BARGE "HFL 427"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
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 INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

October 22, 2013

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

http://www.pmacorp.net

BARGE "HFL 427"

1 PORT

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	921	0	12,741	0	26,709	0	41,107	0	55,443	0	69,798	0	84,197	0	98,595	0	112,989	0	127,380
1/4	1,098	1/4	13,016	1/4	27,009	1/4	41,407	1/4	55,740	1/4	70,098	1/4	84,497	1/4	98,895	1/4	113,289	1/4	127,680
1/2	1,275	1/2	13,291	1/2	27,309	1/2	41,707	1/2	56,038	1/2	70,398	1/2	84,797	1/2	99,195	1/2	113,588	1/2	127,980
3/4	1,452	3/4	13,566	3/4	27,609	3/4	42,007	3/4	56,336	3/4	70,698	3/4	85,097	3/4	99,495	3/4	113,888	3/4	128,280
1	1,629	1	13,841	1	27,909	1	42,306	1	56,633	1	70,998	1	85,397	1	99,795	1	114,188	1	128,580
1/4	1,847	1/4	14,119	1/4	28,209	1/4	42,606	1/4	56,931	1/4	71,298	1/4	85,697	1/4	100,095	1/4	114,488	1/4	128,880
1/2	2,064	1/2	14,397	1/2	28,509	1/2	42,906	1/2	57,228	1/2	71,598	1/2	85,997	1/2	100,395	1/2	114,788	1/2	129,179
3/4	2,282	3/4	14,676	3/4	28,809	3/4	43,206	3/4	57,526	3/4	71,898	3/4	86,296	3/4	100,695	3/4	115,088	3/4	129,479
2	2,499	2	14,954	2	29,108	2	43,506	2	57,824	2	72,198	2	86,596	2	100,995	2	115,387	2	129,779
1/4	2,738	1/4	15,236	1/4	29,408	1/4	43,806	1/4	58,121	1/4	72,498	1/4	86,896	1/4	101,295	1/4	115,687	1/4	130,079
1/2	2,977	1/2	15,517	1/2	29,708	1/2	44,106	1/2	58,419	1/2	72,798	1/2	87,196	1/2	101,595	1/2	115,987	1/2	130,379
3/4	3,216	3/4	15,799	3/4	30,008	3/4	44,406	3/4	58,717	3/4	73,098	3/4	87,496	3/4	101,895	3/4	116,287	3/4	130,679
3	3,454	3	16,080	3	30,308	3	44,706	3	59,014	3	73,398	3	87,796	3	102,195	3	116,587	3	130,978
1/4	3,698	1/4	16,365	1/4	30,608	1/4	45,006	1/4	59,312	1/4	73,698	1/4	88,096	1/4	102,494	1/4	116,886	1/4	131,278
1/2	3,941	1/2	16,650	1/2	30,908	1/2	45,306	1/2	59,610	1/2	73,998	1/2	88,396	1/2	102,794	1/2	117,186	1/2	131,578
3/4	4,184	3/4	16,935	3/4	31,208	3/4	45,606	3/4	59,908	3/4	74,298	3/4	88,696	3/4	103,094	3/4	117,486	3/4	131,878
4	4,428	4	17,220	4	31,508	4	45,906	4	60,205	4	74,598	4	88,996	4	103,394	4	117,786	4	132,178
1/4	4,675	1/4	17,509	1/4	31,808	1/4	46,205	1/4	60,504	1/4	74,898	1/4	89,296	1/4	103,694	1/4	118,086	1/4	132,478
1/2	4,923	1/2	17,797	1/2	32,108	1/2	46,504	1/2	60,803	1/2	75,198	1/2	89,596	1/2	103,994	1/2	118,386	1/2	132,777
3/4	5,170	3/4	18,085	3/4	32,408	3/4	46,804	3/4	61,101	3/4	75,498	3/4	89,896	3/4	104,294	3/4	118,685	3/4	133,077
5	5,417	5	18,373	5	32,708	5	47,103	5	61,400	5	75,798	5	90,196	5	104,593	5	118,985	5	133,377
1/4	5,669	1/4	18,665	1/4	33,008	1/4	47,401	1/4	61,700	1/4	76,098	1/4	90,496	1/4	104,893	1/4	119,285	1/4	133,677
1/2	5,920	1/2	18,957	1/2	33,308	1/2	47,700	1/2	62,000	1/2	76,398	1/2	90,796	1/2	105,193	1/2	119,585	1/2	133,977
3/4	6,171	3/4	19,248	3/4	33,608	3/4	47,998	3/4	62,300	3/4	76,698	3/4	91,096	3/4	105,493	3/4	119,885	3/4	134,277
6	6,422	6	19,540	6	33,908	6	48,297	6	62,599	6	76,998	6	91,396	6	105,793	6	120,185	6	134,576
1/4	6,677	1/4	19,835	1/4	34,208	1/4	48,595	1/4	62,899	1/4	77,298	1/4	91,696	1/4	106,093	1/4	120,484	1/4	134,876
1/2	6,932	1/2	20,130	1/2	34,508	1/2	48,894	1/2	63,199	1/2	77,598	1/2	91,996	1/2	106,392	1/2	120,784	1/2	135,176
3/4	7,187	3/4	20,425	3/4	34,808	3/4	49,192	3/4	63,499	3/4	77,897	3/4	92,296	3/4	106,692	3/4	121,084	3/4	135,476
7	7,442	7	20,720	7	35,108	7	49,490	7	63,799	7	78,197	7	92,596	7	106,992	7	121,384	7	135,776
1/4	7,700	1/4	21,018	1/4	35,408	1/4	49,788	1/4	64,099	1/4	78,497	1/4	92,896	1/4	107,292	1/4	121,684	1/4	136,076
1/2	7,958	1/2	21,315	1/2	35,707	1/2	50,086	1/2	64,399	1/2	78,797	1/2	93,196	1/2	107,592	1/2	121,984	1/2	136,375
3/4	8,217	3/4	21,613	3/4	36,007	3/4	50,384	3/4	64,699	3/4	79,097	3/4	93,496	3/4	107,892	3/4	122,283	3/4	136,675
8	8,475	8	21,911	8	36,307	8	50,681	8	64,999	8	79,397	8	93,796	8	108,191	8	122,583	8	136,975
1/4	8,737	1/4	22,211	1/4	36,607	1/4	50,979	1/4	65,299	1/4	79,697	1/4	94,096	1/4	108,491	1/4	122,883	1/4	137,275
1/2	8,998	1/2	22,510	1/2	36,907	1/2	51,277	1/2	65,599	1/2	79,997	1/2	94,396	1/2	108,791	1/2	123,183	1/2	137,575
3/4	9,260	3/4	22,810	3/4	37,207	3/4	51,574	3/4	65,899	3/4	80,297	3/4	94,695	3/4	109,091	3/4	123,483	3/4	137,874
9	9,521	9	23,109	9	37,507	9	51,872	9	66,199	9	80,597	9	94,995	9	109,391	9	123,783	9	138,174
1/4	9,786	1/4	23,409	1/4	37,807	1/4	52,169	1/4	66,499	1/4	80,897	1/4	95,295	1/4	109,691	1/4	124,082	1/4	138,474
1/2	10,051	1/2	23,709	1/2	38,107	1/2	52,467	1/2	66,799	1/2	81,197	1/2	95,595	1/2	109,990	1/2	124,382	1/2	138,774
3/4	10,316	3/4	24,009	3/4	38,407	3/4	52,765	3/4	67,099	3/4	81,497	3/4	95,895	3/4	110,290	3/4	124,682	3/4	139,074
10	10,581	10	24,309	10	38,707	10	53,062	10	67,399	10	81,797	10	96,195	10	110,590	10	124,982	10	139,374
1/4	10,850	1/4	24,609	1/4	39,007	1/4	53,360	1/4	67,699	1/4	82,097	1/4	96,495	1/4	110,890	1/4	125,282	1/4	139,673
1/2	11,118	1/2	24,909	1/2	39,307	1/2	53,657	1/2	67,999	1/2	82,397	1/2	96,795	1/2	111,190	1/2	125,582	1/2	139,973
3/4	11,386	3/4	25,209	3/4	39,607	3/4	53,955	3/4	68,299	3/4	82,697	3/4	97,095	3/4	111,490	3/4	125,881	3/4	140,273
11	11,654	11	25,509	11	39,907	11	54,253	11	68,599	11	82,997	11	97,395	11	111,789	11	126,181	11	140,573
1/4	11,926	1/4	25,809	1/4	40,207	1/4	54,550	1/4	68,899	1/4	83,297	1/4	97,695	1/4	112,089	1/4	126,481	1/4	140,873
1/2	12,198	1/2	26,109	1/2	40,507	1/2	54,848	1/2	69,199	1/2	83,597	1/2	97,995	1/2	112,389	1/2	126,781	1/2	141,173
3/4	12,469	3/4	26,409	3/4	40,807	3/4	55,145	3/4	69,498	3/4	83,897	3/4	98,295	3/4	112,689	3/4	127,081	3/4	141,472

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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 427"

1 PORT

INNAGE 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	141,772	0	156,164	0	170,547	0	184,895	0	199,111	0		0		0		0		0	
1/4	142,072	1/4	156,464	1/4	170,846	1/4	185,194	1/4	199,365	1/4		1/4		1/4		1/4		1/4	
1/2	142,372	1/2	156,764	1/2	171,145	1/2	185,493	1/2	199,618	1/2		1/2		1/2		1/2		1/2	
3/4	142,672	3/4	157,064	3/4	171,443	3/4	185,791	3/4	199,871	3/4		3/4		3/4		3/4		3/4	
1	142,972	1	157,363	1	171,742	1	186,090	1	200,124	1		1		1		1		1	
1/4	143,271	1/4	157,663	1/4	172,041	1/4	186,389	1/4	200,334	1/4		1/4		1/4		1/4		1/4	
1/2	143,571	1/2	157,963	1/2	172,340	1/2	186,688	1/2	200,545	1/2		1/2		1/2		1/2		1/2	
3/4	143,871	3/4	158,263	3/4	172,639	3/4	186,987	3/4	200,755	3/4		3/4		3/4		3/4		3/4	
2	144,171	2	158,563	2	172,938	2	187,286	2	200,965	2		2		2		2		2	
1/4	144,471	1/4	158,863	1/4	173,237	1/4	187,585	1/4	201,133	1/4		1/4		1/4		1/4		1/4	
1/2	144,771	1/2	159,162	1/2	173,536	1/2	187,884	1/2	201,301	1/2		1/2		1/2		1/2		1/2	
3/4	145,070	3/4	159,462	3/4	173,835	3/4	188,183	3/4	201,468	3/4		3/4		3/4		3/4		3/4	
3	145,370	3	159,762	3	174,134	3	188,482	3	201,636	3		3		3		3		3	
1/4	145,670	1/4	160,062	1/4	174,433	1/4	188,781	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	145,970	1/2	160,362	1/2	174,732	1/2	189,080	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	146,270	3/4	160,661	3/4	175,030	3/4	189,378	3/4		3/4		3/4		3/4		3/4		3/4	
4	146,570	4	160,961	4	175,329	4	189,677	4		4		4		4		4		4	
1/4	146,869	1/4	161,261	1/4	175,628	1/4	189,976	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	147,169	1/2	161,561	1/2	175,927	1/2	190,275	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	147,469	3/4	161,861	3/4	176,226	3/4	190,574	3/4		3/4		3/4		3/4		3/4		3/4	
5	147,769	5	162,161	5	176,525	5	190,873	5		5		5		5		5		5	
1/4	148,069	1/4	162,460	1/4	176,824	1/4	191,170	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,369	1/2	162,760	1/2	177,123	1/2	191,468	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	148,668	3/4	163,060	3/4	177,422	3/4	191,765	3/4		3/4		3/4		3/4		3/4		3/4	
6	148,968	6	163,360	6	177,721	6	192,063	6		6		6		6		6		6	
1/4	149,268	1/4	163,660	1/4	178,020	1/4	192,359	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	149,568	1/2	163,960	1/2	178,319	1/2	192,655	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	149,868	3/4	164,259	3/4	178,617	3/4	192,951	3/4		3/4		3/4		3/4		3/4		3/4	
7	150,167	7	164,559	7	178,916	7	193,247	7		7		7		7		7		7	
1/4	150,467	1/4	164,859	1/4	179,215	1/4	193,542	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150,767	1/2	165,159	1/2	179,514	1/2	193,838	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,067	3/4	165,459	3/4	179,813	3/4	194,134	3/4		3/4		3/4		3/4		3/4		3/4	
8	151,367	8	165,759	8	180,112	8	194,430	8		8		8		8		8		8	
1/4	151,667	1/4	166,058	1/4	180,411	1/4	194,726	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,966	1/2	166,358	1/2	180,710	1/2	195,022	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,266	3/4	166,658	3/4	181,009	3/4	195,318	3/4		3/4		3/4		3/4		3/4		3/4	
9	152,566	9	166,958	9	181,308	9	195,614	9		9		9		9		9		9	
1/4	152,866	1/4	167,257	1/4	181,607	1/4	195,910	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,166	1/2	167,557	1/2	181,906	1/2	196,205	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,466	3/4	167,856	3/4	182,204	3/4	196,501	3/4		3/4		3/4		3/4		3/4		3/4	
10	153,765	10	168,155	10	182,503	10	196,796	10		10		10		10		10		10	
1/4	154,065	1/4	168,454	1/4	182,802	1/4	197,091	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,365	1/2	168,753	1/2	183,101	1/2	197,385	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,665	3/4	169,052	3/4	183,400	3/4	197,680	3/4		3/4		3/4		3/4		3/4		3/4	
11	154,965	11	169,351	11	183,699	11	197,974	11		11		11		11		11		11	
1/4	155,265	1/4	169,650	1/4	183,998	1/4	198,259	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,564	1/2	169,949	1/2	184,297	1/2	198,543	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,864	3/4	170,248	3/4	184,596	3/4	198,827	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 427"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	921	0	12,741	0	26,708	0	41,106	0	55,499	0	69,894	0	84,292	0	98,690	0	113,084	0	127,475
1/4	1,098	1/4	13,016	1/4	27,008	1/4	41,406	1/4	55,799	1/4	70,194	1/4	84,592	1/4	98,990	1/4	113,383	1/4	127,775
1/2	1,275	1/2	13,291	1/2	27,308	1/2	41,706	1/2	56,098	1/2	70,494	1/2	84,892	1/2	99,290	1/2	113,683	1/2	128,075
3/4	1,452	3/4	13,566	3/4	27,608	3/4	42,006	3/4	56,398	3/4	70,794	3/4	85,192	3/4	99,590	3/4	113,983	3/4	128,375
1	1,629	1	13,841	1	27,908	1	42,306	1	56,698	1	71,094	1	85,492	1	99,890	1	114,283	1	128,674
1/4	1,847	1/4	14,119	1/4	28,208	1/4	42,606	1/4	56,998	1/4	71,394	1/4	85,792	1/4	100,190	1/4	114,583	1/4	128,974
1/2	2,064	1/2	14,397	1/2	28,508	1/2	42,906	1/2	57,297	1/2	71,694	1/2	86,092	1/2	100,490	1/2	114,883	1/2	129,274
3/4	2,282	3/4	14,675	3/4	28,808	3/4	43,206	3/4	57,597	3/4	71,994	3/4	86,392	3/4	100,790	3/4	115,182	3/4	129,574
2	2,499	2	14,954	2	29,108	2	43,506	2	57,897	2	72,294	2	86,692	2	101,090	2	115,482	2	129,874
1/4	2,738	1/4	15,235	1/4	29,408	1/4	43,805	1/4	58,197	1/4	72,594	1/4	86,992	1/4	101,390	1/4	115,782	1/4	130,173
1/2	2,977	1/2	15,517	1/2	29,708	1/2	44,105	1/2	58,496	1/2	72,894	1/2	87,292	1/2	101,690	1/2	116,082	1/2	130,473
3/4	3,216	3/4	15,799	3/4	30,008	3/4	44,405	3/4	58,796	3/4	73,194	3/4	87,592	3/4	101,990	3/4	116,382	3/4	130,773
3	3,454	3	16,080	3	30,308	3	44,705	3	59,096	3	73,494	3	87,892	3	102,290	3	116,681	3	131,073
1/4	3,698	1/4	16,365	1/4	30,608	1/4	45,005	1/4	59,396	1/4	73,794	1/4	88,192	1/4	102,590	1/4	116,981	1/4	131,373
1/2	3,941	1/2	16,650	1/2	30,908	1/2	45,305	1/2	59,696	1/2	74,094	1/2	88,492	1/2	102,890	1/2	117,281	1/2	131,673
3/4	4,184	3/4	16,935	3/4	31,208	3/4	45,605	3/4	59,996	3/4	74,394	3/4	88,792	3/4	103,189	3/4	117,581	3/4	131,972
4	4,428	4	17,220	4	31,508	4	45,905	4	60,296	4	74,694	4	89,092	4	103,489	4	117,881	4	132,272
1/4	4,675	1/4	17,508	1/4	31,808	1/4	46,205	1/4	60,596	1/4	74,994	1/4	89,392	1/4	103,789	1/4	118,181	1/4	132,572
1/2	4,923	1/2	17,797	1/2	32,107	1/2	46,505	1/2	60,896	1/2	75,294	1/2	89,691	1/2	104,089	1/2	118,480	1/2	132,872
3/4	5,170	3/4	18,085	3/4	32,407	3/4	46,805	3/4	61,195	3/4	75,593	3/4	89,991	3/4	104,389	3/4	118,780	3/4	133,172
5	5,417	5	18,373	5	32,707	5	47,105	5	61,495	5	75,893	5	90,291	5	104,689	5	119,080	5	133,472
1/4	5,669	1/4	18,665	1/4	33,007	1/4	47,405	1/4	61,795	1/4	76,193	1/4	90,591	1/4	104,988	1/4	119,380	1/4	133,771
1/2	5,920	1/2	18,956	1/2	33,307	1/2	47,705	1/2	62,095	1/2	76,493	1/2	90,891	1/2	105,288	1/2	119,680	1/2	134,071
3/4	6,171	3/4	19,248	3/4	33,607	3/4	48,005	3/4	62,395	3/4	76,793	3/4	91,191	3/4	105,588	3/4	119,980	3/4	134,371
6	6,422	6	19,540	6	33,907	6	48,305	6	62,695	6	77,093	6	91,491	6	105,888	6	120,279	6	134,671
1/4	6,677	1/4	19,835	1/4	34,207	1/4	48,605	1/4	62,995	1/4	77,393	1/4	91,791	1/4	106,188	1/4	120,579	1/4	134,971
1/2	6,932	1/2	20,130	1/2	34,507	1/2	48,904	1/2	63,295	1/2	77,693	1/2	92,091	1/2	106,488	1/2	120,879	1/2	135,271
3/4	7,187	3/4	20,424	3/4	34,807	3/4	49,204	3/4	63,595	3/4	77,993	3/4	92,391	3/4	106,787	3/4	121,179	3/4	135,570
7	7,442	7	20,719	7	35,107	7	49,504	7	63,895	7	78,293	7	92,691	7	107,087	7	121,479	7	135,870
1/4	7,700	1/4	21,017	1/4	35,407	1/4	49,804	1/4	64,195	1/4	78,593	1/4	92,991	1/4	107,387	1/4	121,778	1/4	136,170
1/2	7,958	1/2	21,315	1/2	35,707	1/2	50,104	1/2	64,495	1/2	78,893	1/2	93,291	1/2	107,687	1/2	122,078	1/2	136,470
3/4	8,217	3/4	21,613	3/4	36,007	3/4	50,404	3/4	64,795	3/4	79,193	3/4	93,591	3/4	107,987	3/4	122,378	3/4	136,770
8	8,475	8	21,911	8	36,307	8	50,703	8	65,095	8	79,493	8	93,891	8	108,286	8	122,678	8	137,070
1/4	8,737	1/4	22,210	1/4	36,607	1/4	51,003	1/4	65,395	1/4	79,793	1/4	94,191	1/4	108,586	1/4	122,978	1/4	137,369
1/2	8,998	1/2	22,510	1/2	36,907	1/2	51,303	1/2	65,695	1/2	80,093	1/2	94,491	1/2	108,886	1/2	123,278	1/2	137,669
3/4	9,260	3/4	22,809	3/4	37,207	3/4	51,603	3/4	65,995	3/4	80,393	3/4	94,791	3/4	109,186	3/4	123,577	3/4	137,969
9	9,521	9	23,109	9	37,507	9	51,902	9	66,295	9	80,693	9	95,091	9	109,486	9	123,877	9	138,269
1/4	9,786	1/4	23,409	1/4	37,806	1/4	52,202	1/4	66,595	1/4	80,993	1/4	95,391	1/4	109,786	1/4	124,177	1/4	138,569
1/2	10,051	1/2	23,709	1/2	38,106	1/2	52,502	1/2	66,895	1/2	81,293	1/2	95,691	1/2	110,085	1/2	124,477	1/2	138,868
3/4	10,316	3/4	24,009	3/4	38,406	3/4	52,801	3/4	67,195	3/4	81,593	3/4	95,991	3/4	110,385	3/4	124,777	3/4	139,168
10	10,581	10	24,309	10	38,706	10	53,101	10	67,495	10	81,893	10	96,291	10	110,685	10	125,077	10	139,468
1/4	10,849	1/4	24,609	1/4	39,006	1/4	53,401	1/4	67,795	1/4	82,193	1/4	96,591	1/4	110,985	1/4	125,376	1/4	139,768
1/2	11,118	1/2	24,909	1/2	39,306	1/2	53,701	1/2	68,095	1/2	82,492	1/2	96,890	1/2	111,285	1/2	125,676	1/2	140,068
3/4	11,386	3/4	25,209	3/4	39,606	3/4	54,000	3/4	68,394	3/4	82,792	3/4	97,190	3/4	111,584	3/4	125,976	3/4	140,368
11	11,654	11	25,509	11	39,906	11	54,300	11	68,694	11	83,092	11	97,490	11	111,884	11	126,276	11	140,667
1/4	11,926	1/4	25,809	1/4	40,206	1/4	54,600	1/4	68,994	1/4	83,392	1/4	97,790	1/4	112,184	1/4	126,576	1/4	140,967
1/2	12,198	1/2	26,108	1/2	40,506	1/2	54,900	1/2	69,294	1/2	83,692	1/2	98,090	1/2	112,484	1/2	126,875	1/2	141,267
3/4	12,469	3/4	26,408	3/4	40,806	3/4	55,199	3/4	69,594	3/4	83,992	3/4	98,390	3/4	112,784	3/4	127,175	3/4	141,567

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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

1 STBD

INNAGE 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	141,867	0	156,259	0	170,641	0	184,989	0	199,206	0		0		0		0		0	
1/4	142,167	1/4	156,558	1/4	170,940	1/4	185,288	1/4	199,459	1/4		1/4		1/4		1/4		1/4	
1/2	142,466	1/2	156,858	1/2	171,239	1/2	185,587	1/2	199,712	1/2		1/2		1/2		1/2		1/2	
3/4	142,766	3/4	157,158	3/4	171,538	3/4	185,886	3/4	199,965	3/4		3/4		3/4		3/4		3/4	
1	143,066	1	157,458	1	171,837	1	186,185	1	200,218	1		1		1		1		1	
1/4	143,366	1/4	157,758	1/4	172,136	1/4	186,484	1/4	200,429	1/4		1/4		1/4		1/4		1/4	
1/2	143,666	1/2	158,057	1/2	172,435	1/2	186,783	1/2	200,639	1/2		1/2		1/2		1/2		1/2	
3/4	143,966	3/4	158,357	3/4	172,734	3/4	187,081	3/4	200,849	3/4		3/4		3/4		3/4		3/4	
2	144,265	2	158,657	2	173,032	2	187,380	2	201,060	2		2		2		2		2	
1/4	144,565	1/4	158,957	1/4	173,331	1/4	187,679	1/4	201,227	1/4		1/4		1/4		1/4		1/4	
1/2	144,865	1/2	159,257	1/2	173,630	1/2	187,978	1/2	201,395	1/2		1/2		1/2		1/2		1/2	
3/4	145,165	3/4	159,557	3/4	173,929	3/4	188,277	3/4	201,562	3/4		3/4		3/4		3/4		3/4	
3	145,465	3	159,856	3	174,228	3	188,576	3	201,730	3		3		3		3		3	
1/4	145,765	1/4	160,156	1/4	174,527	1/4	188,875	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	146,064	1/2	160,456	1/2	174,826	1/2	189,174	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	146,364	3/4	160,756	3/4	175,125	3/4	189,473	3/4		3/4		3/4		3/4		3/4		3/4	
4	146,664	4	161,056	4	175,424	4	189,772	4		4		4		4		4		4	
1/4	146,964	1/4	161,356	1/4	175,723	1/4	190,071	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	147,264	1/2	161,655	1/2	176,022	1/2	190,370	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	147,563	3/4	161,955	3/4	176,321	3/4	190,668	3/4		3/4		3/4		3/4		3/4		3/4	
5	147,863	5	162,255	5	176,619	5	190,967	5		5		5		5		5		5	
1/4	148,163	1/4	162,555	1/4	176,918	1/4	191,265	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,463	1/2	162,855	1/2	177,217	1/2	191,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	148,763	3/4	163,155	3/4	177,516	3/4	191,860	3/4		3/4		3/4		3/4		3/4		3/4	
6	149,063	6	163,454	6	177,815	6	192,157	6		6		6		6		6		6	
1/4	149,362	1/4	163,754	1/4	178,114	1/4	192,453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	149,662	1/2	164,054	1/2	178,413	1/2	192,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	149,962	3/4	164,354	3/4	178,712	3/4	193,045	3/4		3/4		3/4		3/4		3/4		3/4	
7	150,262	7	164,654	7	179,011	7	193,341	7		7		7		7		7		7	
1/4	150,562	1/4	164,954	1/4	179,310	1/4	193,637	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150,862	1/2	165,253	1/2	179,609	1/2	193,933	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,161	3/4	165,553	3/4	179,907	3/4	194,229	3/4		3/4		3/4		3/4		3/4		3/4	
8	151,461	8	165,853	8	180,206	8	194,525	8		8		8		8		8		8	
1/4	151,761	1/4	166,153	1/4	180,505	1/4	194,821	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,061	1/2	166,453	1/2	180,804	1/2	195,117	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,361	3/4	166,752	3/4	181,103	3/4	195,413	3/4		3/4		3/4		3/4		3/4		3/4	
9	152,661	9	167,052	9	181,402	9	195,708	9		9		9		9		9		9	
1/4	152,960	1/4	167,352	1/4	181,701	1/4	196,004	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,260	1/2	167,651	1/2	182,000	1/2	196,299	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,560	3/4	167,950	3/4	182,299	3/4	196,595	3/4		3/4		3/4		3/4		3/4		3/4	
10	153,860	10	168,250	10	182,598	10	196,890	10		10		10		10		10		10	
1/4	154,160	1/4	168,549	1/4	182,897	1/4	197,185	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,460	1/2	168,848	1/2	183,196	1/2	197,480	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,759	3/4	169,147	3/4	183,494	3/4	197,774	3/4		3/4		3/4		3/4		3/4		3/4	
11	155,059	11	169,445	11	183,793	11	198,069	11		11		11		11		11		11	
1/4	155,359	1/4	169,744	1/4	184,092	1/4	198,353	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,659	1/2	170,043	1/2	184,391	1/2	198,637	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,959	3/4	170,342	3/4	184,690	3/4	198,921	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 427"

2 PORT

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,052	0	15,987	0	31,354	0	46,350	0	61,140	0	76,298	0	91,668	0	107,038	0	122,403	0	137,765
1/4	1,292	1/4	16,307	1/4	31,675	1/4	46,658	1/4	61,449	1/4	76,619	1/4	91,988	1/4	107,358	1/4	122,723	1/4	138,085
1/2	1,532	1/2	16,628	1/2	31,995	1/2	46,965	1/2	61,757	1/2	76,939	1/2	92,309	1/2	107,679	1/2	123,043	1/2	138,405
3/4	1,772	3/4	16,948	3/4	32,315	3/4	47,273	3/4	62,066	3/4	77,259	3/4	92,629	3/4	107,999	3/4	123,363	3/4	138,725
1	2,012	1	17,268	1	32,635	1	47,580	1	62,374	1	77,579	1	92,949	1	108,319	1	123,683	1	139,045
1/4	2,310	1/4	17,588	1/4	32,955	1/4	47,888	1/4	62,683	1/4	77,899	1/4	93,269	1/4	108,639	1/4	124,003	1/4	139,365
1/2	2,608	1/2	17,908	1/2	33,276	1/2	48,195	1/2	62,991	1/2	78,220	1/2	93,590	1/2	108,959	1/2	124,323	1/2	139,685
3/4	2,906	3/4	18,229	3/4	33,596	3/4	48,503	3/4	63,299	3/4	78,540	3/4	93,910	3/4	109,280	3/4	124,643	3/4	140,005
2	3,205	2	18,549	2	33,916	2	48,810	2	63,608	2	78,860	2	94,230	2	109,600	2	124,963	2	140,325
1/4	3,522	1/4	18,869	1/4	34,236	1/4	49,118	1/4	63,916	1/4	79,180	1/4	94,550	1/4	109,920	1/4	125,283	1/4	140,645
1/2	3,839	1/2	19,189	1/2	34,556	1/2	49,426	1/2	64,225	1/2	79,500	1/2	94,870	1/2	110,240	1/2	125,603	1/2	140,965
3/4	4,156	3/4	19,509	3/4	34,876	3/4	49,733	3/4	64,533	3/4	79,821	3/4	95,191	3/4	110,560	3/4	125,923	3/4	141,285
3	4,473	3	19,830	3	35,197	3	50,041	3	64,842	3	80,141	3	95,511	3	110,881	3	126,243	3	141,605
1/4	4,791	1/4	20,150	1/4	35,517	1/4	50,349	1/4	65,150	1/4	80,461	1/4	95,831	1/4	111,201	1/4	126,563	1/4	141,925
1/2	5,110	1/2	20,470	1/2	35,837	1/2	50,656	1/2	65,459	1/2	80,781	1/2	96,151	1/2	111,521	1/2	126,883	1/2	142,246
3/4	5,428	3/4	20,790	3/4	36,157	3/4	50,964	3/4	65,767	3/4	81,102	3/4	96,471	3/4	111,841	3/4	127,203	3/4	142,566
4	5,747	4	21,110	4	36,477	4	51,272	4	66,075	4	81,422	4	96,792	4	112,161	4	127,523	4	142,886
1/4	6,066	1/4	21,431	1/4	36,792	1/4	51,580	1/4	66,390	1/4	81,742	1/4	97,112	1/4	112,481	1/4	127,843	1/4	143,206
1/2	6,385	1/2	21,751	1/2	37,106	1/2	51,888	1/2	66,704	1/2	82,062	1/2	97,432	1/2	112,801	1/2	128,163	1/2	143,526
3/4	6,705	3/4	22,071	3/4	37,420	3/4	52,196	3/4	67,018	3/4	82,382	3/4	97,752	3/4	113,121	3/4	128,483	3/4	143,846
5	7,024	5	22,391	5	37,735	5	52,504	5	67,333	5	82,703	5	98,072	5	113,441	5	128,804	5	144,166
1/4	7,344	1/4	22,711	1/4	38,043	1/4	52,813	1/4	67,653	1/4	83,023	1/4	98,393	1/4	113,761	1/4	129,124	1/4	144,486
1/2	7,663	1/2	23,032	1/2	38,352	1/2	53,121	1/2	67,973	1/2	83,343	1/2	98,713	1/2	114,081	1/2	129,444	1/2	144,806
3/4	7,983	3/4	23,352	3/4	38,660	3/4	53,429	3/4	68,293	3/4	83,663	3/4	99,033	3/4	114,401	3/4	129,764	3/4	145,126
6	8,303	6	23,672	6	38,968	6	53,738	6	68,614	6	83,983	6	99,353	6	114,721	6	130,084	6	145,446
1/4	8,623	1/4	23,992	1/4	39,276	1/4	54,046	1/4	68,934	1/4	84,304	1/4	99,673	1/4	115,041	1/4	130,404	1/4	145,766
1/2	8,943	1/2	24,312	1/2	39,584	1/2	54,355	1/2	69,254	1/2	84,624	1/2	99,994	1/2	115,362	1/2	130,724	1/2	146,086
3/4	9,263	3/4	24,633	3/4	39,892	3/4	54,663	3/4	69,574	3/4	84,944	3/4	100,314	3/4	115,682	3/4	131,044	3/4	146,406
7	9,583	7	24,953	7	40,200	7	54,972	7	69,894	7	85,264	7	100,634	7	116,002	7	131,364	7	146,726
1/4	9,904	1/4	25,273	1/4	40,508	1/4	55,280	1/4	70,215	1/4	85,584	1/4	100,954	1/4	116,322	1/4	131,684	1/4	147,046
1/2	10,224	1/2	25,593	1/2	40,815	1/2	55,588	1/2	70,535	1/2	85,905	1/2	101,274	1/2	116,642	1/2	132,004	1/2	147,366
3/4	10,544	3/4	25,913	3/4	41,123	3/4	55,897	3/4	70,855	3/4	86,225	3/4	101,595	3/4	116,962	3/4	132,324	3/4	147,686
8	10,864	8	26,234	8	41,430	8	56,205	8	71,175	8	86,545	8	101,915	8	117,282	8	132,644	8	148,006
1/4	11,184	1/4	26,554	1/4	41,738	1/4	56,514	1/4	71,495	1/4	86,865	1/4	102,235	1/4	117,602	1/4	132,964	1/4	148,326
1/2	11,505	1/2	26,874	1/2	42,045	1/2	56,822	1/2	71,816	1/2	87,185	1/2	102,555	1/2	117,922	1/2	133,284	1/2	148,646
3/4	11,825	3/4	27,194	3/4	42,353	3/4	57,131	3/4	72,136	3/4	87,506	3/4	102,875	3/4	118,242	3/4	133,604	3/4	148,967
9	12,145	9	27,514	9	42,660	9	57,439	9	72,456	9	87,826	9	103,196	9	118,562	9	133,924	9	149,287
1/4	12,465	1/4	27,834	1/4	42,968	1/4	57,748	1/4	72,776	1/4	88,146	1/4	103,516	1/4	118,882	1/4	134,244	1/4	149,607
1/2	12,785	1/2	28,154	1/2	43,275	1/2	58,056	1/2	73,096	1/2	88,466	1/2	103,836	1/2	119,202	1/2	134,564	1/2	149,927
3/4	13,106	3/4	28,474	3/4	43,583	3/4	58,364	3/4	73,417	3/4	88,786	3/4	104,156	3/4	119,522	3/4	134,884	3/4	150,247
10	13,426	10	28,794	10	43,890	10	58,673	10	73,737	10	89,107	10	104,476	10	119,842	10	135,204	10	150,567
1/4	13,746	1/4	29,114	1/4	44,198	1/4	58,981	1/4	74,057	1/4	89,427	1/4	104,797	1/4	120,162	1/4	135,525	1/4	150,887
1/2	14,066	1/2	29,434	1/2	44,505	1/2	59,290	1/2	74,377	1/2	89,747	1/2	105,117	1/2	120,482	1/2	135,845	1/2	151,207
3/4	14,386	3/4	29,754	3/4	44,813	3/4	59,598	3/4	74,697	3/4	90,067	3/4	105,437	3/4	120,802	3/4	136,165	3/4	151,527
11	14,706	11	30,074	11	45,120	11	59,907	11	75,018	11	90,387	11	105,757	11	121,122	11	136,485	11	151,847
1/4	15,027	1/4	30,394	1/4	45,428	1/4	60,215	1/4	75,338	1/4	90,708	1/4	106,077	1/4	121,442	1/4	136,805	1/4	152,167
1/2	15,347	1/2	30,714	1/2	45,735	1/2	60,524	1/2	75,658	1/2	91,028	1/2	106,398	1/2	121,762	1/2	137,125	1/2	152,487
3/4	15,667	3/4	31,034	3/4	46,043	3/4	60,832	3/4	75,978	3/4	91,348	3/4	106,718	3/4	122,083	3/4	137,445	3/4	152,807

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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

2 PORT

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	153,127	0	168,489	0	183,841	0	199,152	0	214,325	0		0		0		0		0	
1/4	153,447	1/4	168,809	1/4	184,160	1/4	199,471	1/4	214,596	1/4		1/4		1/4		1/4		1/4	
1/2	153,767	1/2	169,129	1/2	184,479	1/2	199,790	1/2	214,866	1/2		1/2		1/2		1/2		1/2	
3/4	154,087	3/4	169,450	3/4	184,798	3/4	200,109	3/4	215,136	3/4		3/4		3/4		3/4		3/4	
1	154,407	1	169,770	1	185,117	1	200,428	1	215,406	1		1		1		1		1	
1/4	154,727	1/4	170,090	1/4	185,436	1/4	200,747	1/4	215,631	1/4		1/4		1/4		1/4		1/4	
1/2	155,047	1/2	170,410	1/2	185,755	1/2	201,066	1/2	215,855	1/2		1/2		1/2		1/2		1/2	
3/4	155,367	3/4	170,730	3/4	186,074	3/4	201,385	3/4	216,080	3/4		3/4		3/4		3/4		3/4	
2	155,687	2	171,050	2	186,393	2	201,704	2	216,305	2		2		2		2		2	
1/4	156,008	1/4	171,370	1/4	186,712	1/4	202,023	1/4	216,483	1/4		1/4		1/4		1/4		1/4	
1/2	156,328	1/2	171,690	1/2	187,031	1/2	202,342	1/2	216,662	1/2		1/2		1/2		1/2		1/2	
3/4	156,648	3/4	172,010	3/4	187,350	3/4	202,661	3/4	216,841	3/4		3/4		3/4		3/4		3/4	
3	156,968	3	172,330	3	187,669	3	202,980	3	217,020	3		3		3		3		3	
1/4	157,288	1/4	172,650	1/4	187,988	1/4	203,299	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,608	1/2	172,970	1/2	188,307	1/2	203,618	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,928	3/4	173,290	3/4	188,626	3/4	203,937	3/4		3/4		3/4		3/4		3/4		3/4	
4	158,248	4	173,610	4	188,945	4	204,256	4		4		4		4		4		4	
1/4	158,568	1/4	173,930	1/4	189,264	1/4	204,575	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,888	1/2	174,250	1/2	189,583	1/2	204,894	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,208	3/4	174,570	3/4	189,902	3/4	205,213	3/4		3/4		3/4		3/4		3/4		3/4	
5	159,528	5	174,890	5	190,221	5	205,532	5		5		5		5		5		5	
1/4	159,848	1/4	175,210	1/4	190,540	1/4	205,849	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,168	1/2	175,530	1/2	190,859	1/2	206,167	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,488	3/4	175,850	3/4	191,178	3/4	206,484	3/4		3/4		3/4		3/4		3/4		3/4	
6	160,808	6	176,171	6	191,497	6	206,802	6		6		6		6		6		6	
1/4	161,128	1/4	176,491	1/4	191,816	1/4	207,117	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,448	1/2	176,811	1/2	192,135	1/2	207,433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,768	3/4	177,131	3/4	192,454	3/4	207,749	3/4		3/4		3/4		3/4		3/4		3/4	
7	162,088	7	177,451	7	192,773	7	208,065	7		7		7		7		7		7	
1/4	162,408	1/4	177,771	1/4	193,091	1/4	208,381	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,729	1/2	178,091	1/2	193,410	1/2	208,697	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,049	3/4	178,411	3/4	193,729	3/4	209,013	3/4		3/4		3/4		3/4		3/4		3/4	
8	163,369	8	178,731	8	194,048	8	209,329	8		8		8		8		8		8	
1/4	163,689	1/4	179,051	1/4	194,367	1/4	209,645	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,009	1/2	179,371	1/2	194,686	1/2	209,961	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,329	3/4	179,691	3/4	195,005	3/4	210,276	3/4		3/4		3/4		3/4		3/4		3/4	
9	164,649	9	180,011	9	195,324	9	210,592	9		9		9		9		9		9	
1/4	164,969	1/4	180,331	1/4	195,643	1/4	210,908	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,289	1/2	180,650	1/2	195,962	1/2	211,223	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,609	3/4	180,970	3/4	196,281	3/4	211,539	3/4		3/4		3/4		3/4		3/4		3/4	
10	165,929	10	181,289	10	196,600	10	211,854	10		10		10		10		10		10	
1/4	166,249	1/4	181,608	1/4	196,919	1/4	212,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,569	1/2	181,927	1/2	197,238	1/2	212,483	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,889	3/4	182,246	3/4	197,557	3/4	212,797	3/4		3/4		3/4		3/4		3/4		3/4	
11	167,209	11	182,565	11	197,876	11	213,112	11		11		11		11		11		11	
1/4	167,529	1/4	182,884	1/4	198,195	1/4	213,415	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167,849	1/2	183,203	1/2	198,514	1/2	213,719	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	168,169	3/4	183,522	3/4	198,833	3/4	214,022	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 427"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	1,052	0	15,980	0	31,340	0	46,682	0	62,030	0	77,393	0	92,755	0	108,118	0	123,475	0	138,830
1/4	1,292	1/4	16,300	1/4	31,660	1/4	47,002	1/4	62,350	1/4	77,713	1/4	93,075	1/4	108,438	1/4	123,795	1/4	139,150
1/2	1,532	1/2	16,620	1/2	31,981	1/2	47,321	1/2	62,670	1/2	78,033	1/2	93,395	1/2	108,758	1/2	124,115	1/2	139,470
3/4	1,772	3/4	16,940	3/4	32,301	3/4	47,640	3/4	62,990	3/4	78,353	3/4	93,715	3/4	109,078	3/4	124,434	3/4	139,789
1	2,012	1	17,260	1	32,621	1	47,959	1	63,310	1	78,673	1	94,035	1	109,398	1	124,754	1	140,109
1/4	2,309	1/4	17,581	1/4	32,941	1/4	48,278	1/4	63,630	1/4	78,993	1/4	94,355	1/4	109,718	1/4	125,074	1/4	140,429
1/2	2,607	1/2	17,901	1/2	33,261	1/2	48,597	1/2	63,950	1/2	79,313	1/2	94,675	1/2	110,038	1/2	125,394	1/2	140,749
3/4	2,905	3/4	18,221	3/4	33,581	3/4	48,916	3/4	64,270	3/4	79,633	3/4	94,995	3/4	110,358	3/4	125,714	3/4	141,069
2	3,203	2	18,541	2	33,901	2	49,235	2	64,590	2	79,953	2	95,316	2	110,678	2	126,034	2	141,389
1/4	3,520	1/4	18,861	1/4	34,221	1/4	49,555	1/4	64,911	1/4	80,273	1/4	95,636	1/4	110,998	1/4	126,354	1/4	141,709
1/2	3,837	1/2	19,181	1/2	34,541	1/2	49,874	1/2	65,231	1/2	80,593	1/2	95,956	1/2	111,318	1/2	126,674	1/2	142,029
3/4	4,154	3/4	19,501	3/4	34,861	3/4	50,193	3/4	65,551	3/4	80,913	3/4	96,276	3/4	111,638	3/4	126,994	3/4	142,349
3	4,471	3	19,821	3	35,181	3	50,512	3	65,871	3	81,233	3	96,596	3	111,958	3	127,314	3	142,669
1/4	4,789	1/4	20,141	1/4	35,501	1/4	50,832	1/4	66,191	1/4	81,553	1/4	96,916	1/4	112,278	1/4	127,633	1/4	142,988
1/2	5,108	1/2	20,461	1/2	35,821	1/2	51,151	1/2	66,511	1/2	81,873	1/2	97,236	1/2	112,598	1/2	127,953	1/2	143,308
3/4	5,426	3/4	20,781	3/4	36,141	3/4	51,470	3/4	66,831	3/4	82,193	3/4	97,556	3/4	112,918	3/4	128,273	3/4	143,628
4	5,744	4	21,101	4	36,461	4	51,790	4	67,151	4	82,513	4	97,876	4	113,238	4	128,593	4	143,948
1/4	6,063	1/4	21,421	1/4	36,781	1/4	52,109	1/4	67,471	1/4	82,833	1/4	98,196	1/4	113,558	1/4	128,913	1/4	144,268
1/2	6,383	1/2	21,741	1/2	37,101	1/2	52,429	1/2	67,791	1/2	83,154	1/2	98,516	1/2	113,878	1/2	129,233	1/2	144,588
3/4	6,702	3/4	22,061	3/4	37,421	3/4	52,749	3/4	68,111	3/4	83,474	3/4	98,836	3/4	114,198	3/4	129,553	3/4	144,908
5	7,021	5	22,381	5	37,741	5	53,069	5	68,431	5	83,794	5	99,156	5	114,518	5	129,873	5	145,228
1/4	7,341	1/4	22,701	1/4	38,062	1/4	53,389	1/4	68,751	1/4	84,114	1/4	99,476	1/4	114,838	1/4	130,193	1/4	145,548
1/2	7,660	1/2	23,021	1/2	38,382	1/2	53,709	1/2	69,071	1/2	84,434	1/2	99,796	1/2	115,158	1/2	130,512	1/2	145,867
3/4	7,980	3/4	23,341	3/4	38,702	3/4	54,029	3/4	69,391	3/4	84,754	3/4	100,116	3/4	115,477	3/4	130,832	3/4	146,187
6	8,300	6	23,662	6	39,022	6	54,349	6	69,711	6	85,074	6	100,436	6	115,797	6	131,152	6	146,507
1/4	8,619	1/4	23,982	1/4	39,341	1/4	54,669	1/4	70,031	1/4	85,394	1/4	100,756	1/4	116,117	1/4	131,472	1/4	146,827
1/2	8,939	1/2	24,302	1/2	39,661	1/2	54,989	1/2	70,351	1/2	85,714	1/2	101,076	1/2	116,437	1/2	131,792	1/2	147,147
3/4	9,259	3/4	24,622	3/4	39,980	3/4	55,309	3/4	70,671	3/4	86,034	3/4	101,397	3/4	116,757	3/4	132,112	3/4	147,467
7	9,579	7	24,942	7	40,300	7	55,629	7	70,992	7	86,354	7	101,717	7	117,077	7	132,432	7	147,787
1/4	9,899	1/4	25,262	1/4	40,619	1/4	55,949	1/4	71,312	1/4	86,674	1/4	102,037	1/4	117,397	1/4	132,752	1/4	148,107
1/2	10,219	1/2	25,582	1/2	40,938	1/2	56,269	1/2	71,632	1/2	86,994	1/2	102,357	1/2	117,717	1/2	133,072	1/2	148,427
3/4	10,539	3/4	25,902	3/4	41,257	3/4	56,589	3/4	71,952	3/4	87,314	3/4	102,677	3/4	118,037	3/4	133,392	3/4	148,747
8	10,859	8	26,222	8	41,577	8	56,909	8	72,272	8	87,634	8	102,997	8	118,356	8	133,711	8	149,066
1/4	11,179	1/4	26,542	1/4	41,896	1/4	57,229	1/4	72,592	1/4	87,954	1/4	103,317	1/4	118,676	1/4	134,031	1/4	149,386
1/2	11,500	1/2	26,862	1/2	42,215	1/2	57,549	1/2	72,912	1/2	88,274	1/2	103,637	1/2	118,996	1/2	134,351	1/2	149,706
3/4	11,820	3/4	27,182	3/4	42,534	3/4	57,869	3/4	73,232	3/4	88,594	3/4	103,957	3/4	119,316	3/4	134,671	3/4	150,026
9	12,140	9	27,502	9	42,853	9	58,189	9	73,552	9	88,914	9	104,277	9	119,636	9	134,991	9	150,346
1/4	12,460	1/4	27,822	1/4	43,172	1/4	58,509	1/4	73,872	1/4	89,235	1/4	104,597	1/4	119,956	1/4	135,311	1/4	150,666
1/2	12,780	1/2	28,142	1/2	43,491	1/2	58,830	1/2	74,192	1/2	89,555	1/2	104,917	1/2	120,276	1/2	135,631	1/2	150,986
3/4	13,100	3/4	28,461	3/4	43,810	3/4	59,150	3/4	74,512	3/4	89,875	3/4	105,237	3/4	120,596	3/4	135,951	3/4	151,306
10	13,420	10	28,781	10	44,130	10	59,470	10	74,832	10	90,195	10	105,557	10	120,916	10	136,271	10	151,626
1/4	13,740	1/4	29,101	1/4	44,449	1/4	59,790	1/4	75,152	1/4	90,515	1/4	105,877	1/4	121,236	1/4	136,591	1/4	151,945
1/2	14,060	1/2	29,421	1/2	44,768	1/2	60,110	1/2	75,472	1/2	90,835	1/2	106,197	1/2	121,555	1/2	136,910	1/2	152,265
3/4	14,380	3/4	29,741	3/4	45,087	3/4	60,430	3/4	75,792	3/4	91,155	3/4	106,517	3/4	121,875	3/4	137,230	3/4	152,585
11	14,700	11	30,061	11	45,406	11	60,750	11	76,112	11	91,475	11	106,837	11	122,195	11	137,550	11	152,905
1/4	15,020	1/4	30,381	1/4	45,725	1/4	61,070	1/4	76,432	1/4	91,795	1/4	107,157	1/4	122,515	1/4	137,870	1/4	153,225
1/2	15,340	1/2	30,700	1/2	46,044	1/2	61,390	1/2	76,752	1/2	92,115	1/2	107,478	1/2	122,835	1/2	138,190	1/2	153,545
3/4	15,660	3/4	31,020	3/4	46,363	3/4	61,710	3/4	77,073	3/4	92,435	3/4	107,798	3/4	123,155	3/4	138,510	3/4	153,865

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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	154,185	0	169,540	0	184,884	0	200,188	0	215,354	0		0		0		0		0	
1/4	154,505	1/4	169,860	1/4	185,203	1/4	200,507	1/4	215,624	1/4		1/4		1/4		1/4		1/4	
1/2	154,825	1/2	170,179	1/2	185,522	1/2	200,826	1/2	215,894	1/2		1/2		1/2		1/2		1/2	
3/4	155,144	3/4	170,499	3/4	185,840	3/4	201,144	3/4	216,164	3/4		3/4		3/4		3/4		3/4	
1	155,464	1	170,819	1	186,159	1	201,463	1	216,434	1		1		1		1		1	
1/4	155,784	1/4	171,139	1/4	186,478	1/4	201,782	1/4	216,659	1/4		1/4		1/4		1/4		1/4	
1/2	156,104	1/2	171,459	1/2	186,797	1/2	202,101	1/2	216,883	1/2		1/2		1/2		1/2		1/2	
3/4	156,424	3/4	171,779	3/4	187,116	3/4	202,420	3/4	217,108	3/4		3/4		3/4		3/4		3/4	
2	156,744	2	172,099	2	187,435	2	202,739	2	217,332	2		2		2		2		2	
1/4	157,064	1/4	172,419	1/4	187,753	1/4	203,057	1/4	217,511	1/4		1/4		1/4		1/4		1/4	
1/2	157,384	1/2	172,739	1/2	188,072	1/2	203,376	1/2	217,690	1/2		1/2		1/2		1/2		1/2	
3/4	157,704	3/4	173,059	3/4	188,391	3/4	203,695	3/4	217,868	3/4		3/4		3/4		3/4		3/4	
3	158,023	3	173,378	3	188,710	3	204,014	3	218,047	3		3		3		3		3	
1/4	158,343	1/4	173,698	1/4	189,029	1/4	204,333	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,663	1/2	174,018	1/2	189,348	1/2	204,651	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,983	3/4	174,338	3/4	189,666	3/4	204,970	3/4		3/4		3/4		3/4		3/4		3/4	
4	159,303	4	174,658	4	189,985	4	205,289	4		4		4		4		4		4	
1/4	159,623	1/4	174,978	1/4	190,304	1/4	205,608	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,943	1/2	175,298	1/2	190,623	1/2	205,927	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,263	3/4	175,618	3/4	190,942	3/4	206,246	3/4		3/4		3/4		3/4		3/4		3/4	
5	160,583	5	175,938	5	191,261	5	206,564	5		5		5		5		5		5	
1/4	160,903	1/4	176,257	1/4	191,579	1/4	206,882	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,222	1/2	176,577	1/2	191,898	1/2	207,199	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,542	3/4	176,897	3/4	192,217	3/4	207,516	3/4		3/4		3/4		3/4		3/4		3/4	
6	161,862	6	177,217	6	192,536	6	207,834	6		6		6		6		6		6	
1/4	162,182	1/4	177,537	1/4	192,855	1/4	208,149	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,502	1/2	177,857	1/2	193,174	1/2	208,465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,822	3/4	178,177	3/4	193,492	3/4	208,781	3/4		3/4		3/4		3/4		3/4		3/4	
7	163,142	7	178,497	7	193,811	7	209,097	7		7		7		7		7		7	
1/4	163,462	1/4	178,817	1/4	194,130	1/4	209,412	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,782	1/2	179,137	1/2	194,449	1/2	209,728	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,101	3/4	179,456	3/4	194,768	3/4	210,044	3/4		3/4		3/4		3/4		3/4		3/4	
8	164,421	8	179,776	8	195,087	8	210,360	8		8		8		8		8		8	
1/4	164,741	1/4	180,096	1/4	195,405	1/4	210,675	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,061	1/2	180,416	1/2	195,724	1/2	210,991	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,381	3/4	180,736	3/4	196,043	3/4	211,307	3/4		3/4		3/4		3/4		3/4		3/4	
9	165,701	9	181,056	9	196,362	9	211,623	9		9		9		9		9		9	
1/4	166,021	1/4	181,375	1/4	196,681	1/4	211,938	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,341	1/2	181,695	1/2	197,000	1/2	212,253	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,661	3/4	182,014	3/4	197,318	3/4	212,568	3/4		3/4		3/4		3/4		3/4		3/4	
10	166,981	10	182,333	10	197,637	10	212,884	10		10		10		10		10		10	
1/4	167,300	1/4	182,652	1/4	197,956	1/4	213,198	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167,620	1/2	182,971	1/2	198,275	1/2	213,512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167,940	3/4	183,290	3/4	198,594	3/4	213,827	3/4		3/4		3/4		3/4		3/4		3/4	
11	168,260	11	183,609	11	198,913	11	214,141	11		11		11		11		11		11	
1/4	168,580	1/4	183,928	1/4	199,231	1/4	214,444	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168,900	1/2	184,246	1/2	199,550	1/2	214,747	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	169,220	3/4	184,565	3/4	199,869	3/4	215,051	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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

BARGE "HFL 427"

3 PORT

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,050	0	15,950	0	31,268	0	46,357	0	61,243	0	76,482	0	91,778	0	107,085	0	122,382	0	137,676
1/4	1,290	1/4	16,270	1/4	31,587	1/4	46,666	1/4	61,562	1/4	76,800	1/4	92,097	1/4	107,404	1/4	122,701	1/4	137,994
1/2	1,530	1/2	16,589	1/2	31,907	1/2	46,974	1/2	61,881	1/2	77,117	1/2	92,415	1/2	107,723	1/2	123,019	1/2	138,313
3/4	1,769	3/4	16,908	3/4	32,226	3/4	47,283	3/4	62,200	3/4	77,434	3/4	92,734	3/4	108,042	3/4	123,338	3/4	138,632
1	2,009	1	17,227	1	32,545	1	47,591	1	62,519	1	77,751	1	93,053	1	108,361	1	123,657	1	138,950
1/4	2,306	1/4	17,546	1/4	32,864	1/4	47,900	1/4	62,837	1/4	78,068	1/4	93,372	1/4	108,680	1/4	123,975	1/4	139,269
1/2	2,604	1/2	17,865	1/2	33,183	1/2	48,209	1/2	63,156	1/2	78,385	1/2	93,690	1/2	108,999	1/2	124,294	1/2	139,588
3/4	2,902	3/4	18,185	3/4	33,502	3/4	48,518	3/4	63,475	3/4	78,702	3/4	94,009	3/4	109,318	3/4	124,612	3/4	139,906
2	3,199	2	18,504	2	33,821	2	48,827	2	63,794	2	79,020	2	94,328	2	109,637	2	124,931	2	140,225
1/4	3,516	1/4	18,823	1/4	34,141	1/4	49,136	1/4	64,112	1/4	79,338	1/4	94,647	1/4	109,955	1/4	125,250	1/4	140,543
1/2	3,832	1/2	19,142	1/2	34,460	1/2	49,446	1/2	64,430	1/2	79,656	1/2	94,966	1/2	110,274	1/2	125,568	1/2	140,862
3/4	4,149	3/4	19,461	3/4	34,779	3/4	49,755	3/4	64,748	3/4	79,974	3/4	95,284	3/4	110,593	3/4	125,887	3/4	141,181
3	4,465	3	19,780	3	35,098	3	50,064	3	65,066	3	80,292	3	95,603	3	110,912	3	126,206	3	141,499
1/4	4,783	1/4	20,099	1/4	35,417	1/4	50,374	1/4	65,383	1/4	80,611	1/4	95,922	1/4	111,230	1/4	126,524	1/4	141,818
1/2	5,101	1/2	20,419	1/2	35,735	1/2	50,683	1/2	65,700	1/2	80,930	1/2	96,241	1/2	111,549	1/2	126,843	1/2	142,137
3/4	5,419	3/4	20,738	3/4	36,054	3/4	50,992	3/4	66,017	3/4	81,249	3/4	96,560	3/4	111,868	3/4	127,161	3/4	142,455
4	5,737	4	21,057	4	36,373	4	51,301	4	66,334	4	81,568	4	96,878	4	112,186	4	127,480	4	142,774
1/4	6,055	1/4	21,376	1/4	36,688	1/4	51,611	1/4	66,651	1/4	81,888	1/4	97,197	1/4	112,505	1/4	127,799	1/4	143,092
1/2	6,374	1/2	21,695	1/2	37,003	1/2	51,920	1/2	66,968	1/2	82,207	1/2	97,516	1/2	112,823	1/2	128,117	1/2	143,411
3/4	6,692	3/4	22,014	3/4	37,318	3/4	52,229	3/4	67,286	3/4	82,526	3/4	97,835	3/4	113,142	3/4	128,436	3/4	143,730
5	7,011	5	22,334	5	37,633	5	52,539	5	67,603	5	82,845	5	98,153	5	113,461	5	128,754	5	144,048
1/4	7,330	1/4	22,653	1/4	37,944	1/4	52,848	1/4	67,920	1/4	83,164	1/4	98,472	1/4	113,779	1/4	129,073	1/4	144,367
1/2	7,648	1/2	22,972	1/2	38,256	1/2	53,157	1/2	68,237	1/2	83,483	1/2	98,791	1/2	114,098	1/2	129,392	1/2	144,686
3/4	7,967	3/4	23,291	3/4	38,568	3/4	53,467	3/4	68,554	3/4	83,802	3/4	99,110	3/4	114,417	3/4	129,710	3/4	145,004
6	8,286	6	23,610	6	38,880	6	53,776	6	68,871	6	84,121	6	99,429	6	114,735	6	130,029	6	145,323
1/4	8,606	1/4	23,929	1/4	39,192	1/4	54,085	1/4	69,188	1/4	84,440	1/4	99,747	1/4	115,054	1/4	130,348	1/4	145,641
1/2	8,925	1/2	24,249	1/2	39,504	1/2	54,394	1/2	69,506	1/2	84,759	1/2	100,066	1/2	115,372	1/2	130,666	1/2	145,959
3/4	9,245	3/4	24,568	3/4	39,815	3/4	54,704	3/4	69,823	3/4	85,079	3/4	100,385	3/4	115,691	3/4	130,985	3/4	146,277
7	9,564	7	24,887	7	40,127	7	55,013	7	70,140	7	85,398	7	100,704	7	116,010	7	131,303	7	146,595
1/4	9,884	1/4	25,206	1/4	40,439	1/4	55,322	1/4	70,457	1/4	85,717	1/4	101,023	1/4	116,328	1/4	131,622	1/4	146,913
1/2	10,204	1/2	25,525	1/2	40,751	1/2	55,632	1/2	70,774	1/2	86,036	1/2	101,342	1/2	116,647	1/2	131,941	1/2	147,231
3/4	10,523	3/4	25,844	3/4	41,063	3/4	55,941	3/4	71,091	3/4	86,355	3/4	101,661	3/4	116,966	3/4	132,259	3/4	147,548
8	10,843	8	26,164	8	41,375	8	56,250	8	71,408	8	86,674	8	101,980	8	117,284	8	132,578	8	147,866
1/4	11,162	1/4	26,483	1/4	41,686	1/4	56,559	1/4	71,725	1/4	86,993	1/4	102,299	1/4	117,603	1/4	132,897	1/4	148,184
1/2	11,482	1/2	26,802	1/2	41,998	1/2	56,869	1/2	72,043	1/2	87,312	1/2	102,618	1/2	117,921	1/2	133,215	1/2	148,501
3/4	11,801	3/4	27,121	3/4	42,310	3/4	57,178	3/4	72,360	3/4	87,631	3/4	102,937	3/4	118,240	3/4	133,534	3/4	148,819
9	12,120	9	27,440	9	42,622	9	57,487	9	72,677	9	87,950	9	103,256	9	118,559	9	133,852	9	149,137
1/4	12,440	1/4	27,759	1/4	42,934	1/4	57,798	1/4	72,994	1/4	88,270	1/4	103,576	1/4	118,877	1/4	134,171	1/4	149,455
1/2	12,759	1/2	28,078	1/2	43,246	1/2	58,109	1/2	73,311	1/2	88,589	1/2	103,895	1/2	119,196	1/2	134,490	1/2	149,773
3/4	13,078	3/4	28,397	3/4	43,558	3/4	58,420	3/4	73,628	3/4	88,908	3/4	104,214	3/4	119,515	3/4	134,808	3/4	150,091
10	13,397	10	28,716	10	43,869	10	58,731	10	73,945	10	89,227	10	104,533	10	119,833	10	135,127	10	150,409
1/4	13,716	1/4	29,035	1/4	44,181	1/4	59,043	1/4	74,263	1/4	89,546	1/4	104,852	1/4	120,152	1/4	135,446	1/4	150,678
1/2	14,035	1/2	29,354	1/2	44,493	1/2	59,356	1/2	74,580	1/2	89,865	1/2	105,171	1/2	120,470	1/2	135,764	1/2	150,948
3/4	14,355	3/4	29,673	3/4	44,805	3/4	59,668	3/4	74,897	3/4	90,184	3/4	105,490	3/4	120,789	3/4	136,083	3/4	151,217
11	14,674	11	29,992	11	45,117	11	59,981	11	75,214	11	90,503	11	105,809	11	121,108	11	136,401	11	151,486
1/4	14,993	1/4	30,311	1/4	45,427	1/4	60,297	1/4	75,531	1/4	90,821	1/4	106,128	1/4	121,426	1/4	136,720	1/4	151,706
1/2	15,312	1/2	30,630	1/2	45,737	1/2	60,612	1/2	75,848	1/2	91,140	1/2	106,447	1/2	121,745	1/2	137,039	1/2	151,926
3/4	15,631	3/4	30,949	3/4	46,047	3/4	60,928	3/4	76,165	3/4	91,459	3/4	106,766	3/4	122,063	3/4	137,357	3/4	152,146

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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

3 PORT

INNAGE 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	152,366	0	162,968	0	173,565	0	184,133	0	194,587	0		0		0		0		0	
1/4	152,586	1/4	163,189	1/4	173,785	1/4	184,354	1/4	194,759	1/4		1/4		1/4		1/4		1/4	
1/2	152,806	1/2	163,410	1/2	174,006	1/2	184,574	1/2	194,932	1/2		1/2		1/2		1/2		1/2	
3/4	153,027	3/4	163,631	3/4	174,226	3/4	184,794	3/4	195,104	3/4		3/4		3/4		3/4		3/4	
1	153,247	1	163,852	1	174,446	1	185,014	1	195,276	1		1		1		1		1	
1/4	153,468	1/4	164,073	1/4	174,666	1/4	185,234	1/4	195,403	1/4		1/4		1/4		1/4		1/4	
1/2	153,689	1/2	164,294	1/2	174,886	1/2	185,454	1/2	195,530	1/2		1/2		1/2		1/2		1/2	
3/4	153,910	3/4	164,515	3/4	175,106	3/4	185,675	3/4	195,657	3/4		3/4		3/4		3/4		3/4	
2	154,131	2	164,736	2	175,327	2	185,895	2	195,783	2		2		2		2		2	
1/4	154,352	1/4	164,957	1/4	175,547	1/4	186,115	1/4	195,864	1/4		1/4		1/4		1/4		1/4	
1/2	154,573	1/2	165,178	1/2	175,767	1/2	186,335	1/2	195,945	1/2		1/2		1/2		1/2		1/2	
3/4	154,794	3/4	165,398	3/4	175,987	3/4	186,555	3/4	196,027	3/4		3/4		3/4		3/4		3/4	
3	155,015	3	165,619	3	176,207	3	186,775	3	196,108	3		3		3		3		3	
1/4	155,236	1/4	165,840	1/4	176,427	1/4	186,996	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,457	1/2	166,061	1/2	176,648	1/2	187,216	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,678	3/4	166,282	3/4	176,868	3/4	187,436	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,898	4	166,503	4	177,088	4	187,656	4		4		4		4		4		4	
1/4	156,119	1/4	166,724	1/4	177,308	1/4	187,876	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,340	1/2	166,945	1/2	177,528	1/2	188,096	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,561	3/4	167,166	3/4	177,749	3/4	188,317	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,782	5	167,387	5	177,969	5	188,537	5		5		5		5		5		5	
1/4	157,003	1/4	167,608	1/4	178,189	1/4	188,756	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,224	1/2	167,829	1/2	178,409	1/2	188,975	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,445	3/4	168,050	3/4	178,629	3/4	189,194	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,666	6	168,271	6	178,849	6	189,413	6		6		6		6		6		6	
1/4	157,887	1/4	168,491	1/4	179,070	1/4	189,631	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,108	1/2	168,712	1/2	179,290	1/2	189,849	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,329	3/4	168,933	3/4	179,510	3/4	190,067	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,550	7	169,154	7	179,730	7	190,285	7		7		7		7		7		7	
1/4	158,771	1/4	169,375	1/4	179,950	1/4	190,503	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,991	1/2	169,596	1/2	180,170	1/2	190,721	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,212	3/4	169,817	3/4	180,391	3/4	190,939	3/4		3/4		3/4		3/4		3/4		3/4	
8	159,433	8	170,038	8	180,611	8	191,157	8		8		8		8		8		8	
1/4	159,654	1/4	170,259	1/4	180,831	1/4	191,375	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,875	1/2	170,480	1/2	181,051	1/2	191,593	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,096	3/4	170,701	3/4	181,271	3/4	191,811	3/4		3/4		3/4		3/4		3/4		3/4	
9	160,317	9	170,922	9	181,491	9	192,029	9		9		9		9		9		9	
1/4	160,538	1/4	171,142	1/4	181,712	1/4	192,246	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,759	1/2	171,363	1/2	181,932	1/2	192,464	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,980	3/4	171,583	3/4	182,152	3/4	192,681	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,201	10	171,804	10	182,372	10	192,899	10		10		10		10		10		10	
1/4	161,422	1/4	172,024	1/4	182,592	1/4	193,115	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,643	1/2	172,244	1/2	182,812	1/2	193,332	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,864	3/4	172,464	3/4	183,033	3/4	193,548	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,085	11	172,685	11	183,253	11	193,765	11		11		11		11		11		11	
1/4	162,305	1/4	172,905	1/4	183,473	1/4	193,970	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,526	1/2	173,125	1/2	183,693	1/2	194,176	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,747	3/4	173,345	3/4	183,913	3/4	194,381	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HFL 427"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	1,051	0	15,968	0	31,319	0	46,654	0	62,003	0	77,355	0	92,706	0	108,057	0	123,392	0	138,723
1/4	1,291	1/4	16,288	1/4	31,639	1/4	46,973	1/4	62,323	1/4	77,675	1/4	93,026	1/4	108,377	1/4	123,712	1/4	139,043
1/2	1,530	1/2	16,608	1/2	31,959	1/2	47,293	1/2	62,643	1/2	77,994	1/2	93,346	1/2	108,697	1/2	124,031	1/2	139,362
3/4	1,770	3/4	16,928	3/4	32,278	3/4	47,612	3/4	62,963	3/4	78,314	3/4	93,666	3/4	109,017	3/4	124,350	3/4	139,682
1	2,010	1	17,247	1	32,598	1	47,932	1	63,283	1	78,634	1	93,985	1	109,337	1	124,670	1	140,001
1/4	2,308	1/4	17,567	1/4	32,918	1/4	48,252	1/4	63,603	1/4	78,954	1/4	94,305	1/4	109,656	1/4	124,989	1/4	140,320
1/2	2,605	1/2	17,887	1/2	33,238	1/2	48,571	1/2	63,922	1/2	79,274	1/2	94,625	1/2	109,976	1/2	125,309	1/2	140,640
3/4	2,903	3/4	18,207	3/4	33,558	3/4	48,891	3/4	64,242	3/4	79,594	3/4	94,945	3/4	110,296	3/4	125,628	3/4	140,959
2	3,201	2	18,527	2	33,877	2	49,211	2	64,562	2	79,913	2	95,265	2	110,615	2	125,947	2	141,279
1/4	3,517	1/4	18,846	1/4	34,197	1/4	49,531	1/4	64,882	1/4	80,233	1/4	95,584	1/4	110,935	1/4	126,267	1/4	141,598
1/2	3,834	1/2	19,166	1/2	34,517	1/2	49,850	1/2	65,202	1/2	80,553	1/2	95,904	1/2	111,254	1/2	126,586	1/2	141,917
3/4	4,151	3/4	19,486	3/4	34,837	3/4	50,170	3/4	65,521	3/4	80,873	3/4	96,224	3/4	111,574	3/4	126,906	3/4	142,237
3	4,468	3	19,806	3	35,157	3	50,490	3	65,841	3	81,193	3	96,544	3	111,893	3	127,225	3	142,556
1/4	4,786	1/4	20,126	1/4	35,476	1/4	50,810	1/4	66,161	1/4	81,512	1/4	96,864	1/4	112,213	1/4	127,544	1/4	142,876
1/2	5,104	1/2	20,445	1/2	35,796	1/2	51,130	1/2	66,481	1/2	81,832	1/2	97,184	1/2	112,532	1/2	127,864	1/2	143,195
3/4	5,422	3/4	20,765	3/4	36,115	3/4	51,449	3/4	66,801	3/4	82,152	3/4	97,503	3/4	112,852	3/4	128,183	3/4	143,514
4	5,740	4	21,085	4	36,435	4	51,769	4	67,121	4	82,472	4	97,823	4	113,171	4	128,503	4	143,834
1/4	6,059	1/4	21,405	1/4	36,754	1/4	52,089	1/4	67,440	1/4	82,792	1/4	98,143	1/4	113,491	1/4	128,822	1/4	144,153
1/2	6,378	1/2	21,725	1/2	37,074	1/2	52,409	1/2	67,760	1/2	83,112	1/2	98,463	1/2	113,810	1/2	129,141	1/2	144,473
3/4	6,697	3/4	22,044	3/4	37,393	3/4	52,729	3/4	68,080	3/4	83,431	3/4	98,783	3/4	114,129	3/4	129,461	3/4	144,792
5	7,016	5	22,364	5	37,712	5	53,049	5	68,400	5	83,751	5	99,102	5	114,449	5	129,780	5	145,112
1/4	7,335	1/4	22,684	1/4	38,032	1/4	53,368	1/4	68,720	1/4	84,071	1/4	99,422	1/4	114,768	1/4	130,100	1/4	145,431
1/2	7,654	1/2	23,004	1/2	38,351	1/2	53,688	1/2	69,039	1/2	84,391	1/2	99,742	1/2	115,088	1/2	130,419	1/2	145,750
3/4	7,974	3/4	23,324	3/4	38,670	3/4	54,008	3/4	69,359	3/4	84,711	3/4	100,062	3/4	115,407	3/4	130,738	3/4	146,070
6	8,293	6	23,644	6	38,990	6	54,328	6	69,679	6	85,030	6	100,382	6	115,726	6	131,058	6	146,389
1/4	8,613	1/4	23,963	1/4	39,309	1/4	54,648	1/4	69,999	1/4	85,350	1/4	100,702	1/4	116,046	1/4	131,377	1/4	146,708
1/2	8,933	1/2	24,283	1/2	39,628	1/2	54,967	1/2	70,319	1/2	85,670	1/2	101,021	1/2	116,365	1/2	131,697	1/2	147,027
3/4	9,252	3/4	24,603	3/4	39,948	3/4	55,287	3/4	70,639	3/4	85,990	3/4	101,341	3/4	116,685	3/4	132,016	3/4	147,346
7	9,572	7	24,923	7	40,267	7	55,607	7	70,958	7	86,310	7	101,661	7	117,004	7	132,335	7	147,665
1/4	9,892	1/4	25,243	1/4	40,586	1/4	55,927	1/4	71,278	1/4	86,630	1/4	101,981	1/4	117,323	1/4	132,655	1/4	147,983
1/2	10,212	1/2	25,562	1/2	40,905	1/2	56,247	1/2	71,598	1/2	86,949	1/2	102,301	1/2	117,643	1/2	132,974	1/2	148,302
3/4	10,531	3/4	25,882	3/4	41,225	3/4	56,567	3/4	71,918	3/4	87,269	3/4	102,620	3/4	117,962	3/4	133,294	3/4	148,620
8	10,851	8	26,202	8	41,544	8	56,886	8	72,238	8	87,589	8	102,940	8	118,282	8	133,613	8	148,939
1/4	11,171	1/4	26,522	1/4	41,863	1/4	57,206	1/4	72,558	1/4	87,909	1/4	103,260	1/4	118,601	1/4	133,932	1/4	149,257
1/2	11,491	1/2	26,842	1/2	42,183	1/2	57,526	1/2	72,877	1/2	88,229	1/2	103,580	1/2	118,920	1/2	134,252	1/2	149,576
3/4	11,811	3/4	27,161	3/4	42,502	3/4	57,846	3/4	73,197	3/4	88,548	3/4	103,900	3/4	119,240	3/4	134,571	3/4	149,894
9	12,130	9	27,481	9	42,821	9	58,166	9	73,517	9	88,868	9	104,220	9	119,559	9	134,891	9	150,212
1/4	12,450	1/4	27,801	1/4	43,141	1/4	58,485	1/4	73,837	1/4	89,188	1/4	104,539	1/4	119,879	1/4	135,210	1/4	150,531
1/2	12,770	1/2	28,121	1/2	43,460	1/2	58,805	1/2	74,157	1/2	89,508	1/2	104,859	1/2	120,198	1/2	135,529	1/2	150,850
3/4	13,090	3/4	28,441	3/4	43,779	3/4	59,125	3/4	74,476	3/4	89,828	3/4	105,179	3/4	120,517	3/4	135,849	3/4	151,168
10	13,410	10	28,760	10	44,099	10	59,445	10	74,796	10	90,148	10	105,499	10	120,837	10	136,168	10	151,487
1/4	13,729	1/4	29,080	1/4	44,418	1/4	59,765	1/4	75,116	1/4	90,467	1/4	105,819	1/4	121,156	1/4	136,488	1/4	151,756
1/2	14,049	1/2	29,400	1/2	44,737	1/2	60,085	1/2	75,436	1/2	90,787	1/2	106,138	1/2	121,476	1/2	136,807	1/2	152,026
3/4	14,369	3/4	29,720	3/4	45,057	3/4	60,404	3/4	75,756	3/4	91,107	3/4	106,458	3/4	121,795	3/4	137,126	3/4	152,295
11	14,689	11	30,040	11	45,376	11	60,724	11	76,076	11	91,427	11	106,778	11	122,115	11	137,446	11	152,565
1/4	15,009	1/4	30,360	1/4	45,695	1/4	61,044	1/4	76,395	1/4	91,747	1/4	107,098	1/4	122,434	1/4	137,765	1/4	152,785
1/2	15,328	1/2	30,679	1/2	46,015	1/2	61,364	1/2	76,715	1/2	92,066	1/2	107,418	1/2	122,753	1/2	138,085	1/2	153,005
3/4	15,648	3/4	30,999	3/4	46,334	3/4	61,684	3/4	77,035	3/4	92,386	3/4	107,738	3/4	123,073	3/4	138,404	3/4	153,225

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	153,445	0	164,056	0	174,661	0	185,236	0	195,698	0		0		0		0		0	
1/4	153,666	1/4	164,277	1/4	174,881	1/4	185,457	1/4	195,870	1/4		1/4		1/4		1/4		1/4	
1/2	153,886	1/2	164,498	1/2	175,101	1/2	185,677	1/2	196,043	1/2		1/2		1/2		1/2		1/2	
3/4	154,107	3/4	164,719	3/4	175,322	3/4	185,897	3/4	196,215	3/4		3/4		3/4		3/4		3/4	
1	154,328	1	164,940	1	175,542	1	186,118	1	196,388	1		1		1		1		1	
1/4	154,549	1/4	165,161	1/4	175,762	1/4	186,338	1/4	196,514	1/4		1/4		1/4		1/4		1/4	
1/2	154,770	1/2	165,382	1/2	175,983	1/2	186,558	1/2	196,641	1/2		1/2		1/2		1/2		1/2	
3/4	154,991	3/4	165,603	3/4	176,203	3/4	186,779	3/4	196,768	3/4		3/4		3/4		3/4		3/4	
2	155,212	2	165,824	2	176,423	2	186,999	2	196,895	2		2		2		2		2	
1/4	155,433	1/4	166,046	1/4	176,644	1/4	187,219	1/4	196,976	1/4		1/4		1/4		1/4		1/4	
1/2	155,654	1/2	166,267	1/2	176,864	1/2	187,440	1/2	197,057	1/2		1/2		1/2		1/2		1/2	
3/4	155,875	3/4	166,488	3/4	177,084	3/4	187,660	3/4	197,139	3/4		3/4		3/4		3/4		3/4	
3	156,096	3	166,709	3	177,305	3	187,880	3	197,220	3		3		3		3		3	
1/4	156,318	1/4	166,930	1/4	177,525	1/4	188,101	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,539	1/2	167,151	1/2	177,745	1/2	188,321	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,760	3/4	167,372	3/4	177,965	3/4	188,541	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,981	4	167,593	4	178,186	4	188,762	4		4		4		4		4		4	
1/4	157,202	1/4	167,814	1/4	178,406	1/4	188,982	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,423	1/2	168,035	1/2	178,626	1/2	189,202	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,644	3/4	168,256	3/4	178,847	3/4	189,423	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,865	5	168,478	5	179,067	5	189,643	5		5		5		5		5		5	
1/4	158,086	1/4	168,699	1/4	179,287	1/4	189,862	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,307	1/2	168,920	1/2	179,508	1/2	190,082	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,528	3/4	169,141	3/4	179,728	3/4	190,301	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,750	6	169,362	6	179,948	6	190,520	6		6		6		6		6		6	
1/4	158,971	1/4	169,583	1/4	180,169	1/4	190,738	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,192	1/2	169,804	1/2	180,389	1/2	190,956	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,413	3/4	170,025	3/4	180,609	3/4	191,174	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,634	7	170,246	7	180,830	7	191,393	7		7		7		7		7		7	
1/4	159,855	1/4	170,467	1/4	181,050	1/4	191,611	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,076	1/2	170,688	1/2	181,270	1/2	191,829	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,297	3/4	170,910	3/4	181,491	3/4	192,047	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,518	8	171,131	8	181,711	8	192,265	8		8		8		8		8		8	
1/4	160,739	1/4	171,352	1/4	181,931	1/4	192,483	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,960	1/2	171,573	1/2	182,152	1/2	192,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,182	3/4	171,794	3/4	182,372	3/4	192,920	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,403	9	172,015	9	182,592	9	193,138	9		9		9		9		9		9	
1/4	161,624	1/4	172,236	1/4	182,813	1/4	193,355	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,845	1/2	172,456	1/2	183,033	1/2	193,573	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,066	3/4	172,677	3/4	183,253	3/4	193,791	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,287	10	172,898	10	183,474	10	194,008	10		10		10		10		10		10	
1/4	162,508	1/4	173,118	1/4	183,694	1/4	194,225	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,729	1/2	173,339	1/2	183,914	1/2	194,442	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,950	3/4	173,559	3/4	184,135	3/4	194,658	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,171	11	173,779	11	184,355	11	194,875	11		11		11		11		11		11	
1/4	163,392	1/4	174,000	1/4	184,575	1/4	195,081	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,614	1/2	174,220	1/2	184,796	1/2	195,286	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,835	3/4	174,440	3/4	185,016	3/4	195,492	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 427"

FUEL OIL

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 3'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	119	0	299	0	462	0		0		0		0		0		0	
1/4	1	1/4	123	1/4	303	1/4	465	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2	1/2	127	1/2	307	1/2	468	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	130	3/4	311	3/4	470	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	134	1	314	1	473	1		1		1		1		1		1	
1/4	5	1/4	137	1/4	318	1/4	475	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	6	1/2	141	1/2	322	1/2	477	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	144	3/4	326	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
2	9	2	148	2	329	2	482	2		2		2		2		2		2	
1/4	11	1/4	152	1/4	333	1/4	484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	12	1/2	155	1/2	337	1/2	486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	14	3/4	159	3/4	341	3/4	489	3/4		3/4		3/4		3/4		3/4		3/4	
3	16	3	162	3	344	3	491	3		3		3		3		3		3	
1/4	18	1/4	166	1/4	348	1/4	493	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	20	1/2	170	1/2	352	1/2	494	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	22	3/4	174	3/4	355	3/4	496	3/4		3/4		3/4		3/4		3/4		3/4	
4	25	4	177	4	359	4	498	4		4		4		4		4		4	
1/4	27	1/4	181	1/4	363	1/4	499	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	29	1/2	185	1/2	366	1/2	501	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	32	3/4	189	3/4	370	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
5	34	5	192	5	373	5	504	5		5		5		5		5		5	
1/4	37	1/4	196	1/4	377	1/4	504	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	39	1/2	200	1/2	380	1/2	505	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	42	3/4	204	3/4	384	3/4	506	3/4		3/4		3/4		3/4		3/4		3/4	
6	44	6	207	6	387	6	507	6		6		6		6		6		6	
1/4	47	1/4	211	1/4	391	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	50	1/2	215	1/2	394	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	219	3/4	398	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	56	7	223	7	401	7		7		7		7		7		7		7	
1/4	58	1/4	227	1/4	404	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	61	1/2	230	1/2	408	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	234	3/4	411	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	67	8	238	8	414	8		8		8		8		8		8		8	
1/4	70	1/4	242	1/4	418	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	246	1/2	421	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	77	3/4	250	3/4	424	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	80	9	253	9	427	9		9		9		9		9		9		9	
1/4	83	1/4	257	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	86	1/2	261	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	89	3/4	265	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	92	10	269	10	440	10		10		10		10		10		10		10	
1/4	96	1/4	273	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	99	1/2	276	1/2	445	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	102	3/4	280	3/4	448	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	106	11	284	11	451	11		11		11		11		11		11		11	
1/4	109	1/4	288	1/4	454	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	113	1/2	292	1/2	457	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	116	3/4	296	3/4	460	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 TO 2" DIAMETER PIPE.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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

BARGE "HFL 427"

PORT SLOP

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,191	0	2,385	0	3,579	0	4,773	0		0		0		0		0	
1/4	25	1/4	1,216	1/4	2,410	1/4	3,604	1/4	4,798	1/4		1/4		1/4		1/4		1/4	
1/2	49	1/2	1,241	1/2	2,435	1/2	3,629	1/2	4,823	1/2		1/2		1/2		1/2		1/2	
3/4	74	3/4	1,266	3/4	2,460	3/4	3,654	3/4	4,848	3/4		3/4		3/4		3/4		3/4	
1	98	1	1,291	1	2,485	1	3,679	1	4,872	1		1		1		1		1	
1/4	123	1/4	1,316	1/4	2,509	1/4	3,703	1/4	4,897	1/4		1/4		1/4		1/4		1/4	
1/2	148	1/2	1,340	1/2	2,534	1/2	3,728	1/2	4,922	1/2		1/2		1/2		1/2		1/2	
3/4	172	3/4	1,365	3/4	2,559	3/4	3,753	3/4	4,947	3/4		3/4		3/4		3/4		3/4	
2	197	2	1,390	2	2,584	2	3,778	2	4,972	2		2		2		2		2	
1/4	222	1/4	1,415	1/4	2,609	1/4	3,803	1/4	4,997	1/4		1/4		1/4		1/4		1/4	
1/2	247	1/2	1,440	1/2	2,634	1/2	3,828	1/2	5,022	1/2		1/2		1/2		1/2		1/2	
3/4	271	3/4	1,465	3/4	2,659	3/4	3,853	3/4	5,047	3/4		3/4		3/4		3/4		3/4	
3	296	3	1,490	3	2,684	3	3,878	3	5,071	3		3		3		3		3	
1/4	321	1/4	1,515	1/4	2,708	1/4	3,902	1/4	5,096	1/4		1/4		1/4		1/4		1/4	
1/2	346	1/2	1,539	1/2	2,733	1/2	3,927	1/2	5,121	1/2		1/2		1/2		1/2		1/2	
3/4	371	3/4	1,564	3/4	2,758	3/4	3,952	3/4	5,146	3/4		3/4		3/4		3/4		3/4	
4	395	4	1,589	4	2,783	4	3,977	4	5,171	4		4		4		4		4	
1/4	420	1/4	1,614	1/4	2,808	1/4	4,002	1/4	5,196	1/4		1/4		1/4		1/4		1/4	
1/2	445	1/2	1,639	1/2	2,833	1/2	4,027	1/2	5,221	1/2		1/2		1/2		1/2		1/2	
3/4	470	3/4	1,664	3/4	2,858	3/4	4,052	3/4	5,246	3/4		3/4		3/4		3/4		3/4	
5	495	5	1,689	5	2,883	5	4,076	5	5,270	5		5		5		5		5	
1/4	520	1/4	1,714	1/4	2,907	1/4	4,101	1/4	5,295	1/4		1/4		1/4		1/4		1/4	
1/2	545	1/2	1,738	1/2	2,932	1/2	4,126	1/2	5,320	1/2		1/2		1/2		1/2		1/2	
3/4	569	3/4	1,763	3/4	2,957	3/4	4,151	3/4	5,345	3/4		3/4		3/4		3/4		3/4	
6	594	6	1,788	6	2,982	6	4,176	6	5,370	6		6		6		6		6	
1/4	619	1/4	1,813	1/4	3,007	1/4	4,201	1/4	5,395	1/4		1/4		1/4		1/4		1/4	
1/2	644	1/2	1,838	1/2	3,032	1/2	4,226	1/2	5,420	1/2		1/2		1/2		1/2		1/2	
3/4	669	3/4	1,863	3/4	3,057	3/4	4,251	3/4	5,445	3/4		3/4		3/4		3/4		3/4	
7	694	7	1,888	7	3,082	7	4,275	7	5,469	7		7		7		7		7	
1/4	719	1/4	1,913	1/4	3,106	1/4	4,300	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	744	1/2	1,937	1/2	3,131	1/2	4,325	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	768	3/4	1,962	3/4	3,156	3/4	4,350	3/4		3/4		3/4		3/4		3/4		3/4	
8	793	8	1,987	8	3,181	8	4,375	8		8		8		8		8		8	
1/4	818	1/4	2,012	1/4	3,206	1/4	4,400	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	843	1/2	2,037	1/2	3,231	1/2	4,425	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	868	3/4	2,062	3/4	3,256	3/4	4,450	3/4		3/4		3/4		3/4		3/4		3/4	
9	893	9	2,087	9	3,281	9	4,474	9		9		9		9		9		9	
1/4	918	1/4	2,112	1/4	3,305	1/4	4,499	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	942	1/2	2,136	1/2	3,330	1/2	4,524	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,161	3/4	3,355	3/4	4,549	3/4		3/4		3/4		3/4		3/4		3/4	
10	992	10	2,186	10	3,380	10	4,574	10		10		10		10		10		10	
1/4	1,017	1/4	2,211	1/4	3,405	1/4	4,599	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,042	1/2	2,236	1/2	3,430	1/2	4,624	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,067	3/4	2,261	3/4	3,455	3/4	4,649	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,092	11	2,286	11	3,480	11	4,673	11		11		11		11		11		11	
1/4	1,117	1/4	2,311	1/4	3,504	1/4	4,698	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,141	1/2	2,335	1/2	3,529	1/2	4,723	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,166	3/4	2,360	3/4	3,554	3/4	4,748	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 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 THREADS ON "MMC" VALVE.

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BARGE "HFL 427"

STBD SLOP

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,151	0	2,306	0	3,460	0	4,614	0		0		0		0		0	
1/4	24	1/4	1,176	1/4	2,330	1/4	3,484	1/4	4,638	1/4		1/4		1/4		1/4		1/4	
1/2	47	1/2	1,200	1/2	2,354	1/2	3,508	1/2	4,662	1/2		1/2		1/2		1/2		1/2	
3/4	71	3/4	1,224	3/4	2,378	3/4	3,532	3/4	4,686	3/4		3/4		3/4		3/4		3/4	
1	95	1	1,248	1	2,402	1	3,556	1	4,710	1		1		1		1		1	
1/4	119	1/4	1,272	1/4	2,426	1/4	3,580	1/4	4,734	1/4		1/4		1/4		1/4		1/4	
1/2	143	1/2	1,296	1/2	2,450	1/2	3,604	1/2	4,758	1/2		1/2		1/2		1/2		1/2	
3/4	166	3/4	1,320	3/4	2,474	3/4	3,628	3/4	4,782	3/4		3/4		3/4		3/4		3/4	
2	190	2	1,344	2	2,498	2	3,652	2	4,806	2		2		2		2		2	
1/4	214	1/4	1,368	1/4	2,522	1/4	3,676	1/4	4,830	1/4		1/4		1/4		1/4		1/4	
1/2	238	1/2	1,392	1/2	2,546	1/2	3,700	1/2	4,854	1/2		1/2		1/2		1/2		1/2	
3/4	262	3/4	1,416	3/4	2,570	3/4	3,724	3/4	4,879	3/4		3/4		3/4		3/4		3/4	
3	286	3	1,440	3	2,594	3	3,748	3	4,903	3		3		3		3		3	
1/4	310	1/4	1,464	1/4	2,618	1/4	3,772	1/4	4,927	1/4		1/4		1/4		1/4		1/4	
1/2	334	1/2	1,488	1/2	2,642	1/2	3,796	1/2	4,951	1/2		1/2		1/2		1/2		1/2	
3/4	358	3/4	1,512	3/4	2,666	3/4	3,821	3/4	4,975	3/4		3/4		3/4		3/4		3/4	
4	382	4	1,536	4	2,690	4	3,845	4	4,999	4		4		4		4		4	
1/4	406	1/4	1,560	1/4	2,714	1/4	3,869	1/4	5,023	1/4		1/4		1/4		1/4		1/4	
1/2	430	1/2	1,584	1/2	2,738	1/2	3,893	1/2	5,047	1/2		1/2		1/2		1/2		1/2	
3/4	454	3/4	1,608	3/4	2,763	3/4	3,917	3/4	5,071	3/4		3/4		3/4		3/4		3/4	
5	478	5	1,632	5	2,787	5	3,941	5	5,095	5		5		5		5		5	
1/4	502	1/4	1,656	1/4	2,811	1/4	3,965	1/4	5,119	1/4		1/4		1/4		1/4		1/4	
1/2	526	1/2	1,680	1/2	2,835	1/2	3,989	1/2	5,143	1/2		1/2		1/2		1/2		1/2	
3/4	550	3/4	1,705	3/4	2,859	3/4	4,013	3/4	5,167	3/4		3/4		3/4		3/4		3/4	
6	574	6	1,729	6	2,883	6	4,037	6	5,191	6		6		6		6		6	
1/4	598	1/4	1,753	1/4	2,907	1/4	4,061	1/4	5,215	1/4		1/4		1/4		1/4		1/4	
1/2	622	1/2	1,777	1/2	2,931	1/2	4,085	1/2	5,239	1/2		1/2		1/2		1/2		1/2	
3/4	647	3/4	1,801	3/4	2,955	3/4	4,109	3/4	5,263	3/4		3/4		3/4		3/4		3/4	
7	671	7	1,825	7	2,979	7	4,133	7	5,287	7		7		7		7		7	
1/4	695	1/4	1,849	1/4	3,003	1/4	4,157	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	719	1/2	1,873	1/2	3,027	1/2	4,181	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	743	3/4	1,897	3/4	3,051	3/4	4,205	3/4		3/4		3/4		3/4		3/4		3/4	
8	767	8	1,921	8	3,075	8	4,229	8		8		8		8		8		8	
1/4	791	1/4	1,945	1/4	3,099	1/4	4,253	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	815	1/2	1,969	1/2	3,123	1/2	4,277	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	839	3/4	1,993	3/4	3,147	3/4	4,301	3/4		3/4		3/4		3/4		3/4		3/4	
9	863	9	2,017	9	3,171	9	4,325	9		9		9		9		9		9	
1/4	887	1/4	2,041	1/4	3,195	1/4	4,350	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	911	1/2	2,065	1/2	3,219	1/2	4,374	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	935	3/4	2,089	3/4	3,243	3/4	4,398	3/4		3/4		3/4		3/4		3/4		3/4	
10	959	10	2,113	10	3,267	10	4,422	10		10		10		10		10		10	
1/4	983	1/4	2,137	1/4	3,292	1/4	4,446	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,007	1/2	2,161	1/2	3,316	1/2	4,470	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,031	3/4	2,185	3/4	3,340	3/4	4,494	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,055	11	2,209	11	3,364	11	4,518	11		11		11		11		11		11	
1/4	1,079	1/4	2,234	1/4	3,388	1/4	4,542	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,103	1/2	2,258	1/2	3,412	1/2	4,566	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,127	3/4	2,282	3/4	3,436	3/4	4,590	3/4		3/4		3/4		3/4		3/4		3/4	

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BARGE "HFL 427"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
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: 236'-00"

October 22, 2013

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

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BARGE "HFL 427"

1 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	197,680	0	183,400	0	169,052	0	154,665	0	140,273	0	125,881	0	111,490	0	97,095
1/4		1/4		1/4	197,385	1/4	183,101	1/4	168,753	1/4	154,365	1/4	139,973	1/4	125,582	1/4	111,190	1/4	96,795
1/2		1/2		1/2	197,091	1/2	182,802	1/2	168,454	1/2	154,065	1/2	139,673	1/2	125,282	1/2	110,890	1/2	96,495
3/4		3/4		3/4	196,796	3/4	182,503	3/4	168,155	3/4	153,765	3/4	139,374	3/4	124,982	3/4	110,590	3/4	96,195
1		1		1	196,501	1	182,204	1	167,856	1	153,466	1	139,074	1	124,682	1	110,290	1	95,895
1/4		1/4		1/4	196,205	1/4	181,906	1/4	167,557	1/4	153,166	1/4	138,774	1/4	124,382	1/4	109,990	1/4	95,595
1/2		1/2		1/2	195,910	1/2	181,607	1/2	167,257	1/2	152,866	1/2	138,474	1/2	124,082	1/2	109,691	1/2	95,295
3/4		3/4		3/4	195,614	3/4	181,308	3/4	166,958	3/4	152,566	3/4	138,174	3/4	123,783	3/4	109,391	3/4	94,995
2		2		2	195,318	2	181,009	2	166,658	2	152,266	2	137,874	2	123,483	2	109,091	2	94,695
1/4		1/4		1/4	195,022	1/4	180,710	1/4	166,358	1/4	151,966	1/4	137,575	1/4	123,183	1/4	108,791	1/4	94,396
1/2		1/2		1/2	194,726	1/2	180,411	1/2	166,058	1/2	151,667	1/2	137,275	1/2	122,883	1/2	108,491	1/2	94,096
3/4		3/4		3/4	194,430	3/4	180,112	3/4	165,759	3/4	151,367	3/4	136,975	3/4	122,583	3/4	108,191	3/4	93,796
3		3		3	194,134	3	179,813	3	165,459	3	151,067	3	136,675	3	122,283	3	107,892	3	93,496
1/4		1/4		1/4	193,838	1/4	179,514	1/4	165,159	1/4	150,767	1/4	136,375	1/4	121,984	1/4	107,592	1/4	93,196
1/2		1/2		1/2	193,542	1/2	179,215	1/2	164,859	1/2	150,467	1/2	136,076	1/2	121,684	1/2	107,292	1/2	92,896
3/4		3/4		3/4	193,247	3/4	178,916	3/4	164,559	3/4	150,167	3/4	135,776	3/4	121,384	3/4	106,992	3/4	92,596
4		4		4	192,951	4	178,617	4	164,259	4	149,868	4	135,476	4	121,084	4	106,692	4	92,296
1/4		1/4		1/4	192,655	1/4	178,319	1/4	163,960	1/4	149,568	1/4	135,176	1/4	120,784	1/4	106,392	1/4	91,996
1/2		1/2		1/2	192,359	1/2	178,020	1/2	163,660	1/2	149,268	1/2	134,876	1/2	120,484	1/2	106,093	1/2	91,696
3/4		3/4		3/4	192,063	3/4	177,721	3/4	163,360	3/4	148,968	3/4	134,576	3/4	120,185	3/4	105,793	3/4	91,396
5		5		5	191,765	5	177,422	5	163,060	5	148,668	5	134,277	5	119,885	5	105,493	5	91,096
1/4		1/4		1/4	191,468	1/4	177,123	1/4	162,760	1/4	148,369	1/4	133,977	1/4	119,585	1/4	105,193	1/4	90,796
1/2		1/2		1/2	191,170	1/2	176,824	1/2	162,460	1/2	148,069	1/2	133,677	1/2	119,285	1/2	104,893	1/2	90,496
3/4		3/4		3/4	190,873	3/4	176,525	3/4	162,161	3/4	147,769	3/4	133,377	3/4	118,985	3/4	104,593	3/4	90,196
6		6		6	190,574	6	176,226	6	161,861	6	147,469	6	133,077	6	118,685	6	104,294	6	89,896
1/4		1/4		1/4	190,275	1/4	175,927	1/4	161,561	1/4	147,169	1/4	132,777	1/4	118,386	1/4	103,994	1/4	89,596
1/2		1/2		1/2	189,976	1/2	175,628	1/2	161,261	1/2	146,869	1/2	132,478	1/2	118,086	1/2	103,694	1/2	89,296
3/4		3/4		3/4	189,677	3/4	175,329	3/4	160,961	3/4	146,570	3/4	132,178	3/4	117,786	3/4	103,394	3/4	88,996
7		7		7	189,378	7	175,030	7	160,661	7	146,270	7	131,878	7	117,486	7	103,094	7	88,696
1/4		1/4		1/4	189,080	1/4	174,732	1/4	160,362	1/4	145,970	1/4	131,578	1/4	117,186	1/4	102,794	1/4	88,396
1/2		1/2		1/2	188,781	1/2	174,433	1/2	160,062	1/2	145,670	1/2	131,278	1/2	116,886	1/2	102,494	1/2	88,096
3/4		3/4	201,636	3/4	188,482	3/4	174,134	3/4	159,762	3/4	145,370	3/4	130,978	3/4	116,587	3/4	102,195	3/4	87,796
8		8	201,468	8	188,183	8	173,835	8	159,462	8	145,070	8	130,679	8	116,287	8	101,895	8	87,496
1/4		1/4	201,301	1/4	187,884	1/4	173,536	1/4	159,162	1/4	144,771	1/4	130,379	1/4	115,987	1/4	101,595	1/4	87,196
1/2		1/2	201,133	1/2	187,585	1/2	173,237	1/2	158,863	1/2	144,471	1/2	130,079	1/2	115,687	1/2	101,295	1/2	86,896
3/4		3/4	200,965	3/4	187,286	3/4	172,938	3/4	158,563	3/4	144,171	3/4	129,779	3/4	115,387	3/4	100,995	3/4	86,596
9		9	200,755	9	186,987	9	172,639	9	158,263	9	143,871	9	129,479	9	115,088	9	100,695	9	86,296
1/4		1/4	200,545	1/4	186,688	1/4	172,340	1/4	157,963	1/4	143,571	1/4	129,179	1/4	114,788	1/4	100,395	1/4	85,997
1/2		1/2	200,334	1/2	186,389	1/2	172,041	1/2	157,663	1/2	143,271	1/2	128,880	1/2	114,488	1/2	100,095	1/2	85,697
3/4		3/4	200,124	3/4	186,090	3/4	171,742	3/4	157,363	3/4	142,972	3/4	128,580	3/4	114,188	3/4	99,795	3/4	85,397
10		10	199,871	10	185,791	10	171,443	10	157,064	10	142,672	10	128,280	10	113,888	10	99,495	10	85,097
1/4		1/4	199,618	1/4	185,493	1/4	171,145	1/4	156,764	1/4	142,372	1/4	127,980	1/4	113,588	1/4	99,195	1/4	84,797
1/2		1/2	199,365	1/2	185,194	1/2	170,846	1/2	156,464	1/2	142,072	1/2	127,680	1/2	113,289	1/2	98,895	1/2	84,497
3/4		3/4	199,111	3/4	184,895	3/4	170,547	3/4	156,164	3/4	141,772	3/4	127,380	3/4	112,989	3/4	98,595	3/4	84,197
11		11	198,827	11	184,596	11	170,248	11	155,864	11	141,472	11	127,081	11	112,689	11	98,295	11	83,897
1/4		1/4	198,543	1/4	184,297	1/4	169,949	1/4	155,564	1/4	141,173	1/4	126,781	1/4	112,389	1/4	97,995	1/4	83,597
1/2		1/2	198,259	1/2	183,998	1/2	169,650	1/2	155,265	1/2	140,873	1/2	126,481	1/2	112,089	1/2	97,695	1/2	83,297
3/4		3/4	197,974	3/4	183,699	3/4	169,351	3/4	154,965	3/4	140,573	3/4	126,181	3/4	111,789	3/4	97,395	3/4	82,997

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 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

1 PORT

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	82,697	0	68,299	0	53,955	0	39,607	0	25,209	0	11,386	0		0		0		0	
1/4	82,397	1/4	67,999	1/4	53,657	1/4	39,307	1/4	24,909	1/4	11,118	1/4		1/4		1/4		1/4	
1/2	82,097	1/2	67,699	1/2	53,360	1/2	39,007	1/2	24,609	1/2	10,850	1/2		1/2		1/2		1/2	
3/4	81,797	3/4	67,399	3/4	53,062	3/4	38,707	3/4	24,309	3/4	10,581	3/4		3/4		3/4		3/4	
1	81,497	1	67,099	1	52,765	1	38,407	1	24,009	1	10,316	1		1		1		1	
1/4	81,197	1/4	66,799	1/4	52,467	1/4	38,107	1/4	23,709	1/4	10,051	1/4		1/4		1/4		1/4	
1/2	80,897	1/2	66,499	1/2	52,169	1/2	37,807	1/2	23,409	1/2	9,786	1/2		1/2		1/2		1/2	
3/4	80,597	3/4	66,199	3/4	51,872	3/4	37,507	3/4	23,109	3/4	9,521	3/4		3/4		3/4		3/4	
2	80,297	2	65,899	2	51,574	2	37,207	2	22,810	2	9,260	2		2		2		2	
1/4	79,997	1/4	65,599	1/4	51,277	1/4	36,907	1/4	22,510	1/4	8,998	1/4		1/4		1/4		1/4	
1/2	79,697	1/2	65,299	1/2	50,979	1/2	36,607	1/2	22,211	1/2	8,737	1/2		1/2		1/2		1/2	
3/4	79,397	3/4	64,999	3/4	50,681	3/4	36,307	3/4	21,911	3/4	8,475	3/4		3/4		3/4		3/4	
3	79,097	3	64,699	3	50,384	3	36,007	3	21,613	3	8,217	3		3		3		3	
1/4	78,797	1/4	64,399	1/4	50,086	1/4	35,707	1/4	21,315	1/4	7,958	1/4		1/4		1/4		1/4	
1/2	78,497	1/2	64,099	1/2	49,788	1/2	35,408	1/2	21,018	1/2	7,700	1/2		1/2		1/2		1/2	
3/4	78,197	3/4	63,799	3/4	49,490	3/4	35,108	3/4	20,720	3/4	7,442	3/4		3/4		3/4		3/4	
4	77,897	4	63,499	4	49,192	4	34,808	4	20,425	4	7,187	4		4		4		4	
1/4	77,598	1/4	63,199	1/4	48,894	1/4	34,508	1/4	20,130	1/4	6,932	1/4		1/4		1/4		1/4	
1/2	77,298	1/2	62,899	1/2	48,595	1/2	34,208	1/2	19,835	1/2	6,677	1/2		1/2		1/2		1/2	
3/4	76,998	3/4	62,599	3/4	48,297	3/4	33,908	3/4	19,540	3/4	6,422	3/4		3/4		3/4		3/4	
5	76,698	5	62,300	5	47,998	5	33,608	5	19,248	5	6,171	5		5		5		5	
1/4	76,398	1/4	62,000	1/4	47,700	1/4	33,308	1/4	18,957	1/4	5,920	1/4		1/4		1/4		1/4	
1/2	76,098	1/2	61,700	1/2	47,401	1/2	33,008	1/2	18,665	1/2	5,669	1/2		1/2		1/2		1/2	
3/4	75,798	3/4	61,400	3/4	47,103	3/4	32,708	3/4	18,373	3/4	5,417	3/4		3/4		3/4		3/4	
6	75,498	6	61,101	6	46,804	6	32,408	6	18,085	6	5,170	6		6		6		6	
1/4	75,198	1/4	60,803	1/4	46,504	1/4	32,108	1/4	17,797	1/4	4,923	1/4		1/4		1/4		1/4	
1/2	74,898	1/2	60,504	1/2	46,205	1/2	31,808	1/2	17,509	1/2	4,675	1/2		1/2		1/2		1/2	
3/4	74,598	3/4	60,205	3/4	45,906	3/4	31,508	3/4	17,220	3/4	4,428	3/4		3/4		3/4		3/4	
7	74,298	7	59,908	7	45,606	7	31,208	7	16,935	7	4,184	7		7		7		7	
1/4	73,998	1/4	59,610	1/4	45,306	1/4	30,908	1/4	16,650	1/4	3,941	1/4		1/4		1/4		1/4	
1/2	73,698	1/2	59,312	1/2	45,006	1/2	30,608	1/2	16,365	1/2	3,698	1/2		1/2		1/2		1/2	
3/4	73,398	3/4	59,014	3/4	44,706	3/4	30,308	3/4	16,080	3/4	3,454	3/4		3/4		3/4		3/4	
8	73,098	8	58,717	8	44,406	8	30,008	8	15,799	8	3,216	8		8		8		8	
1/4	72,798	1/4	58,419	1/4	44,106	1/4	29,708	1/4	15,517	1/4	2,977	1/4		1/4		1/4		1/4	
1/2	72,498	1/2	58,121	1/2	43,806	1/2	29,408	1/2	15,236	1/2	2,738	1/2		1/2		1/2		1/2	
3/4	72,198	3/4	57,824	3/4	43,506	3/4	29,108	3/4	14,954	3/4	2,499	3/4		3/4		3/4		3/4	
9	71,898	9	57,526	9	43,206	9	28,809	9	14,676	9	2,282	9		9		9		9	
1/4	71,598	1/4	57,228	1/4	42,906	1/4	28,509	1/4	14,397	1/4	2,064	1/4		1/4		1/4		1/4	
1/2	71,298	1/2	56,931	1/2	42,606	1/2	28,209	1/2	14,119	1/2	1,847	1/2		1/2		1/2		1/2	
3/4	70,998	3/4	56,633	3/4	42,306	3/4	27,909	3/4	13,841	3/4	1,629	3/4		3/4		3/4		3/4	
10	70,698	10	56,336	10	42,007	10	27,609	10	13,566	10	1,452	10		10		10		10	
1/4	70,398	1/4	56,038	1/4	41,707	1/4	27,309	1/4	13,291	1/4	1,275	1/4		1/4		1/4		1/4	
1/2	70,098	1/2	55,740	1/2	41,407	1/2	27,009	1/2	13,016	1/2	1,098	1/2		1/2		1/2		1/2	
3/4	69,798	3/4	55,443	3/4	41,107	3/4	26,709	3/4	12,741	3/4	921	3/4		3/4		3/4		3/4	
11	69,498	11	55,145	11	40,807	11	26,409	11	12,469	11		11		11		11		11	
1/4	69,199	1/4	54,848	1/4	40,507	1/4	26,109	1/4	12,198	1/4		1/4		1/4		1/4		1/4	
1/2	68,899	1/2	54,550	1/2	40,207	1/2	25,809	1/2	11,926	1/2		1/2		1/2		1/2		1/2	
3/4	68,599	3/4	54,253	3/4	39,907	3/4	25,509	3/4	11,654	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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

BARGE "HFL 427"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	197,774	0	183,494	0	169,147	0	154,759	0	140,368	0	125,976	0	111,584	0	97,190
1/4		1/4		1/4	197,480	1/4	183,196	1/4	168,848	1/4	154,460	1/4	140,068	1/4	125,676	1/4	111,285	1/4	96,890
1/2		1/2		1/2	197,185	1/2	182,897	1/2	168,549	1/2	154,160	1/2	139,768	1/2	125,376	1/2	110,985	1/2	96,591
3/4		3/4		3/4	196,890	3/4	182,598	3/4	168,250	3/4	153,860	3/4	139,468	3/4	125,077	3/4	110,685	3/4	96,291
1		1		1	196,595	1	182,299	1	167,950	1	153,560	1	139,168	1	124,777	1	110,385	1	95,991
1/4		1/4		1/4	196,299	1/4	182,000	1/4	167,651	1/4	153,260	1/4	138,868	1/4	124,477	1/4	110,085	1/4	95,691
1/2		1/2		1/2	196,004	1/2	181,701	1/2	167,352	1/2	152,960	1/2	138,569	1/2	124,177	1/2	109,786	1/2	95,391
3/4		3/4		3/4	195,708	3/4	181,402	3/4	167,052	3/4	152,661	3/4	138,269	3/4	123,877	3/4	109,486	3/4	95,091
2		2		2	195,413	2	181,103	2	166,752	2	152,361	2	137,969	2	123,577	2	109,186	2	94,791
1/4		1/4		1/4	195,117	1/4	180,804	1/4	166,453	1/4	152,061	1/4	137,669	1/4	123,278	1/4	108,886	1/4	94,491
1/2		1/2		1/2	194,821	1/2	180,505	1/2	166,153	1/2	151,761	1/2	137,369	1/2	122,978	1/2	108,586	1/2	94,191
3/4		3/4		3/4	194,525	3/4	180,206	3/4	165,853	3/4	151,461	3/4	137,070	3/4	122,678	3/4	108,286	3/4	93,891
3		3		3	194,229	3	179,907	3	165,553	3	151,161	3	136,770	3	122,378	3	107,987	3	93,591
1/4		1/4		1/4	193,933	1/4	179,609	1/4	165,253	1/4	150,862	1/4	136,470	1/4	122,078	1/4	107,687	1/4	93,291
1/2		1/2		1/2	193,637	1/2	179,310	1/2	164,954	1/2	150,562	1/2	136,170	1/2	121,778	1/2	107,387	1/2	92,991
3/4		3/4		3/4	193,341	3/4	179,011	3/4	164,654	3/4	150,262	3/4	135,870	3/4	121,479	3/4	107,087	3/4	92,691
4		4		4	193,045	4	178,712	4	164,354	4	149,962	4	135,570	4	121,179	4	106,787	4	92,391
1/4		1/4		1/4	192,749	1/4	178,413	1/4	164,054	1/4	149,662	1/4	135,271	1/4	120,879	1/4	106,488	1/4	92,091
1/2		1/2		1/2	192,453	1/2	178,114	1/2	163,754	1/2	149,362	1/2	134,971	1/2	120,579	1/2	106,188	1/2	91,791
3/4		3/4		3/4	192,157	3/4	177,815	3/4	163,454	3/4	149,063	3/4	134,671	3/4	120,279	3/4	105,888	3/4	91,491
5		5		5	191,860	5	177,516	5	163,155	5	148,763	5	134,371	5	119,980	5	105,588	5	91,191
1/4		1/4		1/4	191,562	1/4	177,217	1/4	162,855	1/4	148,463	1/4	134,071	1/4	119,680	1/4	105,288	1/4	90,891
1/2		1/2		1/2	191,265	1/2	176,918	1/2	162,555	1/2	148,163	1/2	133,771	1/2	119,380	1/2	104,988	1/2	90,591
3/4		3/4		3/4	190,967	3/4	176,619	3/4	162,255	3/4	147,863	3/4	133,472	3/4	119,080	3/4	104,689	3/4	90,291
6		6		6	190,668	6	176,321	6	161,955	6	147,563	6	133,172	6	118,780	6	104,389	6	89,991
1/4		1/4		1/4	190,370	1/4	176,022	1/4	161,655	1/4	147,264	1/4	132,872	1/4	118,480	1/4	104,089	1/4	89,691
1/2		1/2		1/2	190,071	1/2	175,723	1/2	161,356	1/2	146,964	1/2	132,572	1/2	118,181	1/2	103,789	1/2	89,392
3/4		3/4		3/4	189,772	3/4	175,424	3/4	161,056	3/4	146,664	3/4	132,272	3/4	117,881	3/4	103,489	3/4	89,092
7		7		7	189,473	7	175,125	7	160,756	7	146,364	7	131,972	7	117,581	7	103,189	7	88,792
1/4		1/4		1/4	189,174	1/4	174,826	1/4	160,456	1/4	146,064	1/4	131,673	1/4	117,281	1/4	102,890	1/4	88,492
1/2		1/2		1/2	188,875	1/2	174,527	1/2	160,156	1/2	145,765	1/2	131,373	1/2	116,981	1/2	102,590	1/2	88,192
3/4		3/4	201,730	3/4	188,576	3/4	174,228	3/4	159,856	3/4	145,465	3/4	131,073	3/4	116,681	3/4	102,290	3/4	87,892
8		8	201,562	8	188,277	8	173,929	8	159,557	8	145,165	8	130,773	8	116,382	8	101,990	8	87,592
1/4		1/4	201,395	1/4	187,978	1/4	173,630	1/4	159,257	1/4	144,865	1/4	130,473	1/4	116,082	1/4	101,690	1/4	87,292
1/2		1/2	201,227	1/2	187,679	1/2	173,331	1/2	158,957	1/2	144,565	1/2	130,173	1/2	115,782	1/2	101,390	1/2	86,992
3/4		3/4	201,060	3/4	187,380	3/4	173,032	3/4	158,657	3/4	144,265	3/4	129,874	3/4	115,482	3/4	101,090	3/4	86,692
9		9	200,849	9	187,081	9	172,734	9	158,357	9	143,966	9	129,574	9	115,182	9	100,790	9	86,392
1/4		1/4	200,639	1/4	186,783	1/4	172,435	1/4	158,057	1/4	143,666	1/4	129,274	1/4	114,883	1/4	100,490	1/4	86,092
1/2		1/2	200,429	1/2	186,484	1/2	172,136	1/2	157,758	1/2	143,366	1/2	128,974	1/2	114,583	1/2	100,190	1/2	85,792
3/4		3/4	200,218	3/4	186,185	3/4	171,837	3/4	157,458	3/4	143,066	3/4	128,674	3/4	114,283	3/4	99,890	3/4	85,492
10		10	199,965	10	185,886	10	171,538	10	157,158	10	142,766	10	128,375	10	113,983	10	99,590	10	85,192
1/4		1/4	199,712	1/4	185,587	1/4	171,239	1/4	156,858	1/4	142,466	1/4	128,075	1/4	113,683	1/4	99,290	1/4	84,892
1/2		1/2	199,459	1/2	185,288	1/2	170,940	1/2	156,558	1/2	142,167	1/2	127,775	1/2	113,383	1/2	98,990	1/2	84,592
3/4		3/4	199,206	3/4	184,989	3/4	170,641	3/4	156,259	3/4	141,867	3/4	127,475	3/4	113,084	3/4	98,690	3/4	84,292
11		11	198,921	11	184,690	11	170,342	11	155,959	11	141,567	11	127,175	11	112,784	11	98,390	11	83,992
1/4		1/4	198,637	1/4	184,391	1/4	170,043	1/4	155,659	1/4	141,267	1/4	126,875	1/4	112,484	1/4	98,090	1/4	83,692
1/2		1/2	198,353	1/2	184,092	1/2	169,744	1/2	155,359	1/2	140,967	1/2	126,576	1/2	112,184	1/2	97,790	1/2	83,392
3/4		3/4	198,069	3/4	183,793	3/4	169,445	3/4	155,059	3/4	140,667	3/4	126,276	3/4	111,884	3/4	97,490	3/4	83,092

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 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

1 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	82,792	0	68,394	0	54,000	0	39,606	0	25,209	0	11,386	0		0		0		0	
1/4	82,492	1/4	68,095	1/4	53,701	1/4	39,306	1/4	24,909	1/4	11,118	1/4		1/4		1/4		1/4	
1/2	82,193	1/2	67,795	1/2	53,401	1/2	39,006	1/2	24,609	1/2	10,849	1/2		1/2		1/2		1/2	
3/4	81,893	3/4	67,495	3/4	53,101	3/4	38,706	3/4	24,309	3/4	10,581	3/4		3/4		3/4		3/4	
1	81,593	1	67,195	1	52,801	1	38,406	1	24,009	1	10,316	1		1		1		1	
1/4	81,293	1/4	66,895	1/4	52,502	1/4	38,106	1/4	23,709	1/4	10,051	1/4		1/4		1/4		1/4	
1/2	80,993	1/2	66,595	1/2	52,202	1/2	37,806	1/2	23,409	1/2	9,786	1/2		1/2		1/2		1/2	
3/4	80,693	3/4	66,295	3/4	51,902	3/4	37,507	3/4	23,109	3/4	9,521	3/4		3/4		3/4		3/4	
2	80,393	2	65,995	2	51,603	2	37,207	2	22,809	2	9,260	2		2		2		2	
1/4	80,093	1/4	65,695	1/4	51,303	1/4	36,907	1/4	22,510	1/4	8,998	1/4		1/4		1/4		1/4	
1/2	79,793	1/2	65,395	1/2	51,003	1/2	36,607	1/2	22,210	1/2	8,737	1/2		1/2		1/2		1/2	
3/4	79,493	3/4	65,095	3/4	50,703	3/4	36,307	3/4	21,911	3/4	8,475	3/4		3/4		3/4		3/4	
3	79,193	3	64,795	3	50,404	3	36,007	3	21,613	3	8,217	3		3		3		3	
1/4	78,893	1/4	64,495	1/4	50,104	1/4	35,707	1/4	21,315	1/4	7,958	1/4		1/4		1/4		1/4	
1/2	78,593	1/2	64,195	1/2	49,804	1/2	35,407	1/2	21,017	1/2	7,700	1/2		1/2		1/2		1/2	
3/4	78,293	3/4	63,895	3/4	49,504	3/4	35,107	3/4	20,719	3/4	7,442	3/4		3/4		3/4		3/4	
4	77,993	4	63,595	4	49,204	4	34,807	4	20,424	4	7,187	4		4		4		4	
1/4	77,693	1/4	63,295	1/4	48,904	1/4	34,507	1/4	20,130	1/4	6,932	1/4		1/4		1/4		1/4	
1/2	77,393	1/2	62,995	1/2	48,605	1/2	34,207	1/2	19,835	1/2	6,677	1/2		1/2		1/2		1/2	
3/4	77,093	3/4	62,695	3/4	48,305	3/4	33,907	3/4	19,540	3/4	6,422	3/4		3/4		3/4		3/4	
5	76,793	5	62,395	5	48,005	5	33,607	5	19,248	5	6,171	5		5		5		5	
1/4	76,493	1/4	62,095	1/4	47,705	1/4	33,307	1/4	18,956	1/4	5,920	1/4		1/4		1/4		1/4	
1/2	76,193	1/2	61,795	1/2	47,405	1/2	33,007	1/2	18,665	1/2	5,669	1/2		1/2		1/2		1/2	
3/4	75,893	3/4	61,495	3/4	47,105	3/4	32,707	3/4	18,373	3/4	5,417	3/4		3/4		3/4		3/4	
6	75,593	6	61,195	6	46,805	6	32,407	6	18,085	6	5,170	6		6		6		6	
1/4	75,294	1/4	60,896	1/4	46,505	1/4	32,107	1/4	17,797	1/4	4,923	1/4		1/4		1/4		1/4	
1/2	74,994	1/2	60,596	1/2	46,205	1/2	31,808	1/2	17,508	1/2	4,675	1/2		1/2		1/2		1/2	
3/4	74,694	3/4	60,296	3/4	45,905	3/4	31,508	3/4	17,220	3/4	4,428	3/4		3/4		3/4		3/4	
7	74,394	7	59,996	7	45,605	7	31,208	7	16,935	7	4,184	7		7		7		7	
1/4	74,094	1/4	59,696	1/4	45,305	1/4	30,908	1/4	16,650	1/4	3,941	1/4		1/4		1/4		1/4	
1/2	73,794	1/2	59,396	1/2	45,005	1/2	30,608	1/2	16,365	1/2	3,698	1/2		1/2		1/2		1/2	
3/4	73,494	3/4	59,096	3/4	44,705	3/4	30,308	3/4	16,080	3/4	3,454	3/4		3/4		3/4		3/4	
8	73,194	8	58,796	8	44,405	8	30,008	8	15,799	8	3,216	8		8		8		8	
1/4	72,894	1/4	58,496	1/4	44,105	1/4	29,708	1/4	15,517	1/4	2,977	1/4		1/4		1/4		1/4	
1/2	72,594	1/2	58,197	1/2	43,805	1/2	29,408	1/2	15,235	1/2	2,738	1/2		1/2		1/2		1/2	
3/4	72,294	3/4	57,897	3/4	43,506	3/4	29,108	3/4	14,954	3/4	2,499	3/4		3/4		3/4		3/4	
9	71,994	9	57,597	9	43,206	9	28,808	9	14,675	9	2,282	9		9		9		9	
1/4	71,694	1/4	57,297	1/4	42,906	1/4	28,508	1/4	14,397	1/4	2,064	1/4		1/4		1/4		1/4	
1/2	71,394	1/2	56,998	1/2	42,606	1/2	28,208	1/2	14,119	1/2	1,847	1/2		1/2		1/2		1/2	
3/4	71,094	3/4	56,698	3/4	42,306	3/4	27,908	3/4	13,841	3/4	1,629	3/4		3/4		3/4		3/4	
10	70,794	10	56,398	10	42,006	10	27,608	10	13,566	10	1,452	10		10		10		10	
1/4	70,494	1/4	56,098	1/4	41,706	1/4	27,308	1/4	13,291	1/4	1,275	1/4		1/4		1/4		1/4	
1/2	70,194	1/2	55,799	1/2	41,406	1/2	27,008	1/2	13,016	1/2	1,098	1/2		1/2		1/2		1/2	
3/4	69,894	3/4	55,499	3/4	41,106	3/4	26,708	3/4	12,741	3/4	921	3/4		3/4		3/4		3/4	
11	69,594	11	55,199	11	40,806	11	26,408	11	12,469	11		11		11		11		11	
1/4	69,294	1/4	54,900	1/4	40,506	1/4	26,108	1/4	12,198	1/4		1/4		1/4		1/4		1/4	
1/2	68,994	1/2	54,600	1/2	40,206	1/2	25,809	1/2	11,926	1/2		1/2		1/2		1/2		1/2	
3/4	68,694	3/4	54,300	3/4	39,906	3/4	25,509	3/4	11,654	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HFL 427"

2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	212,483	0	197,238	0	181,927	0	166,569	0	151,207	0	135,845	0	120,482	0	105,117
1/4		1/4		1/4	212,169	1/4	196,919	1/4	181,608	1/4	166,249	1/4	150,887	1/4	135,525	1/4	120,162	1/4	104,797
1/2		1/2		1/2	211,854	1/2	196,600	1/2	181,289	1/2	165,929	1/2	150,567	1/2	135,204	1/2	119,842	1/2	104,476
3/4		3/4		3/4	211,539	3/4	196,281	3/4	180,970	3/4	165,609	3/4	150,247	3/4	134,884	3/4	119,522	3/4	104,156
1		1		1	211,223	1	195,962	1	180,650	1	165,289	1	149,927	1	134,564	1	119,202	1	103,836
1/4		1/4		1/4	210,908	1/4	195,643	1/4	180,331	1/4	164,969	1/4	149,607	1/4	134,244	1/4	118,882	1/4	103,516
1/2		1/2		1/2	210,592	1/2	195,324	1/2	180,011	1/2	164,649	1/2	149,287	1/2	133,924	1/2	118,562	1/2	103,196
3/4		3/4		3/4	210,276	3/4	195,005	3/4	179,691	3/4	164,329	3/4	148,967	3/4	133,604	3/4	118,242	3/4	102,875
2		2		2	209,961	2	194,686	2	179,371	2	164,009	2	148,646	2	133,284	2	117,922	2	102,555
1/4		1/4		1/4	209,645	1/4	194,367	1/4	179,051	1/4	163,689	1/4	148,326	1/4	132,964	1/4	117,602	1/4	102,235
1/2		1/2		1/2	209,329	1/2	194,048	1/2	178,731	1/2	163,369	1/2	148,006	1/2	132,644	1/2	117,282	1/2	101,915
3/4		3/4		3/4	209,013	3/4	193,729	3/4	178,411	3/4	163,049	3/4	147,686	3/4	132,324	3/4	116,962	3/4	101,595
3		3		3	208,697	3	193,410	3	178,091	3	162,729	3	147,366	3	132,004	3	116,642	3	101,274
1/4		1/4		1/4	208,381	1/4	193,091	1/4	177,771	1/4	162,408	1/4	147,046	1/4	131,684	1/4	116,322	1/4	100,954
1/2		1/2		1/2	208,065	1/2	192,773	1/2	177,451	1/2	162,088	1/2	146,726	1/2	131,364	1/2	116,002	1/2	100,634
3/4		3/4		3/4	207,749	3/4	192,454	3/4	177,131	3/4	161,768	3/4	146,406	3/4	131,044	3/4	115,682	3/4	100,314
4		4		4	207,433	4	192,135	4	176,811	4	161,448	4	146,086	4	130,724	4	115,362	4	99,994
1/4		1/4		1/4	207,117	1/4	191,816	1/4	176,491	1/4	161,128	1/4	145,766	1/4	130,404	1/4	115,041	1/4	99,673
1/2		1/2		1/2	206,802	1/2	191,497	1/2	176,171	1/2	160,808	1/2	145,446	1/2	130,084	1/2	114,721	1/2	99,353
3/4		3/4		3/4	206,484	3/4	191,178	3/4	175,850	3/4	160,488	3/4	145,126	3/4	129,764	3/4	114,401	3/4	99,033
5		5		5	206,167	5	190,859	5	175,530	5	160,168	5	144,806	5	129,444	5	114,081	5	98,713
1/4		1/4		1/4	205,849	1/4	190,540	1/4	175,210	1/4	159,848	1/4	144,486	1/4	129,124	1/4	113,761	1/4	98,393
1/2		1/2		1/2	205,532	1/2	190,221	1/2	174,890	1/2	159,528	1/2	144,166	1/2	128,804	1/2	113,441	1/2	98,072
3/4		3/4		3/4	205,213	3/4	189,902	3/4	174,570	3/4	159,208	3/4	143,846	3/4	128,483	3/4	113,121	3/4	97,752
6		6		6	204,894	6	189,583	6	174,250	6	158,888	6	143,526	6	128,163	6	112,801	6	97,432
1/4		1/4		1/4	204,575	1/4	189,264	1/4	173,930	1/4	158,568	1/4	143,206	1/4	127,843	1/4	112,481	1/4	97,112
1/2		1/2		1/2	204,256	1/2	188,945	1/2	173,610	1/2	158,248	1/2	142,886	1/2	127,523	1/2	112,161	1/2	96,792
3/4		3/4		3/4	203,937	3/4	188,626	3/4	173,290	3/4	157,928	3/4	142,566	3/4	127,203	3/4	111,841	3/4	96,471
7		7		7	203,618	7	188,307	7	172,970	7	157,608	7	142,246	7	126,883	7	111,521	7	96,151
1/4		1/4		1/4	203,299	1/4	187,988	1/4	172,650	1/4	157,288	1/4	141,925	1/4	126,563	1/4	111,201	1/4	95,831
1/2		1/2	217,020	1/2	202,980	1/2	187,669	1/2	172,330	1/2	156,968	1/2	141,605	1/2	126,243	1/2	110,881	1/2	95,511
3/4		3/4	216,841	3/4	202,661	3/4	187,350	3/4	172,010	3/4	156,648	3/4	141,285	3/4	125,923	3/4	110,560	3/4	95,191
8		8	216,662	8	202,342	8	187,031	8	171,690	8	156,328	8	140,965	8	125,603	8	110,240	8	94,870
1/4		1/4	216,483	1/4	202,023	1/4	186,712	1/4	171,370	1/4	156,008	1/4	140,645	1/4	125,283	1/4	109,920	1/4	94,550
1/2		1/2	216,305	1/2	201,704	1/2	186,393	1/2	171,050	1/2	155,687	1/2	140,325	1/2	124,963	1/2	109,600	1/2	94,230
3/4		3/4	216,080	3/4	201,385	3/4	186,074	3/4	170,730	3/4	155,367	3/4	140,005	3/4	124,643	3/4	109,280	3/4	93,910
9		9	215,855	9	201,066	9	185,755	9	170,410	9	155,047	9	139,685	9	124,323	9	108,959	9	93,590
1/4		1/4	215,631	1/4	200,747	1/4	185,436	1/4	170,090	1/4	154,727	1/4	139,365	1/4	124,003	1/4	108,639	1/4	93,269
1/2		1/2	215,406	1/2	200,428	1/2	185,117	1/2	169,770	1/2	154,407	1/2	139,045	1/2	123,683	1/2	108,319	1/2	92,949
3/4		3/4	215,136	3/4	200,109	3/4	184,798	3/4	169,450	3/4	154,087	3/4	138,725	3/4	123,363	3/4	107,999	3/4	92,629
10		10	214,866	10	199,790	10	184,479	10	169,129	10	153,767	10	138,405	10	123,043	10	107,679	10	92,309
1/4		1/4	214,596	1/4	199,471	1/4	184,160	1/4	168,809	1/4	153,447	1/4	138,085	1/4	122,723	1/4	107,358	1/4	91,988
1/2		1/2	214,325	1/2	199,152	1/2	183,841	1/2	168,489	1/2	153,127	1/2	137,765	1/2	122,403	1/2	107,038	1/2	91,668
3/4		3/4	214,022	3/4	198,833	3/4	183,522	3/4	168,169	3/4	152,807	3/4	137,445	3/4	122,083	3/4	106,718	3/4	91,348
11		11	213,719	11	198,514	11	183,203	11	167,849	11	152,487	11	137,125	11	121,762	11	106,398	11	91,028
1/4		1/4	213,415	1/4	198,195	1/4	182,884	1/4	167,529	1/4	152,167	1/4	136,805	1/4	121,442	1/4	106,077	1/4	90,708
1/2		1/2	213,112	1/2	197,876	1/2	182,565	1/2	167,209	1/2	151,847	1/2	136,485	1/2	121,122	1/2	105,757	1/2	90,387
3/4		3/4	212,797	3/4	197,557	3/4	182,246	3/4	166,889	3/4	151,527	3/4	136,165	3/4	120,802	3/4	105,437	3/4	90,067

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 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 427"

2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	89,747	0	74,377	0	59,290	0	44,505	0	29,434	0	14,066	0		0		0		0	
1/4	89,427	1/4	74,057	1/4	58,981	1/4	44,198	1/4	29,114	1/4	13,746	1/4		1/4		1/4		1/4	
1/2	89,107	1/2	73,737	1/2	58,673	1/2	43,890	1/2	28,794	1/2	13,426	1/2		1/2		1/2		1/2	
3/4	88,786	3/4	73,417	3/4	58,364	3/4	43,583	3/4	28,474	3/4	13,106	3/4		3/4		3/4		3/4	
1	88,466	1	73,096	1	58,056	1	43,275	1	28,154	1	12,785	1		1		1		1	
1/4	88,146	1/4	72,776	1/4	57,748	1/4	42,968	1/4	27,834	1/4	12,465	1/4		1/4		1/4		1/4	
1/2	87,826	1/2	72,456	1/2	57,439	1/2	42,660	1/2	27,514	1/2	12,145	1/2		1/2		1/2		1/2	
3/4	87,506	3/4	72,136	3/4	57,131	3/4	42,353	3/4	27,194	3/4	11,825	3/4		3/4		3/4		3/4	
2	87,185	2	71,816	2	56,822	2	42,045	2	26,874	2	11,505	2		2		2		2	
1/4	86,865	1/4	71,495	1/4	56,514	1/4	41,738	1/4	26,554	1/4	11,184	1/4		1/4		1/4		1/4	
1/2	86,545	1/2	71,175	1/2	56,205	1/2	41,430	1/2	26,234	1/2	10,864	1/2		1/2		1/2		1/2	
3/4	86,225	3/4	70,855	3/4	55,897	3/4	41,123	3/4	25,913	3/4	10,544	3/4		3/4		3/4		3/4	
3	85,905	3	70,535	3	55,588	3	40,815	3	25,593	3	10,224	3		3		3		3	
1/4	85,584	1/4	70,215	1/4	55,280	1/4	40,508	1/4	25,273	1/4	9,904	1/4		1/4		1/4		1/4	
1/2	85,264	1/2	69,894	1/2	54,972	1/2	40,200	1/2	24,953	1/2	9,583	1/2		1/2		1/2		1/2	
3/4	84,944	3/4	69,574	3/4	54,663	3/4	39,892	3/4	24,633	3/4	9,263	3/4		3/4		3/4		3/4	
4	84,624	4	69,254	4	54,355	4	39,584	4	24,312	4	8,943	4		4		4		4	
1/4	84,304	1/4	68,934	1/4	54,046	1/4	39,276	1/4	23,992	1/4	8,623	1/4		1/4		1/4		1/4	
1/2	83,983	1/2	68,614	1/2	53,738	1/2	38,968	1/2	23,672	1/2	8,303	1/2		1/2		1/2		1/2	
3/4	83,663	3/4	68,293	3/4	53,429	3/4	38,660	3/4	23,352	3/4	7,983	3/4		3/4		3/4		3/4	
5	83,343	5	67,973	5	53,121	5	38,352	5	23,032	5	7,663	5		5		5		5	
1/4	83,023	1/4	67,653	1/4	52,813	1/4	38,043	1/4	22,711	1/4	7,344	1/4		1/4		1/4		1/4	
1/2	82,703	1/2	67,333	1/2	52,504	1/2	37,735	1/2	22,391	1/2	7,024	1/2		1/2		1/2		1/2	
3/4	82,382	3/4	67,018	3/4	52,196	3/4	37,420	3/4	22,071	3/4	6,705	3/4		3/4		3/4		3/4	
6	82,062	6	66,704	6	51,888	6	37,106	6	21,751	6	6,385	6		6		6		6	
1/4	81,742	1/4	66,390	1/4	51,580	1/4	36,792	1/4	21,431	1/4	6,066	1/4		1/4		1/4		1/4	
1/2	81,422	1/2	66,075	1/2	51,272	1/2	36,477	1/2	21,110	1/2	5,747	1/2		1/2		1/2		1/2	
3/4	81,102	3/4	65,767	3/4	50,964	3/4	36,157	3/4	20,790	3/4	5,428	3/4		3/4		3/4		3/4	
7	80,781	7	65,459	7	50,656	7	35,837	7	20,470	7	5,110	7		7		7		7	
1/4	80,461	1/4	65,150	1/4	50,349	1/4	35,517	1/4	20,150	1/4	4,791	1/4		1/4		1/4		1/4	
1/2	80,141	1/2	64,842	1/2	50,041	1/2	35,197	1/2	19,830	1/2	4,473	1/2		1/2		1/2		1/2	
3/4	79,821	3/4	64,533	3/4	49,733	3/4	34,876	3/4	19,509	3/4	4,156	3/4		3/4		3/4		3/4	
8	79,500	8	64,225	8	49,426	8	34,556	8	19,189	8	3,839	8		8		8		8	
1/4	79,180	1/4	63,916	1/4	49,118	1/4	34,236	1/4	18,869	1/4	3,522	1/4		1/4		1/4		1/4	
1/2	78,860	1/2	63,608	1/2	48,810	1/2	33,916	1/2	18,549	1/2	3,205	1/2		1/2		1/2		1/2	
3/4	78,540	3/4	63,299	3/4	48,503	3/4	33,596	3/4	18,229	3/4	2,906	3/4		3/4		3/4		3/4	
9	78,220	9	62,991	9	48,195	9	33,276	9	17,908	9	2,608	9		9		9		9	
1/4	77,899	1/4	62,683	1/4	47,888	1/4	32,955	1/4	17,588	1/4	2,310	1/4		1/4		1/4		1/4	
1/2	77,579	1/2	62,374	1/2	47,580	1/2	32,635	1/2	17,268	1/2	2,012	1/2		1/2		1/2		1/2	
3/4	77,259	3/4	62,066	3/4	47,273	3/4	32,315	3/4	16,948	3/4	1,772	3/4		3/4		3/4		3/4	
10	76,939	10	61,757	10	46,965	10	31,995	10	16,628	10	1,532	10		10		10		10	
1/4	76,619	1/4	61,449	1/4	46,658	1/4	31,675	1/4	16,307	1/4	1,292	1/4		1/4		1/4		1/4	
1/2	76,298	1/2	61,140	1/2	46,350	1/2	31,354	1/2	15,987	1/2	1,052	1/2		1/2		1/2		1/2	
3/4	75,978	3/4	60,832	3/4	46,043	3/4	31,034	3/4	15,667	3/4		3/4		3/4		3/4		3/4	
11	75,658	11	60,524	11	45,735	11	30,714	11	15,347	11		11		11		11		11	
1/4	75,338	1/4	60,215	1/4	45,428	1/4	30,394	1/4	15,027	1/4		1/4		1/4		1/4		1/4	
1/2	75,018	1/2	59,907	1/2	45,120	1/2	30,074	1/2	14,706	1/2		1/2		1/2		1/2		1/2	
3/4	74,697	3/4	59,598	3/4	44,813	3/4	29,754	3/4	14,386	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HFL 427"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	212,884	0	197,637	0	182,333	0	166,981	0	151,626	0	136,271	0	120,916	0	105,557
1/4		1/4		1/4	212,568	1/4	197,318	1/4	182,014	1/4	166,661	1/4	151,306	1/4	135,951	1/4	120,596	1/4	105,237
1/2		1/2		1/2	212,253	1/2	197,000	1/2	181,695	1/2	166,341	1/2	150,986	1/2	135,631	1/2	120,276	1/2	104,917
3/4		3/4		3/4	211,938	3/4	196,681	3/4	181,375	3/4	166,021	3/4	150,666	3/4	135,311	3/4	119,956	3/4	104,597
1		1		1	211,623	1	196,362	1	181,056	1	165,701	1	150,346	1	134,991	1	119,636	1	104,277
1/4		1/4		1/4	211,307	1/4	196,043	1/4	180,736	1/4	165,381	1/4	150,026	1/4	134,671	1/4	119,316	1/4	103,957
1/2		1/2		1/2	210,991	1/2	195,724	1/2	180,416	1/2	165,061	1/2	149,706	1/2	134,351	1/2	118,996	1/2	103,637
3/4		3/4		3/4	210,675	3/4	195,405	3/4	180,096	3/4	164,741	3/4	149,386	3/4	134,031	3/4	118,676	3/4	103,317
2		2		2	210,360	2	195,087	2	179,776	2	164,421	2	149,066	2	133,711	2	118,356	2	102,997
1/4		1/4		1/4	210,044	1/4	194,768	1/4	179,456	1/4	164,101	1/4	148,747	1/4	133,392	1/4	118,037	1/4	102,677
1/2		1/2		1/2	209,728	1/2	194,449	1/2	179,137	1/2	163,782	1/2	148,427	1/2	133,072	1/2	117,717	1/2	102,357
3/4		3/4		3/4	209,412	3/4	194,130	3/4	178,817	3/4	163,462	3/4	148,107	3/4	132,752	3/4	117,397	3/4	102,037
3		3		3	209,097	3	193,811	3	178,497	3	163,142	3	147,787	3	132,432	3	117,077	3	101,717
1/4		1/4		1/4	208,781	1/4	193,492	1/4	178,177	1/4	162,822	1/4	147,467	1/4	132,112	1/4	116,757	1/4	101,397
1/2		1/2		1/2	208,465	1/2	193,174	1/2	177,857	1/2	162,502	1/2	147,147	1/2	131,792	1/2	116,437	1/2	101,076
3/4		3/4		3/4	208,149	3/4	192,855	3/4	177,537	3/4	162,182	3/4	146,827	3/4	131,472	3/4	116,117	3/4	100,756
4		4		4	207,834	4	192,536	4	177,217	4	161,862	4	146,507	4	131,152	4	115,797	4	100,436
1/4		1/4		1/4	207,516	1/4	192,217	1/4	176,897	1/4	161,542	1/4	146,187	1/4	130,832	1/4	115,477	1/4	100,116
1/2		1/2		1/2	207,199	1/2	191,898	1/2	176,577	1/2	161,222	1/2	145,867	1/2	130,512	1/2	115,158	1/2	99,796
3/4		3/4		3/4	206,882	3/4	191,579	3/4	176,257	3/4	160,903	3/4	145,548	3/4	130,193	3/4	114,838	3/4	99,476
5		5		5	206,564	5	191,261	5	175,938	5	160,583	5	145,228	5	129,873	5	114,518	5	99,156
1/4		1/4		1/4	206,246	1/4	190,942	1/4	175,618	1/4	160,263	1/4	144,908	1/4	129,553	1/4	114,198	1/4	98,836
1/2		1/2		1/2	205,927	1/2	190,623	1/2	175,298	1/2	159,943	1/2	144,588	1/2	129,233	1/2	113,878	1/2	98,516
3/4		3/4		3/4	205,608	3/4	190,304	3/4	174,978	3/4	159,623	3/4	144,268	3/4	128,913	3/4	113,558	3/4	98,196
6		6		6	205,289	6	189,985	6	174,658	6	159,303	6	143,948	6	128,593	6	113,238	6	97,876
1/4		1/4		1/4	204,970	1/4	189,666	1/4	174,338	1/4	158,983	1/4	143,628	1/4	128,273	1/4	112,918	1/4	97,556
1/2		1/2		1/2	204,651	1/2	189,348	1/2	174,018	1/2	158,663	1/2	143,308	1/2	127,953	1/2	112,598	1/2	97,236
3/4		3/4		3/4	204,333	3/4	189,029	3/4	173,698	3/4	158,343	3/4	142,988	3/4	127,633	3/4	112,278	3/4	96,916
7		7	218,047	7	204,014	7	188,710	7	173,378	7	158,023	7	142,669	7	127,314	7	111,958	7	96,596
1/4		1/4	217,868	1/4	203,695	1/4	188,391	1/4	173,059	1/4	157,704	1/4	142,349	1/4	126,994	1/4	111,638	1/4	96,276
1/2		1/2	217,690	1/2	203,376	1/2	188,072	1/2	172,739	1/2	157,384	1/2	142,029	1/2	126,674	1/2	111,318	1/2	95,956
3/4		3/4	217,511	3/4	203,057	3/4	187,753	3/4	172,419	3/4	157,064	3/4	141,709	3/4	126,354	3/4	110,998	3/4	95,636
8		8	217,332	8	202,739	8	187,435	8	172,099	8	156,744	8	141,389	8	126,034	8	110,678	8	95,316
1/4		1/4	217,108	1/4	202,420	1/4	187,116	1/4	171,779	1/4	156,424	1/4	141,069	1/4	125,714	1/4	110,358	1/4	94,995
1/2		1/2	216,883	1/2	202,101	1/2	186,797	1/2	171,459	1/2	156,104	1/2	140,749	1/2	125,394	1/2	110,038	1/2	94,675
3/4		3/4	216,659	3/4	201,782	3/4	186,478	3/4	171,139	3/4	155,784	3/4	140,429	3/4	125,074	3/4	109,718	3/4	94,355
9		9	216,434	9	201,463	9	186,159	9	170,819	9	155,464	9	140,109	9	124,754	9	109,398	9	94,035
1/4		1/4	216,164	1/4	201,144	1/4	185,840	1/4	170,499	1/4	155,144	1/4	139,789	1/4	124,434	1/4	109,078	1/4	93,715
1/2		1/2	215,894	1/2	200,826	1/2	185,522	1/2	170,179	1/2	154,825	1/2	139,470	1/2	124,115	1/2	108,758	1/2	93,395
3/4		3/4	215,624	3/4	200,507	3/4	185,203	3/4	169,860	3/4	154,505	3/4	139,150	3/4	123,795	3/4	108,438	3/4	93,075
10		10	215,354	10	200,188	10	184,884	10	169,540	10	154,185	10	138,830	10	123,475	10	108,118	10	92,755
1/4		1/4	215,051	1/4	199,869	1/4	184,565	1/4	169,220	1/4	153,865	1/4	138,510	1/4	123,155	1/4	107,798	1/4	92,435
1/2		1/2	214,747	1/2	199,550	1/2	184,246	1/2	168,900	1/2	153,545	1/2	138,190	1/2	122,835	1/2	107,478	1/2	92,115
3/4		3/4	214,444	3/4	199,231	3/4	183,928	3/4	168,580	3/4	153,225	3/4	137,870	3/4	122,515	3/4	107,157	3/4	91,795
11		11	214,141	11	198,913	11	183,609	11	168,260	11	152,905	11	137,550	11	122,195	11	106,837	11	91,475
1/4		1/4	213,827	1/4	198,594	1/4	183,290	1/4	167,940	1/4	152,585	1/4	137,230	1/4	121,875	1/4	106,517	1/4	91,155
1/2		1/2	213,512	1/2	198,275	1/2	182,971	1/2	167,620	1/2	152,265	1/2	136,910	1/2	121,555	1/2	106,197	1/2	90,835
3/4		3/4	213,198	3/4	197,956	3/4	182,652	3/4	167,300	3/4	151,945	3/4	136,591	3/4	121,236	3/4	105,877	3/4	90,515

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 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	90,195	0	74,832	0	59,470	0	44,130	0	28,781	0	13,420	0		0		0		0	
1/4	89,875	1/4	74,512	1/4	59,150	1/4	43,810	1/4	28,461	1/4	13,100	1/4		1/4		1/4		1/4	
1/2	89,555	1/2	74,192	1/2	58,830	1/2	43,491	1/2	28,142	1/2	12,780	1/2		1/2		1/2		1/2	
3/4	89,235	3/4	73,872	3/4	58,509	3/4	43,172	3/4	27,822	3/4	12,460	3/4		3/4		3/4		3/4	
1	88,914	1	73,552	1	58,189	1	42,853	1	27,502	1	12,140	1		1		1		1	
1/4	88,594	1/4	73,232	1/4	57,869	1/4	42,534	1/4	27,182	1/4	11,820	1/4		1/4		1/4		1/4	
1/2	88,274	1/2	72,912	1/2	57,549	1/2	42,215	1/2	26,862	1/2	11,500	1/2		1/2		1/2		1/2	
3/4	87,954	3/4	72,592	3/4	57,229	3/4	41,896	3/4	26,542	3/4	11,179	3/4		3/4		3/4		3/4	
2	87,634	2	72,272	2	56,909	2	41,577	2	26,222	2	10,859	2		2		2		2	
1/4	87,314	1/4	71,952	1/4	56,589	1/4	41,257	1/4	25,902	1/4	10,539	1/4		1/4		1/4		1/4	
1/2	86,994	1/2	71,632	1/2	56,269	1/2	40,938	1/2	25,582	1/2	10,219	1/2		1/2		1/2		1/2	
3/4	86,674	3/4	71,312	3/4	55,949	3/4	40,619	3/4	25,262	3/4	9,899	3/4		3/4		3/4		3/4	
3	86,354	3	70,992	3	55,629	3	40,300	3	24,942	3	9,579	3		3		3		3	
1/4	86,034	1/4	70,671	1/4	55,309	1/4	39,980	1/4	24,622	1/4	9,259	1/4		1/4		1/4		1/4	
1/2	85,714	1/2	70,351	1/2	54,989	1/2	39,661	1/2	24,302	1/2	8,939	1/2		1/2		1/2		1/2	
3/4	85,394	3/4	70,031	3/4	54,669	3/4	39,341	3/4	23,982	3/4	8,619	3/4		3/4		3/4		3/4	
4	85,074	4	69,711	4	54,349	4	39,022	4	23,662	4	8,300	4		4		4		4	
1/4	84,754	1/4	69,391	1/4	54,029	1/4	38,702	1/4	23,341	1/4	7,980	1/4		1/4		1/4		1/4	
1/2	84,434	1/2	69,071	1/2	53,709	1/2	38,382	1/2	23,021	1/2	7,660	1/2		1/2		1/2		1/2	
3/4	84,114	3/4	68,751	3/4	53,389	3/4	38,062	3/4	22,701	3/4	7,341	3/4		3/4		3/4		3/4	
5	83,794	5	68,431	5	53,069	5	37,741	5	22,381	5	7,021	5		5		5		5	
1/4	83,474	1/4	68,111	1/4	52,749	1/4	37,421	1/4	22,061	1/4	6,702	1/4		1/4		1/4		1/4	
1/2	83,154	1/2	67,791	1/2	52,429	1/2	37,101	1/2	21,741	1/2	6,383	1/2		1/2		1/2		1/2	
3/4	82,833	3/4	67,471	3/4	52,109	3/4	36,781	3/4	21,421	3/4	6,063	3/4		3/4		3/4		3/4	
6	82,513	6	67,151	6	51,790	6	36,461	6	21,101	6	5,744	6		6		6		6	
1/4	82,193	1/4	66,831	1/4	51,470	1/4	36,141	1/4	20,781	1/4	5,426	1/4		1/4		1/4		1/4	
1/2	81,873	1/2	66,511	1/2	51,151	1/2	35,821	1/2	20,461	1/2	5,108	1/2		1/2		1/2		1/2	
3/4	81,553	3/4	66,191	3/4	50,832	3/4	35,501	3/4	20,141	3/4	4,789	3/4		3/4		3/4		3/4	
7	81,233	7	65,871	7	50,512	7	35,181	7	19,821	7	4,471	7		7		7		7	
1/4	80,913	1/4	65,551	1/4	50,193	1/4	34,861	1/4	19,501	1/4	4,154	1/4		1/4		1/4		1/4	
1/2	80,593	1/2	65,231	1/2	49,874	1/2	34,541	1/2	19,181	1/2	3,837	1/2		1/2		1/2		1/2	
3/4	80,273	3/4	64,911	3/4	49,555	3/4	34,221	3/4	18,861	3/4	3,520	3/4		3/4		3/4		3/4	
8	79,953	8	64,590	8	49,235	8	33,901	8	18,541	8	3,203	8		8		8		8	
1/4	79,633	1/4	64,270	1/4	48,916	1/4	33,581	1/4	18,221	1/4	2,905	1/4		1/4		1/4		1/4	
1/2	79,313	1/2	63,950	1/2	48,597	1/2	33,261	1/2	17,901	1/2	2,607	1/2		1/2		1/2		1/2	
3/4	78,993	3/4	63,630	3/4	48,278	3/4	32,941	3/4	17,581	3/4	2,309	3/4		3/4		3/4		3/4	
9	78,673	9	63,310	9	47,959	9	32,621	9	17,260	9	2,012	9		9		9		9	
1/4	78,353	1/4	62,990	1/4	47,640	1/4	32,301	1/4	16,940	1/4	1,772	1/4		1/4		1/4		1/4	
1/2	78,033	1/2	62,670	1/2	47,321	1/2	31,981	1/2	16,620	1/2	1,532	1/2		1/2		1/2		1/2	
3/4	77,713	3/4	62,350	3/4	47,002	3/4	31,660	3/4	16,300	3/4	1,292	3/4		3/4		3/4		3/4	
10	77,393	10	62,030	10	46,682	10	31,340	10	15,980	10	1,052	10		10		10		10	
1/4	77,073	1/4	61,710	1/4	46,363	1/4	31,020	1/4	15,660	1/4		1/4		1/4		1/4		1/4	
1/2	76,752	1/2	61,390	1/2	46,044	1/2	30,700	1/2	15,340	1/2		1/2		1/2		1/2		1/2	
3/4	76,432	3/4	61,070	3/4	45,725	3/4	30,381	3/4	15,020	3/4		3/4		3/4		3/4		3/4	
11	76,112	11	60,750	11	45,406	11	30,061	11	14,700	11		11		11		11		11	
1/4	75,792	1/4	60,430	1/4	45,087	1/4	29,741	1/4	14,380	1/4		1/4		1/4		1/4		1/4	
1/2	75,472	1/2	60,110	1/2	44,768	1/2	29,421	1/2	14,060	1/2		1/2		1/2		1/2		1/2	
3/4	75,152	3/4	59,790	3/4	44,449	3/4	29,101	3/4	13,740	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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

BARGE "HFL 427"

3 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	193,548	0	183,033	0	172,464	0	161,864	0	151,217	0	136,083	0	120,789	0	105,490
1/4		1/4		1/4	193,332	1/4	182,812	1/4	172,244	1/4	161,643	1/4	150,948	1/4	135,764	1/4	120,470	1/4	105,171
1/2		1/2		1/2	193,115	1/2	182,592	1/2	172,024	1/2	161,422	1/2	150,678	1/2	135,446	1/2	120,152	1/2	104,852
3/4		3/4		3/4	192,899	3/4	182,372	3/4	171,804	3/4	161,201	3/4	150,409	3/4	135,127	3/4	119,833	3/4	104,533
1		1		1	192,681	1	182,152	1	171,583	1	160,980	1	150,091	1	134,808	1	119,515	1	104,214
1/4		1/4		1/4	192,464	1/4	181,932	1/4	171,363	1/4	160,759	1/4	149,773	1/4	134,490	1/4	119,196	1/4	103,895
1/2		1/2		1/2	192,246	1/2	181,712	1/2	171,142	1/2	160,538	1/2	149,455	1/2	134,171	1/2	118,877	1/2	103,576
3/4		3/4		3/4	192,029	3/4	181,491	3/4	170,922	3/4	160,317	3/4	149,137	3/4	133,852	3/4	118,559	3/4	103,256
2		2		2	191,811	2	181,271	2	170,701	2	160,096	2	148,819	2	133,534	2	118,240	2	102,937
1/4		1/4		1/4	191,593	1/4	181,051	1/4	170,480	1/4	159,875	1/4	148,501	1/4	133,215	1/4	117,921	1/4	102,618
1/2		1/2		1/2	191,375	1/2	180,831	1/2	170,259	1/2	159,654	1/2	148,184	1/2	132,897	1/2	117,603	1/2	102,299
3/4		3/4		3/4	191,157	3/4	180,611	3/4	170,038	3/4	159,433	3/4	147,866	3/4	132,578	3/4	117,284	3/4	101,980
3		3		3	190,939	3	180,391	3	169,817	3	159,212	3	147,548	3	132,259	3	116,966	3	101,661
1/4		1/4		1/4	190,721	1/4	180,170	1/4	169,596	1/4	158,991	1/4	147,231	1/4	131,941	1/4	116,647	1/4	101,342
1/2		1/2		1/2	190,503	1/2	179,950	1/2	169,375	1/2	158,771	1/2	146,913	1/2	131,622	1/2	116,328	1/2	101,023
3/4		3/4		3/4	190,285	3/4	179,730	3/4	169,154	3/4	158,550	3/4	146,595	3/4	131,303	3/4	116,010	3/4	100,704
4		4		4	190,067	4	179,510	4	168,933	4	158,329	4	146,277	4	130,985	4	115,691	4	100,385
1/4		1/4		1/4	189,849	1/4	179,290	1/4	168,712	1/4	158,108	1/4	145,959	1/4	130,666	1/4	115,372	1/4	100,066
1/2		1/2		1/2	189,631	1/2	179,070	1/2	168,491	1/2	157,887	1/2	145,641	1/2	130,348	1/2	115,054	1/2	99,747
3/4		3/4		3/4	189,413	3/4	178,849	3/4	168,271	3/4	157,666	3/4	145,323	3/4	130,029	3/4	114,735	3/4	99,429
5		5		5	189,194	5	178,629	5	168,050	5	157,445	5	145,004	5	129,710	5	114,417	5	99,110
1/4		1/4		1/4	188,975	1/4	178,409	1/4	167,829	1/4	157,224	1/4	144,686	1/4	129,392	1/4	114,098	1/4	98,791
1/2		1/2		1/2	188,756	1/2	178,189	1/2	167,608	1/2	157,003	1/2	144,367	1/2	129,073	1/2	113,779	1/2	98,472
3/4		3/4		3/4	188,537	3/4	177,969	3/4	167,387	3/4	156,782	3/4	144,048	3/4	128,754	3/4	113,461	3/4	98,153
6		6		6	188,317	6	177,749	6	167,166	6	156,561	6	143,730	6	128,436	6	113,142	6	97,835
1/4		1/4		1/4	188,096	1/4	177,528	1/4	166,945	1/4	156,340	1/4	143,411	1/4	128,117	1/4	112,823	1/4	97,516
1/2		1/2		1/2	187,876	1/2	177,308	1/2	166,724	1/2	156,119	1/2	143,092	1/2	127,799	1/2	112,505	1/2	97,197
3/4		3/4		3/4	187,656	3/4	177,088	3/4	166,503	3/4	155,898	3/4	142,774	3/4	127,480	3/4	112,186	3/4	96,878
7		7		7	187,436	7	176,868	7	166,282	7	155,678	7	142,455	7	127,161	7	111,868	7	96,560
1/4		1/4		1/4	187,216	1/4	176,648	1/4	166,061	1/4	155,457	1/4	142,137	1/4	126,843	1/4	111,549	1/4	96,241
1/2		1/2		1/2	186,996	1/2	176,427	1/2	165,840	1/2	155,236	1/2	141,818	1/2	126,524	1/2	111,230	1/2	95,922
3/4		3/4	196,108	3/4	186,775	3/4	176,207	3/4	165,619	3/4	155,015	3/4	141,499	3/4	126,206	3/4	110,912	3/4	95,603
8		8	196,027	8	186,555	8	175,987	8	165,398	8	154,794	8	141,181	8	125,887	8	110,593	8	95,284
1/4		1/4	195,945	1/4	186,335	1/4	175,767	1/4	165,178	1/4	154,573	1/4	140,862	1/4	125,568	1/4	110,274	1/4	94,966
1/2		1/2	195,864	1/2	186,115	1/2	175,547	1/2	164,957	1/2	154,352	1/2	140,543	1/2	125,250	1/2	109,955	1/2	94,647
3/4		3/4	195,783	3/4	185,895	3/4	175,327	3/4	164,736	3/4	154,131	3/4	140,225	3/4	124,931	3/4	109,637	3/4	94,328
9		9	195,657	9	185,675	9	175,106	9	164,515	9	153,910	9	139,906	9	124,612	9	109,318	9	94,009
1/4		1/4	195,530	1/4	185,454	1/4	174,886	1/4	164,294	1/4	153,689	1/4	139,588	1/4	124,294	1/4	108,999	1/4	93,690
1/2		1/2	195,403	1/2	185,234	1/2	174,666	1/2	164,073	1/2	153,468	1/2	139,269	1/2	123,975	1/2	108,680	1/2	93,372
3/4		3/4	195,276	3/4	185,014	3/4	174,446	3/4	163,852	3/4	153,247	3/4	138,950	3/4	123,657	3/4	108,361	3/4	93,053
10		10	195,104	10	184,794	10	174,226	10	163,631	10	153,027	10	138,632	10	123,338	10	108,042	10	92,734
1/4		1/4	194,932	1/4	184,574	1/4	174,006	1/4	163,410	1/4	152,806	1/4	138,313	1/4	123,019	1/4	107,723	1/4	92,415
1/2		1/2	194,759	1/2	184,354	1/2	173,785	1/2	163,189	1/2	152,586	1/2	137,994	1/2	122,701	1/2	107,404	1/2	92,097
3/4		3/4	194,587	3/4	184,133	3/4	173,565	3/4	162,968	3/4	152,366	3/4	137,676	3/4	122,382	3/4	107,085	3/4	91,778
11		11	194,381	11	183,913	11	173,345	11	162,747	11	152,146	11	137,357	11	122,063	11	106,766	11	91,459
1/4		1/4	194,176	1/4	183,693	1/4	173,125	1/4	162,526	1/4	151,926	1/4	137,039	1/4	121,745	1/4	106,447	1/4	91,140
1/2		1/2	193,970	1/2	183,473	1/2	172,905	1/2	162,305	1/2	151,706	1/2	136,720	1/2	121,426	1/2	106,128	1/2	90,821
3/4		3/4	193,765	3/4	183,253	3/4	172,685	3/4	162,085	3/4	151,486	3/4	136,401	3/4	121,108	3/4	105,809	3/4	90,503

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 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "HFL 427"

3 PORT

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	90,184	0	74,897	0	59,668	0	44,805	0	29,673	0	14,355	0		0		0		0	
1/4	89,865	1/4	74,580	1/4	59,356	1/4	44,493	1/4	29,354	1/4	14,035	1/4		1/4		1/4		1/4	
1/2	89,546	1/2	74,263	1/2	59,043	1/2	44,181	1/2	29,035	1/2	13,716	1/2		1/2		1/2		1/2	
3/4	89,227	3/4	73,945	3/4	58,731	3/4	43,869	3/4	28,716	3/4	13,397	3/4		3/4		3/4		3/4	
1	88,908	1	73,628	1	58,420	1	43,558	1	28,397	1	13,078	1		1		1		1	
1/4	88,589	1/4	73,311	1/4	58,109	1/4	43,246	1/4	28,078	1/4	12,759	1/4		1/4		1/4		1/4	
1/2	88,270	1/2	72,994	1/2	57,798	1/2	42,934	1/2	27,759	1/2	12,440	1/2		1/2		1/2		1/2	
3/4	87,950	3/4	72,677	3/4	57,487	3/4	42,622	3/4	27,440	3/4	12,120	3/4		3/4		3/4		3/4	
2	87,631	2	72,360	2	57,178	2	42,310	2	27,121	2	11,801	2		2		2		2	
1/4	87,312	1/4	72,043	1/4	56,869	1/4	41,998	1/4	26,802	1/4	11,482	1/4		1/4		1/4		1/4	
1/2	86,993	1/2	71,725	1/2	56,559	1/2	41,686	1/2	26,483	1/2	11,162	1/2		1/2		1/2		1/2	
3/4	86,674	3/4	71,408	3/4	56,250	3/4	41,375	3/4	26,164	3/4	10,843	3/4		3/4		3/4		3/4	
3	86,355	3	71,091	3	55,941	3	41,063	3	25,844	3	10,523	3		3		3		3	
1/4	86,036	1/4	70,774	1/4	55,632	1/4	40,751	1/4	25,525	1/4	10,204	1/4		1/4		1/4		1/4	
1/2	85,717	1/2	70,457	1/2	55,322	1/2	40,439	1/2	25,206	1/2	9,884	1/2		1/2		1/2		1/2	
3/4	85,398	3/4	70,140	3/4	55,013	3/4	40,127	3/4	24,887	3/4	9,564	3/4		3/4		3/4		3/4	
4	85,079	4	69,823	4	54,704	4	39,815	4	24,568	4	9,245	4		4		4		4	
1/4	84,759	1/4	69,506	1/4	54,394	1/4	39,504	1/4	24,249	1/4	8,925	1/4		1/4		1/4		1/4	
1/2	84,440	1/2	69,188	1/2	54,085	1/2	39,192	1/2	23,929	1/2	8,606	1/2		1/2		1/2		1/2	
3/4	84,121	3/4	68,871	3/4	53,776	3/4	38,880	3/4	23,610	3/4	8,286	3/4		3/4		3/4		3/4	
5	83,802	5	68,554	5	53,467	5	38,568	5	23,291	5	7,967	5		5		5		5	
1/4	83,483	1/4	68,237	1/4	53,157	1/4	38,256	1/4	22,972	1/4	7,648	1/4		1/4		1/4		1/4	
1/2	83,164	1/2	67,920	1/2	52,848	1/2	37,944	1/2	22,653	1/2	7,330	1/2		1/2		1/2		1/2	
3/4	82,845	3/4	67,603	3/4	52,539	3/4	37,633	3/4	22,334	3/4	7,011	3/4		3/4		3/4		3/4	
6	82,526	6	67,286	6	52,229	6	37,318	6	22,014	6	6,692	6		6		6		6	
1/4	82,207	1/4	66,968	1/4	51,920	1/4	37,003	1/4	21,695	1/4	6,374	1/4		1/4		1/4		1/4	
1/2	81,888	1/2	66,651	1/2	51,611	1/2	36,688	1/2	21,376	1/2	6,055	1/2		1/2		1/2		1/2	
3/4	81,568	3/4	66,334	3/4	51,301	3/4	36,373	3/4	21,057	3/4	5,737	3/4		3/4		3/4		3/4	
7	81,249	7	66,017	7	50,992	7	36,054	7	20,738	7	5,419	7		7		7		7	
1/4	80,930	1/4	65,700	1/4	50,683	1/4	35,735	1/4	20,419	1/4	5,101	1/4		1/4		1/4		1/4	
1/2	80,611	1/2	65,383	1/2	50,374	1/2	35,417	1/2	20,099	1/2	4,783	1/2		1/2		1/2		1/2	
3/4	80,292	3/4	65,066	3/4	50,064	3/4	35,098	3/4	19,780	3/4	4,465	3/4		3/4		3/4		3/4	
8	79,974	8	64,748	8	49,755	8	34,779	8	19,461	8	4,149	8		8		8		8	
1/4	79,656	1/4	64,430	1/4	49,446	1/4	34,460	1/4	19,142	1/4	3,832	1/4		1/4		1/4		1/4	
1/2	79,338	1/2	64,112	1/2	49,136	1/2	34,141	1/2	18,823	1/2	3,516	1/2		1/2		1/2		1/2	
3/4	79,020	3/4	63,794	3/4	48,827	3/4	33,821	3/4	18,504	3/4	3,199	3/4		3/4		3/4		3/4	
9	78,702	9	63,475	9	48,518	9	33,502	9	18,185	9	2,902	9		9		9		9	
1/4	78,385	1/4	63,156	1/4	48,209	1/4	33,183	1/4	17,865	1/4	2,604	1/4		1/4		1/4		1/4	
1/2	78,068	1/2	62,837	1/2	47,900	1/2	32,864	1/2	17,546	1/2	2,306	1/2		1/2		1/2		1/2	
3/4	77,751	3/4	62,519	3/4	47,591	3/4	32,545	3/4	17,227	3/4	2,009	3/4		3/4		3/4		3/4	
10	77,434	10	62,200	10	47,283	10	32,226	10	16,908	10	1,769	10		10		10		10	
1/4	77,117	1/4	61,881	1/4	46,974	1/4	31,907	1/4	16,589	1/4	1,530	1/4		1/4		1/4		1/4	
1/2	76,800	1/2	61,562	1/2	46,666	1/2	31,587	1/2	16,270	1/2	1,290	1/2		1/2		1/2		1/2	
3/4	76,482	3/4	61,243	3/4	46,357	3/4	31,268	3/4	15,950	3/4	1,050	3/4		3/4		3/4		3/4	
11	76,165	11	60,928	11	46,047	11	30,949	11	15,631	11		11		11		11		11	
1/4	75,848	1/4	60,612	1/4	45,737	1/4	30,630	1/4	15,312	1/4		1/4		1/4		1/4		1/4	
1/2	75,531	1/2	60,297	1/2	45,427	1/2	30,311	1/2	14,993	1/2		1/2		1/2		1/2		1/2	
3/4	75,214	3/4	59,981	3/4	45,117	3/4	29,992	3/4	14,674	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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

BARGE "HFL 427"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	194,008	0	183,474	0	172,898	0	162,287	0	151,487	0	136,168	0	120,837	0	105,499
1/4		1/4		1/4	193,791	1/4	183,253	1/4	172,677	1/4	162,066	1/4	151,168	1/4	135,849	1/4	120,517	1/4	105,179
1/2		1/2		1/2	193,573	1/2	183,033	1/2	172,456	1/2	161,845	1/2	150,850	1/2	135,529	1/2	120,198	1/2	104,859
3/4		3/4		3/4	193,355	3/4	182,813	3/4	172,236	3/4	161,624	3/4	150,531	3/4	135,210	3/4	119,879	3/4	104,539
1		1		1	193,138	1	182,592	1	172,015	1	161,403	1	150,212	1	134,891	1	119,559	1	104,220
1/4		1/4		1/4	192,920	1/4	182,372	1/4	171,794	1/4	161,182	1/4	149,894	1/4	134,571	1/4	119,240	1/4	103,900
1/2		1/2		1/2	192,702	1/2	182,152	1/2	171,573	1/2	160,960	1/2	149,576	1/2	134,252	1/2	118,920	1/2	103,580
3/4		3/4		3/4	192,483	3/4	181,931	3/4	171,352	3/4	160,739	3/4	149,257	3/4	133,932	3/4	118,601	3/4	103,260
2		2		2	192,265	2	181,711	2	171,131	2	160,518	2	148,939	2	133,613	2	118,282	2	102,940
1/4		1/4		1/4	192,047	1/4	181,491	1/4	170,910	1/4	160,297	1/4	148,620	1/4	133,294	1/4	117,962	1/4	102,620
1/2		1/2		1/2	191,829	1/2	181,270	1/2	170,688	1/2	160,076	1/2	148,302	1/2	132,974	1/2	117,643	1/2	102,301
3/4		3/4		3/4	191,611	3/4	181,050	3/4	170,467	3/4	159,855	3/4	147,983	3/4	132,655	3/4	117,323	3/4	101,981
3		3		3	191,393	3	180,830	3	170,246	3	159,634	3	147,665	3	132,335	3	117,004	3	101,661
1/4		1/4		1/4	191,174	1/4	180,609	1/4	170,025	1/4	159,413	1/4	147,346	1/4	132,016	1/4	116,685	1/4	101,341
1/2		1/2		1/2	190,956	1/2	180,389	1/2	169,804	1/2	159,192	1/2	147,027	1/2	131,697	1/2	116,365	1/2	101,021
3/4		3/4		3/4	190,738	3/4	180,169	3/4	169,583	3/4	158,971	3/4	146,708	3/4	131,377	3/4	116,046	3/4	100,702
4		4		4	190,520	4	179,948	4	169,362	4	158,750	4	146,389	4	131,058	4	115,726	4	100,382
1/4		1/4		1/4	190,301	1/4	179,728	1/4	169,141	1/4	158,528	1/4	146,070	1/4	130,738	1/4	115,407	1/4	100,062
1/2		1/2		1/2	190,082	1/2	179,508	1/2	168,920	1/2	158,307	1/2	145,750	1/2	130,419	1/2	115,088	1/2	99,742
3/4		3/4		3/4	189,862	3/4	179,287	3/4	168,699	3/4	158,086	3/4	145,431	3/4	130,100	3/4	114,768	3/4	99,422
5		5		5	189,643	5	179,067	5	168,478	5	157,865	5	145,112	5	129,780	5	114,449	5	99,102
1/4		1/4		1/4	189,423	1/4	178,847	1/4	168,256	1/4	157,644	1/4	144,792	1/4	129,461	1/4	114,129	1/4	98,783
1/2		1/2		1/2	189,202	1/2	178,626	1/2	168,035	1/2	157,423	1/2	144,473	1/2	129,141	1/2	113,810	1/2	98,463
3/4		3/4		3/4	188,982	3/4	178,406	3/4	167,814	3/4	157,202	3/4	144,153	3/4	128,822	3/4	113,491	3/4	98,143
6		6		6	188,762	6	178,186	6	167,593	6	156,981	6	143,834	6	128,503	6	113,171	6	97,823
1/4		1/4		1/4	188,541	1/4	177,965	1/4	167,372	1/4	156,760	1/4	143,514	1/4	128,183	1/4	112,852	1/4	97,503
1/2		1/2		1/2	188,321	1/2	177,745	1/2	167,151	1/2	156,539	1/2	143,195	1/2	127,864	1/2	112,532	1/2	97,184
3/4		3/4		3/4	188,101	3/4	177,525	3/4	166,930	3/4	156,318	3/4	142,876	3/4	127,544	3/4	112,213	3/4	96,864
7		7	197,220	7	187,880	7	177,305	7	166,709	7	156,096	7	142,556	7	127,225	7	111,893	7	96,544
1/4		1/4	197,139	1/4	187,660	1/4	177,084	1/4	166,488	1/4	155,875	1/4	142,237	1/4	126,906	1/4	111,574	1/4	96,224
1/2		1/2	197,057	1/2	187,440	1/2	176,864	1/2	166,267	1/2	155,654	1/2	141,917	1/2	126,586	1/2	111,254	1/2	95,904
3/4		3/4	196,976	3/4	187,219	3/4	176,644	3/4	166,046	3/4	155,433	3/4	141,598	3/4	126,267	3/4	110,935	3/4	95,584
8		8	196,895	8	186,999	8	176,423	8	165,824	8	155,212	8	141,279	8	125,947	8	110,615	8	95,265
1/4		1/4	196,768	1/4	186,779	1/4	176,203	1/4	165,603	1/4	154,991	1/4	140,959	1/4	125,628	1/4	110,296	1/4	94,945
1/2		1/2	196,641	1/2	186,558	1/2	175,983	1/2	165,382	1/2	154,770	1/2	140,640	1/2	125,309	1/2	109,976	1/2	94,625
3/4		3/4	196,514	3/4	186,338	3/4	175,762	3/4	165,161	3/4	154,549	3/4	140,320	3/4	124,989	3/4	109,656	3/4	94,305
9		9	196,388	9	186,118	9	175,542	9	164,940	9	154,328	9	140,001	9	124,670	9	109,337	9	93,985
1/4		1/4	196,215	1/4	185,897	1/4	175,322	1/4	164,719	1/4	154,107	1/4	139,682	1/4	124,350	1/4	109,017	1/4	93,666
1/2		1/2	196,043	1/2	185,677	1/2	175,101	1/2	164,498	1/2	153,886	1/2	139,362	1/2	124,031	1/2	108,697	1/2	93,346
3/4		3/4	195,870	3/4	185,457	3/4	174,881	3/4	164,277	3/4	153,666	3/4	139,043	3/4	123,712	3/4	108,377	3/4	93,026
10		10	195,698	10	185,236	10	174,661	10	164,056	10	153,445	10	138,723	10	123,392	10	108,057	10	92,706
1/4		1/4	195,492	1/4	185,016	1/4	174,440	1/4	163,835	1/4	153,225	1/4	138,404	1/4	123,073	1/4	107,738	1/4	92,386
1/2		1/2	195,286	1/2	184,796	1/2	174,220	1/2	163,614	1/2	153,005	1/2	138,085	1/2	122,753	1/2	107,418	1/2	92,066
3/4		3/4	195,081	3/4	184,575	3/4	174,000	3/4	163,392	3/4	152,785	3/4	137,765	3/4	122,434	3/4	107,098	3/4	91,747
11		11	194,875	11	184,355	11	173,779	11	163,171	11	152,565	11	137,446	11	122,115	11	106,778	11	91,427
1/4		1/4	194,658	1/4	184,135	1/4	173,559	1/4	162,950	1/4	152,295	1/4	137,126	1/4	121,795	1/4	106,458	1/4	91,107
1/2		1/2	194,442	1/2	183,914	1/2	173,339	1/2	162,729	1/2	152,026	1/2	136,807	1/2	121,476	1/2	106,138	1/2	90,787
3/4		3/4	194,225	3/4	183,694	3/4	173,118	3/4	162,508	3/4	151,756	3/4	136,488	3/4	121,156	3/4	105,819	3/4	90,467

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 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 427"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	90,148	0	74,796	0	59,445	0	44,099	0	28,760	0	13,410	0		0		0		0	
1/4	89,828	1/4	74,476	1/4	59,125	1/4	43,779	1/4	28,441	1/4	13,090	1/4		1/4		1/4		1/4	
1/2	89,508	1/2	74,157	1/2	58,805	1/2	43,460	1/2	28,121	1/2	12,770	1/2		1/2		1/2		1/2	
3/4	89,188	3/4	73,837	3/4	58,485	3/4	43,141	3/4	27,801	3/4	12,450	3/4		3/4		3/4		3/4	
1	88,868	1	73,517	1	58,166	1	42,821	1	27,481	1	12,130	1		1		1		1	
1/4	88,548	1/4	73,197	1/4	57,846	1/4	42,502	1/4	27,161	1/4	11,811	1/4		1/4		1/4		1/4	
1/2	88,229	1/2	72,877	1/2	57,526	1/2	42,183	1/2	26,842	1/2	11,491	1/2		1/2		1/2		1/2	
3/4	87,909	3/4	72,558	3/4	57,206	3/4	41,863	3/4	26,522	3/4	11,171	3/4		3/4		3/4		3/4	
2	87,589	2	72,238	2	56,886	2	41,544	2	26,202	2	10,851	2		2		2		2	
1/4	87,269	1/4	71,918	1/4	56,567	1/4	41,225	1/4	25,882	1/4	10,531	1/4		1/4		1/4		1/4	
1/2	86,949	1/2	71,598	1/2	56,247	1/2	40,905	1/2	25,562	1/2	10,212	1/2		1/2		1/2		1/2	
3/4	86,630	3/4	71,278	3/4	55,927	3/4	40,586	3/4	25,243	3/4	9,892	3/4		3/4		3/4		3/4	
3	86,310	3	70,958	3	55,607	3	40,267	3	24,923	3	9,572	3		3		3		3	
1/4	85,990	1/4	70,639	1/4	55,287	1/4	39,948	1/4	24,603	1/4	9,252	1/4		1/4		1/4		1/4	
1/2	85,670	1/2	70,319	1/2	54,967	1/2	39,628	1/2	24,283	1/2	8,933	1/2		1/2		1/2		1/2	
3/4	85,350	3/4	69,999	3/4	54,648	3/4	39,309	3/4	23,963	3/4	8,613	3/4		3/4		3/4		3/4	
4	85,030	4	69,679	4	54,328	4	38,990	4	23,644	4	8,293	4		4		4		4	
1/4	84,711	1/4	69,359	1/4	54,008	1/4	38,670	1/4	23,324	1/4	7,974	1/4		1/4		1/4		1/4	
1/2	84,391	1/2	69,039	1/2	53,688	1/2	38,351	1/2	23,004	1/2	7,654	1/2		1/2		1/2		1/2	
3/4	84,071	3/4	68,720	3/4	53,368	3/4	38,032	3/4	22,684	3/4	7,335	3/4		3/4		3/4		3/4	
5	83,751	5	68,400	5	53,049	5	37,712	5	22,364	5	7,016	5		5		5		5	
1/4	83,431	1/4	68,080	1/4	52,729	1/4	37,393	1/4	22,044	1/4	6,697	1/4		1/4		1/4		1/4	
1/2	83,112	1/2	67,760	1/2	52,409	1/2	37,074	1/2	21,725	1/2	6,378	1/2		1/2		1/2		1/2	
3/4	82,792	3/4	67,440	3/4	52,089	3/4	36,754	3/4	21,405	3/4	6,059	3/4		3/4		3/4		3/4	
6	82,472	6	67,121	6	51,769	6	36,435	6	21,085	6	5,740	6		6		6		6	
1/4	82,152	1/4	66,801	1/4	51,449	1/4	36,115	1/4	20,765	1/4	5,422	1/4		1/4		1/4		1/4	
1/2	81,832	1/2	66,481	1/2	51,130	1/2	35,796	1/2	20,445	1/2	5,104	1/2		1/2		1/2		1/2	
3/4	81,512	3/4	66,161	3/4	50,810	3/4	35,476	3/4	20,126	3/4	4,786	3/4		3/4		3/4		3/4	
7	81,193	7	65,841	7	50,490	7	35,157	7	19,806	7	4,468	7		7		7		7	
1/4	80,873	1/4	65,521	1/4	50,170	1/4	34,837	1/4	19,486	1/4	4,151	1/4		1/4		1/4		1/4	
1/2	80,553	1/2	65,202	1/2	49,850	1/2	34,517	1/2	19,166	1/2	3,834	1/2		1/2		1/2		1/2	
3/4	80,233	3/4	64,882	3/4	49,531	3/4	34,197	3/4	18,846	3/4	3,517	3/4		3/4		3/4		3/4	
8	79,913	8	64,562	8	49,211	8	33,877	8	18,527	8	3,201	8		8		8		8	
1/4	79,594	1/4	64,242	1/4	48,891	1/4	33,558	1/4	18,207	1/4	2,903	1/4		1/4		1/4		1/4	
1/2	79,274	1/2	63,922	1/2	48,571	1/2	33,238	1/2	17,887	1/2	2,605	1/2		1/2		1/2		1/2	
3/4	78,954	3/4	63,603	3/4	48,252	3/4	32,918	3/4	17,567	3/4	2,308	3/4		3/4		3/4		3/4	
9	78,634	9	63,283	9	47,932	9	32,598	9	17,247	9	2,010	9		9		9		9	
1/4	78,314	1/4	62,963	1/4	47,612	1/4	32,278	1/4	16,928	1/4	1,770	1/4		1/4		1/4		1/4	
1/2	77,994	1/2	62,643	1/2	47,293	1/2	31,959	1/2	16,608	1/2	1,530	1/2		1/2		1/2		1/2	
3/4	77,675	3/4	62,323	3/4	46,973	3/4	31,639	3/4	16,288	3/4	1,291	3/4		3/4		3/4		3/4	
10	77,355	10	62,003	10	46,654	10	31,319	10	15,968	10	1,051	10		10		10		10	
1/4	77,035	1/4	61,684	1/4	46,334	1/4	30,999	1/4	15,648	1/4		1/4		1/4		1/4		1/4	
1/2	76,715	1/2	61,364	1/2	46,015	1/2	30,679	1/2	15,328	1/2		1/2		1/2		1/2		1/2	
3/4	76,395	3/4	61,044	3/4	45,695	3/4	30,360	3/4	15,009	3/4		3/4		3/4		3/4		3/4	
11	76,076	11	60,724	11	45,376	11	30,040	11	14,689	11		11		11		11		11	
1/4	75,756	1/4	60,404	1/4	45,057	1/4	29,720	1/4	14,369	1/4		1/4		1/4		1/4		1/4	
1/2	75,436	1/2	60,085	1/2	44,737	1/2	29,400	1/2	14,049	1/2		1/2		1/2		1/2		1/2	
3/4	75,116	3/4	59,765	3/4	44,418	3/4	29,080	3/4	13,729	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 427"

FUEL OIL

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 3'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	442	0	273	0	96	0		0		0		0		0		0	
1/4		1/4	440	1/4	269	1/4	92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	436	1/2	265	1/2	89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	433	3/4	261	3/4	86	3/4		3/4		3/4		3/4		3/4		3/4	
1		1	430	1	257	1	83	1		1		1		1		1		1	
1/4		1/4	427	1/4	253	1/4	80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	424	1/2	250	1/2	77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	421	3/4	246	3/4	73	3/4		3/4		3/4		3/4		3/4		3/4	
2		2	418	2	242	2	70	2		2		2		2		2		2	
1/4		1/4	414	1/4	238	1/4	67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	411	1/2	234	1/2	64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	408	3/4	230	3/4	61	3/4		3/4		3/4		3/4		3/4		3/4	
3		3	404	3	227	3	58	3		3		3		3		3		3	
1/4		1/4	401	1/4	223	1/4	56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	398	1/2	219	1/2	53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	394	3/4	215	3/4	50	3/4		3/4		3/4		3/4		3/4		3/4	
4		4	391	4	211	4	47	4		4		4		4		4		4	
1/4	507	1/4	387	1/4	207	1/4	44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	506	1/2	384	1/2	204	1/2	42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	505	3/4	380	3/4	200	3/4	39	3/4		3/4		3/4		3/4		3/4		3/4	
5	504	5	377	5	196	5	37	5		5		5		5		5		5	
1/4	504	1/4	373	1/4	192	1/4	34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	502	1/2	370	1/2	189	1/2	32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	501	3/4	366	3/4	185	3/4	29	3/4		3/4		3/4		3/4		3/4		3/4	
6	499	6	363	6	181	6	27	6		6		6		6		6		6	
1/4	498	1/4	359	1/4	177	1/4	25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	496	1/2	355	1/2	174	1/2	22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	494	3/4	352	3/4	170	3/4	20	3/4		3/4		3/4		3/4		3/4		3/4	
7	493	7	348	7	166	7	18	7		7		7		7		7		7	
1/4	491	1/4	344	1/4	162	1/4	16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	489	1/2	341	1/2	159	1/2	14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	486	3/4	337	3/4	155	3/4	12	3/4		3/4		3/4		3/4		3/4		3/4	
8	484	8	333	8	152	8	11	8		8		8		8		8		8	
1/4	482	1/4	329	1/4	148	1/4	9	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	480	1/2	326	1/2	144	1/2	7	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	477	3/4	322	3/4	141	3/4	6	3/4		3/4		3/4		3/4		3/4		3/4	
9	475	9	318	9	137	9	5	9		9		9		9		9		9	
1/4	473	1/4	314	1/4	134	1/4	3	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	470	1/2	311	1/2	130	1/2	2	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	468	3/4	307	3/4	127	3/4	2	3/4		3/4		3/4		3/4		3/4		3/4	
10	465	10	303	10	123	10	1	10		10		10		10		10		10	
1/4	462	1/4	299	1/4	119	1/4	0	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	460	1/2	296	1/2	116	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	457	3/4	292	3/4	113	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	454	11	288	11	109	11		11		11		11		11		11		11	
1/4	451	1/4	284	1/4	106	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	448	1/2	280	1/2	102	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	445	3/4	276	3/4	99	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 TO 2" DIAMETER PIPE.

STRAPPED: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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

BARGE "HFL 427"

PORT SLOP

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,872	0	3,679	0	2,485	0	1,291	0	98	0		0		0	
1/4		1/4		1/4	4,848	1/4	3,654	1/4	2,460	1/4	1,266	1/4	74	1/4		1/4		1/4	
1/2		1/2		1/2	4,823	1/2	3,629	1/2	2,435	1/2	1,241	1/2	49	1/2		1/2		1/2	
3/4		3/4		3/4	4,798	3/4	3,604	3/4	2,410	3/4	1,216	3/4	25	3/4		3/4		3/4	
1		1		1	4,773	1	3,579	1	2,385	1	1,191	1	0	1		1		1	
1/4		1/4		1/4	4,748	1/4	3,554	1/4	2,360	1/4	1,166	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,723	1/2	3,529	1/2	2,335	1/2	1,141	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,698	3/4	3,504	3/4	2,311	3/4	1,117	3/4		3/4		3/4		3/4	
2		2		2	4,673	2	3,480	2	2,286	2	1,092	2		2		2		2	
1/4		1/4		1/4	4,649	1/4	3,455	1/4	2,261	1/4	1,067	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,624	1/2	3,430	1/2	2,236	1/2	1,042	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,599	3/4	3,405	3/4	2,211	3/4	1,017	3/4		3/4		3/4		3/4	
3		3		3	4,574	3	3,380	3	2,186	3	992	3		3		3		3	
1/4		1/4		1/4	4,549	1/4	3,355	1/4	2,161	1/4	967	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,524	1/2	3,330	1/2	2,136	1/2	942	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,499	3/4	3,305	3/4	2,112	3/4	918	3/4		3/4		3/4		3/4	
4		4		4	4,474	4	3,281	4	2,087	4	893	4		4		4		4	
1/4		1/4		1/4	4,450	1/4	3,256	1/4	2,062	1/4	868	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,425	1/2	3,231	1/2	2,037	1/2	843	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,400	3/4	3,206	3/4	2,012	3/4	818	3/4		3/4		3/4		3/4	
5		5		5	4,375	5	3,181	5	1,987	5	793	5		5		5		5	
1/4		1/4		1/4	4,350	1/4	3,156	1/4	1,962	1/4	768	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,325	1/2	3,131	1/2	1,937	1/2	744	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,300	3/4	3,106	3/4	1,913	3/4	719	3/4		3/4		3/4		3/4	
6		6	5,469	6	4,275	6	3,082	6	1,888	6	694	6		6		6		6	
1/4		1/4	5,445	1/4	4,251	1/4	3,057	1/4	1,863	1/4	669	1/4		1/4		1/4		1/4	
1/2		1/2	5,420	1/2	4,226	1/2	3,032	1/2	1,838	1/2	644	1/2		1/2		1/2		1/2	
3/4		3/4	5,395	3/4	4,201	3/4	3,007	3/4	1,813	3/4	619	3/4		3/4		3/4		3/4	
7		7	5,370	7	4,176	7	2,982	7	1,788	7	594	7		7		7		7	
1/4		1/4	5,345	1/4	4,151	1/4	2,957	1/4	1,763	1/4	569	1/4		1/4		1/4		1/4	
1/2		1/2	5,320	1/2	4,126	1/2	2,932	1/2	1,738	1/2	545	1/2		1/2		1/2		1/2	
3/4		3/4	5,295	3/4	4,101	3/4	2,907	3/4	1,714	3/4	520	3/4		3/4		3/4		3/4	
8		8	5,270	8	4,076	8	2,883	8	1,689	8	495	8		8		8		8	
1/4		1/4	5,246	1/4	4,052	1/4	2,858	1/4	1,664	1/4	470	1/4		1/4		1/4		1/4	
1/2		1/2	5,221	1/2	4,027	1/2	2,833	1/2	1,639	1/2	445	1/2		1/2		1/2		1/2	
3/4		3/4	5,196	3/4	4,002	3/4	2,808	3/4	1,614	3/4	420	3/4		3/4		3/4		3/4	
9		9	5,171	9	3,977	9	2,783	9	1,589	9	395	9		9		9		9	
1/4		1/4	5,146	1/4	3,952	1/4	2,758	1/4	1,564	1/4	371	1/4		1/4		1/4		1/4	
1/2		1/2	5,121	1/2	3,927	1/2	2,733	1/2	1,539	1/2	346	1/2		1/2		1/2		1/2	
3/4		3/4	5,096	3/4	3,902	3/4	2,708	3/4	1,515	3/4	321	3/4		3/4		3/4		3/4	
10		10	5,071	10	3,878	10	2,684	10	1,490	10	296	10		10		10		10	
1/4		1/4	5,047	1/4	3,853	1/4	2,659	1/4	1,465	1/4	271	1/4		1/4		1/4		1/4	
1/2		1/2	5,022	1/2	3,828	1/2	2,634	1/2	1,440	1/2	247	1/2		1/2		1/2		1/2	
3/4		3/4	4,997	3/4	3,803	3/4	2,609	3/4	1,415	3/4	222	3/4		3/4		3/4		3/4	
11		11	4,972	11	3,778	11	2,584	11	1,390	11	197	11		11		11		11	
1/4		1/4	4,947	1/4	3,753	1/4	2,559	1/4	1,365	1/4	172	1/4		1/4		1/4		1/4	
1/2		1/2	4,922	1/2	3,728	1/2	2,534	1/2	1,340	1/2	148	1/2		1/2		1/2		1/2	
3/4		3/4	4,897	3/4	3,703	3/4	2,509	3/4	1,316	3/4	123	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: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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

BARGE "HFL 427"

STBD SLOP

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,710	0	3,556	0	2,402	0	1,248	0	95	0		0		0	
1/4		1/4		1/4	4,686	1/4	3,532	1/4	2,378	1/4	1,224	1/4	71	1/4		1/4		1/4	
1/2		1/2		1/2	4,662	1/2	3,508	1/2	2,354	1/2	1,200	1/2	47	1/2		1/2		1/2	
3/4		3/4		3/4	4,638	3/4	3,484	3/4	2,330	3/4	1,176	3/4	24	3/4		3/4		3/4	
1		1		1	4,614	1	3,460	1	2,306	1	1,151	1	0	1		1		1	
1/4		1/4		1/4	4,590	1/4	3,436	1/4	2,282	1/4	1,127	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,566	1/2	3,412	1/2	2,258	1/2	1,103	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,542	3/4	3,388	3/4	2,234	3/4	1,079	3/4		3/4		3/4		3/4	
2		2		2	4,518	2	3,364	2	2,209	2	1,055	2		2		2		2	
1/4		1/4		1/4	4,494	1/4	3,340	1/4	2,185	1/4	1,031	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,470	1/2	3,316	1/2	2,161	1/2	1,007	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,446	3/4	3,292	3/4	2,137	3/4	983	3/4		3/4		3/4		3/4	
3		3		3	4,422	3	3,267	3	2,113	3	959	3		3		3		3	
1/4		1/4		1/4	4,398	1/4	3,243	1/4	2,089	1/4	935	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,374	1/2	3,219	1/2	2,065	1/2	911	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,350	3/4	3,195	3/4	2,041	3/4	887	3/4		3/4		3/4		3/4	
4		4		4	4,325	4	3,171	4	2,017	4	863	4		4		4		4	
1/4		1/4		1/4	4,301	1/4	3,147	1/4	1,993	1/4	839	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,277	1/2	3,123	1/2	1,969	1/2	815	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,253	3/4	3,099	3/4	1,945	3/4	791	3/4		3/4		3/4		3/4	
5		5		5	4,229	5	3,075	5	1,921	5	767	5		5		5		5	
1/4		1/4		1/4	4,205	1/4	3,051	1/4	1,897	1/4	743	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,181	1/2	3,027	1/2	1,873	1/2	719	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,157	3/4	3,003	3/4	1,849	3/4	695	3/4		3/4		3/4		3/4	
6		6	5,287	6	4,133	6	2,979	6	1,825	6	671	6		6		6		6	
1/4		1/4	5,263	1/4	4,109	1/4	2,955	1/4	1,801	1/4	647	1/4		1/4		1/4		1/4	
1/2		1/2	5,239	1/2	4,085	1/2	2,931	1/2	1,777	1/2	622	1/2		1/2		1/2		1/2	
3/4		3/4	5,215	3/4	4,061	3/4	2,907	3/4	1,753	3/4	598	3/4		3/4		3/4		3/4	
7		7	5,191	7	4,037	7	2,883	7	1,729	7	574	7		7		7		7	
1/4		1/4	5,167	1/4	4,013	1/4	2,859	1/4	1,705	1/4	550	1/4		1/4		1/4		1/4	
1/2		1/2	5,143	1/2	3,989	1/2	2,835	1/2	1,680	1/2	526	1/2		1/2		1/2		1/2	
3/4		3/4	5,119	3/4	3,965	3/4	2,811	3/4	1,656	3/4	502	3/4		3/4		3/4		3/4	
8		8	5,095	8	3,941	8	2,787	8	1,632	8	478	8		8		8		8	
1/4		1/4	5,071	1/4	3,917	1/4	2,763	1/4	1,608	1/4	454	1/4		1/4		1/4		1/4	
1/2		1/2	5,047	1/2	3,893	1/2	2,738	1/2	1,584	1/2	430	1/2		1/2		1/2		1/2	
3/4		3/4	5,023	3/4	3,869	3/4	2,714	3/4	1,560	3/4	406	3/4		3/4		3/4		3/4	
9		9	4,999	9	3,845	9	2,690	9	1,536	9	382	9		9		9		9	
1/4		1/4	4,975	1/4	3,821	1/4	2,666	1/4	1,512	1/4	358	1/4		1/4		1/4		1/4	
1/2		1/2	4,951	1/2	3,796	1/2	2,642	1/2	1,488	1/2	334	1/2		1/2		1/2		1/2	
3/4		3/4	4,927	3/4	3,772	3/4	2,618	3/4	1,464	3/4	310	3/4		3/4		3/4		3/4	
10		10	4,903	10	3,748	10	2,594	10	1,440	10	286	10		10		10		10	
1/4		1/4	4,879	1/4	3,724	1/4	2,570	1/4	1,416	1/4	262	1/4		1/4		1/4		1/4	
1/2		1/2	4,854	1/2	3,700	1/2	2,546	1/2	1,392	1/2	238	1/2		1/2		1/2		1/2	
3/4		3/4	4,830	3/4	3,676	3/4	2,522	3/4	1,368	3/4	214	3/4		3/4		3/4		3/4	
11		11	4,806	11	3,652	11	2,498	11	1,344	11	190	11		11		11		11	
1/4		1/4	4,782	1/4	3,628	1/4	2,474	1/4	1,320	1/4	166	1/4		1/4		1/4		1/4	
1/2		1/2	4,758	1/2	3,604	1/2	2,450	1/2	1,296	1/2	143	1/2		1/2		1/2		1/2	
3/4		3/4	4,734	3/4	3,580	3/4	2,426	3/4	1,272	3/4	119	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: 10/21/2013 CL - SW
CALCULATED: 10/22/2013 CL
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CANCELS AND SUPERCEDES
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