



BARGE "EMS 385"

INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

September 11, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 385"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	16.22	0	268.51	0	553.38	0	860.82	0	1,189.39	0	1,521.62	0	1,853.85	0	2,186.08	0	2,518.32	0	2,850.54
1/4	19.45	1/4	274.22	1/4	559.58	1/4	867.47	1/4	1,196.31	1/4	1,528.54	1/4	1,860.77	1/4	2,193.00	1/4	2,525.24	1/4	2,857.46
1/2	22.69	1/2	279.93	1/2	565.78	1/2	874.12	1/2	1,203.23	1/2	1,535.46	1/2	1,867.69	1/2	2,199.93	1/2	2,532.16	1/2	2,864.38
3/4	25.93	3/4	285.64	3/4	571.98	3/4	880.78	3/4	1,210.15	3/4	1,542.38	3/4	1,874.62	3/4	2,206.85	3/4	2,539.08	3/4	2,871.30
1	29.17	1	291.34	1	578.19	1	887.43	1	1,217.07	1	1,549.31	1	1,881.54	1	2,213.77	1	2,546.00	1	2,878.22
1/4	34.18	1/4	297.09	1/4	584.43	1/4	894.13	1/4	1,223.99	1/4	1,556.23	1/4	1,888.46	1/4	2,220.69	1/4	2,552.92	1/4	2,885.14
1/2	39.19	1/2	302.84	1/2	590.67	1/2	900.82	1/2	1,230.92	1/2	1,563.15	1/2	1,895.38	1/2	2,227.61	1/2	2,559.84	1/2	2,892.06
3/4	44.19	3/4	308.59	3/4	596.92	3/4	907.51	3/4	1,237.84	3/4	1,570.07	3/4	1,902.30	3/4	2,234.53	3/4	2,566.77	3/4	2,898.98
2	49.20	2	314.34	2	603.16	2	914.21	2	1,244.76	2	1,576.99	2	1,909.22	2	2,241.46	2	2,573.69	2	2,905.90
1/4	54.50	1/4	320.13	1/4	609.44	1/4	920.94	1/4	1,251.68	1/4	1,583.91	1/4	1,916.14	1/4	2,248.38	1/4	2,580.61	1/4	2,912.82
1/2	59.80	1/2	325.92	1/2	615.73	1/2	927.68	1/2	1,258.60	1/2	1,590.83	1/2	1,923.07	1/2	2,255.30	1/2	2,587.53	1/2	2,919.74
3/4	65.10	3/4	331.72	3/4	622.01	3/4	934.41	3/4	1,265.52	3/4	1,597.76	3/4	1,929.99	3/4	2,262.22	3/4	2,594.45	3/4	2,926.66
3	70.39	3	337.51	3	628.30	3	941.15	3	1,272.45	3	1,604.68	3	1,936.91	3	2,269.14	3	2,601.37	3	2,933.59
1/4	75.73	1/4	343.34	1/4	634.62	1/4	947.94	1/4	1,279.37	1/4	1,611.60	1/4	1,943.83	1/4	2,276.06	1/4	2,608.29	1/4	2,940.51
1/2	81.07	1/2	349.17	1/2	640.95	1/2	954.74	1/2	1,286.29	1/2	1,618.52	1/2	1,950.75	1/2	2,282.98	1/2	2,615.22	1/2	2,947.43
3/4	86.41	3/4	355.00	3/4	647.27	3/4	961.53	3/4	1,293.21	3/4	1,625.44	3/4	1,957.67	3/4	2,289.91	3/4	2,622.14	3/4	2,954.35
4	91.75	4	360.83	4	653.60	4	968.33	4	1,300.13	4	1,632.36	4	1,964.60	4	2,296.83	4	2,629.06	4	2,961.27
1/4	97.13	1/4	366.71	1/4	659.96	1/4	975.16	1/4	1,307.05	1/4	1,639.28	1/4	1,971.52	1/4	2,303.75	1/4	2,635.98	1/4	2,968.19
1/2	102.51	1/2	372.58	1/2	666.33	1/2	982.00	1/2	1,313.97	1/2	1,646.21	1/2	1,978.44	1/2	2,310.67	1/2	2,642.90	1/2	2,975.11
3/4	107.89	3/4	378.45	3/4	672.70	3/4	988.83	3/4	1,320.90	3/4	1,653.13	3/4	1,985.36	3/4	2,317.59	3/4	2,649.82	3/4	2,982.03
5	113.27	5	384.33	5	679.06	5	995.67	5	1,327.82	5	1,660.05	5	1,992.28	5	2,324.51	5	2,656.75	5	2,988.95
1/4	118.69	1/4	390.24	1/4	685.44	1/4	1,002.57	1/4	1,334.74	1/4	1,666.97	1/4	1,999.20	1/4	2,331.43	1/4	2,663.67	1/4	2,995.87
1/2	124.11	1/2	396.16	1/2	691.82	1/2	1,009.47	1/2	1,341.66	1/2	1,673.89	1/2	2,006.12	1/2	2,338.36	1/2	2,670.59	1/2	3,002.79
3/4	129.53	3/4	402.07	3/4	698.20	3/4	1,016.37	3/4	1,348.58	3/4	1,680.81	3/4	2,013.05	3/4	2,345.28	3/4	2,677.51	3/4	3,009.71
6	134.95	6	407.98	6	704.58	6	1,023.27	6	1,355.50	6	1,687.74	6	2,019.97	6	2,352.20	6	2,684.43	6	3,016.63
1/4	140.41	1/4	413.94	1/4	711.00	1/4	1,030.19	1/4	1,362.42	1/4	1,694.66	1/4	2,026.89	1/4	2,359.12	1/4	2,691.35	1/4	3,023.55
1/2	145.88	1/2	419.89	1/2	717.42	1/2	1,037.11	1/2	1,369.35	1/2	1,701.58	1/2	2,033.81	1/2	2,366.04	1/2	2,698.27	1/2	3,030.47
3/4	151.34	3/4	425.85	3/4	723.84	3/4	1,044.04	3/4	1,376.27	3/4	1,708.50	3/4	2,040.73	3/4	2,372.96	3/4	2,705.20	3/4	3,037.39
7	156.80	7	431.81	7	730.25	7	1,050.96	7	1,383.19	7	1,715.42	7	2,047.65	7	2,379.89	7	2,712.12	7	3,044.31
1/4	162.30	1/4	437.80	1/4	736.70	1/4	1,057.88	1/4	1,390.11	1/4	1,722.34	1/4	2,054.57	1/4	2,386.81	1/4	2,719.04	1/4	3,051.23
1/2	167.81	1/2	443.80	1/2	743.15	1/2	1,064.80	1/2	1,397.03	1/2	1,729.26	1/2	2,061.50	1/2	2,393.73	1/2	2,725.96	1/2	3,058.15
3/4	173.31	3/4	449.79	3/4	749.60	3/4	1,071.72	3/4	1,403.95	3/4	1,736.19	3/4	2,068.42	3/4	2,400.65	3/4	2,732.88	3/4	3,065.07
8	178.81	8	455.79	8	756.05	8	1,078.64	8	1,410.88	8	1,743.11	8	2,075.34	8	2,407.57	8	2,739.80	8	3,072.00
1/4	184.36	1/4	461.83	1/4	762.53	1/4	1,085.56	1/4	1,417.80	1/4	1,750.03	1/4	2,082.26	1/4	2,414.49	1/4	2,746.72	1/4	3,078.92
1/2	189.90	1/2	467.87	1/2	769.02	1/2	1,092.49	1/2	1,424.72	1/2	1,756.95	1/2	2,089.18	1/2	2,421.41	1/2	2,753.65	1/2	3,085.84
3/4	195.45	3/4	473.90	3/4	775.51	3/4	1,099.41	3/4	1,431.64	3/4	1,763.87	3/4	2,096.10	3/4	2,428.34	3/4	2,760.57	3/4	3,092.76
9	200.99	9	479.94	9	782.00	9	1,106.33	9	1,438.56	9	1,770.79	9	2,103.03	9	2,435.26	9	2,767.49	9	3,099.68
1/4	206.58	1/4	486.02	1/4	788.53	1/4	1,113.25	1/4	1,445.48	1/4	1,777.71	1/4	2,109.95	1/4	2,442.18	1/4	2,774.41	1/4	3,106.60
1/2	212.16	1/2	492.10	1/2	795.06	1/2	1,120.17	1/2	1,452.40	1/2	1,784.64	1/2	2,116.87	1/2	2,449.10	1/2	2,781.33	1/2	3,113.52
3/4	217.75	3/4	498.18	3/4	801.59	3/4	1,127.09	3/4	1,459.33	3/4	1,791.56	3/4	2,123.79	3/4	2,456.02	3/4	2,788.25	3/4	3,120.44
10	223.33	10	504.26	10	808.12	10	1,134.02	10	1,466.25	10	1,798.48	10	2,130.71	10	2,462.94	10	2,795.18	10	3,127.36
1/4	228.96	1/4	510.38	1/4	814.69	1/4	1,140.94	1/4	1,473.17	1/4	1,805.40	1/4	2,137.63	1/4	2,469.86	1/4	2,802.10	1/4	3,134.28
1/2	234.59	1/2	516.50	1/2	821.25	1/2	1,147.86	1/2	1,480.09	1/2	1,812.32	1/2	2,144.55	1/2	2,476.79	1/2	2,809.02	1/2	3,141.20
3/4	240.21	3/4	522.62	3/4	827.82	3/4	1,154.78	3/4	1,487.01	3/4	1,819.24	3/4	2,151.48	3/4	2,483.71	3/4	2,815.94	3/4	3,148.12
11	245.84	11	528.74	11	834.39	11	1,161.70	11	1,493.93	11	1,826.17	11	2,158.40	11	2,490.63	11	2,822.86	11	3,155.04
1/4	251.51	1/4	534.90	1/4	840.99	1/4	1,168.62	1/4	1,500.85	1/4	1,833.09	1/4	2,165.32	1/4	2,497.55	1/4	2,829.78	1/4	3,161.96
1/2	257.17	1/2	541.06	1/2	847.60	1/2	1,175.54	1/2	1,507.78	1/2	1,840.01	1/2	2,172.24	1/2	2,504.47	1/2	2,836.70	1/2	3,168.88
3/4	262.84	3/4	547.22	3/4	854.21	3/4	1,182.47	3/4	1,514.70	3/4	1,846.93	3/4	2,179.16	3/4	2,511.39	3/4	2,843.62	3/4	3,175.80

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" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "EMS 385"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,182.72	0	3,514.77	0	3,834.77	0	4,134.15	0		0		0		0		0		0	
1/4	3,189.64	1/4	3,521.62	1/4	3,841.21	1/4	4,140.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,196.56	1/2	3,528.48	1/2	3,847.66	1/2	4,146.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,203.48	3/4	3,535.33	3/4	3,854.10	3/4	4,152.12	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,210.41	1	3,542.19	1	3,860.54	1	4,158.11	1		1		1		1		1		1	
1/4	3,217.33	1/4	3,549.01	1/4	3,866.95	1/4	4,164.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,224.25	1/2	3,555.83	1/2	3,873.36	1/2	4,170.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,231.17	3/4	3,562.65	3/4	3,879.77	3/4	4,175.98	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,238.09	2	3,569.48	2	3,886.18	2	4,181.93	2		2		2		2		2		2	
1/4	3,245.01	1/4	3,576.26	1/4	3,892.55	1/4	4,187.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,251.93	1/2	3,583.05	1/2	3,898.92	1/2	4,193.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,258.85	3/4	3,589.84	3/4	3,905.30	3/4	4,199.69	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,265.77	3	3,596.63	3	3,911.67	3	4,205.62	3		3		3		3		3		3	
1/4	3,272.69	1/4	3,603.38	1/4	3,918.01	1/4	4,211.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,279.61	1/2	3,610.13	1/2	3,924.35	1/2	4,217.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,286.53	3/4	3,616.88	3/4	3,930.69	3/4	4,223.28	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,293.45	4	3,623.64	4	3,937.03	4	4,229.16	4		4		4		4		4		4	
1/4	3,300.37	1/4	3,630.35	1/4	3,943.34	1/4	4,235.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,307.29	1/2	3,637.07	1/2	3,949.64	1/2	4,241.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,314.21	3/4	3,643.79	3/4	3,955.95	3/4	4,248.29	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,321.13	5	3,650.51	5	3,962.25	5	4,254.66	5		5		5		5		5		5	
1/4	3,328.05	1/4	3,657.19	1/4	3,968.52	1/4	4,261.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,334.97	1/2	3,663.88	1/2	3,974.80	1/2	4,268.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,341.89	3/4	3,670.56	3/4	3,981.07	3/4	4,275.30	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,348.82	6	3,677.25	6	3,987.34	6	4,282.19	6		6		6		6		6		6	
1/4	3,355.74	1/4	3,683.90	1/4	3,993.57	1/4	4,289.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,362.66	1/2	3,690.54	1/2	3,999.81	1/2	4,295.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,369.58	3/4	3,697.19	3/4	4,006.05	3/4	4,302.83	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,376.50	7	3,703.84	7	4,012.28	7	4,309.71	7		7		7		7		7		7	
1/4	3,383.42	1/4	3,710.46	1/4	4,018.45	1/4	4,316.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,390.34	1/2	3,717.07	1/2	4,024.61	1/2	4,323.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,397.26	3/4	3,723.69	3/4	4,030.77	3/4	4,330.13	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,404.18	8	3,730.30	8	4,036.93	8	4,336.93	8		8		8		8		8		8	
1/4	3,411.10	1/4	3,736.88	1/4	4,043.06	1/4	4,343.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,418.02	1/2	3,743.47	1/2	4,049.19	1/2	4,349.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,424.94	3/4	3,750.05	3/4	4,055.31	3/4	4,355.46	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,431.86	9	3,756.63	9	4,061.44	9	4,361.64	9		9		9		9		9		9	
1/4	3,438.78	1/4	3,763.17	1/4	4,067.54	1/4	4,366.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,445.70	1/2	3,769.72	1/2	4,073.63	1/2	4,371.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,452.62	3/4	3,776.27	3/4	4,079.72	3/4	4,376.40	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,459.54	10	3,782.81	10	4,085.82	10	=====	10		10		10		10		10		10	
1/4	3,466.46	1/4	3,789.32	1/4	4,091.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,473.37	1/2	3,795.84	1/2	4,097.93	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,480.29	3/4	3,802.35	3/4	4,103.99	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,487.20	11	3,808.86	11	4,110.05	11		11		11		11		11		11		11	
1/4	3,494.09	1/4	3,815.34	1/4	4,116.08	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,500.99	1/2	3,821.81	1/2	4,122.10	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,507.88	3/4	3,828.29	3/4	4,128.12	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/11/2013 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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



BARGE "EMS 385"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

Table with 18 columns (IN, 0 FT., 1 FT., 2 FT., 3 FT., 4 FT., 5 FT., 6 FT., 7 FT., 8 FT., 9 FT.) and 34 rows of capacity data.

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" HERMETIC VALVE GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





BARGE "EMS 385"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,183.21	0	3,515.15	0	3,835.07	0	4,134.36	0		0		0		0		0		0	
1/4	3,190.12	1/4	3,522.01	1/4	3,841.51	1/4	4,140.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,197.04	1/2	3,528.86	1/2	3,847.95	1/2	4,146.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,203.96	3/4	3,535.72	3/4	3,854.39	3/4	4,152.32	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,210.88	1	3,542.57	1	3,860.83	1	4,158.31	1		1		1		1		1		1	
1/4	3,217.80	1/4	3,549.39	1/4	3,867.24	1/4	4,164.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,224.72	1/2	3,556.21	1/2	3,873.65	1/2	4,170.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,231.64	3/4	3,563.03	3/4	3,880.05	3/4	4,176.17	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,238.55	2	3,569.85	2	3,886.46	2	4,182.13	2		2		2		2		2		2	
1/4	3,245.47	1/4	3,576.63	1/4	3,892.83	1/4	4,188.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,252.39	1/2	3,583.42	1/2	3,899.21	1/2	4,193.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,259.31	3/4	3,590.20	3/4	3,905.58	3/4	4,199.89	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,266.23	3	3,596.99	3	3,911.95	3	4,205.81	3		3		3		3		3		3	
1/4	3,273.15	1/4	3,603.74	1/4	3,918.29	1/4	4,211.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,280.07	1/2	3,610.49	1/2	3,924.63	1/2	4,217.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,286.99	3/4	3,617.24	3/4	3,930.96	3/4	4,223.46	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,293.90	4	3,623.99	4	3,937.30	4	4,229.35	4		4		4		4		4		4	
1/4	3,300.82	1/4	3,630.71	1/4	3,943.61	1/4	4,235.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,307.74	1/2	3,637.43	1/2	3,949.91	1/2	4,242.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,314.66	3/4	3,644.14	3/4	3,956.21	3/4	4,248.47	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,321.58	5	3,650.86	5	3,962.52	5	4,254.84	5		5		5		5		5		5	
1/4	3,328.50	1/4	3,657.54	1/4	3,968.79	1/4	4,261.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,335.42	1/2	3,664.22	1/2	3,975.05	1/2	4,268.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,342.34	3/4	3,670.91	3/4	3,981.32	3/4	4,275.47	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,349.25	6	3,677.59	6	3,987.59	6	4,282.35	6		6		6		6		6		6	
1/4	3,356.17	1/4	3,684.24	1/4	3,993.83	1/4	4,289.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,363.09	1/2	3,690.88	1/2	4,000.06	1/2	4,296.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,370.01	3/4	3,697.53	3/4	4,006.30	3/4	4,302.99	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,376.93	7	3,704.18	7	4,012.53	7	4,309.87	7		7		7		7		7		7	
1/4	3,383.85	1/4	3,710.79	1/4	4,018.69	1/4	4,316.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,390.77	1/2	3,717.41	1/2	4,024.85	1/2	4,323.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,397.69	3/4	3,724.02	3/4	4,031.01	3/4	4,330.28	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,404.60	8	3,730.63	8	4,037.17	8	4,337.09	8		8		8		8		8		8	
1/4	3,411.52	1/4	3,737.21	1/4	4,043.30	1/4	4,343.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,418.44	1/2	3,743.79	1/2	4,049.42	1/2	4,349.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,425.36	3/4	3,750.37	3/4	4,055.55	3/4	4,355.62	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,432.28	9	3,756.95	9	4,061.68	9	4,361.79	9		9		9		9		9		9	
1/4	3,439.20	1/4	3,763.49	1/4	4,067.77	1/4	4,366.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,446.12	1/2	3,770.04	1/2	4,073.86	1/2	4,371.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,453.03	3/4	3,776.58	3/4	4,079.95	3/4	4,376.55	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,459.95	10	3,783.13	10	4,086.04	10		10		10		10		10		10		10	
1/4	3,466.86	1/4	3,789.64	1/4	4,092.10	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,473.78	1/2	3,796.15	1/2	4,098.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,480.69	3/4	3,802.66	3/4	4,104.21	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,487.60	11	3,809.17	11	4,110.27	11		11		11		11		11		11		11	
1/4	3,494.49	1/4	3,815.64	1/4	4,116.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,501.38	1/2	3,822.12	1/2	4,122.32	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,508.26	3/4	3,828.59	3/4	4,128.34	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
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Pearland, Texas 77588
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BARGE "EMS 385"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.88	0	396.88	0	775.01	0	1,158.47	0	1,546.92	0	1,935.36	0	2,323.81	0	2,712.25	0	3,100.70	0	3,489.13
1/4	24.65	1/4	404.97	1/4	782.78	1/4	1,166.57	1/4	1,555.01	1/4	1,943.46	1/4	2,331.90	1/4	2,720.35	1/4	3,108.79	1/4	3,497.22
1/2	30.43	1/2	413.06	1/2	790.55	1/2	1,174.66	1/2	1,563.10	1/2	1,951.55	1/2	2,339.99	1/2	2,728.44	1/2	3,116.88	1/2	3,505.32
3/4	36.21	3/4	421.15	3/4	798.32	3/4	1,182.75	3/4	1,571.20	3/4	1,959.64	3/4	2,348.09	3/4	2,736.53	3/4	3,124.98	3/4	3,513.41
1	41.99	1	429.25	1	806.09	1	1,190.84	1	1,579.29	1	1,967.73	1	2,356.18	1	2,744.62	1	3,133.07	1	3,521.50
1/4	49.79	1/4	437.34	1/4	813.87	1/4	1,198.94	1/4	1,587.38	1/4	1,975.83	1/4	2,364.27	1/4	2,752.72	1/4	3,141.16	1/4	3,529.59
1/2	57.60	1/2	445.43	1/2	821.66	1/2	1,207.03	1/2	1,595.47	1/2	1,983.92	1/2	2,372.36	1/2	2,760.81	1/2	3,149.25	1/2	3,537.68
3/4	65.40	3/4	453.52	3/4	829.44	3/4	1,215.12	3/4	1,603.57	3/4	1,992.01	3/4	2,380.46	3/4	2,768.90	3/4	3,157.35	3/4	3,545.77
2	73.20	2	461.61	2	837.22	2	1,223.21	2	1,611.66	2	2,000.10	2	2,388.55	2	2,776.99	2	3,165.44	2	3,553.86
1/4	81.29	1/4	469.71	1/4	845.00	1/4	1,231.31	1/4	1,619.75	1/4	2,008.20	1/4	2,396.64	1/4	2,785.09	1/4	3,173.53	1/4	3,561.96
1/2	89.39	1/2	477.80	1/2	852.79	1/2	1,239.40	1/2	1,627.84	1/2	2,016.29	1/2	2,404.73	1/2	2,793.18	1/2	3,181.62	1/2	3,570.05
3/4	97.48	3/4	485.89	3/4	860.58	3/4	1,247.49	3/4	1,635.94	3/4	2,024.38	3/4	2,412.83	3/4	2,801.27	3/4	3,189.72	3/4	3,578.14
3	105.57	3	493.98	3	868.36	3	1,255.58	3	1,644.03	3	2,032.47	3	2,420.92	3	2,809.36	3	3,197.81	3	3,586.23
1/4	113.66	1/4	502.07	1/4	876.15	1/4	1,263.68	1/4	1,652.12	1/4	2,040.57	1/4	2,429.01	1/4	2,817.46	1/4	3,205.90	1/4	3,594.32
1/2	121.75	1/2	510.17	1/2	883.94	1/2	1,271.77	1/2	1,660.21	1/2	2,048.66	1/2	2,437.10	1/2	2,825.55	1/2	3,213.99	1/2	3,602.41
3/4	129.85	3/4	518.26	3/4	891.72	3/4	1,279.86	3/4	1,668.31	3/4	2,056.75	3/4	2,445.20	3/4	2,833.64	3/4	3,222.09	3/4	3,610.50
4	137.94	4	526.35	4	899.51	4	1,287.96	4	1,676.40	4	2,064.84	4	2,453.29	4	2,841.73	4	3,230.18	4	3,618.60
1/4	146.03	1/4	534.13	1/4	907.60	1/4	1,296.05	1/4	1,684.49	1/4	2,072.94	1/4	2,461.38	1/4	2,849.83	1/4	3,238.27	1/4	3,626.69
1/2	154.12	1/2	541.91	1/2	915.70	1/2	1,304.14	1/2	1,692.59	1/2	2,081.03	1/2	2,469.47	1/2	2,857.92	1/2	3,246.36	1/2	3,634.78
3/4	162.21	3/4	549.69	3/4	923.79	3/4	1,312.23	3/4	1,700.68	3/4	2,089.12	3/4	2,477.57	3/4	2,866.01	3/4	3,254.46	3/4	3,642.87
5	170.31	5	557.47	5	931.88	5	1,320.33	5	1,708.77	5	2,097.22	5	2,485.66	5	2,874.10	5	3,262.55	5	3,650.96
1/4	178.40	1/4	565.24	1/4	939.97	1/4	1,328.42	1/4	1,716.86	1/4	2,105.31	1/4	2,493.75	1/4	2,882.20	1/4	3,270.64	1/4	3,659.05
1/2	186.49	1/2	573.01	1/2	948.07	1/2	1,336.51	1/2	1,724.96	1/2	2,113.40	1/2	2,501.85	1/2	2,890.29	1/2	3,278.73	1/2	3,667.14
3/4	194.58	3/4	580.78	3/4	956.16	3/4	1,344.60	3/4	1,733.05	3/4	2,121.49	3/4	2,509.94	3/4	2,898.38	3/4	3,286.83	3/4	3,675.23
6	202.67	6	588.55	6	964.25	6	1,352.70	6	1,741.14	6	2,129.59	6	2,518.03	6	2,906.48	6	3,294.92	6	3,683.33
1/4	210.77	1/4	596.32	1/4	972.34	1/4	1,360.79	1/4	1,749.23	1/4	2,137.68	1/4	2,526.12	1/4	2,914.57	1/4	3,303.01	1/4	3,691.42
1/2	218.86	1/2	604.09	1/2	980.44	1/2	1,368.88	1/2	1,757.33	1/2	2,145.77	1/2	2,534.22	1/2	2,922.66	1/2	3,311.11	1/2	3,699.51
3/4	226.95	3/4	611.87	3/4	988.53	3/4	1,376.97	3/4	1,765.42	3/4	2,153.86	3/4	2,542.31	3/4	2,930.75	3/4	3,319.20	3/4	3,707.60
7	235.04	7	619.64	7	996.62	7	1,385.07	7	1,773.51	7	2,161.96	7	2,550.40	7	2,938.85	7	3,327.29	7	3,715.69
1/4	243.13	1/4	627.41	1/4	1,004.71	1/4	1,393.16	1/4	1,781.60	1/4	2,170.05	1/4	2,558.49	1/4	2,946.94	1/4	3,335.38	1/4	3,723.78
1/2	251.22	1/2	635.18	1/2	1,012.81	1/2	1,401.25	1/2	1,789.70	1/2	2,178.14	1/2	2,566.59	1/2	2,955.03	1/2	3,343.48	1/2	3,731.87
3/4	259.32	3/4	642.95	3/4	1,020.90	3/4	1,409.34	3/4	1,797.79	3/4	2,186.23	3/4	2,574.68	3/4	2,963.12	3/4	3,351.57	3/4	3,739.97
8	267.41	8	650.72	8	1,028.99	8	1,417.44	8	1,805.88	8	2,194.33	8	2,582.77	8	2,971.22	8	3,359.66	8	3,748.06
1/4	275.50	1/4	658.48	1/4	1,037.08	1/4	1,425.53	1/4	1,813.97	1/4	2,202.42	1/4	2,590.86	1/4	2,979.31	1/4	3,367.75	1/4	3,756.15
1/2	283.59	1/2	666.25	1/2	1,045.18	1/2	1,433.62	1/2	1,822.07	1/2	2,210.51	1/2	2,598.96	1/2	2,987.40	1/2	3,375.85	1/2	3,764.24
3/4	291.68	3/4	674.02	3/4	1,053.27	3/4	1,441.71	3/4	1,830.16	3/4	2,218.60	3/4	2,607.05	3/4	2,995.49	3/4	3,383.94	3/4	3,772.33
9	299.78	9	681.78	9	1,061.36	9	1,449.81	9	1,838.25	9	2,226.70	9	2,615.14	9	3,003.59	9	3,392.03	9	3,780.42
1/4	307.87	1/4	689.55	1/4	1,069.45	1/4	1,457.90	1/4	1,846.34	1/4	2,234.79	1/4	2,623.23	1/4	3,011.68	1/4	3,400.12	1/4	3,788.51
1/2	315.96	1/2	697.32	1/2	1,077.55	1/2	1,465.99	1/2	1,854.44	1/2	2,242.88	1/2	2,631.33	1/2	3,019.77	1/2	3,408.22	1/2	3,796.61
3/4	324.05	3/4	705.08	3/4	1,085.64	3/4	1,474.08	3/4	1,862.53	3/4	2,250.97	3/4	2,639.42	3/4	3,027.86	3/4	3,416.31	3/4	3,804.70
10	332.14	10	712.85	10	1,093.73	10	1,482.18	10	1,870.62	10	2,259.07	10	2,647.51	10	3,035.96	10	3,424.40	10	3,812.79
1/4	340.24	1/4	720.62	1/4	1,101.83	1/4	1,490.27	1/4	1,878.71	1/4	2,267.16	1/4	2,655.60	1/4	3,044.05	1/4	3,432.49	1/4	3,820.88
1/2	348.33	1/2	728.39	1/2	1,109.92	1/2	1,498.36	1/2	1,886.81	1/2	2,275.25	1/2	2,663.70	1/2	3,052.14	1/2	3,440.58	1/2	3,828.97
3/4	356.42	3/4	736.16	3/4	1,118.01	3/4	1,506.46	3/4	1,894.90	3/4	2,283.34	3/4	2,671.79	3/4	3,060.23	3/4	3,448.68	3/4	3,837.06
11	364.51	11	743.93	11	1,126.10	11	1,514.55	11	1,902.99	11	2,291.44	11	2,679.88	11	3,068.33	11	3,456.77	11	3,845.15
1/4	372.60	1/4	751.70	1/4	1,134.20	1/4	1,522.64	1/4	1,911.09	1/4	2,299.53	1/4	2,687.97	1/4	3,076.42	1/4	3,464.86	1/4	3,853.25
1/2	380.69	1/2	759.47	1/2	1,142.29	1/2	1,530.73	1/2	1,919.18	1/2	2,307.62	1/2	2,696.07	1/2	3,084.51	1/2	3,472.95	1/2	3,861.34
3/4	388.79	3/4	767.24	3/4	1,150.38	3/4	1,538.83	3/4	1,927.27	3/4	2,315.72	3/4	2,704.16	3/4	3,092.60	3/4	3,481.04	3/4	3,869.43

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" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 385"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,877.52	0	4,265.73	0	4,639.87	0	4,989.87	0		0		0		0		0		0	
1/4	3,885.61	1/4	4,273.75	1/4	4,647.40	1/4	4,996.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,893.70	1/2	4,281.77	1/2	4,654.94	1/2	5,003.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,901.79	3/4	4,289.78	3/4	4,662.47	3/4	5,010.88	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,909.89	1	4,297.80	1	4,670.00	1	5,017.88	1		1		1		1		1		1	
1/4	3,917.98	1/4	4,305.77	1/4	4,677.50	1/4	5,024.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,926.07	1/2	4,313.75	1/2	4,684.99	1/2	5,031.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,934.16	3/4	4,321.72	3/4	4,692.48	3/4	5,038.77	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,942.25	2	4,329.70	2	4,699.97	2	5,045.73	2		2		2		2		2		2	
1/4	3,950.34	1/4	4,337.64	1/4	4,707.43	1/4	5,052.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,958.43	1/2	4,345.57	1/2	4,714.88	1/2	5,059.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,966.53	3/4	4,353.51	3/4	4,722.33	3/4	5,066.50	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,974.62	3	4,361.44	3	4,729.78	3	5,073.42	3		3		3		3		3		3	
1/4	3,982.71	1/4	4,369.34	1/4	4,737.19	1/4	5,080.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,990.80	1/2	4,377.23	1/2	4,744.61	1/2	5,087.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,998.89	3/4	4,385.13	3/4	4,752.02	3/4	5,094.06	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,006.98	4	4,393.02	4	4,759.43	4	5,100.95	4		4		4		4		4		4	
1/4	4,015.07	1/4	4,400.88	1/4	4,766.80	1/4	5,108.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,023.17	1/2	4,408.73	1/2	4,774.17	1/2	5,115.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,031.26	3/4	4,416.59	3/4	4,781.55	3/4	5,123.30	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,039.35	5	4,424.44	5	4,788.92	5	5,130.76	5		5		5		5		5		5	
1/4	4,047.44	1/4	4,432.26	1/4	4,796.25	1/4	5,138.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,055.53	1/2	4,440.07	1/2	4,803.58	1/2	5,146.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,063.62	3/4	4,447.89	3/4	4,810.91	3/4	5,154.89	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,071.71	6	4,455.70	6	4,818.24	6	5,162.93	6		6		6		6		6		6	
1/4	4,079.80	1/4	4,463.48	1/4	4,825.54	1/4	5,170.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,087.90	1/2	4,471.25	1/2	4,832.83	1/2	5,179.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,095.99	3/4	4,479.02	3/4	4,840.12	3/4	5,187.07	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,104.08	7	4,486.80	7	4,847.41	7	5,195.11	7		7		7		7		7		7	
1/4	4,112.17	1/4	4,494.53	1/4	4,854.61	1/4	5,203.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,120.26	1/2	4,502.27	1/2	4,861.82	1/2	5,211.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,128.35	3/4	4,510.00	3/4	4,869.02	3/4	5,218.99	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,136.44	8	4,517.74	8	4,876.22	8	5,226.95	8		8		8		8		8		8	
1/4	4,144.54	1/4	4,525.43	1/4	4,883.39	1/4	5,234.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,152.63	1/2	4,533.12	1/2	4,890.55	1/2	5,241.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,160.72	3/4	4,540.82	3/4	4,897.71	3/4	5,248.62	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,168.81	9	4,548.51	9	4,904.88	9	5,255.84	9		9		9		9		9		9	
1/4	4,176.90	1/4	4,556.16	1/4	4,912.00	1/4	5,261.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,184.99	1/2	4,563.82	1/2	4,919.12	1/2	5,267.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,193.08	3/4	4,571.47	3/4	4,926.25	3/4	5,273.09	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,201.18	10	4,579.13	10	4,933.37	10		10		10		10		10		10		10	
1/4	4,209.26	1/4	4,586.74	1/4	4,940.45	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,217.34	1/2	4,594.35	1/2	4,947.54	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,225.43	3/4	4,601.97	3/4	4,954.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,233.51	11	4,609.58	11	4,961.70	11		11		11		11		11		11		11	
1/4	4,241.56	1/4	4,617.15	1/4	4,968.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,249.62	1/2	4,624.72	1/2	4,975.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,257.68	3/4	4,632.30	3/4	4,982.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/11/2013 CL
CALCULATED: 09/11/2013 CL
PRINTED: 09/11/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 385"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	18.88	0	396.88	0	784.98	0	1,173.39	0	1,561.83	0	1,950.28	0	2,338.72	0	2,727.16	0	3,115.61	0	3,504.04
1/4	24.65	1/4	404.97	1/4	793.06	1/4	1,181.48	1/4	1,569.92	1/4	1,958.37	1/4	2,346.81	1/4	2,735.26	1/4	3,123.70	1/4	3,512.14
1/2	30.43	1/2	413.06	1/2	801.15	1/2	1,189.57	1/2	1,578.02	1/2	1,966.46	1/2	2,354.91	1/2	2,743.35	1/2	3,131.79	1/2	3,520.23
3/4	36.21	3/4	421.15	3/4	809.23	3/4	1,197.66	3/4	1,586.11	3/4	1,974.55	3/4	2,363.00	3/4	2,751.44	3/4	3,139.89	3/4	3,528.32
1	41.99	1	429.25	1	817.31	1	1,197.66	1	1,594.20	1	1,982.65	1	2,371.09	1	2,759.54	1	3,147.98	1	3,536.41
1/4	49.79	1/4	437.34	1/4	825.40	1/4	1,213.85	1/4	1,602.29	1/4	1,990.74	1/4	2,379.18	1/4	2,767.63	1/4	3,156.07	1/4	3,544.50
1/2	57.60	1/2	445.43	1/2	833.50	1/2	1,221.94	1/2	1,610.39	1/2	1,998.83	1/2	2,387.28	1/2	2,775.72	1/2	3,164.17	1/2	3,552.59
3/4	65.40	3/4	453.52	3/4	841.59	3/4	1,230.03	3/4	1,618.48	3/4	2,006.92	3/4	2,395.37	3/4	2,783.81	3/4	3,172.26	3/4	3,560.68
2	73.20	2	461.61	2	849.68	2	1,238.13	2	1,626.57	2	2,015.02	2	2,403.46	2	2,791.91	2	3,180.35	2	3,568.78
1/4	81.29	1/4	469.71	1/4	857.77	1/4	1,246.22	1/4	1,634.66	1/4	2,023.11	1/4	2,411.55	1/4	2,800.00	1/4	3,188.44	1/4	3,576.87
1/2	89.39	1/2	477.80	1/2	865.87	1/2	1,254.31	1/2	1,642.76	1/2	2,031.20	1/2	2,419.65	1/2	2,808.09	1/2	3,196.54	1/2	3,584.96
3/4	97.48	3/4	485.89	3/4	873.96	3/4	1,262.40	3/4	1,650.85	3/4	2,039.29	3/4	2,427.74	3/4	2,816.18	3/4	3,204.63	3/4	3,593.05
3	105.57	3	493.98	3	882.05	3	1,270.50	3	1,658.94	3	2,047.39	3	2,435.83	3	2,824.28	3	3,212.72	3	3,601.14
1/4	113.66	1/4	502.07	1/4	890.14	1/4	1,278.59	1/4	1,667.03	1/4	2,055.48	1/4	2,443.92	1/4	2,832.37	1/4	3,220.81	1/4	3,609.23
1/2	121.75	1/2	510.17	1/2	898.24	1/2	1,286.68	1/2	1,675.13	1/2	2,063.57	1/2	2,452.02	1/2	2,840.46	1/2	3,228.91	1/2	3,617.32
3/4	129.85	3/4	518.26	3/4	906.33	3/4	1,294.77	3/4	1,683.22	3/4	2,071.66	3/4	2,460.11	3/4	2,848.55	3/4	3,237.00	3/4	3,625.42
4	137.94	4	526.35	4	914.42	4	1,302.87	4	1,691.31	4	2,079.76	4	2,468.20	4	2,856.65	4	3,245.09	4	3,633.51
1/4	146.03	1/4	534.44	1/4	922.51	1/4	1,310.96	1/4	1,699.40	1/4	2,087.85	1/4	2,476.29	1/4	2,864.74	1/4	3,253.18	1/4	3,641.60
1/2	154.12	1/2	542.53	1/2	930.61	1/2	1,319.05	1/2	1,707.50	1/2	2,095.94	1/2	2,484.39	1/2	2,872.83	1/2	3,261.28	1/2	3,649.69
3/4	162.21	3/4	550.62	3/4	938.70	3/4	1,327.14	3/4	1,715.59	3/4	2,104.03	3/4	2,492.48	3/4	2,880.92	3/4	3,269.37	3/4	3,657.78
5	170.31	5	558.72	5	946.79	5	1,335.24	5	1,723.68	5	2,112.13	5	2,500.57	5	2,889.02	5	3,277.46	5	3,665.87
1/4	178.40	1/4	566.80	1/4	954.89	1/4	1,343.33	1/4	1,731.77	1/4	2,120.22	1/4	2,508.66	1/4	2,897.11	1/4	3,285.55	1/4	3,673.96
1/2	186.49	1/2	574.88	1/2	962.98	1/2	1,351.42	1/2	1,739.87	1/2	2,128.31	1/2	2,516.76	1/2	2,905.20	1/2	3,293.65	1/2	3,682.06
3/4	194.58	3/4	582.96	3/4	971.07	3/4	1,359.52	3/4	1,747.96	3/4	2,136.40	3/4	2,524.85	3/4	2,913.29	3/4	3,301.74	3/4	3,690.15
6	202.67	6	591.05	6	979.16	6	1,367.61	6	1,756.05	6	2,144.50	6	2,532.94	6	2,921.39	6	3,309.83	6	3,698.24
1/4	210.77	1/4	599.13	1/4	987.26	1/4	1,375.70	1/4	1,764.15	1/4	2,152.59	1/4	2,541.03	1/4	2,929.48	1/4	3,317.92	1/4	3,706.33
1/2	218.86	1/2	607.21	1/2	995.35	1/2	1,383.79	1/2	1,772.24	1/2	2,160.68	1/2	2,549.13	1/2	2,937.57	1/2	3,326.02	1/2	3,714.42
3/4	226.95	3/4	615.29	3/4	1,003.44	3/4	1,391.89	3/4	1,780.33	3/4	2,168.78	3/4	2,557.22	3/4	2,945.66	3/4	3,334.11	3/4	3,722.51
7	235.04	7	623.38	7	1,011.53	7	1,399.98	7	1,788.42	7	2,176.87	7	2,565.31	7	2,953.76	7	3,342.20	7	3,730.60
1/4	243.13	1/4	631.46	1/4	1,019.63	1/4	1,408.07	1/4	1,796.52	1/4	2,184.96	1/4	2,573.41	1/4	2,961.85	1/4	3,350.29	1/4	3,738.70
1/2	251.22	1/2	639.54	1/2	1,027.72	1/2	1,416.16	1/2	1,804.61	1/2	2,193.05	1/2	2,581.50	1/2	2,969.94	1/2	3,358.39	1/2	3,746.79
3/4	259.32	3/4	647.62	3/4	1,035.81	3/4	1,424.26	3/4	1,812.70	3/4	2,201.15	3/4	2,589.59	3/4	2,978.04	3/4	3,366.48	3/4	3,754.88
8	267.41	8	655.70	8	1,043.90	8	1,432.35	8	1,820.79	8	2,209.24	8	2,597.68	8	2,986.13	8	3,374.57	8	3,762.97
1/4	275.50	1/4	663.78	1/4	1,052.00	1/4	1,440.44	1/4	1,828.89	1/4	2,217.33	1/4	2,605.78	1/4	2,994.22	1/4	3,382.67	1/4	3,771.06
1/2	283.59	1/2	671.86	1/2	1,060.09	1/2	1,448.53	1/2	1,836.98	1/2	2,225.42	1/2	2,613.87	1/2	3,002.31	1/2	3,390.76	1/2	3,779.15
3/4	291.68	3/4	679.94	3/4	1,068.18	3/4	1,456.63	3/4	1,845.07	3/4	2,233.52	3/4	2,621.96	3/4	3,010.41	3/4	3,398.85	3/4	3,787.24
9	299.78	9	688.02	9	1,076.27	9	1,464.72	9	1,853.16	9	2,241.61	9	2,630.05	9	3,018.50	9	3,406.94	9	3,795.34
1/4	307.87	1/4	696.09	1/4	1,084.37	1/4	1,472.81	1/4	1,861.26	1/4	2,249.70	1/4	2,638.15	1/4	3,026.59	1/4	3,415.04	1/4	3,803.43
1/2	315.96	1/2	704.17	1/2	1,092.46	1/2	1,480.90	1/2	1,869.35	1/2	2,257.79	1/2	2,646.24	1/2	3,034.68	1/2	3,423.13	1/2	3,811.52
3/4	324.05	3/4	712.25	3/4	1,100.55	3/4	1,489.00	3/4	1,877.44	3/4	2,265.89	3/4	2,654.33	3/4	3,042.78	3/4	3,431.22	3/4	3,819.61
10	332.14	10	720.33	10	1,108.64	10	1,497.09	10	1,885.53	10	2,273.98	10	2,662.42	10	3,050.87	10	3,439.31	10	3,827.70
1/4	340.24	1/4	728.41	1/4	1,116.74	1/4	1,505.18	1/4	1,893.63	1/4	2,282.07	1/4	2,670.52	1/4	3,058.96	1/4	3,447.40	1/4	3,835.79
1/2	348.33	1/2	736.49	1/2	1,124.83	1/2	1,513.27	1/2	1,901.72	1/2	2,290.16	1/2	2,678.61	1/2	3,067.05	1/2	3,455.50	1/2	3,843.88
3/4	356.42	3/4	744.57	3/4	1,132.92	3/4	1,521.37	3/4	1,909.81	3/4	2,298.26	3/4	2,686.70	3/4	3,075.15	3/4	3,463.59	3/4	3,851.97
11	364.51	11	752.65	11	1,141.02	11	1,529.46	11	1,917.90	11	2,306.35	11	2,694.79	11	3,083.24	11	3,471.68	11	3,860.07
1/4	372.60	1/4	760.74	1/4	1,149.11	1/4	1,537.55	1/4	1,926.00	1/4	2,314.44	1/4	2,702.89	1/4	3,091.33	1/4	3,479.77	1/4	3,868.16
1/2	380.69	1/2	768.82	1/2	1,157.20	1/2	1,545.65	1/2	1,934.09	1/2	2,322.53	1/2	2,710.98	1/2	3,099.42	1/2	3,487.86	1/2	3,876.25
3/4	388.79	3/4	776.90	3/4	1,165.29	3/4	1,553.74	3/4	1,942.18	3/4	2,330.63	3/4	2,719.07	3/4	3,107.52	3/4	3,495.95	3/4	3,884.34

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" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 385"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,892.43	0	4,280.65	0	4,654.78	0	5,004.79	0		0		0		0		0		0	
1/4	3,900.52	1/4	4,288.66	1/4	4,662.32	1/4	5,011.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,908.61	1/2	4,296.68	1/2	4,669.85	1/2	5,018.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,916.71	3/4	4,304.69	3/4	4,677.38	3/4	5,025.79	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,924.80	1	4,312.71	1	4,684.91	1	5,032.79	1		1		1		1		1		1	
1/4	3,932.89	1/4	4,320.68	1/4	4,692.41	1/4	5,039.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,940.98	1/2	4,328.66	1/2	4,699.90	1/2	5,046.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.07	3/4	4,336.64	3/4	4,707.39	3/4	5,053.68	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,957.16	2	4,344.61	2	4,714.88	2	5,060.64	2		2		2		2		2		2	
1/4	3,965.25	1/4	4,352.55	1/4	4,722.34	1/4	5,067.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,973.35	1/2	4,360.48	1/2	4,729.79	1/2	5,074.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,981.44	3/4	4,368.42	3/4	4,737.24	3/4	5,081.41	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,989.53	3	4,376.35	3	4,744.69	3	5,088.33	3		3		3		3		3		3	
1/4	3,997.62	1/4	4,384.25	1/4	4,752.11	1/4	5,095.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,005.71	1/2	4,392.14	1/2	4,759.52	1/2	5,102.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,013.80	3/4	4,400.04	3/4	4,766.93	3/4	5,108.98	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,021.89	4	4,407.93	4	4,774.34	4	5,115.86	4		4		4		4		4		4	
1/4	4,029.99	1/4	4,415.79	1/4	4,781.71	1/4	5,123.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,038.08	1/2	4,423.64	1/2	4,789.09	1/2	5,130.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,046.17	3/4	4,431.50	3/4	4,796.46	3/4	5,138.22	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,054.26	5	4,439.35	5	4,803.83	5	5,145.67	5		5		5		5		5		5	
1/4	4,062.35	1/4	4,447.17	1/4	4,811.16	1/4	5,153.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,070.44	1/2	4,454.98	1/2	4,818.49	1/2	5,161.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,078.53	3/4	4,462.80	3/4	4,825.82	3/4	5,169.80	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,086.63	6	4,470.61	6	4,833.16	6	5,177.85	6		6		6		6		6		6	
1/4	4,094.72	1/4	4,478.39	1/4	4,840.45	1/4	5,185.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,102.81	1/2	4,486.16	1/2	4,847.74	1/2	5,193.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,110.90	3/4	4,493.94	3/4	4,855.03	3/4	5,201.98	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,118.99	7	4,501.71	7	4,862.32	7	5,210.02	7		7		7		7		7		7	
1/4	4,127.08	1/4	4,509.44	1/4	4,869.52	1/4	5,217.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,135.17	1/2	4,517.18	1/2	4,876.73	1/2	5,225.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,143.27	3/4	4,524.91	3/4	4,883.93	3/4	5,233.90	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,151.36	8	4,532.65	8	4,891.14	8	5,241.86	8		8		8		8		8		8	
1/4	4,159.45	1/4	4,540.34	1/4	4,898.30	1/4	5,249.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,167.54	1/2	4,548.03	1/2	4,905.46	1/2	5,256.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,175.63	3/4	4,555.73	3/4	4,912.63	3/4	5,263.53	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,183.72	9	4,563.42	9	4,919.79	9	5,270.75	9		9		9		9		9		9	
1/4	4,191.81	1/4	4,571.08	1/4	4,926.91	1/4	5,276.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,199.91	1/2	4,578.73	1/2	4,934.04	1/2	5,282.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,208.00	3/4	4,586.38	3/4	4,941.16	3/4	5,288.01	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,216.09	10	4,594.04	10	4,948.28	10		10		10		10		10		10		10	
1/4	4,224.17	1/4	4,601.65	1/4	4,955.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,232.25	1/2	4,609.26	1/2	4,962.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,240.34	3/4	4,616.88	3/4	4,969.53	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,248.42	11	4,624.49	11	4,976.61	11		11		11		11		11		11		11	
1/4	4,256.48	1/4	4,632.06	1/4	4,983.66	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,264.53	1/2	4,639.64	1/2	4,990.70	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,272.59	3/4	4,647.21	3/4	4,997.74	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/11/2013 CL
CALCULATED: 09/11/2013 CL
PRINTED: 09/13/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 385"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.59	0	369.35	0	721.47	0	1,077.95	0	1,439.18	0	1,800.23	0	2,160.75	0	2,522.15	0	2,883.54	0	3,244.59
1/4	22.97	1/4	376.88	1/4	728.71	1/4	1,085.47	1/4	1,446.71	1/4	1,807.73	1/4	2,168.28	1/4	2,529.68	1/4	2,891.07	1/4	3,252.12
1/2	28.35	1/2	384.41	1/2	735.95	1/2	1,093.00	1/2	1,454.24	1/2	1,815.24	1/2	2,175.81	1/2	2,537.21	1/2	2,898.59	1/2	3,259.65
3/4	33.72	3/4	391.94	3/4	743.19	3/4	1,100.52	3/4	1,461.76	3/4	1,822.75	3/4	2,183.34	3/4	2,544.74	3/4	2,906.11	3/4	3,267.17
1	39.10	1	399.47	1	750.43	1	1,108.05	1	1,469.29	1	1,830.25	1	2,190.87	1	2,552.26	1	2,913.63	1	3,274.70
1/4	46.36	1/4	407.00	1/4	757.68	1/4	1,115.58	1/4	1,476.81	1/4	1,837.76	1/4	2,198.40	1/4	2,559.79	1/4	2,921.15	1/4	3,282.23
1/2	53.62	1/2	414.53	1/2	764.93	1/2	1,123.10	1/2	1,484.34	1/2	1,845.26	1/2	2,205.93	1/2	2,567.32	1/2	2,928.68	1/2	3,289.76
3/4	60.89	3/4	422.06	3/4	772.18	3/4	1,130.63	3/4	1,491.87	3/4	1,852.77	3/4	2,213.45	3/4	2,574.85	3/4	2,936.20	3/4	3,297.29
2	68.15	2	429.59	2	779.43	2	1,138.15	2	1,499.39	2	1,860.28	2	2,220.98	2	2,582.38	2	2,943.72	2	3,304.82
1/4	75.68	1/4	437.12	1/4	786.66	1/4	1,145.68	1/4	1,506.92	1/4	1,867.78	1/4	2,228.51	1/4	2,589.91	1/4	2,951.24	1/4	3,312.34
1/2	83.21	1/2	444.65	1/2	793.90	1/2	1,153.20	1/2	1,514.44	1/2	1,875.29	1/2	2,236.04	1/2	2,597.44	1/2	2,958.76	1/2	3,319.87
3/4	90.74	3/4	452.18	3/4	801.14	3/4	1,160.73	3/4	1,521.97	3/4	1,882.80	3/4	2,243.57	3/4	2,604.97	3/4	2,966.29	3/4	3,327.40
3	98.27	3	459.71	3	808.38	3	1,168.26	3	1,529.49	3	1,890.30	3	2,251.10	3	2,612.50	3	2,973.81	3	3,334.93
1/4	105.80	1/4	467.24	1/4	815.62	1/4	1,175.78	1/4	1,537.02	1/4	1,897.81	1/4	2,258.63	1/4	2,620.03	1/4	2,981.33	1/4	3,342.46
1/2	113.33	1/2	474.77	1/2	822.86	1/2	1,183.31	1/2	1,544.55	1/2	1,905.31	1/2	2,266.16	1/2	2,627.56	1/2	2,988.85	1/2	3,349.99
3/4	120.86	3/4	482.30	3/4	830.10	3/4	1,190.83	3/4	1,552.07	3/4	1,912.82	3/4	2,273.69	3/4	2,635.08	3/4	2,996.37	3/4	3,357.51
4	128.39	4	489.83	4	837.34	4	1,198.36	4	1,559.60	4	1,920.33	4	2,281.22	4	2,642.61	4	3,003.90	4	3,365.04
1/4	135.92	1/4	497.07	1/4	844.85	1/4	1,205.88	1/4	1,567.12	1/4	1,927.83	1/4	2,288.75	1/4	2,650.14	1/4	3,011.42	1/4	3,372.57
1/2	143.45	1/2	504.32	1/2	852.37	1/2	1,213.41	1/2	1,574.65	1/2	1,935.34	1/2	2,296.27	1/2	2,657.67	1/2	3,018.94	1/2	3,380.10
3/4	150.98	3/4	511.57	3/4	859.89	3/4	1,220.94	3/4	1,582.17	3/4	1,942.84	3/4	2,303.80	3/4	2,665.20	3/4	3,026.46	3/4	3,387.63
5	158.51	5	518.82	5	867.40	5	1,228.46	5	1,589.70	5	1,950.35	5	2,311.33	5	2,672.73	5	3,033.98	5	3,395.16
1/4	166.04	1/4	526.06	1/4	874.92	1/4	1,235.99	1/4	1,597.23	1/4	1,957.86	1/4	2,318.86	1/4	2,680.26	1/4	3,041.50	1/4	3,401.29
1/2	173.57	1/2	533.30	1/2	882.44	1/2	1,243.51	1/2	1,604.75	1/2	1,965.36	1/2	2,326.39	1/2	2,687.79	1/2	3,049.03	1/2	3,407.43
3/4	181.10	3/4	540.54	3/4	889.95	3/4	1,251.04	3/4	1,612.28	3/4	1,972.87	3/4	2,333.92	3/4	2,695.32	3/4	3,056.55	3/4	3,413.57
6	188.63	6	547.78	6	897.47	6	1,258.57	6	1,619.80	6	1,980.37	6	2,341.45	6	2,702.85	6	3,064.07	6	3,419.71
1/4	196.16	1/4	555.01	1/4	904.99	1/4	1,266.09	1/4	1,627.33	1/4	1,987.88	1/4	2,348.98	1/4	2,710.38	1/4	3,071.59	1/4	3,425.84
1/2	203.69	1/2	562.25	1/2	912.50	1/2	1,273.62	1/2	1,634.86	1/2	1,995.39	1/2	2,356.51	1/2	2,717.90	1/2	3,079.11	1/2	3,431.98
3/4	211.22	3/4	569.49	3/4	920.02	3/4	1,281.14	3/4	1,642.38	3/4	2,002.89	3/4	2,364.04	3/4	2,725.43	3/4	3,086.64	3/4	3,438.12
7	218.75	7	576.73	7	927.54	7	1,288.67	7	1,649.91	7	2,010.40	7	2,371.57	7	2,732.96	7	3,094.16	7	3,444.25
1/4	226.28	1/4	583.97	1/4	935.05	1/4	1,296.19	1/4	1,657.43	1/4	2,017.91	1/4	2,379.09	1/4	2,740.49	1/4	3,101.68	1/4	3,450.39
1/2	233.81	1/2	591.21	1/2	942.57	1/2	1,303.72	1/2	1,664.96	1/2	2,025.41	1/2	2,386.62	1/2	2,748.02	1/2	3,109.20	1/2	3,456.53
3/4	241.34	3/4	598.45	3/4	950.09	3/4	1,311.25	3/4	1,672.48	3/4	2,032.92	3/4	2,394.15	3/4	2,755.55	3/4	3,116.72	3/4	3,462.67
8	248.87	8	605.69	8	957.61	8	1,318.77	8	1,680.01	8	2,040.42	8	2,401.68	8	2,763.08	8	3,124.25	8	3,468.80
1/4	256.40	1/4	612.92	1/4	965.12	1/4	1,326.30	1/4	1,687.54	1/4	2,047.93	1/4	2,409.21	1/4	2,770.61	1/4	3,131.77	1/4	3,474.94
1/2	263.93	1/2	620.16	1/2	972.64	1/2	1,333.82	1/2	1,695.06	1/2	2,055.44	1/2	2,416.74	1/2	2,778.14	1/2	3,139.29	1/2	3,481.08
3/4	271.46	3/4	627.39	3/4	980.16	3/4	1,341.35	3/4	1,702.59	3/4	2,062.94	3/4	2,424.27	3/4	2,785.67	3/4	3,146.81	3/4	3,487.22
9	278.99	9	634.62	9	987.67	9	1,348.87	9	1,710.11	9	2,070.45	9	2,431.80	9	2,793.20	9	3,154.33	9	3,493.35
1/4	286.52	1/4	641.86	1/4	995.19	1/4	1,356.40	1/4	1,717.63	1/4	2,077.97	1/4	2,439.33	1/4	2,800.72	1/4	3,161.85	1/4	3,499.49
1/2	294.05	1/2	649.09	1/2	1,002.71	1/2	1,363.93	1/2	1,725.15	1/2	2,085.48	1/2	2,446.86	1/2	2,808.25	1/2	3,169.38	1/2	3,505.63
3/4	301.58	3/4	656.33	3/4	1,010.22	3/4	1,371.45	3/4	1,732.66	3/4	2,093.00	3/4	2,454.39	3/4	2,815.78	3/4	3,176.90	3/4	3,511.77
10	309.11	10	663.56	10	1,017.74	10	1,378.98	10	1,740.18	10	2,100.52	10	2,461.92	10	2,823.31	10	3,184.42	10	3,517.90
1/4	316.64	1/4	670.80	1/4	1,025.27	1/4	1,386.50	1/4	1,747.69	1/4	2,108.05	1/4	2,469.44	1/4	2,830.84	1/4	3,191.94	1/4	3,524.04
1/2	324.17	1/2	678.04	1/2	1,032.79	1/2	1,394.03	1/2	1,755.19	1/2	2,115.58	1/2	2,476.97	1/2	2,838.37	1/2	3,199.46	1/2	3,530.18
3/4	331.70	3/4	685.28	3/4	1,040.32	3/4	1,401.56	3/4	1,762.70	3/4	2,123.11	3/4	2,484.50	3/4	2,845.90	3/4	3,206.98	3/4	3,536.32
11	339.23	11	692.52	11	1,047.84	11	1,409.08	11	1,770.20	11	2,130.63	11	2,492.03	11	2,853.43	11	3,214.51	11	3,542.45
1/4	346.76	1/4	699.76	1/4	1,055.37	1/4	1,416.61	1/4	1,777.71	1/4	2,138.16	1/4	2,499.56	1/4	2,860.96	1/4	3,222.03	1/4	3,548.59
1/2	354.29	1/2	707.00	1/2	1,062.89	1/2	1,424.13	1/2	1,785.22	1/2	2,145.69	1/2	2,507.09	1/2	2,868.49	1/2	3,229.55	1/2	3,554.73
3/4	361.82	3/4	714.23	3/4	1,070.42	3/4	1,431.66	3/4	1,792.72	3/4	2,153.22	3/4	2,514.62	3/4	2,876.02	3/4	3,237.07	3/4	3,560.87

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 385"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,567.00	0	3,861.44	0	4,142.78	0	4,401.83	0		0		0		0		0		0	
1/4	3,573.14	1/4	3,867.51	1/4	4,148.40	1/4	4,406.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,579.28	1/2	3,873.58	1/2	4,154.02	1/2	4,412.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,585.41	3/4	3,879.64	3/4	4,159.64	3/4	4,417.23	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,591.55	1	3,885.71	1	4,165.26	1	4,422.36	1		1		1		1		1		1	
1/4	3,597.69	1/4	3,891.74	1/4	4,170.84	1/4	4,427.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,603.83	1/2	3,897.77	1/2	4,176.42	1/2	4,432.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,609.96	3/4	3,903.80	3/4	4,182.00	3/4	4,437.64	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,616.10	2	3,909.83	2	4,187.58	2	4,442.74	2		2		2		2		2		2	
1/4	3,622.24	1/4	3,915.82	1/4	4,193.12	1/4	4,447.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,628.38	1/2	3,921.81	1/2	4,198.66	1/2	4,452.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,634.51	3/4	3,927.81	3/4	4,204.21	3/4	4,457.91	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,640.65	3	3,933.80	3	4,209.75	3	4,462.97	3		3		3		3		3		3	
1/4	3,646.79	1/4	3,939.75	1/4	4,215.25	1/4	4,467.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,652.93	1/2	3,945.71	1/2	4,220.76	1/2	4,473.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,659.06	3/4	3,951.66	3/4	4,226.27	3/4	4,478.03	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,665.20	4	3,957.62	4	4,231.77	4	4,483.05	4		4		4		4		4		4	
1/4	3,671.34	1/4	3,963.54	1/4	4,237.24	1/4	4,488.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,677.48	1/2	3,969.45	1/2	4,242.71	1/2	4,494.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.61	3/4	3,975.37	3/4	4,248.18	3/4	4,499.70	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,689.75	5	3,981.29	5	4,253.64	5	4,505.25	5		5		5		5		5		5	
1/4	3,695.89	1/4	3,987.17	1/4	4,259.07	1/4	4,511.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,702.03	1/2	3,993.05	1/2	4,264.51	1/2	4,517.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,708.16	3/4	3,998.93	3/4	4,269.94	3/4	4,523.55	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,714.30	6	4,004.81	6	4,275.37	6	4,529.65	6		6		6		6		6		6	
1/4	3,720.44	1/4	4,010.65	1/4	4,280.76	1/4	4,535.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,726.58	1/2	4,016.49	1/2	4,286.15	1/2	4,541.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,732.71	3/4	4,022.34	3/4	4,291.55	3/4	4,547.96	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,738.85	7	4,028.18	7	4,296.94	7	4,554.06	7		7		7		7		7		7	
1/4	3,744.99	1/4	4,033.98	1/4	4,302.26	1/4	4,561.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,751.12	1/2	4,039.79	1/2	4,307.58	1/2	4,568.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,757.26	3/4	4,045.59	3/4	4,312.90	3/4	4,576.28	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,763.40	8	4,051.40	8	4,318.22	8	4,583.68	8		8		8		8		8		8	
1/4	3,769.54	1/4	4,057.17	1/4	4,323.50	1/4	4,590.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,775.67	1/2	4,062.94	1/2	4,328.78	1/2	4,597.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,781.81	3/4	4,068.70	3/4	4,334.06	3/4	4,603.84	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,787.95	9	4,074.47	9	4,339.34	9	4,610.56	9		9		9		9		9		9	
1/4	3,794.09	1/4	4,080.20	1/4	4,344.59	1/4	4,615.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,800.22	1/2	4,085.93	1/2	4,349.83	1/2	4,621.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,806.36	3/4	4,091.66	3/4	4,355.08	3/4	4,626.62	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,812.50	10	4,097.39	10	4,360.32	10	=====	10		10		10		10		10		10	
1/4	3,818.63	1/4	4,103.08	1/4	4,365.53	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,824.76	1/2	4,108.78	1/2	4,370.74	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,830.89	3/4	4,114.47	3/4	4,375.94	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,837.02	11	4,120.16	11	4,381.15	11		11		11		11		11		11		11	
1/4	3,843.13	1/4	4,125.82	1/4	4,386.32	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,849.23	1/2	4,131.47	1/2	4,391.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,855.34	3/4	4,137.13	3/4	4,396.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/11/2013 CL
CALCULATED: 09/11/2013 CL
PRINTED: 09/13/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 385"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-08 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	17.60	0	368.92	0	722.37	0	1,079.61	0	1,440.45	0	1,800.56	0	2,158.63	0	2,519.33	0	2,880.22	0	3,240.79
1/4	22.98	1/4	376.44	1/4	729.65	1/4	1,087.13	1/4	1,447.97	1/4	1,808.00	1/4	2,166.15	1/4	2,526.84	1/4	2,887.73	1/4	3,248.31
1/2	28.35	1/2	383.96	1/2	736.94	1/2	1,094.65	1/2	1,455.49	1/2	1,815.44	1/2	2,173.67	1/2	2,534.35	1/2	2,895.24	1/2	3,255.83
3/4	33.73	3/4	391.48	3/4	744.22	3/4	1,102.17	3/4	1,463.01	3/4	1,822.89	3/4	2,181.19	3/4	2,541.86	3/4	2,902.76	3/4	3,263.35
1	39.11	1	399.00	1	751.51	1	1,109.68	1	1,470.52	1	1,830.33	1	2,188.71	1	2,549.37	1	2,910.27	1	3,270.86
1/4	46.36	1/4	406.53	1/4	758.80	1/4	1,117.20	1/4	1,478.04	1/4	1,837.77	1/4	2,196.23	1/4	2,556.89	1/4	2,917.78	1/4	3,278.38
1/2	53.61	1/2	414.05	1/2	766.10	1/2	1,124.72	1/2	1,485.56	1/2	1,845.22	1/2	2,203.75	1/2	2,564.41	1/2	2,925.29	1/2	3,285.90
3/4	60.87	3/4	421.57	3/4	773.39	3/4	1,132.24	3/4	1,493.08	3/4	1,852.66	3/4	2,211.27	3/4	2,571.93	3/4	2,932.80	3/4	3,293.42
2	68.12	2	429.09	2	780.69	2	1,139.75	2	1,500.59	2	1,860.10	2	2,218.79	2	2,579.45	2	2,940.32	2	3,300.94
1/4	75.64	1/4	436.61	1/4	787.99	1/4	1,147.27	1/4	1,508.11	1/4	1,867.55	1/4	2,226.31	1/4	2,586.97	1/4	2,947.83	1/4	3,308.46
1/2	83.16	1/2	444.13	1/2	795.28	1/2	1,154.79	1/2	1,515.63	1/2	1,874.99	1/2	2,233.83	1/2	2,594.49	1/2	2,955.34	1/2	3,315.98
3/4	90.68	3/4	451.65	3/4	802.58	3/4	1,162.31	3/4	1,523.15	3/4	1,882.44	3/4	2,241.35	3/4	2,602.01	3/4	2,962.85	3/4	3,323.49
3	98.20	3	459.17	3	809.87	3	1,169.82	3	1,530.66	3	1,889.88	3	2,248.88	3	2,609.53	3	2,970.36	3	3,331.01
1/4	105.72	1/4	466.69	1/4	817.17	1/4	1,177.34	1/4	1,538.18	1/4	1,897.32	1/4	2,256.40	1/4	2,617.05	1/4	2,977.88	1/4	3,338.53
1/2	113.24	1/2	474.21	1/2	824.46	1/2	1,184.86	1/2	1,545.70	1/2	1,904.77	1/2	2,263.92	1/2	2,624.56	1/2	2,985.39	1/2	3,346.05
3/4	120.76	3/4	481.73	3/4	831.76	3/4	1,192.38	3/4	1,553.22	3/4	1,912.21	3/4	2,271.44	3/4	2,632.08	3/4	2,992.90	3/4	3,353.57
4	128.28	4	489.25	4	839.05	4	1,199.89	4	1,560.73	4	1,919.65	4	2,278.96	4	2,639.60	4	3,000.41	4	3,361.09
1/4	135.80	1/4	496.54	1/4	846.57	1/4	1,207.41	1/4	1,568.25	1/4	1,927.10	1/4	2,286.48	1/4	2,647.12	1/4	3,007.92	1/4	3,368.60
1/2	143.32	1/2	503.84	1/2	854.09	1/2	1,214.93	1/2	1,575.77	1/2	1,934.54	1/2	2,294.00	1/2	2,654.64	1/2	3,015.44	1/2	3,376.12
3/4	150.84	3/4	511.13	3/4	861.61	3/4	1,222.45	3/4	1,583.29	3/4	1,941.99	3/4	2,301.52	3/4	2,662.16	3/4	3,022.95	3/4	3,383.64
5	158.36	5	518.42	5	869.12	5	1,229.96	5	1,590.80	5	1,949.43	5	2,309.04	5	2,669.68	5	3,030.46	5	3,391.16
1/4	165.88	1/4	525.71	1/4	876.64	1/4	1,237.48	1/4	1,598.32	1/4	1,956.87	1/4	2,316.55	1/4	2,677.20	1/4	3,037.97	1/4	3,397.30
1/2	173.40	1/2	532.99	1/2	884.16	1/2	1,245.00	1/2	1,605.84	1/2	1,964.32	1/2	2,324.06	1/2	2,684.72	1/2	3,045.48	1/2	3,403.44
3/4	180.92	3/4	540.28	3/4	891.68	3/4	1,252.52	3/4	1,613.36	3/4	1,971.76	3/4	2,331.57	3/4	2,692.24	3/4	3,053.00	3/4	3,409.58
6	188.44	6	547.56	6	899.19	6	1,260.03	6	1,620.87	6	1,979.20	6	2,339.08	6	2,699.76	6	3,060.51	6	3,415.72
1/4	195.96	1/4	554.85	1/4	906.71	1/4	1,267.55	1/4	1,628.39	1/4	1,986.65	1/4	2,346.59	1/4	2,707.28	1/4	3,068.02	1/4	3,421.86
1/2	203.48	1/2	562.13	1/2	914.23	1/2	1,275.07	1/2	1,635.91	1/2	1,994.09	1/2	2,354.10	1/2	2,714.80	1/2	3,075.53	1/2	3,428.00
3/4	211.00	3/4	569.42	3/4	921.75	3/4	1,282.59	3/4	1,643.43	3/4	2,001.54	3/4	2,361.61	3/4	2,722.32	3/4	3,083.04	3/4	3,434.14
7	218.52	7	576.70	7	929.26	7	1,290.10	7	1,650.94	7	2,008.98	7	2,369.12	7	2,729.83	7	3,090.56	7	3,440.27
1/4	226.04	1/4	583.99	1/4	936.78	1/4	1,297.62	1/4	1,658.46	1/4	2,016.42	1/4	2,376.63	1/4	2,737.35	1/4	3,098.07	1/4	3,446.41
1/2	233.56	1/2	591.27	1/2	944.30	1/2	1,305.14	1/2	1,665.98	1/2	2,023.87	1/2	2,384.14	1/2	2,744.87	1/2	3,105.58	1/2	3,452.55
3/4	241.08	3/4	598.56	3/4	951.82	3/4	1,312.66	3/4	1,673.50	3/4	2,031.31	3/4	2,391.66	3/4	2,752.39	3/4	3,113.09	3/4	3,458.69
8	248.60	8	605.84	8	959.33	8	1,320.17	8	1,681.01	8	2,038.75	8	2,399.17	8	2,759.91	8	3,120.60	8	3,464.83
1/4	256.12	1/4	613.12	1/4	966.85	1/4	1,327.69	1/4	1,688.53	1/4	2,046.20	1/4	2,406.68	1/4	2,767.43	1/4	3,128.12	1/4	3,470.97
1/2	263.64	1/2	620.40	1/2	974.37	1/2	1,335.21	1/2	1,696.05	1/2	2,053.64	1/2	2,414.19	1/2	2,774.95	1/2	3,135.63	1/2	3,477.11
3/4	271.16	3/4	627.69	3/4	981.89	3/4	1,342.73	3/4	1,703.57	3/4	2,061.08	3/4	2,421.70	3/4	2,782.47	3/4	3,143.14	3/4	3,483.25
9	278.68	9	634.97	9	989.40	9	1,350.24	9	1,711.08	9	2,068.53	9	2,429.21	9	2,789.99	9	3,150.65	9	3,489.39
1/4	286.20	1/4	642.25	1/4	996.92	1/4	1,357.76	1/4	1,718.56	1/4	2,076.01	1/4	2,436.72	1/4	2,797.51	1/4	3,158.16	1/4	3,495.53
1/2	293.72	1/2	649.53	1/2	1,004.44	1/2	1,365.28	1/2	1,726.04	1/2	2,083.49	1/2	2,444.23	1/2	2,805.03	1/2	3,165.68	1/2	3,501.67
3/4	301.24	3/4	656.81	3/4	1,011.96	3/4	1,372.80	3/4	1,733.53	3/4	2,090.98	3/4	2,451.74	3/4	2,812.55	3/4	3,173.19	3/4	3,507.81
10	308.76	10	664.09	10	1,019.47	10	1,380.31	10	1,741.01	10	2,098.46	10	2,459.25	10	2,820.07	10	3,180.70	10	3,513.95
1/4	316.28	1/4	671.37	1/4	1,026.99	1/4	1,387.83	1/4	1,748.45	1/4	2,105.98	1/4	2,466.76	1/4	2,827.59	1/4	3,188.21	1/4	3,520.09
1/2	323.80	1/2	678.66	1/2	1,034.51	1/2	1,395.35	1/2	1,755.89	1/2	2,113.50	1/2	2,474.27	1/2	2,835.10	1/2	3,195.72	1/2	3,526.22
3/4	331.32	3/4	685.94	3/4	1,042.03	3/4	1,402.87	3/4	1,763.34	3/4	2,121.02	3/4	2,481.78	3/4	2,842.62	3/4	3,203.23	3/4	3,532.36
11	338.84	11	693.23	11	1,049.54	11	1,410.38	11	1,770.78	11	2,128.54	11	2,489.29	11	2,850.14	11	3,210.75	11	3,538.50
1/4	346.36	1/4	700.51	1/4	1,057.06	1/4	1,417.90	1/4	1,778.22	1/4	2,136.06	1/4	2,496.80	1/4	2,857.66	1/4	3,218.26	1/4	3,544.64
1/2	353.88	1/2	707.80	1/2	1,064.58	1/2	1,425.42	1/2	1,785.67	1/2	2,143.58	1/2	2,504.31	1/2	2,865.18	1/2	3,225.77	1/2	3,550.78
3/4	361.40	3/4	715.08	3/4	1,072.10	3/4	1,432.94	3/4	1,793.11	3/4	2,151.11	3/4	2,511.82	3/4	2,872.70	3/4	3,233.28	3/4	3,556.92

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" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 385"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,563.06	0	3,857.59	0	4,139.01	0	4,398.15	0		0		0		0		0		0	
1/4	3,569.20	1/4	3,863.65	1/4	4,144.63	1/4	4,403.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,575.34	1/2	3,869.72	1/2	4,150.25	1/2	4,408.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,581.48	3/4	3,875.79	3/4	4,155.87	3/4	4,413.55	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,587.62	1	3,881.86	1	4,161.49	1	4,418.68	1		1		1		1		1		1	
1/4	3,593.76	1/4	3,887.89	1/4	4,167.08	1/4	4,423.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,599.90	1/2	3,893.92	1/2	4,172.66	1/2	4,428.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,606.04	3/4	3,899.96	3/4	4,178.24	3/4	4,433.97	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,612.18	2	3,905.99	2	4,183.82	2	4,439.07	2		2		2		2		2		2	
1/4	3,618.31	1/4	3,911.98	1/4	4,189.37	1/4	4,444.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,624.45	1/2	3,917.98	1/2	4,194.91	1/2	4,449.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,630.59	3/4	3,923.97	3/4	4,200.46	3/4	4,454.25	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,636.73	3	3,929.96	3	4,206.00	3	4,459.31	3		3		3		3		3		3	
1/4	3,642.87	1/4	3,935.92	1/4	4,211.51	1/4	4,464.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,649.01	1/2	3,941.88	1/2	4,217.02	1/2	4,469.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,655.15	3/4	3,947.83	3/4	4,222.52	3/4	4,474.37	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,661.29	4	3,953.79	4	4,228.03	4	4,479.39	4		4		4		4		4		4	
1/4	3,667.43	1/4	3,959.71	1/4	4,233.50	1/4	4,484.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,673.57	1/2	3,965.63	1/2	4,238.97	1/2	4,490.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,679.71	3/4	3,971.55	3/4	4,244.44	3/4	4,496.05	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,685.85	5	3,977.47	5	4,249.91	5	4,501.60	5		5		5		5		5		5	
1/4	3,691.99	1/4	3,983.35	1/4	4,255.34	1/4	4,507.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,698.13	1/2	3,989.23	1/2	4,260.78	1/2	4,513.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,704.26	3/4	3,995.11	3/4	4,266.21	3/4	4,519.91	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,710.40	6	4,001.00	6	4,271.64	6	4,526.02	6		6		6		6		6		6	
1/4	3,716.54	1/4	4,006.84	1/4	4,277.04	1/4	4,532.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,722.68	1/2	4,012.68	1/2	4,282.43	1/2	4,538.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.82	3/4	4,018.53	3/4	4,287.83	3/4	4,544.32	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,734.96	7	4,024.37	7	4,293.22	7	4,550.43	7		7		7		7		7		7	
1/4	3,741.10	1/4	4,030.18	1/4	4,298.54	1/4	4,557.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,747.24	1/2	4,035.99	1/2	4,303.86	1/2	4,565.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,753.38	3/4	4,041.79	3/4	4,309.18	3/4	4,572.65	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,759.52	8	4,047.60	8	4,314.51	8	4,580.06	8		8		8		8		8		8	
1/4	3,765.66	1/4	4,053.37	1/4	4,319.79	1/4	4,586.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,771.80	1/2	4,059.14	1/2	4,325.07	1/2	4,593.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.94	3/4	4,064.91	3/4	4,330.36	3/4	4,600.22	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,784.08	9	4,070.68	9	4,335.64	9	4,606.94	9		9		9		9		9		9	
1/4	3,790.21	1/4	4,076.41	1/4	4,340.89	1/4	4,612.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,796.35	1/2	4,082.14	1/2	4,346.13	1/2	4,617.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,802.49	3/4	4,087.88	3/4	4,351.38	3/4	4,623.00	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,808.63	10	4,093.61	10	4,356.63	10		10		10		10		10		10		10	
1/4	3,814.76	1/4	4,099.30	1/4	4,361.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,820.90	1/2	4,105.00	1/2	4,367.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,827.03	3/4	4,110.69	3/4	4,372.25	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,833.16	11	4,116.39	11	4,377.46	11		11		11		11		11		11		11	
1/4	3,839.27	1/4	4,122.04	1/4	4,382.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,845.37	1/2	4,127.70	1/2	4,387.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,851.48	3/4	4,133.36	3/4	4,392.98	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/11/2013 CL
CALCULATED: 09/11/2013 CL
PRINTED: 09/13/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 385"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/2"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

September 11, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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BARGE "EMS 385"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0		0		0		0		0		0	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1		1		1		1		1		1		1		1		1		1	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2		2		2		2		2		2		2		2		2		2	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3		3		3		3		3		3		3		3		3		3	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4		4		4		4		4		4		4		4		4		4	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5		5		5		5		5		5		5		5		5		5	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6		6		6		6		6		6		6		6		6		6	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7		7		7		7		7		7		7		7		7		7	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8		8		8		8		8		8		8		8		8		8	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9		9		9		9		9		9		9		9		9		9	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10		10		10		10		10		10		10		10		10		10	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11		11		11		11		11		11		11		11		11		11	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11		11		11		11		11		11		11		11		11		11	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11		11		11		11		11		11		11		11		11		11	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 385"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,964.60	0	1,632.37	0	1,300.13	0	968.33	0	653.60	0	360.84	0	91.75	0		0		0	
1/4	1,957.68	1/4	1,625.44	1/4	1,293.21	1/4	961.54	1/4	647.27	1/4	355.01	1/4	86.41	1/4	1/4	1/4		1/4	1/4
1/2	1,950.76	1/2	1,618.52	1/2	1,286.29	1/2	954.74	1/2	640.95	1/2	349.17	1/2	81.08	1/2	1/2	1/2		1/2	1/2
3/4	1,943.83	3/4	1,611.60	3/4	1,279.37	3/4	947.95	3/4	634.62	3/4	343.34	3/4	75.74	3/4	3/4	3/4		3/4	3/4
1	1,936.91	1	1,604.68	1	1,272.45	1	941.15	1	628.30	1	337.51	1	70.40	1	1	1		1	1
1/4	1,929.99	1/4	1,597.76	1/4	1,265.53	1/4	934.42	1/4	622.01	1/4	331.72	1/4	65.10	1/4	1/4	1/4		1/4	1/4
1/2	1,923.07	1/2	1,590.84	1/2	1,258.61	1/2	927.68	1/2	615.73	1/2	325.93	1/2	59.80	1/2	1/2	1/2		1/2	1/2
3/4	1,916.15	3/4	1,583.92	3/4	1,251.68	3/4	920.95	3/4	609.45	3/4	320.14	3/4	54.50	3/4	3/4	3/4		3/4	3/4
2	1,909.23	2	1,576.99	2	1,244.76	2	914.21	2	603.16	2	314.35	2	49.21	2	2	2		2	2
1/4	1,902.30	1/4	1,570.07	1/4	1,237.84	1/4	907.52	1/4	596.92	1/4	308.60	1/4	44.20	1/4	1/4	1/4		1/4	1/4
1/2	1,895.38	1/2	1,563.15	1/2	1,230.92	1/2	900.82	1/2	590.68	1/2	302.85	1/2	39.19	1/2	1/2	1/2		1/2	1/2
3/4	1,888.46	3/4	1,556.23	3/4	1,224.00	3/4	894.13	3/4	584.43	3/4	297.10	3/4	34.18	3/4	3/4	3/4		3/4	3/4
3	1,881.54	3	1,549.31	3	1,217.08	3	887.43	3	578.19	3	291.35	3	29.17	3	3	3		3	3
1/4	1,874.62	1/4	1,542.39	1/4	1,210.15	1/4	880.78	1/4	571.99	1/4	285.64	1/4	25.93	1/4	1/4	1/4		1/4	1/4
1/2	1,867.70	1/2	1,535.47	1/2	1,203.23	1/2	874.13	1/2	565.79	1/2	279.93	1/2	22.70	1/2	1/2	1/2		1/2	1/2
3/4	1,860.78	3/4	1,528.54	3/4	1,196.31	3/4	867.47	3/4	559.58	3/4	274.22	3/4	19.46	3/4	3/4	3/4		3/4	3/4
4	1,853.85	4	1,521.62	4	1,189.39	4	860.82	4	553.38	4	268.51	4	16.22	4	4	4		4	4
1/4	1,846.93	1/4	1,514.70	1/4	1,182.47	1/4	854.21	1/4	547.22	1/4	262.84	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,840.01	1/2	1,507.78	1/2	1,175.55	1/2	847.61	1/2	541.06	1/2	257.18	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,833.09	3/4	1,500.86	3/4	1,168.63	3/4	841.00	3/4	534.90	3/4	251.51	3/4		3/4	3/4	3/4		3/4	3/4
5	1,826.17	5	1,493.94	5	1,161.70	5	834.39	5	528.74	5	245.84	5		5	5	5		5	5
1/4	1,819.25	1/4	1,487.01	1/4	1,154.78	1/4	827.82	1/4	522.62	1/4	240.22	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,812.33	1/2	1,480.09	1/2	1,147.86	1/2	821.26	1/2	516.50	1/2	234.59	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,805.40	3/4	1,473.17	3/4	1,140.94	3/4	814.69	3/4	510.38	3/4	228.96	3/4		3/4	3/4	3/4		3/4	3/4
6	1,798.48	6	1,466.25	6	1,134.02	6	808.12	6	504.26	6	223.34	6		6	6	6		6	6
1/4	1,791.56	1/4	1,459.33	1/4	1,127.10	1/4	801.59	1/4	498.18	1/4	217.75	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,784.64	1/2	1,452.41	1/2	1,120.18	1/2	795.06	1/2	492.10	1/2	212.17	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,777.72	3/4	1,445.49	3/4	1,113.25	3/4	788.53	3/4	486.02	3/4	206.58	3/4		3/4	3/4	3/4		3/4	3/4
7	1,770.80	7	1,438.56	7	1,106.33	7	782.00	7	479.94	7	200.99	7		7	7	7		7	7
1/4	1,763.87	1/4	1,431.64	1/4	1,099.41	1/4	775.52	1/4	473.91	1/4	195.45	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,756.95	1/2	1,424.72	1/2	1,092.49	1/2	769.03	1/2	467.87	1/2	189.91	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,750.03	3/4	1,417.80	3/4	1,085.57	3/4	762.54	3/4	461.83	3/4	184.36	3/4		3/4	3/4	3/4		3/4	3/4
8	1,743.11	8	1,410.88	8	1,078.65	8	756.05	8	455.79	8	178.82	8		8	8	8		8	8
1/4	1,736.19	1/4	1,403.96	1/4	1,071.72	1/4	749.60	1/4	449.80	1/4	173.31	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,729.27	1/2	1,397.04	1/2	1,064.80	1/2	743.15	1/2	443.80	1/2	167.81	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,722.35	3/4	1,390.11	3/4	1,057.88	3/4	736.71	3/4	437.81	3/4	162.31	3/4		3/4	3/4	3/4		3/4	3/4
9	1,715.42	9	1,383.19	9	1,050.96	9	730.26	9	431.81	9	156.80	9		9	9	9		9	9
1/4	1,708.50	1/4	1,376.27	1/4	1,044.04	1/4	723.84	1/4	425.85	1/4	151.34	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,701.58	1/2	1,369.35	1/2	1,037.12	1/2	717.42	1/2	419.90	1/2	145.88	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,694.66	3/4	1,362.43	3/4	1,030.20	3/4	711.00	3/4	413.94	3/4	140.42	3/4		3/4	3/4	3/4		3/4	3/4
10	1,687.74	10	1,355.51	10	1,023.27	10	704.58	10	407.99	10	134.96	10		10	10	10		10	10
1/4	1,680.82	1/4	1,348.58	1/4	1,016.37	1/4	698.20	1/4	402.07	1/4	129.53	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,673.90	1/2	1,341.66	1/2	1,009.47	1/2	691.82	1/2	396.16	1/2	124.11	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,666.97	3/4	1,334.74	3/4	1,002.57	3/4	685.44	3/4	390.24	3/4	118.69	3/4		3/4	3/4	3/4		3/4	3/4
11	1,660.05	11	1,327.82	11	995.67	11	679.06	11	384.33	11	113.27	11		11	11	11		11	11
1/4	1,653.13	1/4	1,320.90	1/4	988.84	1/4	672.70	1/4	378.46	1/4	107.89	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,646.21	1/2	1,313.98	1/2	982.00	1/2	666.33	1/2	372.58	1/2	102.51	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,639.29	3/4	1,307.06	3/4	975.17	3/4	659.97	3/4	366.71	3/4	97.13	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/11/2013 CL
CALCULATED: 09/11/2013 CL
PRINTED: 09/13/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 385"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 385"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,965.40	0	1,633.25	0	1,301.11	0	969.29	0	653.39	0	360.72	0	91.72	0		0		0	
1/4	1,958.48	1/4	1,626.33	1/4	1,294.19	1/4	962.47	1/4	647.07	1/4	354.89	1/4	86.38	1/4		1/4		1/4	
1/2	1,951.56	1/2	1,619.41	1/2	1,287.27	1/2	955.66	1/2	640.75	1/2	349.06	1/2	81.05	1/2		1/2		1/2	
3/4	1,944.64	3/4	1,612.49	3/4	1,280.35	3/4	948.84	3/4	634.42	3/4	343.23	3/4	75.71	3/4		3/4		3/4	
1	1,937.72	1	1,605.57	1	1,273.43	1	942.02	1	628.10	1	337.40	1	70.37	1		1		1	
1/4	1,930.80	1/4	1,598.65	1/4	1,266.51	1/4	935.26	1/4	621.82	1/4	331.61	1/4	65.08	1/4		1/4		1/4	
1/2	1,923.88	1/2	1,591.73	1/2	1,259.59	1/2	928.50	1/2	615.53	1/2	325.82	1/2	59.78	1/2		1/2		1/2	
3/4	1,916.96	3/4	1,584.81	3/4	1,252.67	3/4	921.73	3/4	609.25	3/4	320.03	3/4	54.49	3/4		3/4		3/4	
2	1,910.04	2	1,577.89	2	1,245.75	2	914.97	2	602.97	2	314.24	2	49.19	2		2		2	
1/4	1,903.12	1/4	1,570.97	1/4	1,238.83	1/4	908.25	1/4	596.73	1/4	308.49	1/4	44.18	1/4		1/4		1/4	
1/2	1,896.20	1/2	1,564.05	1/2	1,231.91	1/2	901.53	1/2	590.49	1/2	302.75	1/2	39.17	1/2		1/2		1/2	
3/4	1,889.28	3/4	1,557.13	3/4	1,224.99	3/4	894.81	3/4	584.25	3/4	297.00	3/4	34.17	3/4		3/4		3/4	
3	1,882.36	3	1,550.21	3	1,218.07	3	888.09	3	578.00	3	291.25	3	29.16	3		3		3	
1/4	1,875.44	1/4	1,543.30	1/4	1,211.15	1/4	881.41	1/4	571.80	1/4	285.54	1/4	25.92	1/4		1/4		1/4	
1/2	1,868.52	1/2	1,536.38	1/2	1,204.23	1/2	874.73	1/2	565.60	1/2	279.84	1/2	22.69	1/2		1/2		1/2	
3/4	1,861.60	3/4	1,529.46	3/4	1,197.31	3/4	868.04	3/4	559.40	3/4	274.13	3/4	19.45	3/4		3/4		3/4	
4	1,854.68	4	1,522.54	4	1,190.39	4	861.36	4	553.20	4	268.42	4	16.21	4		4		4	
1/4	1,847.76	1/4	1,515.62	1/4	1,183.47	1/4	854.73	1/4	547.05	1/4	262.76	1/4		1/4		1/4		1/4	
1/2	1,840.84	1/2	1,508.70	1/2	1,176.55	1/2	848.10	1/2	540.89	1/2	257.09	1/2		1/2		1/2		1/2	
3/4	1,833.92	3/4	1,501.78	3/4	1,169.63	3/4	841.46	3/4	534.73	3/4	251.43	3/4		3/4		3/4		3/4	
5	1,827.00	5	1,494.86	5	1,162.71	5	834.83	5	528.57	5	245.76	5		5		5		5	
1/4	1,820.08	1/4	1,487.94	1/4	1,155.79	1/4	828.23	1/4	522.45	1/4	240.13	1/4		1/4		1/4		1/4	
1/2	1,813.16	1/2	1,481.02	1/2	1,148.87	1/2	821.64	1/2	516.33	1/2	234.51	1/2		1/2		1/2		1/2	
3/4	1,806.24	3/4	1,474.10	3/4	1,141.95	3/4	815.04	3/4	510.21	3/4	228.89	3/4		3/4		3/4		3/4	
6	1,799.32	6	1,467.18	6	1,135.03	6	808.45	6	504.10	6	223.26	6		6		6		6	
1/4	1,792.40	1/4	1,460.26	1/4	1,128.11	1/4	801.89	1/4	498.02	1/4	217.68	1/4		1/4		1/4		1/4	
1/2	1,785.48	1/2	1,453.34	1/2	1,121.19	1/2	795.34	1/2	491.94	1/2	212.09	1/2		1/2		1/2		1/2	
3/4	1,778.57	3/4	1,446.42	3/4	1,114.27	3/4	788.78	3/4	485.87	3/4	206.51	3/4		3/4		3/4		3/4	
7	1,771.65	7	1,439.50	7	1,107.35	7	782.22	7	479.79	7	200.93	7		7		7		7	
1/4	1,764.73	1/4	1,432.58	1/4	1,100.43	1/4	775.71	1/4	473.75	1/4	195.38	1/4		1/4		1/4		1/4	
1/2	1,757.81	1/2	1,425.66	1/2	1,093.51	1/2	769.19	1/2	467.72	1/2	189.84	1/2		1/2		1/2		1/2	
3/4	1,750.89	3/4	1,418.74	3/4	1,086.60	3/4	762.68	3/4	461.68	3/4	184.30	3/4		3/4		3/4		3/4	
8	1,743.97	8	1,411.82	8	1,079.68	8	756.16	8	455.65	8	178.76	8		8		8		8	
1/4	1,737.05	1/4	1,404.90	1/4	1,072.76	1/4	749.68	1/4	449.65	1/4	173.26	1/4		1/4		1/4		1/4	
1/2	1,730.13	1/2	1,397.98	1/2	1,065.84	1/2	743.21	1/2	443.66	1/2	167.75	1/2		1/2		1/2		1/2	
3/4	1,723.21	3/4	1,391.06	3/4	1,058.92	3/4	736.74	3/4	437.66	3/4	162.25	3/4		3/4		3/4		3/4	
9	1,716.29	9	1,384.14	9	1,052.00	9	730.26	9	431.67	9	156.75	9		9		9		9	
1/4	1,709.37	1/4	1,377.22	1/4	1,045.08	1/4	723.81	1/4	425.71	1/4	151.29	1/4		1/4		1/4		1/4	
1/2	1,702.45	1/2	1,370.30	1/2	1,038.16	1/2	717.37	1/2	419.76	1/2	145.83	1/2		1/2		1/2		1/2	
3/4	1,695.53	3/4	1,363.38	3/4	1,031.24	3/4	710.92	3/4	413.81	3/4	140.37	3/4		3/4		3/4		3/4	
10	1,688.61	10	1,356.46	10	1,024.32	10	704.47	10	407.85	10	134.91	10		10		10		10	
1/4	1,681.69	1/4	1,349.54	1/4	1,017.42	1/4	698.07	1/4	401.94	1/4	129.49	1/4		1/4		1/4		1/4	
1/2	1,674.77	1/2	1,342.62	1/2	1,010.52	1/2	691.66	1/2	396.03	1/2	124.07	1/2		1/2		1/2		1/2	
3/4	1,667.85	3/4	1,335.70	3/4	1,003.62	3/4	685.26	3/4	390.12	3/4	118.65	3/4		3/4		3/4		3/4	
11	1,660.93	11	1,328.78	11	996.72	11	678.85	11	384.20	11	113.23	11		11		11		11	
1/4	1,654.01	1/4	1,321.86	1/4	989.86	1/4	672.49	1/4	378.33	1/4	107.86	1/4		1/4		1/4		1/4	
1/2	1,647.09	1/2	1,314.95	1/2	983.01	1/2	666.12	1/2	372.46	1/2	102.48	1/2		1/2		1/2		1/2	
3/4	1,640.17	3/4	1,308.03	3/4	976.15	3/4	659.76	3/4	366.59	3/4	97.10	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/11/2013 CL
CALCULATED: 09/11/2013 CL
PRINTED: 09/13/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "EMS 385"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,461.38	0	2,072.93	0	1,684.49	0	1,296.04	0	907.60	0	534.13	0	146.03	0		0		0	
1/4	2,453.29	1/4	2,064.84	1/4	1,676.40	1/4	1,287.95	1/4	899.51	1/4	526.34	1/4	137.93	1/4		1/4		1/4	
1/2	2,445.19	1/2	2,056.75	1/2	1,668.30	1/2	1,279.86	1/2	891.72	1/2	518.25	1/2	129.84	1/2		1/2		1/2	
3/4	2,437.10	3/4	2,048.66	3/4	1,660.21	3/4	1,271.77	3/4	883.93	3/4	510.16	3/4	121.75	3/4		3/4		3/4	
1	2,429.01	1	2,040.56	1	1,652.12	1	1,263.67	1	876.15	1	502.07	1	113.66	1		1		1	
1/4	2,420.91	1/4	2,032.47	1/4	1,644.03	1/4	1,255.58	1/4	868.36	1/4	493.98	1/4	105.57	1/4		1/4		1/4	
1/2	2,412.82	1/2	2,024.38	1/2	1,635.93	1/2	1,247.49	1/2	860.57	1/2	485.89	1/2	97.47	1/2		1/2		1/2	
3/4	2,404.73	3/4	2,016.28	3/4	1,627.84	3/4	1,239.40	3/4	852.79	3/4	477.79	3/4	89.38	3/4		3/4		3/4	
2	2,396.64	2	2,008.19	2	1,619.75	2	1,231.30	2	845.00	2	469.70	2	81.29	2		2		2	
1/4	2,388.54	1/4	2,000.10	1/4	1,611.65	1/4	1,223.21	1/4	837.21	1/4	461.61	1/4	73.20	1/4		1/4		1/4	
1/2	2,380.45	1/2	1,992.01	1/2	1,603.56	1/2	1,215.12	1/2	829.43	1/2	453.52	1/2	65.40	1/2		1/2		1/2	
3/4	2,372.36	3/4	1,983.91	3/4	1,595.47	3/4	1,207.02	3/4	821.65	3/4	445.43	3/4	57.59	3/4		3/4		3/4	
3	2,364.27	3	1,975.82	3	1,587.38	3	1,198.93	3	813.87	3	437.33	3	49.79	3		3		3	
1/4	2,356.17	1/4	1,967.73	1/4	1,579.28	1/4	1,190.84	1/4	806.09	1/4	429.24	1/4	41.99	1/4		1/4		1/4	
1/2	2,348.08	1/2	1,959.64	1/2	1,571.19	1/2	1,182.75	1/2	798.32	1/2	421.15	1/2	36.21	1/2		1/2		1/2	
3/4	2,339.99	3/4	1,951.54	3/4	1,563.10	3/4	1,174.65	3/4	790.55	3/4	413.06	3/4	30.43	3/4		3/4		3/4	
4	2,331.90	4	1,943.45	4	1,555.01	4	1,166.56	4	782.78	4	404.97	4	24.65	4		4		4	
1/4	2,323.80	1/4	1,935.36	1/4	1,546.91	1/4	1,158.47	1/4	775.01	1/4	396.87	1/4	18.88	1/4		1/4		1/4	
1/2	2,315.71	1/2	1,927.27	1/2	1,538.82	1/2	1,150.38	1/2	767.24	1/2	388.78	1/2		1/2		1/2		1/2	
3/4	2,307.62	3/4	1,919.17	3/4	1,530.73	3/4	1,142.28	3/4	759.47	3/4	380.69	3/4		3/4		3/4		3/4	
5	2,299.53	5	1,911.08	5	1,522.64	5	1,134.19	5	751.70	5	372.60	5		5		5		5	
1/4	2,291.43	1/4	1,902.99	1/4	1,514.54	1/4	1,126.10	1/4	743.93	1/4	364.51	1/4		1/4		1/4		1/4	
1/2	2,283.34	1/2	1,894.90	1/2	1,506.45	1/2	1,118.01	1/2	736.15	1/2	356.41	1/2		1/2		1/2		1/2	
3/4	2,275.25	3/4	1,886.80	3/4	1,498.36	3/4	1,109.91	3/4	728.38	3/4	348.32	3/4		3/4		3/4		3/4	
6	2,267.16	6	1,878.71	6	1,490.27	6	1,101.82	6	720.61	6	340.23	6		6		6		6	
1/4	2,259.06	1/4	1,870.62	1/4	1,482.17	1/4	1,093.73	1/4	712.84	1/4	332.14	1/4		1/4		1/4		1/4	
1/2	2,250.97	1/2	1,862.53	1/2	1,474.08	1/2	1,085.64	1/2	705.08	1/2	324.05	1/2		1/2		1/2		1/2	
3/4	2,242.88	3/4	1,854.43	3/4	1,465.99	3/4	1,077.54	3/4	697.31	3/4	315.96	3/4		3/4		3/4		3/4	
7	2,234.78	7	1,846.34	7	1,457.90	7	1,069.45	7	689.54	7	307.86	7		7		7		7	
1/4	2,226.69	1/4	1,838.25	1/4	1,449.80	1/4	1,061.36	1/4	681.78	1/4	299.77	1/4		1/4		1/4		1/4	
1/2	2,218.60	1/2	1,830.15	1/2	1,441.71	1/2	1,053.27	1/2	674.01	1/2	291.68	1/2		1/2		1/2		1/2	
3/4	2,210.51	3/4	1,822.06	3/4	1,433.62	3/4	1,045.17	3/4	666.25	3/4	283.59	3/4		3/4		3/4		3/4	
8	2,202.41	8	1,813.97	8	1,425.52	8	1,037.08	8	658.48	8	275.50	8		8		8		8	
1/4	2,194.32	1/4	1,805.88	1/4	1,417.43	1/4	1,028.99	1/4	650.71	1/4	267.40	1/4		1/4		1/4		1/4	
1/2	2,186.23	1/2	1,797.78	1/2	1,409.34	1/2	1,020.89	1/2	642.94	1/2	259.31	1/2		1/2		1/2		1/2	
3/4	2,178.14	3/4	1,789.69	3/4	1,401.25	3/4	1,012.80	3/4	635.17	3/4	251.22	3/4		3/4		3/4		3/4	
9	2,170.04	9	1,781.60	9	1,393.15	9	1,004.71	9	627.40	9	243.13	9		9		9		9	
1/4	2,161.95	1/4	1,773.51	1/4	1,385.06	1/4	996.62	1/4	619.63	1/4	235.04	1/4		1/4		1/4		1/4	
1/2	2,153.86	1/2	1,765.41	1/2	1,376.97	1/2	988.52	1/2	611.86	1/2	226.94	1/2		1/2		1/2		1/2	
3/4	2,145.77	3/4	1,757.32	3/4	1,368.88	3/4	980.43	3/4	604.09	3/4	218.85	3/4		3/4		3/4		3/4	
10	2,137.67	10	1,749.23	10	1,360.78	10	972.34	10	596.32	10	210.76	10		10		10		10	
1/4	2,129.58	1/4	1,741.14	1/4	1,352.69	1/4	964.25	1/4	588.55	1/4	202.67	1/4		1/4		1/4		1/4	
1/2	2,121.49	1/2	1,733.04	1/2	1,344.60	1/2	956.15	1/2	580.78	1/2	194.58	1/2		1/2		1/2		1/2	
3/4	2,113.40	3/4	1,724.95	3/4	1,336.51	3/4	948.06	3/4	573.01	3/4	186.48	3/4		3/4		3/4		3/4	
11	2,105.30	11	1,716.86	11	1,328.41	11	939.97	11	565.24	11	178.39	11		11		11		11	
1/4	2,097.21	1/4	1,708.77	1/4	1,320.32	1/4	931.88	1/4	557.47	1/4	170.30	1/4		1/4		1/4		1/4	
1/2	2,089.12	1/2	1,700.67	1/2	1,312.23	1/2	923.78	1/2	549.69	1/2	162.21	1/2		1/2		1/2		1/2	
3/4	2,081.03	3/4	1,692.58	3/4	1,304.14	3/4	915.69	3/4	541.91	3/4	154.12	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/11/2013 CL
CALCULATED: 09/11/2013 CL
PRINTED: 09/13/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 385"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	
0					5,115.86				4,774.35				4,021.90				3,245.09			2,856.65
1/4	1/4	1/4	1/4	1/4	5,108.98	1/4	1/4	1/4	4,766.93	1/4	1/4	1/4	4,013.81	1/4	1/4	1/4	3,237.00	1/4	1/4	2,848.56
1/2	1/2	1/2	1/2	1/2	5,102.10	1/2	1/2	1/2	4,759.52	1/2	1/2	1/2	4,005.72	1/2	1/2	1/2	3,228.91	1/2	1/2	2,840.46
3/4	3/4	3/4	3/4	3/4	5,095.22	3/4	3/4	3/4	4,752.11	3/4	3/4	3/4	3,997.62	3/4	3/4	3/4	3,220.82	3/4	3/4	2,832.37
1	1	1	1	1	5,088.33	1	1	1	4,744.70	1	1	1	3,989.53	1	1	1	3,212.72	1	1	2,824.28
1/4	1/4	1/4	1/4	1/4	5,081.41	1/4	1/4	1/4	4,737.25	1/4	1/4	1/4	3,981.44	1/4	1/4	1/4	3,204.63	1/4	1/4	2,816.19
1/2	1/2	1/2	1/2	1/2	5,074.49	1/2	1/2	1/2	4,729.79	1/2	1/2	1/2	3,973.35	1/2	1/2	1/2	3,196.54	1/2	1/2	2,808.09
3/4	3/4	3/4	3/4	3/4	5,067.57	3/4	3/4	3/4	4,722.34	3/4	3/4	3/4	3,965.26	3/4	3/4	3/4	3,188.45	3/4	3/4	2,800.00
2	2	2	2	2	5,060.65	2	2	2	4,714.89	2	2	2	3,957.17	2	2	2	3,180.35	2	2	2,791.91
1/4	1/4	1/4	1/4	1/4	5,053.69	1/4	1/4	1/4	4,707.40	1/4	1/4	1/4	3,949.08	1/4	1/4	1/4	3,172.26	1/4	1/4	2,783.82
1/2	1/2	1/2	1/2	1/2	5,046.72	1/2	1/2	1/2	4,699.90	1/2	1/2	1/2	3,940.98	1/2	1/2	1/2	3,164.17	1/2	1/2	2,775.72
3/4	3/4	3/4	3/4	3/4	5,039.76	3/4	3/4	3/4	4,692.41	3/4	3/4	3/4	3,932.89	3/4	3/4	3/4	3,156.08	3/4	3/4	2,767.63
3	3	3	3	3	5,032.80	3	3	3	4,684.92	3	3	3	3,924.80	3	3	3	3,147.98	3	3	2,759.54
1/4	1/4	1/4	1/4	1/4	5,025.80	1/4	1/4	1/4	4,677.39	1/4	1/4	1/4	3,916.71	1/4	1/4	1/4	3,139.89	1/4	1/4	2,751.45
1/2	1/2	1/2	1/2	1/2	5,018.79	1/2	1/2	1/2	4,669.85	1/2	1/2	1/2	3,908.62	1/2	1/2	1/2	3,131.80	1/2	1/2	2,743.35
3/4	3/4	3/4	3/4	3/4	5,011.79	3/4	3/4	3/4	4,662.32	3/4	3/4	3/4	3,900.53	3/4	3/4	3/4	3,123.71	3/4	3/4	2,735.26
4	4	4	4	4	5,004.79	4	4	4	4,654.79	4	4	4	3,892.44	4	4	4	3,115.61	4	4	2,727.17
1/4	1/4	1/4	1/4	1/4	4,997.75	1/4	1/4	1/4	4,647.21	1/4	1/4	1/4	3,884.34	1/4	1/4	1/4	3,107.52	1/4	1/4	2,719.08
1/2	1/2	1/2	1/2	1/2	4,990.70	1/2	1/2	1/2	4,639.64	1/2	1/2	1/2	3,876.25	1/2	1/2	1/2	3,099.43	1/2	1/2	2,710.98
3/4	3/4	3/4	3/4	3/4	4,983.66	3/4	3/4	3/4	4,632.07	3/4	3/4	3/4	3,868.16	3/4	3/4	3/4	3,091.34	3/4	3/4	2,702.89
5	5	5	5	5	4,976.62	5	5	5	4,624.49	5	5	5	3,860.07	5	5	5	3,083.24	5	5	2,694.80
1/4	1/4	1/4	1/4	1/4	4,969.54	1/4	1/4	1/4	4,616.88	1/4	1/4	1/4	3,851.98	1/4	1/4	1/4	3,075.15	1/4	1/4	2,686.71
1/2	1/2	1/2	1/2	1/2	4,962.45	1/2	1/2	1/2	4,609.27	1/2	1/2	1/2	3,843.89	1/2	1/2	1/2	3,067.06	1/2	1/2	2,678.61
3/4	3/4	3/4	3/4	3/4	4,955.37	3/4	3/4	3/4	4,601.65	3/4	3/4	3/4	3,835.80	3/4	3/4	3/4	3,058.97	3/4	3/4	2,670.52
6	6	6	6	6	4,948.29	6	6	6	4,594.04	6	6	6	3,827.70	6	6	6	3,050.87	6	6	2,662.43
1/4	1/4	1/4	1/4	5,288.01	1/4	1/4	1/4	1/4	4,941.16	1/4	1/4	1/4	3,819.61	1/4	1/4	1/4	3,042.78	1/4	1/4	2,654.34
1/2	1/2	1/2	1/2	5,282.26	1/2	1/2	1/2	1/2	4,934.04	1/2	1/2	1/2	3,811.52	1/2	1/2	1/2	3,034.69	1/2	1/2	2,646.24
3/4	3/4	3/4	3/4	5,276.51	3/4	3/4	3/4	3/4	4,926.92	3/4	3/4	3/4	3,803.43	3/4	3/4	3/4	3,026.59	3/4	3/4	2,638.15
7	7	7	7	7	5,270.76	7	7	7	4,919.79	7	7	7	3,795.34	7	7	7	3,018.50	7	7	2,630.06
1/4	1/4	1/4	1/4	5,263.53	1/4	1/4	1/4	1/4	4,912.63	1/4	1/4	1/4	3,787.25	1/4	1/4	1/4	3,010.41	1/4	1/4	2,621.96
1/2	1/2	1/2	1/2	5,256.31	1/2	1/2	1/2	1/2	4,905.47	1/2	1/2	1/2	3,779.16	1/2	1/2	1/2	3,002.32	1/2	1/2	2,613.87
3/4	3/4	3/4	3/4	5,249.09	3/4	3/4	3/4	3/4	4,898.30	3/4	3/4	3/4	3,771.06	3/4	3/4	3/4	2,994.22	3/4	3/4	2,605.78
8	8	8	8	8	5,241.86	8	8	8	4,891.14	8	8	8	3,762.97	8	8	8	2,986.13	8	8	2,597.69
1/4	1/4	1/4	1/4	5,233.90	1/4	1/4	1/4	1/4	4,883.94	1/4	1/4	1/4	3,754.88	1/4	1/4	1/4	2,978.04	1/4	1/4	2,589.59
1/2	1/2	1/2	1/2	5,225.94	1/2	1/2	1/2	1/2	4,876.73	1/2	1/2	1/2	3,746.79	1/2	1/2	1/2	2,969.95	1/2	1/2	2,581.50
3/4	3/4	3/4	3/4	5,217.98	3/4	3/4	3/4	3/4	4,869.53	3/4	3/4	3/4	3,738.70	3/4	3/4	3/4	2,961.85	3/4	3/4	2,573.41
9	9	9	9	9	5,210.03	9	9	9	4,862.32	9	9	9	3,730.61	9	9	9	2,953.76	9	9	2,565.32
1/4	1/4	1/4	1/4	5,201.98	1/4	1/4	1/4	1/4	4,855.03	1/4	1/4	1/4	3,722.52	1/4	1/4	1/4	2,945.67	1/4	1/4	2,557.22
1/2	1/2	1/2	1/2	5,193.94	1/2	1/2	1/2	1/2	4,847.74	1/2	1/2	1/2	3,714.42	1/2	1/2	1/2	2,937.58	1/2	1/2	2,549.13
3/4	3/4	3/4	3/4	5,185.89	3/4	3/4	3/4	3/4	4,840.45	3/4	3/4	3/4	3,706.33	3/4	3/4	3/4	2,929.48	3/4	3/4	2,541.04
10	10	10	10	10	5,177.85	10	10	10	4,833.16	10	10	10	3,698.24	10	10	10	2,921.39	10	10	2,532.95
1/4	1/4	1/4	1/4	5,169.81	1/4	1/4	1/4	1/4	4,825.83	1/4	1/4	1/4	3,690.15	1/4	1/4	1/4	2,913.30	1/4	1/4	2,524.85
1/2	1/2	1/2	1/2	5,161.76	1/2	1/2	1/2	1/2	4,818.50	1/2	1/2	1/2	3,682.06	1/2	1/2	1/2	2,905.21	1/2	1/2	2,516.76
3/4	3/4	3/4	3/4	5,153.72	3/4	3/4	3/4	3/4	4,811.16	3/4	3/4	3/4	3,673.97	3/4	3/4	3/4	2,897.11	3/4	3/4	2,508.67
11	11	11	11	11	5,145.67	11	11	11	4,803.83	11	11	11	3,665.88	11	11	11	2,889.02	11	11	2,500.58
1/4	1/4	1/4	1/4	5,138.22	1/4	1/4	1/4	1/4	4,796.46	1/4	1/4	1/4	3,657.79	1/4	1/4	1/4	2,880.93	1/4	1/4	2,492.48
1/2	1/2	1/2	1/2	5,130.77	1/2	1/2	1/2	1/2	4,789.09	1/2	1/2	1/2	3,649.69	1/2	1/2	1/2	2,872.84	1/2	1/2	2,484.39
3/4	3/4	3/4	3/4	5,123.31	3/4	3/4	3/4	3/4	4,781.72	3/4	3/4	3/4	3,641.60	3/4	3/4	3/4	2,864.74	3/4	3/4	2,476.30

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 385"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

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	2,468.21	0	2,079.76	0	1,691.32	0	1,302.87	0	914.43	0	526.35	0	137.94	0		0		0	
1/4	2,460.11	1/4	2,071.67	1/4	1,683.22	1/4	1,294.78	1/4	906.33	1/4	518.26	1/4	129.85	1/4	1/4	1/4		1/4	1/4
1/2	2,452.02	1/2	2,063.58	1/2	1,675.13	1/2	1,286.69	1/2	898.24	1/2	510.17	1/2	121.76	1/2	1/2	1/2		1/2	1/2
3/4	2,443.93	3/4	2,055.48	3/4	1,667.04	3/4	1,278.59	3/4	890.15	3/4	502.08	3/4	113.67	3/4	3/4	3/4		3/4	3/4
1	2,435.83	1	2,047.39	1	1,658.95	1	1,270.50	1	882.06	1	493.99	1	105.57	1	1	1		1	1
1/4	2,427.74	1/4	2,039.30	1/4	1,650.85	1/4	1,262.41	1/4	873.96	1/4	485.89	1/4	97.48	1/4	1/4	1/4		1/4	1/4
1/2	2,419.65	1/2	2,031.20	1/2	1,642.76	1/2	1,254.32	1/2	865.87	1/2	477.80	1/2	89.39	1/2	1/2	1/2		1/2	1/2
3/4	2,411.56	3/4	2,023.11	3/4	1,634.67	3/4	1,246.22	3/4	857.78	3/4	469.71	3/4	81.30	3/4	3/4	3/4		3/4	3/4
2	2,403.46	2	2,015.02	2	1,626.57	2	1,238.13	2	849.69	2	461.62	2	73.21	2	2	2		2	2
1/4	2,395.37	1/4	2,006.93	1/4	1,618.48	1/4	1,230.04	1/4	841.59	1/4	453.53	1/4	65.40	1/4	1/4	1/4		1/4	1/4
1/2	2,387.28	1/2	1,998.83	1/2	1,610.39	1/2	1,221.94	1/2	833.50	1/2	445.43	1/2	57.60	1/2	1/2	1/2		1/2	1/2
3/4	2,379.19	3/4	1,990.74	3/4	1,602.30	3/4	1,213.85	3/4	825.41	3/4	437.34	3/4	49.80	3/4	3/4	3/4		3/4	3/4
3	2,371.09	3	1,982.65	3	1,594.20	3	1,205.76	3	817.31	3	429.25	3	42.00	3	3	3		3	3
1/4	2,363.00	1/4	1,974.56	1/4	1,586.11	1/4	1,197.67	1/4	809.23	1/4	421.16	1/4	36.22	1/4	1/4	1/4		1/4	1/4
1/2	2,354.91	1/2	1,966.46	1/2	1,578.02	1/2	1,189.57	1/2	801.15	1/2	413.07	1/2	30.44	1/2	1/2	1/2		1/2	1/2
3/4	2,346.82	3/4	1,958.37	3/4	1,569.93	3/4	1,181.48	3/4	793.07	3/4	404.97	3/4	24.66	3/4	3/4	3/4		3/4	3/4
4	2,338.72	4	1,950.28	4	1,561.83	4	1,173.39	4	784.99	4	396.88	4	18.88	4	4	4		4	4
1/4	2,330.63	1/4	1,942.19	1/4	1,553.74	1/4	1,165.30	1/4	776.90	1/4	388.79	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,322.54	1/2	1,934.09	1/2	1,545.65	1/2	1,157.20	1/2	768.82	1/2	380.70	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,314.45	3/4	1,926.00	3/4	1,537.56	3/4	1,149.11	3/4	760.74	3/4	372.61	3/4		3/4	3/4	3/4		3/4	3/4
5	2,306.35	5	1,917.91	5	1,529.46	5	1,141.02	5	752.66	5	364.51	5		5	5	5		5	5
1/4	2,298.26	1/4	1,909.82	1/4	1,521.37	1/4	1,132.93	1/4	744.58	1/4	356.42	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,290.17	1/2	1,901.72	1/2	1,513.28	1/2	1,124.83	1/2	736.49	1/2	348.33	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,282.08	3/4	1,893.63	3/4	1,505.19	3/4	1,116.74	3/4	728.41	3/4	340.24	3/4		3/4	3/4	3/4		3/4	3/4
6	2,273.98	6	1,885.54	6	1,497.09	6	1,108.65	6	720.33	6	332.15	6		6	6	6		6	6
1/4	2,265.89	1/4	1,877.45	1/4	1,489.00	1/4	1,100.56	1/4	712.25	1/4	324.06	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,257.80	1/2	1,869.35	1/2	1,480.91	1/2	1,092.46	1/2	704.17	1/2	315.96	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,249.71	3/4	1,861.26	3/4	1,472.82	3/4	1,084.37	3/4	696.10	3/4	307.87	3/4		3/4	3/4	3/4		3/4	3/4
7	2,241.61	7	1,853.17	7	1,464.72	7	1,076.28	7	688.02	7	299.78	7		7	7	7		7	7
1/4	2,233.52	1/4	1,845.08	1/4	1,456.63	1/4	1,068.19	1/4	679.94	1/4	291.69	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,225.43	1/2	1,836.98	1/2	1,448.54	1/2	1,060.09	1/2	671.86	1/2	283.60	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,217.33	3/4	1,828.89	3/4	1,440.45	3/4	1,052.00	3/4	663.79	3/4	275.50	3/4		3/4	3/4	3/4		3/4	3/4
8	2,209.24	8	1,820.80	8	1,432.35	8	1,043.91	8	655.71	8	267.41	8		8	8	8		8	8
1/4	2,201.15	1/4	1,812.70	1/4	1,424.26	1/4	1,035.82	1/4	647.63	1/4	259.32	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,193.06	1/2	1,804.61	1/2	1,416.17	1/2	1,027.72	1/2	639.54	1/2	251.23	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,184.96	3/4	1,796.52	3/4	1,408.07	3/4	1,019.63	3/4	631.46	3/4	243.14	3/4		3/4	3/4	3/4		3/4	3/4
9	2,176.87	9	1,788.43	9	1,399.98	9	1,011.54	9	623.38	9	235.04	9		9	9	9		9	9
1/4	2,168.78	1/4	1,780.33	1/4	1,391.89	1/4	1,003.44	1/4	615.30	1/4	226.95	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,160.69	1/2	1,772.24	1/2	1,383.80	1/2	995.35	1/2	607.21	1/2	218.86	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,152.59	3/4	1,764.15	3/4	1,375.70	3/4	987.26	3/4	599.13	3/4	210.77	3/4		3/4	3/4	3/4		3/4	3/4
10	2,144.50	10	1,756.06	10	1,367.61	10	979.17	10	591.05	10	202.68	10		10	10	10		10	10
1/4	2,136.41	1/4	1,747.96	1/4	1,359.52	1/4	971.07	1/4	582.97	1/4	194.59	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,128.32	1/2	1,739.87	1/2	1,351.43	1/2	962.98	1/2	574.89	1/2	186.49	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,120.22	3/4	1,731.78	3/4	1,343.33	3/4	954.89	3/4	566.80	3/4	178.40	3/4		3/4	3/4	3/4		3/4	3/4
11	2,112.13	11	1,723.69	11	1,335.24	11	946.80	11	558.72	11	170.31	11		11	11	11		11	11
1/4	2,104.04	1/4	1,715.59	1/4	1,327.15	1/4	938.70	1/4	550.63	1/4	162.22	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,095.95	1/2	1,707.50	1/2	1,319.06	1/2	930.61	1/2	542.54	1/2	154.13	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,087.85	3/4	1,699.41	3/4	1,310.96	3/4	922.52	3/4	534.44	3/4	146.03	3/4		3/4	3/4	3/4		3/4	3/4

STRAPPED: 09/11/2013 CL
CALCULATED: 09/11/2013 CL
PRINTED: 09/13/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 385"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4	4,488.60	1/4	4,237.24	1/4	3,963.54	1/4	3,671.34	1/4	3,372.57	1/4	3,011.42	1/4	2,650.15
1/2		1/2		1/2		1/2	4,483.05	1/2	4,231.77	1/2	3,957.62	1/2	3,665.20	1/2	3,365.04	1/2	3,003.90	1/2	2,642.62
3/4		3/4		3/4		3/4	4,478.03	3/4	4,226.27	3/4	3,951.67	3/4	3,659.07	3/4	3,357.52	3/4	2,996.38	3/4	2,635.09
1		1		1		1	4,473.01	1	4,220.76	1	3,945.71	1	3,652.93	1	3,349.99	1	2,988.85	1	2,627.56
1/4		1/4		1/4		1/4	4,467.99	1/4	4,215.26	1/4	3,939.76	1/4	3,646.79	1/4	3,342.46	1/4	2,981.33	1/4	2,620.03
1/2		1/2		1/2		1/2	4,462.97	1/2	4,209.75	1/2	3,933.80	1/2	3,640.65	1/2	3,334.93	1/2	2,973.81	1/2	2,612.50
3/4		3/4		3/4		3/4	4,457.91	3/4	4,204.21	3/4	3,927.81	3/4	3,634.52	3/4	3,327.40	3/4	2,966.29	3/4	2,604.97
2		2		2		2	4,452.85	2	4,198.67	2	3,921.82	2	3,628.38	2	3,319.87	2	2,958.77	2	2,597.44
1/4		1/4		1/4		1/4	4,447.80	1/4	4,193.12	1/4	3,915.83	1/4	3,622.24	1/4	3,312.35	1/4	2,951.24	1/4	2,589.91
1/2		1/2		1/2		1/2	4,442.74	1/2	4,187.58	1/2	3,909.83	1/2	3,616.10	1/2	3,304.82	1/2	2,943.72	1/2	2,582.38
3/4		3/4		3/4		3/4	4,437.64	3/4	4,182.00	3/4	3,903.80	3/4	3,609.97	3/4	3,297.29	3/4	2,936.20	3/4	2,574.85
3		3		3		3	4,432.55	3	4,176.42	3	3,897.77	3	3,603.83	3	3,289.76	3	2,928.68	3	2,567.32
1/4		1/4		1/4		1/4	4,427.46	1/4	4,170.84	1/4	3,891.74	1/4	3,597.69	1/4	3,282.23	1/4	2,921.16	1/4	2,559.80
1/2		1/2		1/2		1/2	4,422.36	1/2	4,165.26	1/2	3,885.71	1/2	3,591.55	1/2	3,274.71	1/2	2,913.63	1/2	2,552.27
3/4		3/4		3/4		3/4	4,417.23	3/4	4,159.64	3/4	3,879.65	3/4	3,585.42	3/4	3,267.18	3/4	2,906.11	3/4	2,544.74
4		4		4		4	4,412.10	4	4,154.02	4	3,873.58	4	3,579.28	4	3,259.65	4	2,898.59	4	2,537.21
1/4		1/4		1/4		1/4	4,406.96	1/4	4,148.40	1/4	3,867.51	1/4	3,573.14	1/4	3,252.12	1/4	2,891.07	1/4	2,529.68
1/2		1/2		1/2		1/2	4,401.83	1/2	4,142.79	1/2	3,861.44	1/2	3,567.01	1/2	3,244.59	1/2	2,883.55	1/2	2,522.15
3/4		3/4		3/4		3/4	4,396.66	3/4	4,137.13	3/4	3,855.34	3/4	3,560.87	3/4	3,237.07	3/4	2,876.02	3/4	2,514.62
5		5		5		5	4,391.49	5	4,131.48	5	3,849.24	5	3,554.73	5	3,229.55	5	2,868.49	5	2,507.09
1/4		1/4		1/4		1/4	4,386.32	1/4	4,125.82	1/4	3,843.13	1/4	3,548.59	1/4	3,222.03	1/4	2,860.96	1/4	2,499.56
1/2		1/2		1/2		1/2	4,381.15	1/2	4,120.16	1/2	3,837.03	1/2	3,542.46	1/2	3,214.51	1/2	2,853.43	1/2	2,492.03
3/4		3/4		3/4		3/4	4,375.95	3/4	4,114.47	3/4	3,830.89	3/4	3,536.32	3/4	3,206.99	3/4	2,845.90	3/4	2,484.50
6		6		6		6	4,370.74	6	4,108.78	6	3,824.76	6	3,530.18	6	3,199.47	6	2,838.37	6	2,476.98
1/4		1/4		1/4		1/4	4,365.53	1/4	4,103.09	1/4	3,818.63	1/4	3,524.04	1/4	3,191.94	1/4	2,830.84	1/4	2,469.45
1/2		1/2		1/2		1/2	4,360.33	1/2	4,097.39	1/2	3,812.50	1/2	3,517.91	1/2	3,184.42	1/2	2,823.31	1/2	2,461.92
3/4		3/4		3/4		3/4	4,626.62	3/4	4,355.08	3/4	4,091.66	3/4	3,806.36	3/4	3,511.77	3/4	3,176.90	3/4	2,815.79
7		7		7		7	4,621.27	7	4,349.84	7	4,085.93	7	3,800.23	7	3,505.63	7	3,169.38	7	2,808.26
1/4		1/4		1/4		1/4	4,615.92	1/4	4,344.59	1/4	4,080.20	1/4	3,794.09	1/4	3,499.49	1/4	3,161.86	1/4	2,800.73
1/2		1/2		1/2		1/2	4,610.57	1/2	4,339.35	1/2	4,074.47	1/2	3,787.95	1/2	3,493.36	1/2	3,154.34	1/2	2,793.20
3/4		3/4		3/4		3/4	4,603.85	3/4	4,334.07	3/4	4,068.71	3/4	3,781.81	3/4	3,487.22	3/4	3,146.81	3/4	2,785.67
8		8		8		8	4,597.12	8	4,328.78	8	4,062.94	8	3,775.68	8	3,481.08	8	3,139.29	8	2,778.14
1/4		1/4		1/4		1/4	4,590.40	1/4	4,323.50	1/4	4,057.17	1/4	3,769.54	1/4	3,474.94	1/4	3,131.77	1/4	2,770.61
1/2		1/2		1/2		1/2	4,583.68	1/2	4,318.22	1/2	4,051.40	1/2	3,763.40	1/2	3,468.81	1/2	3,124.25	1/2	2,763.08
3/4		3/4		3/4		3/4	4,576.28	3/4	4,312.90	3/4	4,045.60	3/4	3,757.26	3/4	3,462.67	3/4	3,116.73	3/4	2,755.55
9		9		9		9	4,568.87	9	4,307.58	9	4,039.79	9	3,751.13	9	3,456.53	9	3,109.20	9	2,748.02
1/4		1/4		1/4		1/4	4,561.47	1/4	4,302.26	1/4	4,033.99	1/4	3,744.99	1/4	3,450.39	1/4	3,101.68	1/4	2,740.49
1/2		1/2		1/2		1/2	4,554.06	1/2	4,296.94	1/2	4,028.18	1/2	3,738.85	1/2	3,444.26	1/2	3,094.16	1/2	2,732.97
3/4		3/4		3/4		3/4	4,547.96	3/4	4,291.55	3/4	4,022.34	3/4	3,732.72	3/4	3,438.12	3/4	3,086.64	3/4	2,725.44
10		10		10		10	4,541.86	10	4,286.16	10	4,016.50	10	3,726.58	10	3,431.98	10	3,079.12	10	2,717.91
1/4		1/4		1/4		1/4	4,535.76	1/4	4,280.76	1/4	4,010.65	1/4	3,720.44	1/4	3,425.84	1/4	3,071.59	1/4	2,710.38
1/2		1/2		1/2		1/2	4,529.66	1/2	4,275.37	1/2	4,004.81	1/2	3,714.30	1/2	3,419.71	1/2	3,064.07	1/2	2,702.85
3/4		3/4		3/4		3/4	4,523.56	3/4	4,269.94	3/4	3,998.93	3/4	3,708.17	3/4	3,413.57	3/4	3,056.55	3/4	2,695.32
11		11		11		11	4,517.45	11	4,264.51	11	3,993.05	11	3,702.03	11	3,407.43	11	3,049.03	11	2,687.79
1/4		1/4		1/4		1/4	4,511.35	1/4	4,259.08	1/4	3,987.17	1/4	3,695.89	1/4	3,401.30	1/4	3,041.51	1/4	2,680.26
1/2		1/2		1/2		1/2	4,505.25	1/2	4,253.65	1/2	3,981.29	1/2	3,689.75	1/2	3,395.16	1/2	3,033.99	1/2	2,672.73
3/4		3/4		3/4		3/4	4,499.70	3/4	4,248.18	3/4	3,975.37	3/4	3,683.62	3/4	3,387.63	3/4	3,026.46	3/4	2,665.20
12		12		12		12	4,494.15	12	4,242.71	12	3,969.46	12	3,677.48	12	3,380.10	12	3,018.94	12	2,657.67

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "EMS 385"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,288.75	0	1,927.83	0	1,567.13	0	1,205.89	0	844.86	0	497.08	0	135.92	0		0		0	
1/4	2,281.22	1/4	1,920.33	1/4	1,559.60	1/4	1,198.36	1/4	837.34	1/4	489.83	1/4	128.39	1/4	1/4	1/4		1/4	
1/2	2,273.69	1/2	1,912.82	1/2	1,552.07	1/2	1,190.84	1/2	830.10	1/2	482.30	1/2	120.86	1/2	1/2	1/2		1/2	
3/4	2,266.16	3/4	1,905.32	3/4	1,544.55	3/4	1,183.31	3/4	822.86	3/4	474.77	3/4	113.33	3/4	3/4	3/4		3/4	
1	2,258.63	1	1,897.81	1	1,537.02	1	1,175.78	1	815.62	1	467.24	1	105.80	1	1	1		1	
1/4	2,251.10	1/4	1,890.30	1/4	1,529.50	1/4	1,168.26	1/4	808.38	1/4	459.71	1/4	98.27	1/4	1/4	1/4		1/4	
1/2	2,243.57	1/2	1,882.80	1/2	1,521.97	1/2	1,160.73	1/2	801.15	1/2	452.18	1/2	90.74	1/2	1/2	1/2		1/2	
3/4	2,236.04	3/4	1,875.29	3/4	1,514.45	3/4	1,153.21	3/4	793.91	3/4	444.65	3/4	83.21	3/4	3/4	3/4		3/4	
2	2,228.52	2	1,867.79	2	1,506.92	2	1,145.68	2	786.67	2	437.12	2	75.68	2	2	2		2	
1/4	2,220.99	1/4	1,860.28	1/4	1,499.39	1/4	1,138.16	1/4	779.43	1/4	429.59	1/4	68.15	1/4	1/4	1/4		1/4	
1/2	2,213.46	1/2	1,852.77	1/2	1,491.87	1/2	1,130.63	1/2	772.18	1/2	422.06	1/2	60.89	1/2	1/2	1/2		1/2	
3/4	2,205.93	3/4	1,845.27	3/4	1,484.34	3/4	1,123.10	3/4	764.93	3/4	414.53	3/4	53.63	3/4	3/4	3/4		3/4	
3	2,198.40	3	1,837.76	3	1,476.82	3	1,115.58	3	757.68	3	407.00	3	46.37	3	3	3		3	
1/4	2,190.87	1/4	1,830.26	1/4	1,469.29	1/4	1,108.05	1/4	750.43	1/4	399.47	1/4	39.11	1/4	1/4	1/4		1/4	
1/2	2,183.34	1/2	1,822.75	1/2	1,461.76	1/2	1,100.53	1/2	743.19	1/2	391.94	1/2	33.73	1/2	1/2	1/2		1/2	
3/4	2,175.81	3/4	1,815.24	3/4	1,454.24	3/4	1,093.00	3/4	735.95	3/4	384.41	3/4	28.35	3/4	3/4	3/4		3/4	
4	2,168.28	4	1,807.74	4	1,446.71	4	1,085.47	4	728.71	4	376.88	4	22.97	4	4	4		4	
1/4	2,160.75	1/4	1,800.23	1/4	1,439.19	1/4	1,077.95	1/4	721.48	1/4	369.35	1/4	17.59	1/4	1/4	1/4		1/4	
1/2	2,153.22	1/2	1,792.72	1/2	1,431.66	1/2	1,070.42	1/2	714.24	1/2	361.82	1/2		1/2	1/2	1/2		1/2	
3/4	2,145.70	3/4	1,785.22	3/4	1,424.14	3/4	1,062.90	3/4	707.00	3/4	354.29	3/4		3/4	3/4	3/4		3/4	
5	2,138.17	5	1,777.71	5	1,416.61	5	1,055.37	5	699.76	5	346.76	5		5	5	5		5	
1/4	2,130.64	1/4	1,770.21	1/4	1,409.08	1/4	1,047.85	1/4	692.52	1/4	339.23	1/4		1/4	1/4	1/4		1/4	
1/2	2,123.11	1/2	1,762.70	1/2	1,401.56	1/2	1,040.32	1/2	685.28	1/2	331.70	1/2		1/2	1/2	1/2		1/2	
3/4	2,115.58	3/4	1,755.19	3/4	1,394.03	3/4	1,032.79	3/4	678.04	3/4	324.17	3/4		3/4	3/4	3/4		3/4	
6	2,108.05	6	1,747.69	6	1,386.51	6	1,025.27	6	670.80	6	316.64	6		6	6	6		6	
1/4	2,100.52	1/4	1,740.18	1/4	1,378.98	1/4	1,017.74	1/4	663.56	1/4	309.11	1/4		1/4	1/4	1/4		1/4	
1/2	2,093.00	1/2	1,732.67	1/2	1,371.45	1/2	1,010.23	1/2	656.33	1/2	301.58	1/2		1/2	1/2	1/2		1/2	
3/4	2,085.49	3/4	1,725.15	3/4	1,363.93	3/4	1,002.71	3/4	649.10	3/4	294.05	3/4		3/4	3/4	3/4		3/4	
7	2,077.97	7	1,717.63	7	1,356.40	7	995.19	7	641.86	7	286.52	7		7	7	7		7	
1/4	2,070.45	1/4	1,710.12	1/4	1,348.88	1/4	987.68	1/4	634.63	1/4	278.99	1/4		1/4	1/4	1/4		1/4	
1/2	2,062.94	1/2	1,702.59	1/2	1,341.35	1/2	980.16	1/2	627.39	1/2	271.46	1/2		1/2	1/2	1/2		1/2	
3/4	2,055.44	3/4	1,695.06	3/4	1,333.83	3/4	972.64	3/4	620.16	3/4	263.93	3/4		3/4	3/4	3/4		3/4	
8	2,047.93	8	1,687.54	8	1,326.30	8	965.12	8	612.92	8	256.40	8		8	8	8		8	
1/4	2,040.43	1/4	1,680.01	1/4	1,318.77	1/4	957.61	1/4	605.69	1/4	248.87	1/4		1/4	1/4	1/4		1/4	
1/2	2,032.92	1/2	1,672.49	1/2	1,311.25	1/2	950.09	1/2	598.45	1/2	241.34	1/2		1/2	1/2	1/2		1/2	
3/4	2,025.41	3/4	1,664.96	3/4	1,303.72	3/4	942.57	3/4	591.21	3/4	233.81	3/4		3/4	3/4	3/4		3/4	
9	2,017.91	9	1,657.44	9	1,296.20	9	935.06	9	583.97	9	226.28	9		9	9	9		9	
1/4	2,010.40	1/4	1,649.91	1/4	1,288.67	1/4	927.54	1/4	576.73	1/4	218.75	1/4		1/4	1/4	1/4		1/4	
1/2	2,002.90	1/2	1,642.38	1/2	1,281.15	1/2	920.02	1/2	569.49	1/2	211.22	1/2		1/2	1/2	1/2		1/2	
3/4	1,995.39	3/4	1,634.86	3/4	1,273.62	3/4	912.51	3/4	562.26	3/4	203.69	3/4		3/4	3/4	3/4		3/4	
10	1,987.88	10	1,627.33	10	1,266.09	10	904.99	10	555.02	10	196.16	10		10	10	10		10	
1/4	1,980.38	1/4	1,619.81	1/4	1,258.57	1/4	897.47	1/4	547.78	1/4	188.63	1/4		1/4	1/4	1/4		1/4	
1/2	1,972.87	1/2	1,612.28	1/2	1,251.04	1/2	889.96	1/2	540.54	1/2	181.10	1/2		1/2	1/2	1/2		1/2	
3/4	1,965.36	3/4	1,604.75	3/4	1,243.52	3/4	882.44	3/4	533.30	3/4	173.57	3/4		3/4	3/4	3/4		3/4	
11	1,957.86	11	1,597.23	11	1,235.99	11	874.92	11	526.06	11	166.04	11		11	11	11		11	
1/4	1,950.35	1/4	1,589.70	1/4	1,228.46	1/4	867.41	1/4	518.82	1/4	158.51	1/4		1/4	1/4	1/4		1/4	
1/2	1,942.85	1/2	1,582.18	1/2	1,220.94	1/2	859.89	1/2	511.57	1/2	150.98	1/2		1/2	1/2	1/2		1/2	
3/4	1,935.34	3/4	1,574.65	3/4	1,213.41	3/4	852.37	3/4	504.33	3/4	143.45	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 385"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,256.40	0	1,897.33	0	1,538.18	0	1,177.34	0	817.17	0	466.69	0	105.72	0		0		0	
1/4	2,248.88	1/4	1,889.88	1/4	1,530.67	1/4	1,169.83	1/4	809.87	1/4	459.17	1/4	98.20	1/4	1/4	1/4		1/4	
1/2	2,241.36	1/2	1,882.44	1/2	1,523.15	1/2	1,162.31	1/2	802.58	1/2	451.65	1/2	90.68	1/2	1/2	1/2		1/2	
3/4	2,233.84	3/4	1,874.99	3/4	1,515.63	3/4	1,154.79	3/4	795.28	3/4	444.13	3/4	83.16	3/4	3/4	3/4		3/4	
1	2,226.32	1	1,867.55	1	1,508.11	1	1,147.27	1	787.99	1	436.61	1	75.64	1	1	1		1	
1/4	2,218.80	1/4	1,860.11	1/4	1,500.60	1/4	1,139.76	1/4	780.69	1/4	429.09	1/4	68.12	1/4	1/4	1/4		1/4	
1/2	2,211.27	1/2	1,852.66	1/2	1,493.08	1/2	1,132.24	1/2	773.40	1/2	421.57	1/2	60.87	1/2	1/2	1/2		1/2	
3/4	2,203.75	3/4	1,845.22	3/4	1,485.56	3/4	1,124.72	3/4	766.10	3/4	414.05	3/4	53.62	3/4	3/4	3/4		3/4	
2	2,196.23	2	1,837.78	2	1,478.04	2	1,117.20	2	758.81	2	406.53	2	46.37	2	2	2		2	
1/4	2,188.71	1/4	1,830.33	1/4	1,470.53	1/4	1,109.69	1/4	751.51	1/4	399.01	1/4	39.11	1/4	1/4	1/4		1/4	
1/2	2,181.19	1/2	1,822.89	1/2	1,463.01	1/2	1,102.17	1/2	744.23	1/2	391.49	1/2	33.74	1/2	1/2	1/2		1/2	
3/4	2,173.67	3/4	1,815.45	3/4	1,455.49	3/4	1,094.65	3/4	736.94	3/4	383.97	3/4	28.36	3/4	3/4	3/4		3/4	
3	2,166.15	3	1,808.00	3	1,447.97	3	1,087.13	3	729.66	3	376.45	3	22.98	3	3	3		3	
1/4	2,158.63	1/4	1,800.56	1/4	1,440.46	1/4	1,079.62	1/4	722.37	1/4	368.93	1/4	17.60	1/4	1/4	1/4		1/4	
1/2	2,151.11	1/2	1,793.11	1/2	1,432.94	1/2	1,072.10	1/2	715.09	1/2	361.41	1/2		1/2	1/2	1/2		1/2	
3/4	2,143.59	3/4	1,785.67	3/4	1,425.42	3/4	1,064.58	3/4	707.80	3/4	353.89	3/4		3/4	3/4	3/4		3/4	
4	2,136.07	4	1,778.23	4	1,417.90	4	1,057.06	4	700.52	4	346.37	4	4	4	4	4		4	
1/4	2,128.55	1/4	1,770.78	1/4	1,410.39	1/4	1,049.55	1/4	693.23	1/4	338.85	1/4		1/4	1/4	1/4		1/4	
1/2	2,121.02	1/2	1,763.34	1/2	1,402.87	1/2	1,042.03	1/2	685.95	1/2	331.33	1/2		1/2	1/2	1/2		1/2	
3/4	2,113.50	3/4	1,755.90	3/4	1,395.35	3/4	1,034.51	3/4	678.66	3/4	323.81	3/4		3/4	3/4	3/4		3/4	
5	2,105.98	5	1,748.45	5	1,387.83	5	1,026.99	5	671.38	5	316.29	5	5	5	5	5		5	
1/4	2,098.46	1/4	1,741.01	1/4	1,380.32	1/4	1,019.48	1/4	664.09	1/4	308.77	1/4		1/4	1/4	1/4		1/4	
1/2	2,090.98	1/2	1,733.53	1/2	1,372.80	1/2	1,011.96	1/2	656.81	1/2	301.24	1/2		1/2	1/2	1/2		1/2	
3/4	2,083.50	3/4	1,726.05	3/4	1,365.28	3/4	1,004.44	3/4	649.53	3/4	293.72	3/4		3/4	3/4	3/4		3/4	
6	2,076.01	6	1,718.57	6	1,357.76	6	996.92	6	642.25	6	286.20	6	6	6	6	6		6	
1/4	2,068.53	1/4	1,711.09	1/4	1,350.25	1/4	989.41	1/4	634.97	1/4	278.68	1/4		1/4	1/4	1/4		1/4	
1/2	2,061.09	1/2	1,703.57	1/2	1,342.73	1/2	981.89	1/2	627.69	1/2	271.16	1/2		1/2	1/2	1/2		1/2	
3/4	2,053.64	3/4	1,696.05	3/4	1,335.21	3/4	974.37	3/4	620.41	3/4	263.64	3/4		3/4	3/4	3/4		3/4	
7	2,046.20	7	1,688.53	7	1,327.69	7	966.85	7	613.13	7	256.12	7	7	7	7	7		7	
1/4	2,038.76	1/4	1,681.02	1/4	1,320.18	1/4	959.34	1/4	605.85	1/4	248.60	1/4		1/4	1/4	1/4		1/4	
1/2	2,031.31	1/2	1,673.50	1/2	1,312.66	1/2	951.82	1/2	598.56	1/2	241.08	1/2		1/2	1/2	1/2		1/2	
3/4	2,023.87	3/4	1,665.98	3/4	1,305.14	3/4	944.30	3/4	591.28	3/4	233.56	3/4		3/4	3/4	3/4		3/4	
8	2,016.43	8	1,658.46	8	1,297.62	8	936.78	8	583.99	8	226.04	8	8	8	8	8		8	
1/4	2,008.98	1/4	1,650.95	1/4	1,290.11	1/4	929.27	1/4	576.71	1/4	218.52	1/4		1/4	1/4	1/4		1/4	
1/2	2,001.54	1/2	1,643.43	1/2	1,282.59	1/2	921.75	1/2	569.42	1/2	211.00	1/2		1/2	1/2	1/2		1/2	
3/4	1,994.09	3/4	1,635.91	3/4	1,275.07	3/4	914.23	3/4	562.14	3/4	203.48	3/4		3/4	3/4	3/4		3/4	
9	1,986.65	9	1,628.39	9	1,267.55	9	906.71	9	554.85	9	195.96	9	9	9	9	9		9	
1/4	1,979.21	1/4	1,620.88	1/4	1,260.04	1/4	899.20	1/4	547.57	1/4	188.44	1/4		1/4	1/4	1/4		1/4	
1/2	1,971.76	1/2	1,613.36	1/2	1,252.52	1/2	891.68	1/2	540.28	1/2	180.92	1/2		1/2	1/2	1/2		1/2	
3/4	1,964.32	3/4	1,605.84	3/4	1,245.00	3/4	884.16	3/4	533.00	3/4	173.40	3/4		3/4	3/4	3/4		3/4	
10	1,956.88	10	1,598.32	10	1,237.48	10	876.64	10	525.71	10	165.88	10	10	10	10	10		10	
1/4	1,949.43	1/4	1,590.81	1/4	1,229.97	1/4	869.13	1/4	518.43	1/4	158.36	1/4		1/4	1/4	1/4		1/4	
1/2	1,941.99	1/2	1,583.29	1/2	1,222.45	1/2	861.61	1/2	511.13	1/2	150.84	1/2		1/2	1/2	1/2		1/2	
3/4	1,934.54	3/4	1,575.77	3/4	1,214.93	3/4	854.09	3/4	503.84	3/4	143.32	3/4		3/4	3/4	3/4		3/4	
11	1,927.10	11	1,568.25	11	1,207.41	11	846.57	11	496.54	11	135.80	11	11	11	11	11		11	
1/4	1,919.66	1/4	1,560.74	1/4	1,199.90	1/4	839.06	1/4	489.25	1/4	128.28	1/4		1/4	1/4	1/4		1/4	
1/2	1,912.21	1/2	1,553.22	1/2	1,192.38	1/2	831.76	1/2	481.73	1/2	120.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,904.77	3/4	1,545.70	3/4	1,184.86	3/4	824.47	3/4	474.21	3/4	113.24	3/4		3/4	3/4	3/4		3/4	

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