2		1/2		1/2	
3/4	154,560	3/4	166,296	3/4	177,968	3/4	189,582	3/4	200,617	3/4	210,900	3/4		3/4		3/4		3/4	
3	154,867	3	166,539	3	178,211	3	189,820	3	200,838	3	211,112	3		3		3		3	
1/4	155,110	1/4	166,782	1/4	178,454	1/4	190,056	1/4	201,059	1/4	211,386	1/4		1/4		1/4		1/4	
1/2	155,353	1/2	167,025	1/2	178,698	1/2	190,293	1/2	201,279	1/2	211,659	1/2		1/2		1/2		1/2	
3/4	155,596	3/4	167,269	3/4	178,941	3/4	190,529	3/4	201,499	3/4	211,933	3/4		3/4		3/4		3/4	
4	155,839	4	167,512	4	179,184	4	190,765	4	201,720	4	212,206	4		4		4		4	
1/4	156,083	1/4	167,755	1/4	179,427	1/4	191,000	1/4	201,939	1/4	212,462	1/4		1/4		1/4		1/4	
1/2	156,326	1/2	167,998	1/2	179,670	1/2	191,236	1/2	202,158	1/2	212,717	1/2		1/2		1/2		1/2	
3/4	156,569	3/4	168,241	3/4	179,914	3/4	191,471	3/4	202,377	3/4	212,973	3/4		3/4		3/4		3/4	
5	156,812	5	168,484	5	180,157	5	191,706	5	202,596	5	213,228	5		5		5		5	
1/4	157,055	1/4	168,728	1/4	180,400	1/4	191,940	1/4	202,814	1/4	213,420	1/4		1/4		1/4		1/4	
1/2	157,299	1/2	168,971	1/2	180,643	1/2	192,174	1/2	203,032	1/2	213,613	1/2		1/2		1/2		1/2	
3/4	157,542	3/4	169,214	3/4	180,886	3/4	192,408	3/4	203,249	3/4		3/4		3/4		3/4		3/4	
6	157,785	6	169,457	6	181,129	6	192,642	6	203,467	6		6		6		6		6	
1/4	158,028	1/4	169,700	1/4	181,373	1/4	192,874	1/4	203,684	1/4		1/4		1/4		1/4		1/4	
1/2	158,271	1/2	169,943	1/2	181,616	1/2	193,107	1/2	203,901	1/2		1/2		1/2		1/2		1/2	
3/4	158,514	3/4	170,187	3/4	181,859	3/4	193,340	3/4	204,117	3/4		3/4		3/4		3/4		3/4	
7	158,758	7	170,430	7	182,102	7	193,573	7	204,334	7		7		7		7		7	
1/4	159,001	1/4	170,673	1/4	182,345	1/4	193,804	1/4	204,549	1/4		1/4		1/4		1/4		1/4	
1/2	159,244	1/2	170,916	1/2	182,588	1/2	194,036	1/2	204,765	1/2		1/2		1/2		1/2		1/2	
3/4	159,487	3/4	171,159	3/4	182,832	3/4	194,267	3/4	204,980	3/4		3/4		3/4		3/4		3/4	
8	159,730	8	171,402	8	183,075	8	194,499	8	205,196	8		8		8		8		8	
1/4	159,973	1/4	171,646	1/4	183,318	1/4	194,729	1/4	205,410	1/4		1/4		1/4		1/4		1/4	
1/2	160,217	1/2	171,889	1/2	183,561	1/2	194,959	1/2	205,624	1/2		1/2		1/2		1/2		1/2	
3/4	160,460	3/4	172,132	3/4	183,804	3/4	195,189	3/4	205,838	3/4		3/4		3/4		3/4		3/4	
9	160,703	9	172,375	9	184,047	9	195,420	9	206,053	9		9		9		9		9	
1/4	160,946	1/4	172,618	1/4	184,291	1/4	195,649	1/4	206,266	1/4		1/4		1/4		1/4		1/4	
1/2	161,189	1/2	172,862	1/2	184,534	1/2	195,878	1/2	206,479	1/2		1/2		1/2		1/2		1/2	
3/4	161,432	3/4	173,105	3/4	184,777	3/4	196,107	3/4	206,692	3/4		3/4		3/4		3/4		3/4	
10	161,676	10	173,348	10	185,020	10	196,336	10	206,905	10		10		10		10		10	
1/4	161,919	1/4	173,591	1/4	185,262	1/4	196,564	1/4	207,117	1/4		1/4		1/4		1/4		1/4	
1/2	162,162	1/2	173,834	1/2	185,505	1/2	196,792	1/2	207,328	1/2		1/2		1/2		1/2		1/2	
3/4	162,405	3/4	174,077	3/4	185,747	3/4	197,020	3/4	207,540	3/4		3/4		3/4		3/4		3/4	
11	162,648	11	174,321	11	185,990	11	197,248	11	207,752	11		11		11		11		11	
1/4	162,891	1/4	174,564	1/4	186,231	1/4	197,474	1/4	207,963	1/4		1/4		1/4		1/4		1/4	
1/2	163,135	1/2	174,807	1/2	186,472	1/2	197,701	1/2	208,173	1/2		1/2		1/2		1/2		1/2	
3/4	163,378	3/4	175,050	3/4	186,713	3/4	197,928	3/4	208,384	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/30/2014 CL
CALCULATED: 07/31/2014 CL
PRINTED: 07/31/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

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

A. NOTIFICATION CHECKLIST AND EMERGENCY PROCEDURES

1. Owner, Address and Contact Procedures

Chem Carriers, L.L.C. will act as the owner of this barge for the purpose of this Plan. Any oil spill response will be coordinated by Chem Carriers, L.L.C. in the person of the QI/AQI named Below. The QI will coordinate efforts with other companies as required by circumstances and existing legal agreement between the parties. Chem Carriers, L.L.C. mailing address:

Chem Carriers, L.L.C.
1247 Hwy. 75 Brookwood
Sunshine, LA 70780

Chem Carriers, L.L.C. will act as the Operator of the barges in this Plan. Their address is:

Chem Carriers, L.L.C.
1247 Hwy. 75 Brookwood
Sunshine, LA 70780
(225) 642-0060
(225) 642-9454 (fax)

2. QUALIFIED INDIVIDUAL (QI) 24 HOUR CONTACT PROCEDURES

Doug LeBlanc
(225) 642-0060 24 Hour Office
(225) 571-1944 Cell

ALTERNATE INDIVIDUAL (QI) 24 HOUR CONTACT PROCEDURES

John Williams
(225) 642-0060 24 Hour Office
(225) 439-6805 Cell
(225) 664-0062 Home

NOTIFICATION CHECKLIST
VESSEL

1. Chem Carriers, L.L.C. has a 24 hour number, it is (225) 642-0060, this number can be used to contact:

   a. Qualified Individual: Doug LeBlanc

   b. Alternate Qualified Individuals: John Williams

2. U.S. Coast Guard (NRC) (800) 424-8802 or (202) 267-2675

3. Any local U.S. Coast Guard Office in the area (See Geographic-Specific appendix in Section J of the Plan)

4. Any State/Local Agencies in the area (See Geographic-Specific appendix in Section J of the Plan)

NOTIFICATION CHECKLIST
SHORE BASED

QI/AQI receiving information from vessel should:

1. Get condition of the crew and the vessel

2. Amount of oil Onboard/Discharged

3. Size of spill and direction, and dispatch an environmental contractor to the scene (See geographic specific appendix in Section J of the Plan)

4. U.S. Coast Guard (NRC) (800) 424-8802 or (202) 267-2675

5. Any local U.S. Coast Guard Office in the area (See Geographic-Specific appendix in Section J of the Plan)

6. Any State/Local Agencies in the area (See Geographic-Specific appendix in Section J of the Plan)

7. Notify Cargo Owner representative

8. Notify Company owner representative

9. Notify Pollution Insurance Carrier (See Section F of this Plan)

10. Notify legal counsel if necessary

**** QI/AQI Should record the time and name of each person contacted on the Oil Spill Report Form.**

3. NATIONAL RESPONSE CENTER (NRC) CONTACT PROCEDURE

The QI or AQI is responsible for notifying the NRC at:

(800) 424-8802
(202) 267-2675

4. OIL SPILL REPORTING FORM

Information to be provided to the QI by the vessel personnel reporting a spill is summarized on the following page on the Oil Spill Reporting Form

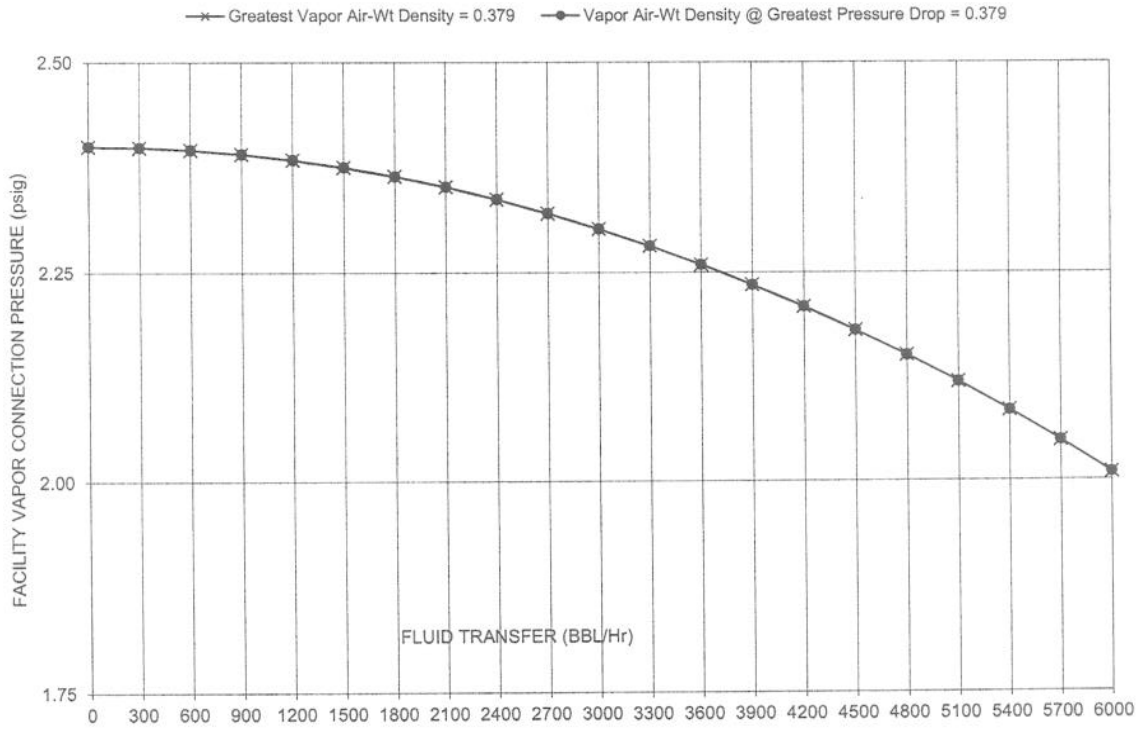
5. RESPONSE ACTION STATEMENT

Where safety to human life is not jeopardized, the Captain of the towing vessel will direct the crew to gather the information listed in this Plan, to secure the barge to the safest extent possible, and to take steps to mitigate a spill or a threat of a spill.

The Captain will notify the QI of the nearest Coast Guard COTP and local traffic. The QI will arrange for mitigation of discharge and once response is underway will complete other agency notification.

Vapor Control System (VCS) Calculations

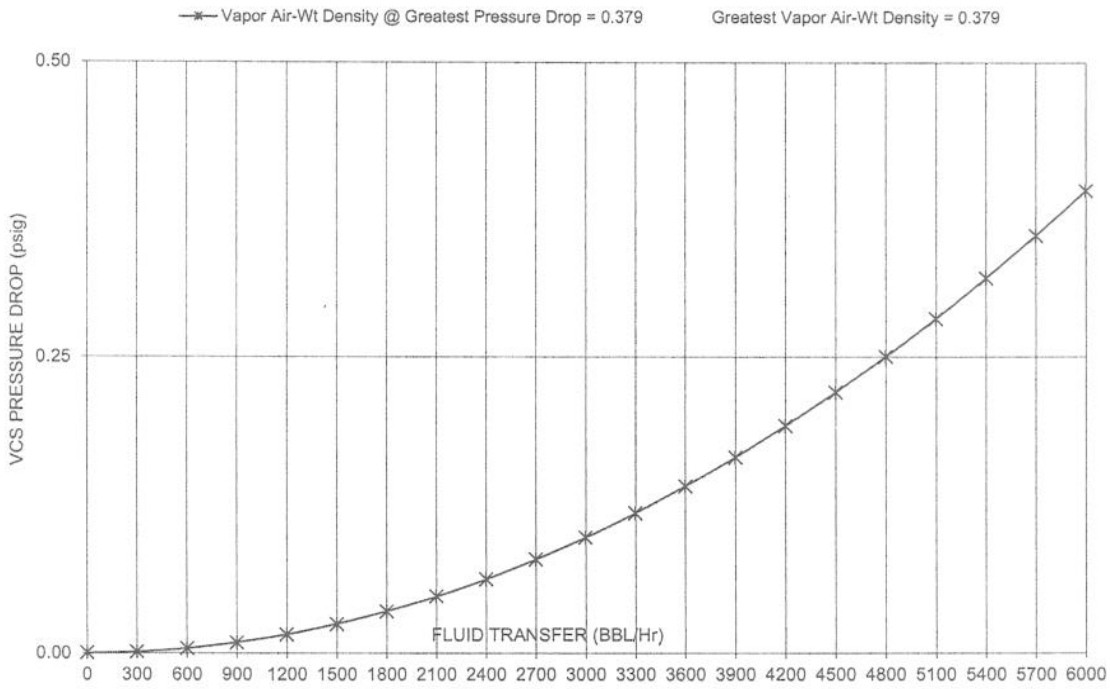
FIG. 2 - Facility Vapor Connection Pressure vs. Maximum Allowable Flowrate based on not Exceeding 80% of the Allowable P/V Valve Setting



CCL 410, 411

Vapor Control System (VCS) Calculations

FIG. 1 - Pressure Drop vs. Flowrate from Farthest Tank to Facility Vapor Collection for Cargo with Maximum Pressure Drop



CEC 410, 411