



BARGE "HFL 425"

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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

August 12, 2013

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 425"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	207,284	0	192,361	0	177,383	0	162,368	0	147,347	0	132,326	0	117,304	0	102,281
1/4	1/4	1/4	1/4	1/4	206,978	1/4	192,049	1/4	177,071	1/4	162,055	1/4	147,034	1/4	132,013	1/4	116,992	1/4	101,968
1/2	1/2	1/2	1/2	1/2	206,669	1/2	191,737	1/2	176,759	1/2	161,742	1/2	146,721	1/2	131,700	1/2	116,679	1/2	101,655
3/4	3/4	3/4	3/4	3/4	206,359	3/4	191,424	3/4	176,447	3/4	161,429	3/4	146,408	3/4	131,387	3/4	116,366	3/4	101,342
1		1		1	206,050	1	191,112	1	176,135	1	161,116	1	146,095	1	131,074	1	116,053	1	101,029
1/4	1/4	1/4	1/4	1/4	205,740	1/4	190,800	1/4	175,823	1/4	160,804	1/4	145,782	1/4	130,761	1/4	115,740	1/4	100,716
1/2	1/2	1/2	1/2	1/2	205,430	1/2	190,488	1/2	175,511	1/2	160,491	1/2	145,469	1/2	130,448	1/2	115,427	1/2	100,402
3/4	3/4	3/4	3/4	3/4	205,120	3/4	190,176	3/4	175,198	3/4	160,178	3/4	145,156	3/4	130,135	3/4	115,114	3/4	100,089
2		2		2	204,811	2	189,864	2	174,886	2	159,865	2	144,843	2	129,822	2	114,801	2	99,776
1/4	1/4	1/4	1/4	1/4	204,501	1/4	189,552	1/4	174,573	1/4	159,552	1/4	144,531	1/4	129,509	1/4	114,488	1/4	99,463
1/2	1/2	1/2	1/2	1/2	204,191	1/2	189,240	1/2	174,260	1/2	159,239	1/2	144,218	1/2	129,196	1/2	114,175	1/2	99,150
3/4	3/4	3/4	3/4	3/4	203,881	3/4	188,928	3/4	173,947	3/4	158,926	3/4	143,905	3/4	128,883	3/4	113,862	3/4	98,837
3		3		3	203,571	3	188,616	3	173,634	3	158,613	3	143,592	3	128,570	3	113,549	3	98,524
1/4	1/4	1/4	1/4	1/4	203,260	1/4	188,304	1/4	173,321	1/4	158,300	1/4	143,279	1/4	128,257	1/4	113,236	1/4	98,211
1/2	1/2	1/2	1/2	1/2	202,951	1/2	187,992	1/2	173,008	1/2	157,987	1/2	142,966	1/2	127,945	1/2	112,923	1/2	97,898
3/4	3/4	3/4	3/4	3/4	202,641	3/4	187,680	3/4	172,695	3/4	157,674	3/4	142,653	3/4	127,632	3/4	112,610	3/4	97,585
4		4		4	202,331	4	187,368	4	172,382	4	157,361	4	142,340	4	127,319	4	112,297	4	97,272
1/4	1/4	1/4	1/4	1/4	202,021	1/4	187,056	1/4	172,070	1/4	157,048	1/4	142,027	1/4	127,006	1/4	111,984	1/4	96,959
1/2	1/2	1/2	1/2	1/2	201,711	1/2	186,744	1/2	171,757	1/2	156,735	1/2	141,714	1/2	126,693	1/2	111,672	1/2	96,645
3/4	3/4	3/4	3/4	3/4	201,401	3/4	186,432	3/4	171,444	3/4	156,422	3/4	141,401	3/4	126,380	3/4	111,359	3/4	96,332
5		5		5	201,091	5	186,120	5	171,131	5	156,109	5	141,088	5	126,067	5	111,046	5	96,019
1/4	1/4	1/4	1/4	1/4	200,781	1/4	185,808	1/4	170,818	1/4	155,796	1/4	140,775	1/4	125,754	1/4	110,733	1/4	95,706
1/2	1/2	1/2	1/2	1/2	200,470	1/2	185,496	1/2	170,505	1/2	155,484	1/2	140,462	1/2	125,441	1/2	110,420	1/2	95,393
3/4	3/4	3/4	3/4	3/4	200,159	3/4	185,184	3/4	170,192	3/4	155,171	3/4	140,149	3/4	125,128	3/4	110,107	3/4	95,080
6		6		6	199,848	6	184,872	6	169,879	6	154,858	6	139,836	6	124,815	6	109,794	6	94,767
1/4	1/4	1/4	1/4	1/4	199,537	1/4	184,560	1/4	169,566	1/4	154,545	1/4	139,523	1/4	124,502	1/4	109,481	1/4	94,454
1/2	1/2	1/2	1/2	1/2	199,225	1/2	184,248	1/2	169,253	1/2	154,232	1/2	139,210	1/2	124,189	1/2	109,168	1/2	94,141
3/4	3/4	3/4	3/4	3/4	198,913	3/4	183,936	3/4	168,940	3/4	153,919	3/4	138,898	3/4	123,876	3/4	108,855	3/4	93,828
7		7		7	198,601	7	183,624	7	168,627	7	153,606	7	138,585	7	123,563	7	108,542	7	93,515
1/4	1/4	1/4	1/4	1/4	198,289	1/4	183,312	1/4	168,314	1/4	153,293	1/4	138,272	1/4	123,250	1/4	108,229	1/4	93,202
1/2	1/2	1/2	1/2	1/2	197,977	1/2	183,000	1/2	168,001	1/2	152,980	1/2	137,959	1/2	122,937	1/2	107,916	1/2	92,889
3/4	3/4	3/4	3/4	3/4	197,665	3/4	182,688	3/4	167,688	3/4	152,667	3/4	137,646	3/4	122,625	3/4	107,603	3/4	92,575
8		8		8	197,353	8	182,376	8	167,375	8	152,354	8	137,333	8	122,312	8	107,290	8	92,262
1/4	1/4	210,968	1/4	197,041	1/4	182,064	1/4	167,062	1/4	152,041	1/4	137,020	1/4	121,999	1/4	106,977	1/4	91,949	
1/2	1/2	210,788	1/2	196,729	1/2	181,752	1/2	166,749	1/2	151,728	1/2	136,707	1/2	121,686	1/2	106,664	1/2	91,636	
3/4	3/4	210,609	3/4	196,417	3/4	181,440	3/4	166,437	3/4	151,415	3/4	136,394	3/4	121,373	3/4	106,351	3/4	91,323	
9		9	210,429	9	196,105	9	181,127	9	166,124	9	151,102	9	136,081	9	121,060	9	106,038	9	91,010
1/4	1/4	210,249	1/4	195,793	1/4	180,815	1/4	165,811	1/4	150,789	1/4	135,768	1/4	120,747	1/4	105,725	1/4	90,697	
1/2	1/2	210,018	1/2	195,481	1/2	180,503	1/2	165,498	1/2	150,476	1/2	135,455	1/2	120,434	1/2	105,412	1/2	90,384	
3/4	3/4	209,786	3/4	195,169	3/4	180,191	3/4	165,185	3/4	150,163	3/4	135,142	3/4	120,121	3/4	105,099	3/4	90,071	
10		10	209,554	10	194,857	10	179,879	10	164,872	10	149,851	10	134,829	10	119,808	10	104,786	10	89,758
1/4	1/4	209,322	1/4	194,545	1/4	179,567	1/4	164,559	1/4	149,538	1/4	134,516	1/4	119,495	1/4	104,472	1/4	89,445	
1/2	1/2	209,042	1/2	194,233	1/2	179,255	1/2	164,246	1/2	149,225	1/2	134,203	1/2	119,182	1/2	104,159	1/2	89,132	
3/4	3/4	208,762	3/4	193,921	3/4	178,943	3/4	163,933	3/4	148,912	3/4	133,890	3/4	118,869	3/4	103,846	3/4	88,819	
11		11	208,482	11	193,609	11	178,631	11	163,620	11	148,599	11	133,578	11	118,556	11	103,533	11	88,505
1/4	1/4	208,202	1/4	193,297	1/4	178,319	1/4	163,307	1/4	148,286	1/4	133,265	1/4	118,243	1/4	103,220	1/4	88,192	
1/2	1/2	207,896	1/2	192,985	1/2	178,007	1/2	162,994	1/2	147,973	1/2	132,952	1/2	117,930	1/2	102,907	1/2	87,879	
3/4	3/4	207,590	3/4	192,673	3/4	177,695	3/4	162,681	3/4	147,660	3/4	132,639	3/4	117,617	3/4	102,594	3/4	87,566	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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BARGE "HFL 425"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	87,253	0	72,225	0	57,247	0	42,275	0	27,247	0	12,363	0		0		0		0	
1/4	86,940	1/4	71,912	1/4	56,937	1/4	41,962	1/4	26,934	1/4	12,065	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	86,627	1/2	71,599	1/2	56,626	1/2	41,649	1/2	26,621	1/2	11,771	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,314	3/4	71,286	3/4	56,315	3/4	41,336	3/4	26,308	3/4	11,477	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	86,001	1	70,973	1	56,005	1	41,022	1	25,995	1	11,184	1	1	1	1	1	1	1	1
1/4	85,688	1/4	70,660	1/4	55,694	1/4	40,709	1/4	25,682	1/4	10,890	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,375	1/2	70,347	1/2	55,383	1/2	40,396	1/2	25,369	1/2	10,600	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,062	3/4	70,034	3/4	55,073	3/4	40,083	3/4	25,056	3/4	10,310	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	84,749	2	69,721	2	54,762	2	39,770	2	24,743	2	10,020	2	2	2	2	2	2	2	2
1/4	84,435	1/4	69,408	1/4	54,451	1/4	39,457	1/4	24,430	1/4	9,730	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,122	1/2	69,095	1/2	54,140	1/2	39,144	1/2	24,117	1/2	9,444	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,809	3/4	68,782	3/4	53,830	3/4	38,831	3/4	23,804	3/4	9,158	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	83,496	3	68,468	3	53,519	3	38,518	3	23,491	3	8,872	3	3	3	3	3	3	3	3
1/4	83,183	1/4	68,155	1/4	53,208	1/4	38,205	1/4	23,177	1/4	8,586	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,870	1/2	67,842	1/2	52,897	1/2	37,892	1/2	22,864	1/2	8,303	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,557	3/4	67,529	3/4	52,586	3/4	37,579	3/4	22,551	3/4	8,021	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	82,244	4	67,216	4	52,275	4	37,266	4	22,238	4	7,739	4	4	4	4	4	4	4	4
1/4	81,931	1/4	66,903	1/4	51,965	1/4	36,953	1/4	21,925	1/4	7,457	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,618	1/2	66,590	1/2	51,653	1/2	36,639	1/2	21,612	1/2	7,178	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,305	3/4	66,277	3/4	51,342	3/4	36,326	3/4	21,299	3/4	6,900	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	80,992	5	65,964	5	51,030	5	36,013	5	20,986	5	6,622	5	5	5	5	5	5	5	5
1/4	80,678	1/4	65,651	1/4	50,719	1/4	35,700	1/4	20,673	1/4	6,343	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,365	1/2	65,338	1/2	50,407	1/2	35,387	1/2	20,360	1/2	6,069	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,052	3/4	65,025	3/4	50,096	3/4	35,074	3/4	20,047	3/4	5,794	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	79,739	6	64,712	6	49,784	6	34,761	6	19,734	6	5,520	6	6	6	6	6	6	6	6
1/4	79,426	1/4	64,399	1/4	49,472	1/4	34,448	1/4	19,421	1/4	5,245	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,113	1/2	64,087	1/2	49,160	1/2	34,135	1/2	19,108	1/2	4,974	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,800	3/4	63,775	3/4	48,848	3/4	33,822	3/4	18,795	3/4	4,704	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	78,487	7	63,464	7	48,535	7	33,509	7	18,481	7	4,433	7	7	7	7	7	7	7	7
1/4	78,174	1/4	63,152	1/4	48,223	1/4	33,196	1/4	18,168	1/4	4,162	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,861	1/2	62,841	1/2	47,910	1/2	32,883	1/2	17,856	1/2	3,896	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,548	3/4	62,530	3/4	47,597	3/4	32,570	3/4	17,544	3/4	3,629	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	77,235	8	62,219	8	47,284	8	32,257	8	17,232	8	3,363	8	8	8	8	8	8	8	8
1/4	76,922	1/4	61,908	1/4	46,971	1/4	31,943	1/4	16,920	1/4	3,096	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,608	1/2	61,598	1/2	46,658	1/2	31,630	1/2	16,611	1/2	2,834	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,295	3/4	61,287	3/4	46,345	3/4	31,317	3/4	16,302	3/4	2,572	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	75,982	9	60,976	9	46,032	9	31,004	9	15,992	9	2,310	9	9	9	9	9	9	9	9
1/4	75,669	1/4	60,665	1/4	45,718	1/4	30,691	1/4	15,683	1/4	2,048	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,356	1/2	60,355	1/2	45,405	1/2	30,378	1/2	15,378	1/2	1,810	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,043	3/4	60,044	3/4	45,092	3/4	30,065	3/4	15,072	3/4	1,571	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	74,730	10	59,733	10	44,779	10	29,752	10	14,767	10	1,332	10	10	10	10	10	10	10	10
1/4	74,417	1/4	59,422	1/4	44,466	1/4	29,439	1/4	14,462	1/4	1,093	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,104	1/2	59,112	1/2	44,153	1/2	29,126	1/2	14,160	1/2	916	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,791	3/4	58,801	3/4	43,840	3/4	28,813	3/4	13,859	3/4	739	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	73,478	11	58,490	11	43,527	11	28,500	11	13,557	11	562	11	11	11	11	11	11	11	11
1/4	73,165	1/4	58,180	1/4	43,214	1/4	28,187	1/4	13,256	1/4	385	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,852	1/2	57,869	1/2	42,901	1/2	27,874	1/2	12,958	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,538	3/4	57,558	3/4	42,588	3/4	27,560	3/4	12,660	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.

STRAPPED: 08/12/2013 CL - SW
CALCULATED: 08/12/2013 CL
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HFL 425"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	207,479	0	192,549	0	177,564	0	162,542	0	147,513	0	132,485	0	117,457	0	102,426		
1/4	1/4	1/4	1/4	1/4	207,173	1/4	192,236	1/4	177,252	1/4	162,229	1/4	147,200	1/4	132,172	1/4	117,143	1/4	102,113		
1/2	1/2	1/2	1/2	1/2	206,864	1/2	191,924	1/2	176,940	1/2	161,916	1/2	146,887	1/2	131,859	1/2	116,830	1/2	101,800		
3/4	3/4	3/4	3/4	3/4	206,554	3/4	191,612	3/4	176,627	3/4	161,602	3/4	146,574	3/4	131,546	3/4	116,517	3/4	101,486		
1		1		1	206,244	1	191,300	1	176,315	1	161,289	1	146,261	1	131,232	1	116,204	1	101,173		
1/4	1/4	1/4	1/4	1/4	205,935	1/4	190,988	1/4	176,003	1/4	160,976	1/4	145,948	1/4	130,919	1/4	115,891	1/4	100,860		
1/2	1/2	1/2	1/2	1/2	205,625	1/2	190,675	1/2	175,690	1/2	160,663	1/2	145,635	1/2	130,606	1/2	115,578	1/2	100,547		
3/4	3/4	3/4	3/4	3/4	205,315	3/4	190,363	3/4	175,378	3/4	160,350	3/4	145,322	3/4	130,293	3/4	115,265	3/4	100,233		
2		2		2	205,005	2	190,051	2	175,065	2	160,037	2	145,008	2	129,980	2	114,952	2	99,920		
1/4	1/4	1/4	1/4	1/4	204,694	1/4	189,739	1/4	174,752	1/4	159,724	1/4	144,695	1/4	129,667	1/4	114,639	1/4	99,607		
1/2	1/2	1/2	1/2	1/2	204,384	1/2	189,427	1/2	174,439	1/2	159,411	1/2	144,382	1/2	129,354	1/2	114,326	1/2	99,294		
3/4	3/4	3/4	3/4	3/4	204,074	3/4	189,115	3/4	174,126	3/4	159,098	3/4	144,069	3/4	129,041	3/4	114,013	3/4	98,981		
3		3		3	203,764	3	188,802	3	173,813	3	158,785	3	143,756	3	128,728	3	113,699	3	98,667		
1/4	1/4	1/4	1/4	1/4	203,454	1/4	188,490	1/4	173,500	1/4	158,472	1/4	143,443	1/4	128,415	1/4	113,386	1/4	98,354		
1/2	1/2	1/2	1/2	1/2	203,144	1/2	188,178	1/2	173,187	1/2	158,158	1/2	143,130	1/2	128,102	1/2	113,073	1/2	98,041		
3/4	3/4	3/4	3/4	3/4	202,834	3/4	187,866	3/4	172,874	3/4	157,845	3/4	142,817	3/4	127,788	3/4	112,760	3/4	97,728		
4		4		4	202,523	4	187,554	4	172,561	4	157,532	4	142,504	4	127,475	4	112,447	4	97,414		
1/4	1/4	1/4	1/4	1/4	202,213	1/4	187,241	1/4	172,248	1/4	157,219	1/4	142,191	1/4	127,162	1/4	112,134	1/4	97,101		
1/2	1/2	1/2	1/2	1/2	201,903	1/2	186,929	1/2	171,935	1/2	156,906	1/2	141,878	1/2	126,849	1/2	111,821	1/2	96,788		
3/4	3/4	3/4	3/4	3/4	201,593	3/4	186,617	3/4	171,622	3/4	156,593	3/4	141,564	3/4	126,536	3/4	111,508	3/4	96,475		
5		5		5	201,283	5	186,305	5	171,308	5	156,280	5	141,251	5	126,223	5	111,195	5	96,161		
1/4	1/4	1/4	1/4	1/4	200,973	1/4	185,993	1/4	170,995	1/4	155,967	1/4	140,938	1/4	125,910	1/4	110,882	1/4	95,848		
1/2	1/2	1/2	1/2	1/2	200,662	1/2	185,681	1/2	170,682	1/2	155,654	1/2	140,625	1/2	125,597	1/2	110,569	1/2	95,535		
3/4	3/4	3/4	3/4	3/4	200,351	3/4	185,368	3/4	170,369	3/4	155,341	3/4	140,312	3/4	125,284	3/4	110,255	3/4	95,222		
6		6		6	200,040	6	185,056	6	170,056	6	155,028	6	139,999	6	124,971	6	109,942	6	94,909		
1/4	1/4	1/4	1/4	1/4	199,729	1/4	184,744	1/4	169,743	1/4	154,714	1/4	139,686	1/4	124,658	1/4	109,629	1/4	94,595		
1/2	1/2	1/2	1/2	1/2	199,417	1/2	184,432	1/2	169,430	1/2	154,401	1/2	139,373	1/2	124,344	1/2	109,316	1/2	94,282		
3/4	3/4	3/4	3/4	3/4	199,104	3/4	184,120	3/4	169,117	3/4	154,088	3/4	139,060	3/4	124,031	3/4	109,003	3/4	93,969		
7		7		7	198,792	7	183,808	7	168,804	7	153,775	7	138,747	7	123,718	7	108,690	7	93,656		
1/4	1/4	1/4	1/4	1/4	198,480	1/4	183,495	1/4	168,491	1/4	153,462	1/4	138,434	1/4	123,405	1/4	108,377	1/4	93,342		
1/2	1/2	1/2	1/2	1/2	198,168	1/2	183,183	1/2	168,177	1/2	153,149	1/2	138,120	1/2	123,092	1/2	108,064	1/2	93,029		
3/4	3/4	3/4	3/4	3/4	197,856	3/4	182,871	3/4	167,864	3/4	152,836	3/4	137,807	3/4	122,779	3/4	107,751	3/4	92,716		
8		8		8	197,543	8	182,559	8	167,551	8	152,523	8	137,494	8	122,466	8	107,437	8	92,403		
1/4	1/4	211,165	1/4	197,231	1/4	182,247	1/4	167,238	1/4	152,210	1/4	137,181	1/4	122,153	1/4	107,124	1/4	92,090			
1/2	1/2	210,985	1/2	196,919	1/2	181,934	1/2	166,925	1/2	151,897	1/2	136,868	1/2	121,840	1/2	106,811	1/2	91,776			
3/4	3/4	210,805	3/4	196,607	3/4	181,622	3/4	166,612	3/4	151,583	3/4	136,555	3/4	121,527	3/4	106,498	3/4	91,463			
9		9		9	210,626	9	196,295	9	181,310	9	166,299	9	151,270	9	136,242	9	121,214	9	106,185	9	91,150
1/4	1/4	210,446	1/4	195,983	1/4	180,998	1/4	165,986	1/4	150,957	1/4	135,929	1/4	120,901	1/4	105,871	1/4	90,837			
1/2	1/2	210,214	1/2	195,670	1/2	180,686	1/2	165,673	1/2	150,644	1/2	135,616	1/2	120,587	1/2	105,558	1/2	90,523			
3/4	3/4	209,982	3/4	195,358	3/4	180,374	3/4	165,360	3/4	150,331	3/4	135,303	3/4	120,274	3/4	105,245	3/4	90,210			
10		10		10	209,750	10	195,046	10	180,061	10	165,047	10	150,018	10	134,990	10	119,961	10	104,932	10	89,897
1/4	1/4	209,519	1/4	194,734	1/4	179,749	1/4	164,733	1/4	149,705	1/4	134,676	1/4	119,648	1/4	104,619	1/4	89,584			
1/2	1/2	209,238	1/2	194,422	1/2	179,437	1/2	164,420	1/2	149,392	1/2	134,363	1/2	119,335	1/2	104,305	1/2	89,271			
3/4	3/4	208,958	3/4	194,109	3/4	179,125	3/4	164,107	3/4	149,079	3/4	134,050	3/4	119,022	3/4	103,992	3/4	88,957			
11		11		11	208,678	11	193,797	11	178,813	11	163,794	11	148,766	11	133,737	11	118,709	11	103,679	11	88,644
1/4	1/4	208,397	1/4	193,485	1/4	178,500	1/4	163,481	1/4	148,453	1/4	133,424	1/4	118,396	1/4	103,366	1/4	88,331			
1/2	1/2	208,091	1/2	193,173	1/2	178,188	1/2	163,168	1/2	148,139	1/2	133,111	1/2	118,083	1/2	103,052	1/2	88,018			
3/4	3/4	207,785	3/4	192,861	3/4	177,876	3/4	162,855	3/4	147,826	3/4	132,798	3/4	117,770	3/4	102,739	3/4	87,704			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 425"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	87,391	0	72,356	0	57,325	0	42,295	0	27,260	0	12,369	0		0		0		0	
1/4	87,078	1/4	72,043	1/4	57,012	1/4	41,981	1/4	26,947	1/4	12,071	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	86,765	1/2	71,730	1/2	56,699	1/2	41,668	1/2	26,634	1/2	11,777	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,452	3/4	71,417	3/4	56,386	3/4	41,355	3/4	26,321	3/4	11,483	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	86,138	1	71,104	1	56,073	1	41,042	1	26,007	1	11,189	1	1	1	1	1	1	1	1
1/4	85,825	1/4	70,790	1/4	55,760	1/4	40,728	1/4	25,694	1/4	10,895	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,512	1/2	70,477	1/2	55,447	1/2	40,415	1/2	25,381	1/2	10,605	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,199	3/4	70,164	3/4	55,134	3/4	40,102	3/4	25,068	3/4	10,315	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	84,885	2	69,851	2	54,821	2	39,789	2	24,754	2	10,025	2	2	2	2	2	2	2	2
1/4	84,572	1/4	69,537	1/4	54,508	1/4	39,476	1/4	24,441	1/4	9,735	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,259	1/2	69,224	1/2	54,195	1/2	39,162	1/2	24,128	1/2	9,448	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,946	3/4	68,911	3/4	53,882	3/4	38,849	3/4	23,815	3/4	9,162	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	83,633	3	68,598	3	53,569	3	38,536	3	23,502	3	8,876	3	3	3	3	3	3	3	3
1/4	83,319	1/4	68,285	1/4	53,256	1/4	38,223	1/4	23,188	1/4	8,590	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,006	1/2	67,971	1/2	52,943	1/2	37,910	1/2	22,875	1/2	8,307	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,693	3/4	67,658	3/4	52,630	3/4	37,596	3/4	22,562	3/4	8,025	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	82,380	4	67,345	4	52,317	4	37,283	4	22,249	4	7,743	4	4	4	4	4	4	4	4
1/4	82,066	1/4	67,032	1/4	52,004	1/4	36,970	1/4	21,936	1/4	7,460	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,753	1/2	66,718	1/2	51,691	1/2	36,657	1/2	21,622	1/2	7,182	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,440	3/4	66,405	3/4	51,378	3/4	36,343	3/4	21,309	3/4	6,903	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	81,127	5	66,092	5	51,064	5	36,030	5	20,996	5	6,625	5	5	5	5	5	5	5	5
1/4	80,813	1/4	65,779	1/4	50,751	1/4	35,717	1/4	20,683	1/4	6,346	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,500	1/2	65,465	1/2	50,438	1/2	35,404	1/2	20,369	1/2	6,072	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,187	3/4	65,152	3/4	50,125	3/4	35,091	3/4	20,056	3/4	5,797	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	79,874	6	64,839	6	49,812	6	34,777	6	19,743	6	5,522	6	6	6	6	6	6	6	6
1/4	79,561	1/4	64,526	1/4	49,498	1/4	34,464	1/4	19,430	1/4	5,248	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,247	1/2	64,213	1/2	49,185	1/2	34,151	1/2	19,117	1/2	4,977	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,934	3/4	63,899	3/4	48,872	3/4	33,838	3/4	18,803	3/4	4,706	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	78,621	7	63,586	7	48,559	7	33,525	7	18,490	7	4,435	7	7	7	7	7	7	7	7
1/4	78,308	1/4	63,273	1/4	48,246	1/4	33,211	1/4	18,177	1/4	4,165	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,994	1/2	62,960	1/2	47,932	1/2	32,898	1/2	17,865	1/2	3,898	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,681	3/4	62,647	3/4	47,619	3/4	32,585	3/4	17,552	3/4	3,631	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	77,368	8	62,333	8	47,306	8	32,272	8	17,240	8	3,364	8	8	8	8	8	8	8	8
1/4	77,055	1/4	62,020	1/4	46,993	1/4	31,958	1/4	16,928	1/4	3,098	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,742	1/2	61,707	1/2	46,680	1/2	31,645	1/2	16,615	1/2	2,836	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,428	3/4	61,394	3/4	46,366	3/4	31,332	3/4	16,309	3/4	2,574	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	76,115	9	61,081	9	46,053	9	31,019	9	16,000	9	2,311	9	9	9	9	9	9	9	9
1/4	75,802	1/4	60,768	1/4	45,740	1/4	30,706	1/4	15,691	1/4	2,049	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,489	1/2	60,455	1/2	45,427	1/2	30,392	1/2	15,385	1/2	1,810	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,175	3/4	60,142	3/4	45,113	3/4	30,079	3/4	15,080	3/4	1,572	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	74,862	10	59,829	10	44,800	10	29,766	10	14,774	10	1,333	10	10	10	10	10	10	10	10
1/4	74,549	1/4	59,516	1/4	44,487	1/4	29,453	1/4	14,469	1/4	1,094	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,236	1/2	59,203	1/2	44,174	1/2	29,140	1/2	14,167	1/2	917	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,923	3/4	58,890	3/4	43,861	3/4	28,826	3/4	13,865	3/4	740	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	73,609	11	58,577	11	43,547	11	28,513	11	13,564	11	563	11	11	11	11	11	11	11	11
1/4	73,296	1/4	58,264	1/4	43,234	1/4	28,200	1/4	13,262	1/4	386	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,983	1/2	57,951	1/2	42,921	1/2	27,887	1/2	12,964	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,670	3/4	57,638	3/4	42,608	3/4	27,573	3/4	12,666	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.

STRAPPED: 08/12/2013 CL - SW
CALCULATED: 08/12/2013 CL
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HFL 425"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	209,489	0	194,537	0	179,509	0	164,438	0	149,360	0	134,281	0	119,203	0	104,121		
1/4	1/4	1/4	1/4	1/4	209,183	1/4	194,224	1/4	179,196	1/4	164,124	1/4	149,046	1/4	133,967	1/4	118,889	1/4	103,807		
1/2	1/2	1/2	1/2	1/2	208,873	1/2	193,911	1/2	178,883	1/2	163,810	1/2	148,731	1/2	133,653	1/2	118,574	1/2	103,493		
3/4	3/4	3/4	3/4	3/4	208,563	3/4	193,598	3/4	178,570	3/4	163,496	3/4	148,417	3/4	133,339	3/4	118,260	3/4	103,179		
1		1		1	208,254	1	193,284	1	178,257	1	163,182	1	148,103	1	133,025	1	117,946	1	102,864		
1/4	1/4	1/4	1/4	1/4	207,944	1/4	192,971	1/4	177,944	1/4	162,868	1/4	147,789	1/4	132,711	1/4	117,632	1/4	102,550		
1/2	1/2	1/2	1/2	1/2	207,634	1/2	192,658	1/2	177,630	1/2	162,553	1/2	147,475	1/2	132,396	1/2	117,318	1/2	102,236		
3/4	3/4	3/4	3/4	3/4	207,324	3/4	192,345	3/4	177,317	3/4	162,239	3/4	147,161	3/4	132,082	3/4	117,004	3/4	101,921		
2		2		2	207,014	2	192,032	2	177,003	2	161,925	2	146,847	2	131,768	2	116,690	2	101,607		
1/4	1/4	1/4	1/4	1/4	206,704	1/4	191,719	1/4	176,690	1/4	161,611	1/4	146,533	1/4	131,454	1/4	116,375	1/4	101,293		
1/2	1/2	1/2	1/2	1/2	206,394	1/2	191,406	1/2	176,375	1/2	161,297	1/2	146,218	1/2	131,140	1/2	116,061	1/2	100,978		
3/4	3/4	3/4	3/4	3/4	206,084	3/4	191,093	3/4	176,061	3/4	160,983	3/4	145,904	3/4	130,826	3/4	115,747	3/4	100,664		
3		3		3	205,774	3	190,780	3	175,747	3	160,669	3	145,590	3	130,512	3	115,433	3	100,350		
1/4	1/4	1/4	1/4	1/4	205,464	1/4	190,467	1/4	175,433	1/4	160,355	1/4	145,276	1/4	130,197	1/4	115,119	1/4	100,036		
1/2	1/2	1/2	1/2	1/2	205,153	1/2	190,154	1/2	175,119	1/2	160,040	1/2	144,962	1/2	129,883	1/2	114,805	1/2	99,721		
3/4	3/4	3/4	3/4	3/4	204,843	3/4	189,841	3/4	174,805	3/4	159,726	3/4	144,648	3/4	129,569	3/4	114,491	3/4	99,407		
4		4		4	204,533	4	189,528	4	174,491	4	159,412	4	144,334	4	129,255	4	114,176	4	99,093		
1/4	1/4	1/4	1/4	1/4	204,223	1/4	189,215	1/4	174,177	1/4	159,098	1/4	144,019	1/4	128,941	1/4	113,862	1/4	98,778		
1/2	1/2	1/2	1/2	1/2	203,913	1/2	188,902	1/2	173,862	1/2	158,784	1/2	143,705	1/2	128,627	1/2	113,548	1/2	98,464		
3/4	3/4	3/4	3/4	3/4	203,603	3/4	188,588	3/4	173,548	3/4	158,470	3/4	143,391	3/4	128,313	3/4	113,234	3/4	98,150		
5		5		5	203,293	5	188,275	5	173,234	5	158,156	5	143,077	5	127,998	5	112,920	5	97,836		
1/4	1/4	1/4	1/4	1/4	202,983	1/4	187,962	1/4	172,920	1/4	157,841	1/4	142,763	1/4	127,684	1/4	112,606	1/4	97,521		
1/2	1/2	1/2	1/2	1/2	202,672	1/2	187,649	1/2	172,606	1/2	157,527	1/2	142,449	1/2	127,370	1/2	112,292	1/2	97,207		
3/4	3/4	3/4	3/4	3/4	202,360	3/4	187,336	3/4	172,292	3/4	157,213	3/4	142,135	3/4	127,056	3/4	111,978	3/4	96,893		
6		6		6	202,049	6	187,023	6	171,978	6	156,899	6	141,820	6	126,742	6	111,663	6	96,578		
1/4	1/4	1/4	1/4	1/4	201,737	1/4	186,710	1/4	171,663	1/4	156,585	1/4	141,506	1/4	126,428	1/4	111,349	1/4	96,264		
1/2	1/2	1/2	1/2	1/2	201,424	1/2	186,397	1/2	171,349	1/2	156,271	1/2	141,192	1/2	126,114	1/2	111,035	1/2	95,950		
3/4	3/4	3/4	3/4	3/4	201,111	3/4	186,084	3/4	171,035	3/4	155,957	3/4	140,878	3/4	125,800	3/4	110,721	3/4	95,635		
7		7		7	200,798	7	185,771	7	170,721	7	155,642	7	140,564	7	125,485	7	110,407	7	95,321		
1/4	1/4	1/4	1/4	1/4	200,485	1/4	185,458	1/4	170,407	1/4	155,328	1/4	140,250	1/4	125,171	1/4	110,093	1/4	95,007		
1/2	1/2	1/2	1/2	1/2	200,172	1/2	185,145	1/2	170,093	1/2	155,014	1/2	139,936	1/2	124,857	1/2	109,778	1/2	94,693		
3/4	3/4	3/4	3/4	3/4	199,859	3/4	184,832	3/4	169,779	3/4	154,700	3/4	139,622	3/4	124,543	3/4	109,464	3/4	94,378		
8		8		8	199,546	8	184,519	8	169,464	8	154,386	8	139,307	8	124,229	8	109,150	8	94,064		
1/4	1/4	1/4	1/4	1/4	213,170	1/4	199,233	1/4	184,205	1/4	169,150	1/4	154,072	1/4	138,993	1/4	123,915	1/4	108,836	1/4	93,750
1/2	1/2	1/2	1/2	1/2	212,991	1/2	198,920	1/2	183,892	1/2	168,836	1/2	153,758	1/2	138,679	1/2	123,601	1/2	108,522	1/2	93,435
3/4	3/4	3/4	3/4	3/4	212,811	3/4	198,607	3/4	183,579	3/4	168,522	3/4	153,444	3/4	138,365	3/4	123,286	3/4	108,207	3/4	93,121
9		9		9	212,632	9	198,294	9	183,266	9	168,208	9	153,129	9	138,051	9	122,972	9	107,893	9	92,807
1/4	1/4	1/4	1/4	1/4	212,453	1/4	197,981	1/4	182,953	1/4	167,894	1/4	152,815	1/4	137,737	1/4	122,658	1/4	107,579	1/4	92,493
1/2	1/2	1/2	1/2	1/2	212,222	1/2	197,667	1/2	182,640	1/2	167,580	1/2	152,501	1/2	137,423	1/2	122,344	1/2	107,264	1/2	92,178
3/4	3/4	3/4	3/4	3/4	211,990	3/4	197,354	3/4	182,327	3/4	167,266	3/4	152,187	3/4	137,108	3/4	122,030	3/4	106,950	3/4	91,864
10		10		10	211,758	10	197,041	10	182,014	10	166,951	10	151,873	10	136,794	10	121,716	10	106,636	10	91,550
1/4	1/4	1/4	1/4	1/4	211,527	1/4	196,728	1/4	181,701	1/4	166,637	1/4	151,559	1/4	136,480	1/4	121,402	1/4	106,321	1/4	91,235
1/2	1/2	1/2	1/2	1/2	211,247	1/2	196,415	1/2	181,388	1/2	166,323	1/2	151,245	1/2	136,166	1/2	121,087	1/2	106,007	1/2	90,921
3/4	3/4	3/4	3/4	3/4	210,967	3/4	196,102	3/4	181,075	3/4	166,009	3/4	150,930	3/4	135,852	3/4	120,773	3/4	105,693	3/4	90,607
11		11		11	210,686	11	195,789	11	180,762	11	165,695	11	150,616	11	135,538	11	120,459	11	105,379	11	90,292
1/4	1/4	1/4	1/4	1/4	210,406	1/4	195,476	1/4	180,449	1/4	165,381	1/4	150,302	1/4	135,224	1/4	120,145	1/4	105,064	1/4	89,978
1/2	1/2	1/2	1/2	1/2	210,100	1/2	195,163	1/2	180,136	1/2	165,067	1/2	149,988	1/2	134,909	1/2	119,831	1/2	104,750	1/2	89,664
3/4	3/4	3/4	3/4	3/4	209,794	3/4	194,850	3/4	179,822	3/4	164,752	3/4	149,674	3/4	134,595	3/4	119,517	3/4	104,436	3/4	89,350

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "HFL 425"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	89,035	0	73,949	0	59,110	0	44,608	0	29,858	0	14,775	0		0		0		0	
1/4	88,721	1/4	73,635	1/4	58,808	1/4	44,306	1/4	29,544	1/4	14,460	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	88,407	1/2	73,321	1/2	58,505	1/2	44,005	1/2	29,230	1/2	14,146	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	88,092	3/4	73,006	3/4	58,203	3/4	43,703	3/4	28,916	3/4	13,832	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	87,778	1	72,692	1	57,900	1	43,402	1	28,602	1	13,517	1	1	1	1	1	1	1	1
1/4	87,464	1/4	72,378	1/4	57,598	1/4	43,100	1/4	28,288	1/4	13,203	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	87,150	1/2	72,063	1/2	57,295	1/2	42,798	1/2	27,974	1/2	12,889	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,835	3/4	71,749	3/4	56,993	3/4	42,497	3/4	27,660	3/4	12,575	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	86,521	2	71,435	2	56,690	2	42,195	2	27,345	2	12,260	2	2	2	2	2	2	2	2
1/4	86,207	1/4	71,121	1/4	56,388	1/4	41,894	1/4	27,031	1/4	11,946	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,892	1/2	70,806	1/2	56,085	1/2	41,592	1/2	26,717	1/2	11,632	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,578	3/4	70,492	3/4	55,783	3/4	41,291	3/4	26,403	3/4	11,317	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	85,264	3	70,178	3	55,480	3	40,989	3	26,089	3	11,003	3	3	3	3	3	3	3	3
1/4	84,949	1/4	69,863	1/4	55,178	1/4	40,687	1/4	25,775	1/4	10,689	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,635	1/2	69,549	1/2	54,875	1/2	40,386	1/2	25,460	1/2	10,375	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,321	3/4	69,235	3/4	54,573	3/4	40,084	3/4	25,146	3/4	10,060	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	84,007	4	68,920	4	54,270	4	39,783	4	24,832	4	9,746	4	4	4	4	4	4	4	4
1/4	83,692	1/4	68,606	1/4	53,968	1/4	39,481	1/4	24,517	1/4	9,432	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,378	1/2	68,292	1/2	53,665	1/2	39,179	1/2	24,203	1/2	9,117	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,064	3/4	67,978	3/4	53,363	3/4	38,877	3/4	23,889	3/4	8,803	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	82,749	5	67,663	5	53,060	5	38,575	5	23,575	5	8,489	5	5	5	5	5	5	5	5
1/4	82,435	1/4	67,349	1/4	52,758	1/4	38,273	1/4	23,260	1/4	8,175	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,121	1/2	67,035	1/2	52,455	1/2	37,970	1/2	22,946	1/2	7,860	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,807	3/4	66,720	3/4	52,153	3/4	37,668	3/4	22,632	3/4	7,546	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	81,492	6	66,406	6	51,850	6	37,365	6	22,317	6	7,232	6	6	6	6	6	6	6	6
1/4	81,178	1/4	66,092	1/4	51,548	1/4	37,063	1/4	22,003	1/4	6,917	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,864	1/2	65,783	1/2	51,246	1/2	36,755	1/2	21,689	1/2	6,603	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,549	3/4	65,475	3/4	50,943	3/4	36,446	3/4	21,375	3/4	6,289	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	80,235	7	65,167	7	50,641	7	36,138	7	21,060	7	5,975	7	7	7	7	7	7	7	7
1/4	79,921	1/4	64,858	1/4	50,339	1/4	35,829	1/4	20,746	1/4	5,660	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,606	1/2	64,556	1/2	50,037	1/2	35,515	1/2	20,432	1/2	5,346	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,292	3/4	64,253	3/4	49,735	3/4	35,201	3/4	20,117	3/4	5,032	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	78,978	8	63,951	8	49,434	8	34,886	8	19,803	8	4,718	8	8	8	8	8	8	8	8
1/4	78,664	1/4	63,648	1/4	49,132	1/4	34,572	1/4	19,489	1/4	4,404	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,349	1/2	63,346	1/2	48,830	1/2	34,258	1/2	19,175	1/2	4,091	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,035	3/4	63,043	3/4	48,528	3/4	33,944	3/4	18,860	3/4	3,778	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	77,721	9	62,741	9	48,227	9	33,629	9	18,546	9	3,464	9	9	9	9	9	9	9	9
1/4	77,406	1/4	62,438	1/4	47,925	1/4	33,315	1/4	18,232	1/4	3,151	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,092	1/2	62,136	1/2	47,624	1/2	33,001	1/2	17,917	1/2	2,857	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,778	3/4	61,833	3/4	47,322	3/4	32,686	3/4	17,603	3/4	2,563	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	76,464	10	61,531	10	47,020	10	32,372	10	17,289	10	2,270	10	10	10	10	10	10	10	10
1/4	76,149	1/4	61,228	1/4	46,719	1/4	32,058	1/4	16,975	1/4	1,976	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,835	1/2	60,926	1/2	46,417	1/2	31,744	1/2	16,660	1/2	1,740	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,521	3/4	60,623	3/4	46,116	3/4	31,429	3/4	16,346	3/4	1,504	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	75,206	11	60,321	11	45,814	11	31,115	11	16,032	11	1,269	11	11	11	11	11	11	11	11
1/4	74,892	1/4	60,018	1/4	45,513	1/4	30,801	1/4	15,717	1/4	1,033	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,578	1/2	59,716	1/2	45,211	1/2	30,487	1/2	15,403	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,263	3/4	59,413	3/4	44,909	3/4	30,172	3/4	15,089	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.

STRAPPED: 08/12/2013 CL - SW
CALCULATED: 08/12/2013 CL
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 425"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

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	209,654	0	194,742	0	179,762	0	164,737	0	149,706	0	134,675	0	119,644	0	104,610
1/4	1/4	1/4	1/4	1/4	209,345	1/4	194,430	1/4	179,450	1/4	164,424	1/4	149,393	1/4	134,362	1/4	119,331	1/4	104,296
1/2	1/2	1/2	1/2	1/2	209,037	1/2	194,118	1/2	179,138	1/2	164,111	1/2	149,080	1/2	134,049	1/2	119,017	1/2	103,983
3/4	3/4	3/4	3/4	3/4	208,728	3/4	193,806	3/4	178,826	3/4	163,798	3/4	148,767	3/4	133,735	3/4	118,704	3/4	103,670
1		1		1	208,419	1	193,494	1	178,514	1	163,485	1	148,453	1	133,422	1	118,391	1	103,357
1/4	1/4	1/4	1/4	1/4	208,110	1/4	193,182	1/4	178,201	1/4	163,171	1/4	148,140	1/4	133,109	1/4	118,078	1/4	103,043
1/2	1/2	1/2	1/2	1/2	207,801	1/2	192,870	1/2	177,888	1/2	162,858	1/2	147,827	1/2	132,796	1/2	117,765	1/2	102,730
3/4	3/4	3/4	3/4	3/4	207,492	3/4	192,557	3/4	177,576	3/4	162,545	3/4	147,514	3/4	132,483	3/4	117,452	3/4	102,417
2		2		2	207,183	2	192,245	2	177,263	2	162,232	2	147,201	2	132,170	2	117,139	2	102,103
1/4	1/4	1/4	1/4	1/4	206,874	1/4	191,933	1/4	176,950	1/4	161,919	1/4	146,888	1/4	131,857	1/4	116,825	1/4	101,790
1/2	1/2	1/2	1/2	1/2	206,565	1/2	191,621	1/2	176,637	1/2	161,606	1/2	146,575	1/2	131,543	1/2	116,512	1/2	101,477
3/4	3/4	3/4	3/4	3/4	206,256	3/4	191,309	3/4	176,324	3/4	161,293	3/4	146,261	3/4	131,230	3/4	116,199	3/4	101,163
3		3		3	205,947	3	190,997	3	176,011	3	160,979	3	145,948	3	130,917	3	115,886	3	100,850
1/4	1/4	1/4	1/4	1/4	205,638	1/4	190,685	1/4	175,697	1/4	160,666	1/4	145,635	1/4	130,604	1/4	115,573	1/4	100,537
1/2	1/2	1/2	1/2	1/2	205,328	1/2	190,373	1/2	175,384	1/2	160,353	1/2	145,322	1/2	130,291	1/2	115,260	1/2	100,223
3/4	3/4	3/4	3/4	3/4	205,019	3/4	190,061	3/4	175,071	3/4	160,040	3/4	145,009	3/4	129,978	3/4	114,947	3/4	99,910
4		4		4	204,710	4	189,749	4	174,758	4	159,727	4	144,696	4	129,665	4	114,633	4	99,597
1/4	1/4	1/4	1/4	1/4	204,401	1/4	189,437	1/4	174,445	1/4	159,414	1/4	144,383	1/4	129,351	1/4	114,320	1/4	99,284
1/2	1/2	1/2	1/2	1/2	204,092	1/2	189,125	1/2	174,132	1/2	159,100	1/2	144,069	1/2	129,038	1/2	114,007	1/2	98,970
3/4	3/4	3/4	3/4	3/4	203,783	3/4	188,812	3/4	173,818	3/4	158,787	3/4	143,756	3/4	128,725	3/4	113,694	3/4	98,657
5		5		5	203,474	5	188,500	5	173,505	5	158,474	5	143,443	5	128,412	5	113,381	5	98,344
1/4	1/4	1/4	1/4	1/4	203,164	1/4	188,188	1/4	173,192	1/4	158,161	1/4	143,130	1/4	128,099	1/4	113,068	1/4	98,030
1/2	1/2	1/2	1/2	1/2	202,853	1/2	187,876	1/2	172,879	1/2	157,848	1/2	142,817	1/2	127,786	1/2	112,754	1/2	97,717
3/4	3/4	3/4	3/4	3/4	202,543	3/4	187,564	3/4	172,566	3/4	157,535	3/4	142,504	3/4	127,472	3/4	112,441	3/4	97,404
6		6		6	202,232	6	187,252	6	172,253	6	157,222	6	142,190	6	127,159	6	112,128	6	97,090
1/4	1/4	1/4	1/4	1/4	201,920	1/4	186,940	1/4	171,940	1/4	156,908	1/4	141,877	1/4	126,846	1/4	111,815	1/4	96,777
1/2	1/2	1/2	1/2	1/2	201,608	1/2	186,628	1/2	171,626	1/2	156,595	1/2	141,564	1/2	126,533	1/2	111,502	1/2	96,464
3/4	3/4	3/4	3/4	3/4	201,296	3/4	186,316	3/4	171,313	3/4	156,282	3/4	141,251	3/4	126,220	3/4	111,189	3/4	96,151
7		7		7	200,984	7	186,004	7	171,000	7	155,969	7	140,938	7	125,907	7	110,876	7	95,837
1/4	1/4	1/4	1/4	1/4	200,672	1/4	185,692	1/4	170,687	1/4	155,656	1/4	140,625	1/4	125,594	1/4	110,562	1/4	95,524
1/2	1/2	1/2	1/2	1/2	200,360	1/2	185,379	1/2	170,374	1/2	155,343	1/2	140,312	1/2	125,280	1/2	110,249	1/2	95,211
3/4	3/4	3/4	3/4	3/4	200,048	3/4	185,067	3/4	170,061	3/4	155,030	3/4	139,998	3/4	124,967	3/4	109,936	3/4	94,897
8		8	213,629	8	199,735	8	184,755	8	169,748	8	154,716	8	139,685	8	124,654	8	109,623	8	94,584
1/4	1/4	1/4	213,450	1/4	199,423	1/4	184,443	1/4	169,434	1/4	154,403	1/4	139,372	1/4	124,341	1/4	109,309	1/4	94,271
1/2	1/2	1/2	213,272	1/2	199,111	1/2	184,131	1/2	169,121	1/2	154,090	1/2	139,059	1/2	124,028	1/2	108,996	1/2	93,957
3/4	3/4	3/4	213,093	3/4	198,799	3/4	183,819	3/4	168,808	3/4	153,777	3/4	138,746	3/4	123,715	3/4	108,683	3/4	93,644
9		9	212,914	9	198,487	9	183,507	9	168,495	9	153,464	9	138,433	9	123,402	9	108,369	9	93,331
1/4	1/4	1/4	212,683	1/4	198,175	1/4	183,195	1/4	168,182	1/4	153,151	1/4	138,120	1/4	123,088	1/4	108,056	1/4	93,017
1/2	1/2	1/2	212,453	1/2	197,863	1/2	182,883	1/2	167,869	1/2	152,838	1/2	137,806	1/2	122,775	1/2	107,743	1/2	92,704
3/4	3/4	3/4	212,222	3/4	197,551	3/4	182,571	3/4	167,556	3/4	152,524	3/4	137,493	3/4	122,462	3/4	107,430	3/4	92,391
10		10	211,991	10	197,239	10	182,259	10	167,242	10	152,211	10	137,180	10	122,149	10	107,116	10	92,078
1/4	1/4	1/4	211,712	1/4	196,927	1/4	181,947	1/4	166,929	1/4	151,898	1/4	136,867	1/4	121,836	1/4	106,803	1/4	91,764
1/2	1/2	1/2	211,432	1/2	196,615	1/2	181,634	1/2	166,616	1/2	151,585	1/2	136,554	1/2	121,523	1/2	106,490	1/2	91,451
3/4	3/4	3/4	211,153	3/4	196,303	3/4	181,322	3/4	166,303	3/4	151,272	3/4	136,241	3/4	121,209	3/4	106,176	3/4	91,138
11		11	210,874	11	195,990	11	181,010	11	165,990	11	150,959	11	135,927	11	120,896	11	105,863	11	90,824
1/4	1/4	1/4	210,569	1/4	195,678	1/4	180,698	1/4	165,677	1/4	150,645	1/4	135,614	1/4	120,583	1/4	105,550	1/4	90,511
1/2	1/2	1/2	210,264	1/2	195,366	1/2	180,386	1/2	165,363	1/2	150,332	1/2	135,301	1/2	120,270	1/2	105,236	1/2	90,198
3/4	3/4	3/4	209,959	3/4	195,054	3/4	180,074	3/4	165,050	3/4	150,019	3/4	134,988	3/4	119,957	3/4	104,923	3/4	89,884

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "HFL 425"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

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	89,571	0	74,532	0	59,494	0	44,474	0	29,452	0	14,415	0		0		0		0	
1/4	89,258	1/4	74,219	1/4	59,180	1/4	44,161	1/4	29,139	1/4	14,102	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	88,944	1/2	73,906	1/2	58,867	1/2	43,849	1/2	28,826	1/2	13,789	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	88,631	3/4	73,592	3/4	58,554	3/4	43,537	3/4	28,513	3/4	13,475	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	88,318	1	73,279	1	58,241	1	43,224	1	28,200	1	13,162	1	1	1	1	1	1	1	1
1/4	88,005	1/4	72,966	1/4	57,927	1/4	42,912	1/4	27,887	1/4	12,849	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	87,691	1/2	72,653	1/2	57,614	1/2	42,599	1/2	27,573	1/2	12,536	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	87,378	3/4	72,339	3/4	57,301	3/4	42,287	3/4	27,260	3/4	12,222	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	87,065	2	72,026	2	56,987	2	41,975	2	26,947	2	11,909	2	2	2	2	2	2	2	2
1/4	86,751	1/4	71,713	1/4	56,674	1/4	41,662	1/4	26,634	1/4	11,596	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	86,438	1/2	71,399	1/2	56,361	1/2	41,350	1/2	26,321	1/2	11,282	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,125	3/4	71,086	3/4	56,047	3/4	41,038	3/4	26,008	3/4	10,969	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	85,811	3	70,773	3	55,734	3	40,725	3	25,694	3	10,656	3	3	3	3	3	3	3	3
1/4	85,498	1/4	70,459	1/4	55,421	1/4	40,413	1/4	25,381	1/4	10,342	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,185	1/2	70,146	1/2	55,107	1/2	40,100	1/2	25,068	1/2	10,029	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,872	3/4	69,833	3/4	54,794	3/4	39,788	3/4	24,754	3/4	9,716	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	84,558	4	69,520	4	54,481	4	39,476	4	24,441	4	9,402	4	4	4	4	4	4	4	4
1/4	84,245	1/4	69,206	1/4	54,168	1/4	39,163	1/4	24,128	1/4	9,089	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,932	1/2	68,893	1/2	53,854	1/2	38,850	1/2	23,815	1/2	8,776	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,618	3/4	68,580	3/4	53,541	3/4	38,537	3/4	23,501	3/4	8,463	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	83,305	5	68,266	5	53,228	5	38,224	5	23,188	5	8,149	5	5	5	5	5	5	5	5
1/4	82,992	1/4	67,953	1/4	52,914	1/4	37,911	1/4	22,875	1/4	7,836	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,678	1/2	67,640	1/2	52,601	1/2	37,598	1/2	22,561	1/2	7,523	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,365	3/4	67,326	3/4	52,288	3/4	37,284	3/4	22,248	3/4	7,209	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	82,052	6	67,013	6	51,974	6	36,971	6	21,935	6	6,896	6	6	6	6	6	6	6	6
1/4	81,738	1/4	66,700	1/4	51,661	1/4	36,658	1/4	21,621	1/4	6,583	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,425	1/2	66,386	1/2	51,348	1/2	36,344	1/2	21,308	1/2	6,269	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,112	3/4	66,073	3/4	51,036	3/4	36,031	3/4	20,995	3/4	5,956	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	80,799	7	65,760	7	50,723	7	35,718	7	20,681	7	5,643	7	7	7	7	7	7	7	7
1/4	80,485	1/4	65,447	1/4	50,410	1/4	35,404	1/4	20,368	1/4	5,330	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,172	1/2	65,133	1/2	50,097	1/2	35,091	1/2	20,055	1/2	5,017	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,859	3/4	64,820	3/4	49,785	3/4	34,778	3/4	19,742	3/4	4,704	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	79,545	8	64,507	8	49,472	8	34,465	8	19,428	8	4,391	8	8	8	8	8	8	8	8
1/4	79,232	1/4	64,193	1/4	49,160	1/4	34,151	1/4	19,115	1/4	4,078	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,919	1/2	63,880	1/2	48,847	1/2	33,838	1/2	18,802	1/2	3,766	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,605	3/4	63,567	3/4	48,535	3/4	33,525	3/4	18,488	3/4	3,454	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	78,292	9	63,253	9	48,222	9	33,211	9	18,175	9	3,141	9	9	9	9	9	9	9	9
1/4	77,979	1/4	62,940	1/4	47,910	1/4	32,898	1/4	17,862	1/4	2,849	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,665	1/2	62,627	1/2	47,597	1/2	32,585	1/2	17,548	1/2	2,556	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,352	3/4	62,313	3/4	47,285	3/4	32,271	3/4	17,235	3/4	2,263	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	77,039	10	62,000	10	46,973	10	31,958	10	16,922	10	1,970	10	10	10	10	10	10	10	10
1/4	76,726	1/4	61,687	1/4	46,660	1/4	31,645	1/4	16,608	1/4	1,735	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,412	1/2	61,374	1/2	46,348	1/2	31,332	1/2	16,295	1/2	1,500	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,099	3/4	61,060	3/4	46,036	3/4	31,018	3/4	15,982	3/4	1,265	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	75,786	11	60,747	11	45,723	11	30,705	11	15,669	11	1,030	11	11	11	11	11	11	11	11
1/4	75,472	1/4	60,434	1/4	45,411	1/4	30,392	1/4	15,355	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,159	1/2	60,120	1/2	45,098	1/2	30,078	1/2	15,042	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,846	3/4	59,807	3/4	44,786	3/4	29,765	3/4	14,729	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.

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ALL PRIOR TO 08/2013

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BARGE "HFL 425"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

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	
0		0		0	189,190	0	178,862	0	168,533	0	158,172	0	147,732	0	133,446	0	118,485	0	103,519		
1/4	1/4	1/4	1/4	1/4	188,975	1/4	178,646	1/4	168,318	1/4	157,956	1/4	147,485	1/4	133,135	1/4	118,174	1/4	103,207		
1/2	1/2	1/2	1/2	1/2	188,761	1/2	178,431	1/2	168,102	1/2	157,740	1/2	147,238	1/2	132,823	1/2	117,862	1/2	102,895		
3/4	3/4	3/4	3/4	3/4	188,546	3/4	178,216	3/4	167,887	3/4	157,524	3/4	146,991	3/4	132,511	3/4	117,550	3/4	102,583		
1		1		1	188,331	1	178,001	1	167,672	1	157,308	1	146,744	1	132,200	1	117,239	1	102,271		
1/4	1/4	1/4	1/4	1/4	188,115	1/4	177,786	1/4	167,457	1/4	157,092	1/4	146,481	1/4	131,888	1/4	116,927	1/4	101,959		
1/2	1/2	1/2	1/2	1/2	187,900	1/2	177,571	1/2	167,241	1/2	156,876	1/2	146,218	1/2	131,576	1/2	116,615	1/2	101,647		
3/4	3/4	3/4	3/4	3/4	187,685	3/4	177,355	3/4	167,025	3/4	156,660	3/4	145,955	3/4	131,265	3/4	116,304	3/4	101,335		
2		2		2	187,470	2	177,140	2	166,810	2	156,445	2	145,692	2	130,953	2	115,992	2	101,022		
1/4	1/4	1/4	1/4	1/4	187,254	1/4	176,925	1/4	166,594	1/4	156,229	1/4	145,414	1/4	130,641	1/4	115,680	1/4	100,710		
1/2	1/2	1/2	1/2	1/2	187,039	1/2	176,710	1/2	166,378	1/2	156,013	1/2	145,135	1/2	130,329	1/2	115,368	1/2	100,398		
3/4	3/4	3/4	3/4	3/4	186,824	3/4	176,495	3/4	166,162	3/4	155,797	3/4	144,857	3/4	130,018	3/4	115,057	3/4	100,086		
3		3		3	186,608	3	176,279	3	165,946	3	155,581	3	144,578	3	129,706	3	114,745	3	99,774		
1/4	1/4	1/4	1/4	1/4	186,393	1/4	176,064	1/4	165,730	1/4	155,365	1/4	144,284	1/4	129,394	1/4	114,433	1/4	99,462		
1/2	1/2	1/2	1/2	1/2	186,178	1/2	175,849	1/2	165,514	1/2	155,149	1/2	143,989	1/2	129,083	1/2	114,122	1/2	99,150		
3/4	3/4	3/4	3/4	3/4	185,963	3/4	175,634	3/4	165,298	3/4	154,933	3/4	143,695	3/4	128,771	3/4	113,810	3/4	98,838		
4		4		4	185,748	4	175,419	4	165,082	4	154,717	4	143,400	4	128,459	4	113,498	4	98,526		
1/4	1/4	1/4	1/4	1/4	185,532	1/4	175,204	1/4	164,866	1/4	154,501	1/4	143,093	1/4	128,148	1/4	113,187	1/4	98,214		
1/2	1/2	1/2	1/2	1/2	185,317	1/2	174,988	1/2	164,650	1/2	154,285	1/2	142,786	1/2	127,836	1/2	112,875	1/2	97,902		
3/4	3/4	3/4	3/4	3/4	185,102	3/4	174,773	3/4	164,434	3/4	154,069	3/4	142,479	3/4	127,524	3/4	112,563	3/4	97,590		
5		5		5	184,887	5	174,558	5	164,219	5	153,853	5	142,172	5	127,213	5	112,252	5	97,278		
1/4	1/4	1/4	1/4	1/4	184,672	1/4	174,343	1/4	164,003	1/4	153,637	1/4	141,861	1/4	126,901	1/4	111,940	1/4	96,966		
1/2	1/2	1/2	1/2	1/2	184,456	1/2	174,128	1/2	163,787	1/2	153,421	1/2	141,549	1/2	126,589	1/2	111,628	1/2	96,654		
3/4	3/4	3/4	3/4	3/4	184,241	3/4	173,912	3/4	163,571	3/4	153,205	3/4	141,238	3/4	126,278	3/4	111,317	3/4	96,342		
6		6		6	184,026	6	173,697	6	163,355	6	152,989	6	140,927	6	125,966	6	111,005	6	96,030		
1/4	1/4	1/4	1/4	1/4	183,811	1/4	173,482	1/4	163,139	1/4	152,773	1/4	140,615	1/4	125,654	1/4	110,693	1/4	95,718		
1/2	1/2	1/2	1/2	1/2	183,596	1/2	173,267	1/2	162,923	1/2	152,558	1/2	140,303	1/2	125,342	1/2	110,381	1/2	95,407		
3/4	3/4	3/4	3/4	3/4	183,381	3/4	173,052	3/4	162,707	3/4	152,342	3/4	139,992	3/4	125,031	3/4	110,070	3/4	95,095		
7		7		7	183,165	7	172,836	7	162,491	7	152,126	7	139,680	7	124,719	7	109,758	7	94,783		
1/4	1/4	1/4	1/4	1/4	182,950	1/4	172,621	1/4	162,275	1/4	151,910	1/4	139,368	1/4	124,407	1/4	109,446	1/4	94,471		
1/2	1/2	1/2	1/2	1/2	182,735	1/2	172,406	1/2	162,059	1/2	151,694	1/2	139,057	1/2	124,096	1/2	109,135	1/2	94,159		
3/4	3/4	3/4	3/4	3/4	182,520	3/4	172,191	3/4	161,843	3/4	151,478	3/4	138,745	3/4	123,784	3/4	108,823	3/4	93,847		
8		8	191,942	8	182,305	8	171,976	8	161,627	8	151,262	8	138,433	8	123,472	8	108,511	8	93,535		
1/4	1/4	1/4	1/4	1/4	182,089	1/4	171,761	1/4	161,411	1/4	151,046	1/4	138,122	1/4	123,161	1/4	108,199	1/4	93,224		
1/2	1/2	1/2	1/2	1/2	181,874	1/2	171,545	1/2	161,195	1/2	150,830	1/2	137,810	1/2	122,849	1/2	107,888	1/2	92,912		
3/4	3/4	3/4	3/4	3/4	181,659	3/4	171,330	3/4	160,979	3/4	150,614	3/4	137,498	3/4	122,537	3/4	107,576	3/4	92,600		
9		9	191,447	9	181,444	9	171,115	9	160,763	9	150,398	9	137,187	9	122,226	9	107,264	9	92,288		
1/4	1/4	1/4	1/4	1/4	181,229	1/4	170,900	1/4	160,547	1/4	150,182	1/4	136,875	1/4	121,914	1/4	106,952	1/4	91,976		
1/2	1/2	1/2	1/2	1/2	181,013	1/2	170,685	1/2	160,332	1/2	149,966	1/2	136,563	1/2	121,602	1/2	106,640	1/2	91,664		
3/4	3/4	3/4	3/4	3/4	180,798	3/4	170,469	3/4	160,116	3/4	149,750	3/4	136,252	3/4	121,291	3/4	106,328	3/4	91,352		
10		10	190,809	10	180,583	10	170,254	10	159,900	10	149,534	10	135,940	10	120,979	10	106,016	10	91,041		
1/4	1/4	1/4	1/4	1/4	180,368	1/4	170,039	1/4	159,684	1/4	149,315	1/4	135,628	1/4	120,667	1/4	105,704	1/4	90,729		
1/2	1/2	1/2	1/2	1/2	180,153	1/2	169,824	1/2	159,468	1/2	149,095	1/2	135,316	1/2	120,355	1/2	105,392	1/2	90,417		
3/4	3/4	3/4	3/4	3/4	179,938	3/4	169,609	3/4	159,252	3/4	148,876	3/4	135,005	3/4	120,044	3/4	105,080	3/4	90,105		
11		11	190,037	11	179,722	11	169,394	11	159,036	11	148,656	11	134,693	11	119,732	11	104,768	11	89,793		
1/4	1/4	1/4	1/4	1/4	179,507	1/4	169,178	1/4	158,820	1/4	148,425	1/4	134,381	1/4	119,420	1/4	104,456	1/4	89,481		
1/2	1/2	1/2	1/2	1/2	179,292	1/2	168,963	1/2	158,604	1/2	148,194	1/2	134,070	1/2	119,109	1/2	104,143	1/2	89,170		
3/4	3/4	3/4	3/4	3/4	179,077	3/4	168,748	3/4	158,388	3/4	147,963	3/4	133,758	3/4	118,797	3/4	103,831	3/4	88,858		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 425"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

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	88,546	0	73,590	0	58,690	0	44,158	0	29,366	0	14,380	0		0		0		0	
1/4	88,234	1/4	73,280	1/4	58,384	1/4	43,853	1/4	29,054	1/4	14,068	1/4		1/4		1/4		1/4	
1/2	87,922	1/2	72,970	1/2	58,078	1/2	43,548	1/2	28,742	1/2	13,756	1/2		1/2		1/2		1/2	
3/4	87,610	3/4	72,659	3/4	57,773	3/4	43,243	3/4	28,430	3/4	13,444	3/4		3/4		3/4		3/4	
1	87,298	1	72,349	1	57,467	1	42,938	1	28,118	1	13,132	1		1		1		1	
1/4	86,986	1/4	72,039	1/4	57,163	1/4	42,633	1/4	27,806	1/4	12,819	1/4		1/4		1/4		1/4	
1/2	86,673	1/2	71,729	1/2	56,859	1/2	42,329	1/2	27,494	1/2	12,507	1/2		1/2		1/2		1/2	
3/4	86,361	3/4	71,419	3/4	56,555	3/4	42,024	3/4	27,181	3/4	12,195	3/4		3/4		3/4		3/4	
2	86,049	2	71,108	2	56,252	2	41,719	2	26,869	2	11,883	2		2		2		2	
1/4	85,737	1/4	70,798	1/4	55,949	1/4	41,414	1/4	26,557	1/4	11,570	1/4		1/4		1/4		1/4	
1/2	85,425	1/2	70,488	1/2	55,647	1/2	41,109	1/2	26,245	1/2	11,258	1/2		1/2		1/2		1/2	
3/4	85,113	3/4	70,178	3/4	55,344	3/4	40,804	3/4	25,933	3/4	10,945	3/4		3/4		3/4		3/4	
3	84,800	3	69,867	3	55,042	3	40,499	3	25,621	3	10,633	3		3		3		3	
1/4	84,488	1/4	69,557	1/4	54,740	1/4	40,194	1/4	25,309	1/4	10,320	1/4		1/4		1/4		1/4	
1/2	84,176	1/2	69,247	1/2	54,437	1/2	39,889	1/2	24,996	1/2	10,007	1/2		1/2		1/2		1/2	
3/4	83,864	3/4	68,937	3/4	54,135	3/4	39,584	3/4	24,684	3/4	9,695	3/4		3/4		3/4		3/4	
4	83,552	4	68,627	4	53,833	4	39,279	4	24,372	4	9,382	4		4		4		4	
1/4	83,240	1/4	68,316	1/4	53,530	1/4	38,975	1/4	24,060	1/4	9,069	1/4		1/4		1/4		1/4	
1/2	82,927	1/2	68,006	1/2	53,228	1/2	38,670	1/2	23,747	1/2	8,757	1/2		1/2		1/2		1/2	
3/4	82,615	3/4	67,696	3/4	52,925	3/4	38,365	3/4	23,435	3/4	8,444	3/4		3/4		3/4		3/4	
5	82,303	5	67,386	5	52,623	5	38,060	5	23,123	5	8,131	5		5		5		5	
1/4	81,991	1/4	67,076	1/4	52,321	1/4	37,755	1/4	22,811	1/4	7,819	1/4		1/4		1/4		1/4	
1/2	81,679	1/2	66,765	1/2	52,018	1/2	37,450	1/2	22,498	1/2	7,506	1/2		1/2		1/2		1/2	
3/4	81,367	3/4	66,455	3/4	51,716	3/4	37,145	3/4	22,186	3/4	7,194	3/4		3/4		3/4		3/4	
6	81,054	6	66,145	6	51,414	6	36,840	6	21,874	6	6,882	6		6		6		6	
1/4	80,742	1/4	65,835	1/4	51,111	1/4	36,532	1/4	21,562	1/4	6,569	1/4		1/4		1/4		1/4	
1/2	80,430	1/2	65,525	1/2	50,809	1/2	36,224	1/2	21,250	1/2	6,257	1/2		1/2		1/2		1/2	
3/4	80,118	3/4	65,214	3/4	50,507	3/4	35,916	3/4	20,937	3/4	5,944	3/4		3/4		3/4		3/4	
7	79,806	7	64,904	7	50,204	7	35,608	7	20,625	7	5,632	7		7		7		7	
1/4	79,494	1/4	64,594	1/4	49,902	1/4	35,296	1/4	20,313	1/4	5,320	1/4		1/4		1/4		1/4	
1/2	79,181	1/2	64,284	1/2	49,599	1/2	34,985	1/2	20,001	1/2	5,007	1/2		1/2		1/2		1/2	
3/4	78,869	3/4	63,974	3/4	49,297	3/4	34,673	3/4	19,688	3/4	4,695	3/4		3/4		3/4		3/4	
8	78,557	8	63,663	8	48,995	8	34,361	8	19,376	8	4,382	8		8		8		8	
1/4	78,246	1/4	63,352	1/4	48,692	1/4	34,049	1/4	19,064	1/4	4,071	1/4		1/4		1/4		1/4	
1/2	77,935	1/2	63,041	1/2	48,390	1/2	33,737	1/2	18,752	1/2	3,759	1/2		1/2		1/2		1/2	
3/4	77,624	3/4	62,730	3/4	48,088	3/4	33,424	3/4	18,439	3/4	3,447	3/4		3/4		3/4		3/4	
9	77,312	9	62,419	9	47,785	9	33,112	9	18,127	9	3,135	9		9		9		9	
1/4	77,002	1/4	62,107	1/4	47,483	1/4	32,800	1/4	17,815	1/4	2,843	1/4		1/4		1/4		1/4	
1/2	76,692	1/2	61,796	1/2	47,181	1/2	32,488	1/2	17,503	1/2	2,551	1/2		1/2		1/2		1/2	
3/4	76,382	3/4	61,484	3/4	46,879	3/4	32,176	3/4	17,191	3/4	2,258	3/4		3/4		3/4		3/4	
10	76,072	10	61,172	10	46,577	10	31,863	10	16,878	10	1,966	10		10		10		10	
1/4	75,761	1/4	60,860	1/4	46,276	1/4	31,551	1/4	16,566	1/4	1,731	1/4		1/4		1/4		1/4	
1/2	75,451	1/2	60,548	1/2	45,974	1/2	31,239	1/2	16,254	1/2	1,497	1/2		1/2		1/2		1/2	
3/4	75,141	3/4	60,236	3/4	45,673	3/4	30,927	3/4	15,942	3/4	1,262	3/4		3/4		3/4		3/4	
11	74,831	11	59,924	11	45,371	11	30,614	11	15,629	11	1,028	11		11		11		11	
1/4	74,521	1/4	59,616	1/4	45,068	1/4	30,302	1/4	15,317	1/4		1/4		1/4		1/4		1/4	
1/2	74,210	1/2	59,307	1/2	44,764	1/2	29,990	1/2	15,005	1/2		1/2		1/2		1/2		1/2	
3/4	73,900	3/4	58,998	3/4	44,461	3/4	29,678	3/4	14,693	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/12/2013 CL - SW
CALCULATED: 08/12/2013 CL
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HFL 425"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	190,082	0	179,749	0	169,416	0	159,051	0	148,575	0	134,189	0	119,189	0	104,184
1/4	1/4	1/4	189,867	1/4	179,534	1/4	169,201	1/4	158,835	1/4	148,328	1/4	133,877	1/4	118,877	1/4	103,871		
1/2	1/2	1/2	189,652	1/2	179,319	1/2	168,986	1/2	158,619	1/2	148,080	1/2	133,564	1/2	118,564	1/2	103,558		
3/4	3/4	3/4	189,437	3/4	179,103	3/4	168,770	3/4	158,402	3/4	147,833	3/4	133,252	3/4	118,252	3/4	103,245		
1		1		1	189,222	1	178,888	1	168,555	1	158,186	1	147,570	1	132,939	1	117,939	1	102,932
1/4	1/4	1/4	189,006	1/4	178,673	1/4	168,339	1/4	157,970	1/4	147,306	1/4	132,627	1/4	117,627	1/4	102,619		
1/2	1/2	1/2	188,791	1/2	178,457	1/2	168,123	1/2	157,754	1/2	147,043	1/2	132,314	1/2	117,314	1/2	102,307		
3/4	3/4	3/4	188,576	3/4	178,242	3/4	167,908	3/4	157,538	3/4	146,780	3/4	132,002	3/4	117,002	3/4	101,994		
2		2		2	188,360	2	178,027	2	167,692	2	157,322	2	146,500	2	131,689	2	116,689	2	101,681
1/4	1/4	1/4	188,145	1/4	177,812	1/4	167,476	1/4	157,106	1/4	146,221	1/4	131,377	1/4	116,377	1/4	101,368		
1/2	1/2	1/2	187,930	1/2	177,596	1/2	167,260	1/2	156,890	1/2	145,942	1/2	131,064	1/2	116,064	1/2	101,055		
3/4	3/4	3/4	187,714	3/4	177,381	3/4	167,044	3/4	156,674	3/4	145,663	3/4	130,752	3/4	115,752	3/4	100,742		
3		3		3	187,499	3	177,166	3	166,828	3	156,458	3	145,367	3	130,439	3	115,439	3	100,429
1/4	1/4	1/4	187,284	1/4	176,951	1/4	166,612	1/4	156,242	1/4	145,072	1/4	130,127	1/4	115,127	1/4	100,116		
1/2	1/2	1/2	187,068	1/2	176,735	1/2	166,396	1/2	156,026	1/2	144,776	1/2	129,814	1/2	114,814	1/2	99,803		
3/4	3/4	3/4	186,853	3/4	176,520	3/4	166,180	3/4	155,810	3/4	144,481	3/4	129,502	3/4	114,502	3/4	99,490		
4		4		4	186,638	4	176,305	4	165,964	4	155,594	4	144,173	4	129,189	4	114,189	4	99,177
1/4	1/4	1/4	186,422	1/4	176,089	1/4	165,747	1/4	155,378	1/4	143,865	1/4	128,877	1/4	113,877	1/4	98,865		
1/2	1/2	1/2	186,207	1/2	175,874	1/2	165,531	1/2	155,162	1/2	143,558	1/2	128,564	1/2	113,564	1/2	98,552		
3/4	3/4	3/4	185,992	3/4	175,659	3/4	165,315	3/4	154,946	3/4	143,250	3/4	128,252	3/4	113,252	3/4	98,239		
5		5		5	185,777	5	175,444	5	165,099	5	154,730	5	142,938	5	127,939	5	112,939	5	97,926
1/4	1/4	1/4	185,561	1/4	175,228	1/4	164,883	1/4	154,514	1/4	142,626	1/4	127,627	1/4	112,627	1/4	97,613		
1/2	1/2	1/2	185,346	1/2	175,013	1/2	164,667	1/2	154,298	1/2	142,313	1/2	127,314	1/2	112,314	1/2	97,300		
3/4	3/4	3/4	185,131	3/4	174,798	3/4	164,451	3/4	154,082	3/4	142,001	3/4	127,002	3/4	112,002	3/4	96,987		
6		6		6	184,916	6	174,583	6	164,235	6	153,866	6	141,689	6	126,689	6	111,689	6	96,674
1/4	1/4	1/4	184,700	1/4	174,367	1/4	164,019	1/4	153,650	1/4	141,376	1/4	126,377	1/4	111,377	1/4	96,361		
1/2	1/2	1/2	184,485	1/2	174,152	1/2	163,803	1/2	153,434	1/2	141,064	1/2	126,064	1/2	111,064	1/2	96,048		
3/4	3/4	3/4	184,270	3/4	173,937	3/4	163,587	3/4	153,218	3/4	140,751	3/4	125,752	3/4	110,752	3/4	95,735		
7		7		7	184,054	7	173,722	7	163,371	7	153,002	7	140,439	7	125,439	7	110,439	7	95,422
1/4	1/4	1/4	183,839	1/4	173,506	1/4	163,155	1/4	152,786	1/4	140,126	1/4	125,127	1/4	110,127	1/4	95,110		
1/2	1/2	1/2	183,624	1/2	173,291	1/2	162,939	1/2	152,570	1/2	139,814	1/2	124,814	1/2	109,814	1/2	94,797		
3/4	3/4	3/4	183,409	3/4	173,076	3/4	162,723	3/4	152,354	3/4	139,501	3/4	124,502	3/4	109,502	3/4	94,484		
8		8	193,049	8	183,193	8	173,860	8	162,507	8	152,138	8	139,189	8	124,189	8	109,189	8	94,171
1/4	1/4	1/4	192,802	1/4	182,978	1/4	172,645	1/4	162,291	1/4	151,922	1/4	138,876	1/4	123,877	1/4	108,877	1/4	93,858
1/2	1/2	1/2	192,679	1/2	182,763	1/2	172,430	1/2	162,075	1/2	151,706	1/2	138,564	1/2	123,564	1/2	108,564	1/2	93,545
3/4	3/4	3/4	192,555	3/4	182,548	3/4	172,215	3/4	161,859	3/4	151,490	3/4	138,251	3/4	123,252	3/4	108,251	3/4	93,232
9		9		9	192,395	9	182,332	9	171,999	9	161,643	9	151,274	9	137,939	9	122,939	9	92,919
1/4	1/4	1/4	192,235	1/4	182,117	1/4	171,784	1/4	161,427	1/4	151,057	1/4	137,627	1/4	122,627	1/4	107,626	1/4	92,606
1/2	1/2	1/2	192,076	1/2	181,902	1/2	171,569	1/2	161,211	1/2	150,841	1/2	137,314	1/2	122,314	1/2	107,313	1/2	92,293
3/4	3/4	3/4	191,916	3/4	181,686	3/4	171,354	3/4	160,995	3/4	150,625	3/4	137,002	3/4	122,002	3/4	107,000	3/4	91,980
10		10		10	191,723	10	181,471	10	171,138	10	160,779	10	150,406	10	136,689	10	121,689	10	91,668
1/4	1/4	1/4	191,530	1/4	181,256	1/4	170,923	1/4	160,563	1/4	150,186	1/4	136,377	1/4	121,377	1/4	106,374	1/4	91,355
1/2	1/2	1/2	191,337	1/2	181,041	1/2	170,708	1/2	160,347	1/2	149,967	1/2	136,064	1/2	121,064	1/2	106,062	1/2	91,042
3/4	3/4	3/4	191,144	3/4	180,825	3/4	170,493	3/4	160,131	3/4	149,747	3/4	135,752	3/4	120,752	3/4	105,749	3/4	90,729
11		11		11	190,932	11	180,610	11	170,277	11	159,915	11	149,516	11	135,439	11	120,439	11	90,416
1/4	1/4	1/4	190,720	1/4	180,395	1/4	170,062	1/4	159,699	1/4	149,285	1/4	135,127	1/4	120,127	1/4	105,123	1/4	90,103
1/2	1/2	1/2	190,509	1/2	180,180	1/2	169,847	1/2	159,483	1/2	149,053	1/2	134,814	1/2	119,814	1/2	104,810	1/2	89,790
3/4	3/4	3/4	190,297	3/4	179,964	3/4	169,631	3/4	159,267	3/4	148,822	3/4	134,502	3/4	119,502	3/4	104,497	3/4	89,477

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "HFL 425"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	89,164	0	74,144	0	59,125	0	44,108	0	29,103	0	14,084	0		0		0		0	
1/4	88,851	1/4	73,832	1/4	58,812	1/4	43,796	1/4	28,790	1/4	13,771	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	88,538	1/2	73,519	1/2	58,499	1/2	43,484	1/2	28,477	1/2	13,458	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	88,226	3/4	73,206	3/4	58,186	3/4	43,171	3/4	28,165	3/4	13,145	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	87,913	1	72,893	1	57,873	1	42,859	1	27,852	1	12,832	1	1	1	1	1	1	1	1
1/4	87,600	1/4	72,580	1/4	57,560	1/4	42,546	1/4	27,539	1/4	12,519	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	87,287	1/2	72,267	1/2	57,247	1/2	42,234	1/2	27,226	1/2	12,207	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,974	3/4	71,954	3/4	56,934	3/4	41,922	3/4	26,913	3/4	11,894	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	86,661	2	71,641	2	56,621	2	41,609	2	26,600	2	11,581	2	2	2	2	2	2	2	2
1/4	86,348	1/4	71,328	1/4	56,308	1/4	41,297	1/4	26,287	1/4	11,268	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	86,035	1/2	71,015	1/2	55,996	1/2	40,984	1/2	25,974	1/2	10,955	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,722	3/4	70,702	3/4	55,683	3/4	40,672	3/4	25,661	3/4	10,642	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	85,409	3	70,390	3	55,370	3	40,359	3	25,348	3	10,329	3	3	3	3	3	3	3	3
1/4	85,096	1/4	70,077	1/4	55,057	1/4	40,047	1/4	25,036	1/4	10,016	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,783	1/2	69,764	1/2	54,744	1/2	39,735	1/2	24,723	1/2	9,703	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,471	3/4	69,451	3/4	54,431	3/4	39,422	3/4	24,410	3/4	9,390	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	84,158	4	69,138	4	54,118	4	39,110	4	24,097	4	9,077	4	4	4	4	4	4	4	4
1/4	83,845	1/4	68,825	1/4	53,805	1/4	38,797	1/4	23,784	1/4	8,765	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,532	1/2	68,512	1/2	53,492	1/2	38,485	1/2	23,471	1/2	8,452	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,219	3/4	68,199	3/4	53,179	3/4	38,173	3/4	23,158	3/4	8,139	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	82,906	5	67,886	5	52,866	5	37,860	5	22,845	5	7,826	5	5	5	5	5	5	5	5
1/4	82,593	1/4	67,573	1/4	52,554	1/4	37,548	1/4	22,532	1/4	7,513	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,280	1/2	67,260	1/2	52,241	1/2	37,235	1/2	22,219	1/2	7,200	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,967	3/4	66,947	3/4	51,928	3/4	36,923	3/4	21,906	3/4	6,887	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	81,654	6	66,635	6	51,615	6	36,611	6	21,594	6	6,574	6	6	6	6	6	6	6	6
1/4	81,341	1/4	66,322	1/4	51,302	1/4	36,298	1/4	21,281	1/4	6,261	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,029	1/2	66,009	1/2	50,989	1/2	35,986	1/2	20,968	1/2	5,949	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,716	3/4	65,696	3/4	50,676	3/4	35,673	3/4	20,655	3/4	5,636	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	80,403	7	65,383	7	50,363	7	35,361	7	20,342	7	5,323	7	7	7	7	7	7	7	7
1/4	80,090	1/4	65,070	1/4	50,050	1/4	35,048	1/4	20,029	1/4	5,010	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,777	1/2	64,757	1/2	49,737	1/2	34,735	1/2	19,716	1/2	4,698	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,464	3/4	64,444	3/4	49,424	3/4	34,423	3/4	19,403	3/4	4,385	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	79,151	8	64,131	8	49,111	8	34,110	8	19,090	8	4,073	8	8	8	8	8	8	8	8
1/4	78,838	1/4	63,818	1/4	48,799	1/4	33,797	1/4	18,777	1/4	3,761	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,525	1/2	63,505	1/2	48,486	1/2	33,484	1/2	18,465	1/2	3,449	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,212	3/4	63,193	3/4	48,173	3/4	33,171	3/4	18,152	3/4	3,137	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	77,899	9	62,880	9	47,860	9	32,858	9	17,839	9	2,845	9	9	9	9	9	9	9	9
1/4	77,586	1/4	62,567	1/4	47,547	1/4	32,545	1/4	17,526	1/4	2,552	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,274	1/2	62,254	1/2	47,234	1/2	32,232	1/2	17,213	1/2	2,260	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,961	3/4	61,941	3/4	46,922	3/4	31,919	3/4	16,900	3/4	1,967	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	76,648	10	61,628	10	46,609	10	31,606	10	16,587	10	1,732	10	10	10	10	10	10	10	10
1/4	76,335	1/4	61,315	1/4	46,296	1/4	31,294	1/4	16,274	1/4	1,498	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,022	1/2	61,002	1/2	45,984	1/2	30,981	1/2	15,961	1/2	1,263	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,709	3/4	60,689	3/4	45,671	3/4	30,668	3/4	15,648	3/4	1,028	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	75,396	11	60,376	11	45,359	11	30,355	11	15,335	11		11	11	11	11	11	11	11	11
1/4	75,083	1/4	60,063	1/4	45,046	1/4	30,042	1/4	15,023	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,770	1/2	59,750	1/2	44,733	1/2	29,729	1/2	14,710	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,457	3/4	59,438	3/4	44,421	3/4	29,416	3/4	14,397	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.

STRAPPED: 08/12/2013 CL - SW
CALCULATED: 08/12/2013 CL
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HFL 425"

PORT SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,801	0	3,650	0	2,497	0	1,345	0	192	0		0		0	
1/4		1/4		1/4	4,777	1/4	3,626	1/4	2,473	1/4	1,321	1/4	168	1/4		1/4		1/4	
1/2		1/2		1/2	4,754	1/2	3,602	1/2	2,449	1/2	1,297	1/2	144	1/2		1/2		1/2	
3/4		3/4		3/4	4,730	3/4	3,578	3/4	2,426	3/4	1,273	3/4	120	3/4		3/4		3/4	
1		1		1	4,706	1	3,553	1	2,402	1	1,249	1	96	1		1		1	
1/4		1/4		1/4	4,682	1/4	3,529	1/4	2,378	1/4	1,225	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,658	1/2	3,505	1/2	2,354	1/2	1,201	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,634	3/4	3,481	3/4	2,330	3/4	1,177	3/4		3/4		3/4		3/4	
2		2		2	4,610	2	3,457	2	2,306	2	1,153	2		2		2		2	
1/4		1/4		1/4	4,586	1/4	3,433	1/4	2,282	1/4	1,129	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,562	1/2	3,409	1/2	2,258	1/2	1,105	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,538	3/4	3,385	3/4	2,234	3/4	1,081	3/4		3/4		3/4		3/4	
3		3		3	4,514	3	3,361	3	2,210	3	1,057	3		3		3		3	
1/4		1/4		1/4	4,490	1/4	3,337	1/4	2,186	1/4	1,033	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,466	1/2	3,313	1/2	2,162	1/2	1,009	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,442	3/4	3,289	3/4	2,138	3/4	985	3/4		3/4		3/4		3/4	
4		4		4	4,418	4	3,265	4	2,114	4	961	4		4		4		4	
1/4		1/4		1/4	4,394	1/4	3,241	1/4	2,090	1/4	937	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,370	1/2	3,217	1/2	2,066	1/2	913	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,346	3/4	3,193	3/4	2,042	3/4	889	3/4		3/4		3/4		3/4	
5		5		5	4,322	5	3,169	5	2,017	5	865	5		5		5		5	
1/4		1/4		1/4	4,298	1/4	3,145	1/4	1,993	1/4	841	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,274	1/2	3,121	1/2	1,969	1/2	817	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,250	3/4	3,097	3/4	1,945	3/4	793	3/4		3/4		3/4		3/4	
6		6		6	4,226	6	3,073	6	1,921	6	769	6		6		6		6	
1/4		1/4		1/4	4,202	1/4	3,049	1/4	1,897	1/4	745	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,178	1/2	3,025	1/2	1,873	1/2	721	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,154	3/4	3,001	3/4	1,849	3/4	697	3/4		3/4		3/4		3/4	
7		7		7	4,130	7	2,977	7	1,825	7	673	7		7		7		7	
1/4		1/4		1/4	4,106	1/4	2,953	1/4	1,801	1/4	649	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,082	1/2	2,929	1/2	1,777	1/2	625	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,058	3/4	2,905	3/4	1,753	3/4	601	3/4		3/4		3/4		3/4	
8		8	5,131	8	4,034	8	2,881	8	1,729	8	577	8		8		8		8	
1/4		1/4	5,119	1/4	4,010	1/4	2,857	1/4	1,705	1/4	552	1/4		1/4		1/4		1/4	
1/2		1/2	5,108	1/2	3,986	1/2	2,833	1/2	1,681	1/2	528	1/2		1/2		1/2		1/2	
3/4		3/4	5,096	3/4	3,962	3/4	2,809	3/4	1,657	3/4	504	3/4		3/4		3/4		3/4	
9		9	5,084	9	3,938	9	2,785	9	1,633	9	480	9		9		9		9	
1/4		1/4	5,061	1/4	3,914	1/4	2,761	1/4	1,609	1/4	456	1/4		1/4		1/4		1/4	
1/2		1/2	5,037	1/2	3,890	1/2	2,737	1/2	1,585	1/2	432	1/2		1/2		1/2		1/2	
3/4		3/4	5,014	3/4	3,866	3/4	2,713	3/4	1,561	3/4	408	3/4		3/4		3/4		3/4	
10		10	4,990	10	3,842	10	2,689	10	1,537	10	384	10		10		10		10	
1/4		1/4	4,967	1/4	3,818	1/4	2,665	1/4	1,513	1/4	360	1/4		1/4		1/4		1/4	
1/2		1/2	4,943	1/2	3,794	1/2	2,641	1/2	1,489	1/2	336	1/2		1/2		1/2		1/2	
3/4		3/4	4,919	3/4	3,770	3/4	2,617	3/4	1,465	3/4	312	3/4		3/4		3/4		3/4	
11		11	4,896	11	3,746	11	2,593	11	1,441	11	288	11		11		11		11	
1/4		1/4	4,872	1/4	3,722	1/4	2,569	1/4	1,417	1/4	264	1/4		1/4		1/4		1/4	
1/2		1/2	4,848	1/2	3,698	1/2	2,545	1/2	1,393	1/2	240	1/2		1/2		1/2		1/2	
3/4		3/4	4,825	3/4	3,674	3/4	2,521	3/4	1,369	3/4	216	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 TO THREADS ON "MMC" VALVE.

STRAPPED: 08/12/2013 CL - SW
CALCULATED: 08/12/2013 CL
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HFL 425"

STBD SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	4,825	0	3,674	0	2,521	0	1,369	0	216	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	4,801	1/4	3,650	1/4	2,497	1/4	1,345	1/4	192	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	4,777	1/2	3,626	1/2	2,473	1/2	1,321	1/2	168	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	4,754	3/4	3,602	3/4	2,449	3/4	1,297	3/4	144	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	4,730	1	3,578	1	2,426	1	1,273	1	120	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	4,706	1/4	3,553	1/4	2,402	1/4	1,249	1/4	96	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	4,682	1/2	3,529	1/2	2,378	1/2	1,225	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	4,658	3/4	3,505	3/4	2,354	3/4	1,201	3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	4,634	2	3,481	2	2,330	2	1,177	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	4,610	1/4	3,457	1/4	2,306	1/4	1,153	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	4,586	1/2	3,433	1/2	2,282	1/2	1,129	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	4,562	3/4	3,409	3/4	2,258	3/4	1,105	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	4,538	3	3,385	3	2,234	3	1,081	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	4,514	1/4	3,361	1/4	2,210	1/4	1,057	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	4,490	1/2	3,337	1/2	2,186	1/2	1,033	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	4,466	3/4	3,313	3/4	2,162	3/4	1,009	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4,442	4	3,289	4	2,138	4	985	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	4,418	1/4	3,265	1/4	2,114	1/4	961	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	4,394	1/2	3,241	1/2	2,090	1/2	937	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	4,370	3/4	3,217	3/4	2,066	3/4	913	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	4,346	5	3,193	5	2,042	5	889	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	4,322	1/4	3,169	1/4	2,017	1/4	865	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	4,298	1/2	3,145	1/2	1,993	1/2	841	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	4,274	3/4	3,121	3/4	1,969	3/4	817	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	4,250	6	3,097	6	1,945	6	793	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	4,226	1/4	3,073	1/4	1,921	1/4	769	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	4,202	1/2	3,049	1/2	1,897	1/2	745	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	4,178	3/4	3,025	3/4	1,873	3/4	721	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	4,154	7	3,001	7	1,849	7	697	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	4,130	1/4	2,977	1/4	1,825	1/4	673	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	4,106	1/2	2,953	1/2	1,801	1/2	649	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	4,082	3/4	2,929	3/4	1,777	3/4	625	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	4,058	8	2,905	8	1,753	8	601	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	5,131	1/4	4,034	1/4	2,881	1/4	1,729	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	5,119	1/2	4,010	1/2	2,857	1/2	1,705	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	5,108	3/4	3,986	3/4	2,833	3/4	1,681	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	5,096	9	3,962	9	2,809	9	1,657	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	5,084	1/4	3,938	1/4	2,785	1/4	1,633	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	5,061	1/2	3,914	1/2	2,761	1/2	1,609	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	5,037	3/4	3,890	3/4	2,737	3/4	1,585	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	5,014	10	3,866	10	2,713	10	1,561	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	4,990	1/4	3,842	1/4	2,689	1/4	1,537	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	4,967	1/2	3,818	1/2	2,665	1/2	1,513	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	4,943	3/4	3,794	3/4	2,641	3/4	1,489	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	4,919	11	3,770	11	2,617	11	1,465	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	4,896	1/4	3,746	1/4	2,593	1/4	1,441	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	4,872	1/2	3,722	1/2	2,569	1/2	1,417	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	4,848	3/4	3,698	3/4	2,545	3/4	1,393	3/4	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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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

STRAPPED: 08/12/2013 CL - SW
CALCULATED: 08/12/2013 CL
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HFL 425"

FUEL TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 1/2"

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

STRAPPED: 08/12/2013 CL - SW
CALCULATED: 08/12/2013 CL
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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