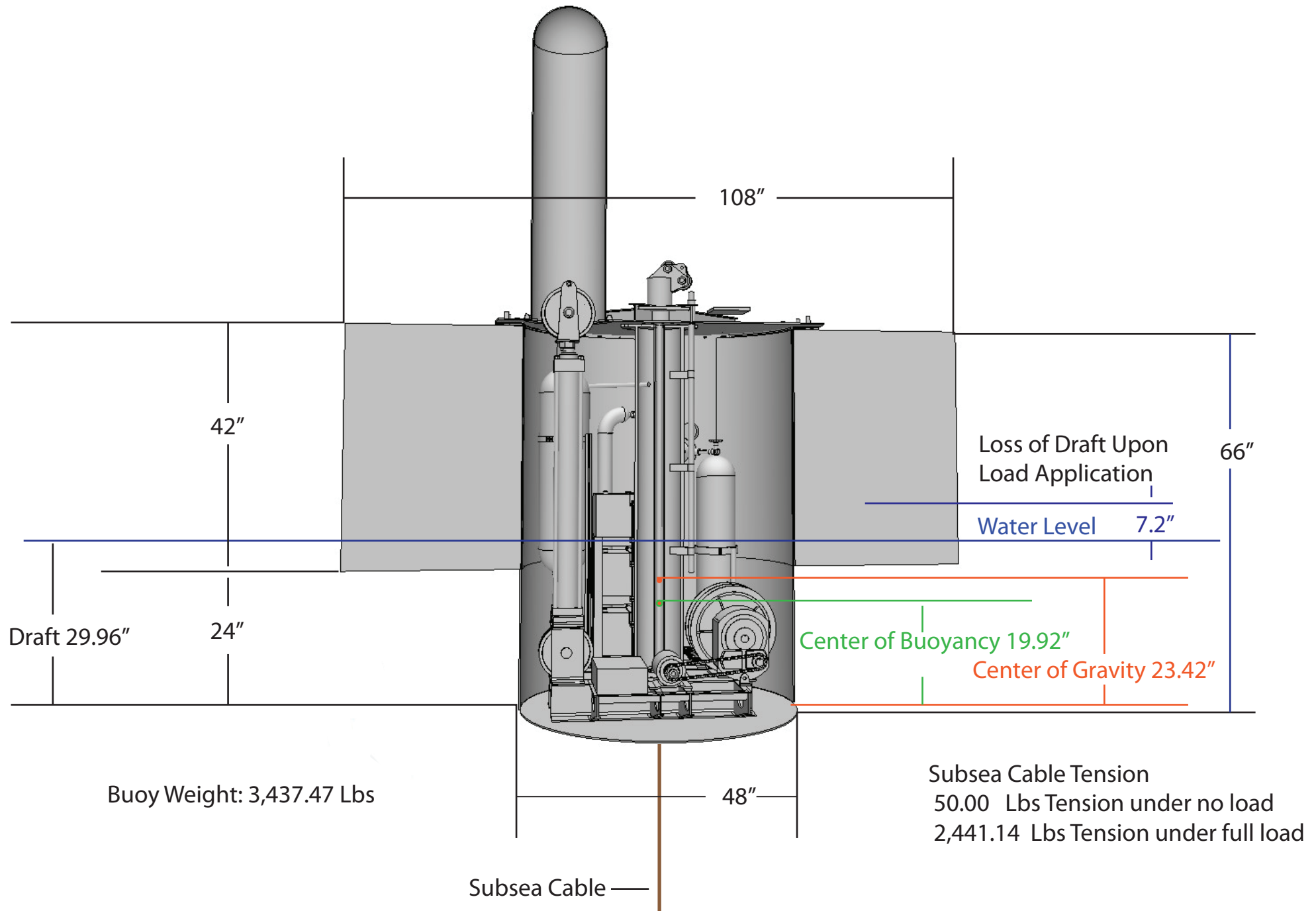
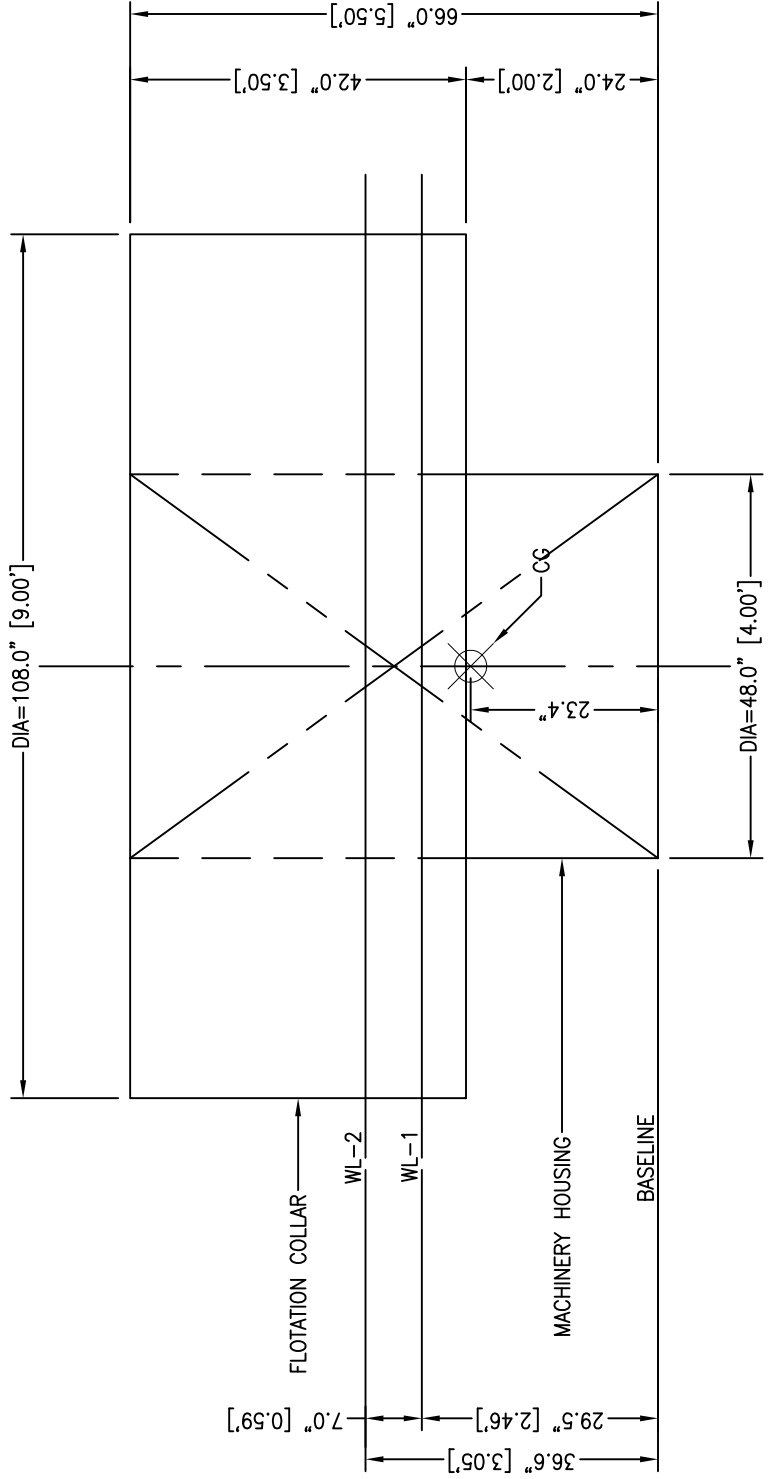


2.5 Kw Wave Energy Converter





NOTE:
WL-2 IS AT MAX CABLE TENSION (2,441 LBS).
WL-1 IS AT MIN CABLE TENSION (50 LBS).
BUOY WEIGHT IS 3,437 LBS.

2.5KW WAVE ENERGY CONVERTER
GENERAL ARRANGEMENT
1/2"=1'-0" 17-JUNE-2026

06/17/26 10:38:04

GHS 11.50

2.5 KW WAVE ENERGY CONVERTER

PWRBUOY

CONDITION 1: 50 LBS CABLE TENSION (MINIMUM LOAD)

WEIGHT STATUS

Baseline draft: 2.461 @ Origin

Part-----	Weight(LB)----	LCG-----	TCG-----	VCG-----
LIGHT SHIP	3,437	0.00	0.00	1.95
Subsea Pull	50	0.00	0.00	0.00
Total Weight----->	3,487	0.00	0.00	1.92
Distances in FEET.-----				

HYDROSTATIC PROPERTIES

Trim: Fwd 0.01 deg., Heel: Stbd 0.00 deg., VCG = 1.92

LCF	Displacement	Buoyancy-Ctr.	Weight/	Moment/					
Draft----	Weight(LB)----	LCB-----	VCB-----	Inch-----	LCF--	Deg trim----	GML-----	GMT	
2.461	3,487	0.00	1.66	339	0.00	344.51	5.66	5.65	

Distances in FEET.-----Specific Gravity = 1.025.-----Moment in Ft-LB.
Draft is from Baseline.

RIGHTING ARMS vs HEEL ANGLE

LCG = 0.00 TCG = 0.00 VCG = 1.92

Origin	Degrees of	Displacement	Righting Arms		
Depth---	Trim---	Heel---	Weight(LB)---	in Trim--	in Heel--
2.461	0.00	0.00s	3,487	0.00	0.000
2.452	0.01a	5.00s	3,487	0.00	0.496
2.399	0.01f	10.00s	3,487	0.00	0.894
2.269	0.00	15.00s	3,487	0.00	1.098
2.096	0.01a	20.00s	3,487	0.00	1.247
1.894	0.01f	25.00s	3,487	0.00	1.383
1.671	0.00	30.00s	3,487	0.00	1.521
1.429	0.01a	35.00s	3,486	0.00	1.673
1.173	0.00f	40.00s	3,487	0.00	1.853
0.897	0.00	45.00s	3,487	0.00	2.039
0.606	0.01a	50.00s	3,488	0.00	2.183
0.304	0.00f	55.00s	3,487	0.00	2.274
-0.004	0.04a	60.00s	3,488	0.00	2.316
-0.157	0.01f	62.45s	3,488	0.00	2.321
-0.316	0.04a	65.00s	3,487	0.00	2.316
-0.629	0.01f	70.00s	3,487	0.00	2.278
-0.943	0.04a	75.00s	3,487	0.00	2.206
-1.254	0.00f	80.00s	3,486	0.00	2.104
-1.562	0.04a	85.00s	3,487	0.00	1.974
-1.866	0.01a	90.00s	3,487	0.00	1.815

Distances in FEET.---Specific Gravity = 1.025.-----

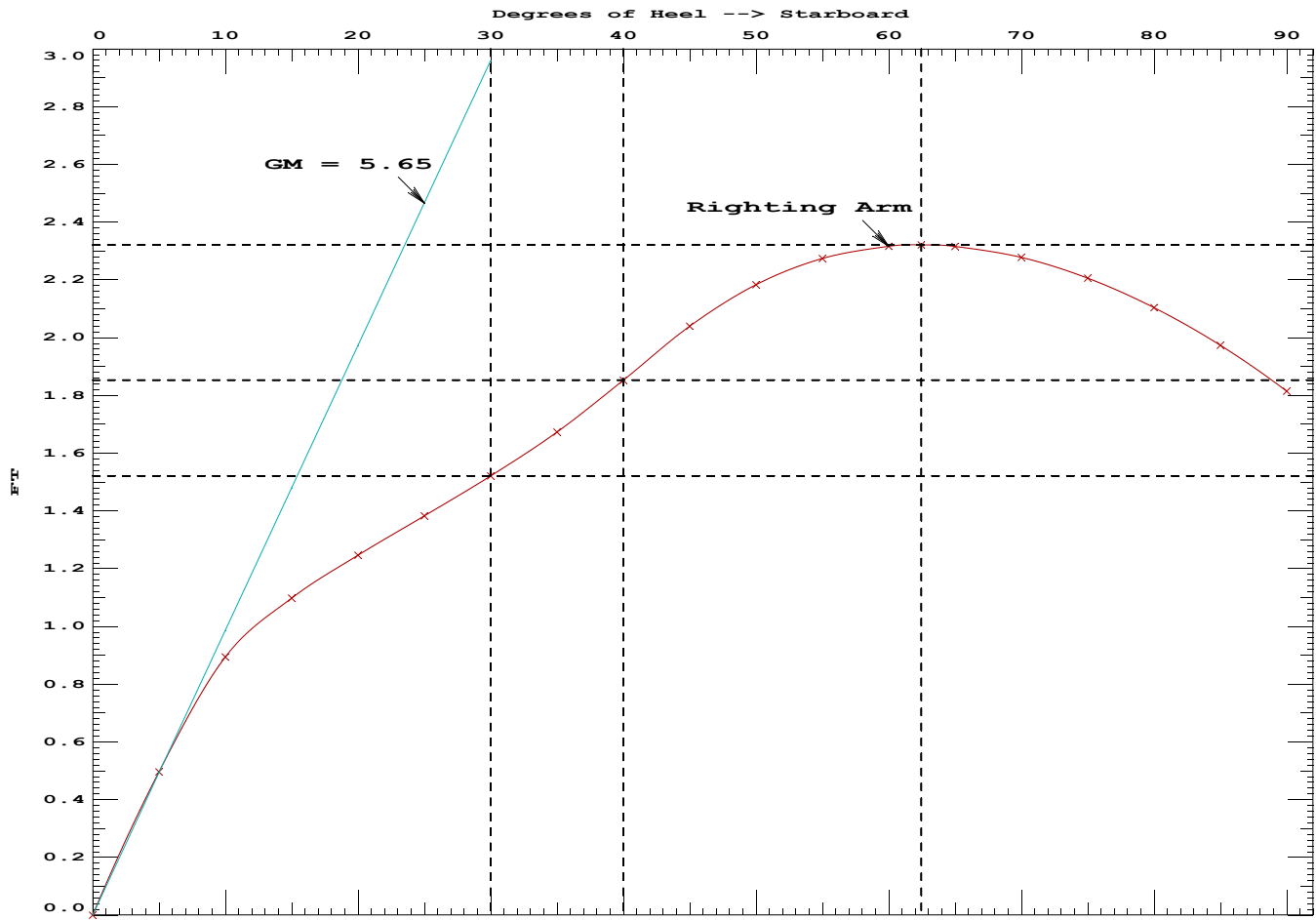
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2.5 KW WAVE ENERGY CONVERTER

PWRBUOY

CONDITION 1: 50 LBS CABLE TENSION (MINIMUM LOAD)



06/17/26 10:38:04

GHS 11.50

2.5 KW WAVE ENERGY CONVERTER

PWRBUOY

CONDITION 2: 2,441 LBS CABLE TENSION (FULL LOAD)

WEIGHT STATUS

Baseline draft: 3.048 @ Origin

Part-----	Weight(LB)----	LCG-----	TCG-----	VCG-----
LIGHT SHIP	3,437	0.00	0.00	1.95
Subsea Pull	2,441	0.00	0.00	0.00
Total Weight----->	5,878	0.00	0.00	1.14
Distances in FEET.-----				

HYDROSTATIC PROPERTIES

Trim: Fwd 0.01 deg., Heel: Port 0.00 deg., VCG = 1.14

LCF	Displacement	Buoyancy-Ctr.	Weight/	Moment/					
Draft----	Weight(LB)----	LCB-----	VCB-----	Inch-----	LCF--	Deg trim----	GML-----	GMT	
3.048	5,878	0.00	2.11	339	0.00	459.46	4.48	4.47	

Distances in FEET.-----Specific Gravity = 1.025.-----Moment in Ft-LB.
Draft is from Baseline.

RIGHTING ARMS vs HEEL ANGLE

LCG = 0.00 TCG = 0.00 VCG = 1.14

Origin	Degrees of	Displacement	Righting Arms		
Depth---	Trim---	Heel---	Weight(LB)---	in Trim--	in Heel--
3.048	0.00	0.00p	5,878	0.00	0.000
3.037	0.01a	5.00s	5,878	0.00	0.391
3.002	0.01f	10.00s	5,878	0.00	0.786
2.943	0.00	15.00s	5,878	0.00	1.185
2.833	0.01a	20.00s	5,878	0.00	1.518
2.666	0.01f	25.00s	5,879	0.00	1.779
2.452	0.00	30.00s	5,879	0.00	1.997
2.205	0.01a	35.00s	5,878	0.00	2.191
1.945	0.00f	40.00s	5,878	0.00	2.350
1.681	0.00	45.00s	5,878	0.00	2.483
1.417	0.01a	50.00s	5,878	0.00	2.597
1.152	0.00f	55.00s	5,878	0.00	2.683
0.880	0.04a	60.00s	5,878	0.00	2.736
0.602	0.01f	65.00s	5,879	0.00	2.754
0.584	0.04a	65.32s	5,878	0.00	2.754
0.319	0.01f	70.00s	5,878	0.00	2.741
0.034	0.04a	75.00s	5,879	0.00	2.699
-0.253	0.01f	80.00s	5,878	0.00	2.630
-0.538	0.04a	85.00s	5,878	0.00	2.538
-0.821	10.53a	90.00s	5,878	0.00	2.383

Distances in FEET.-----Specific Gravity = 1.025.-----

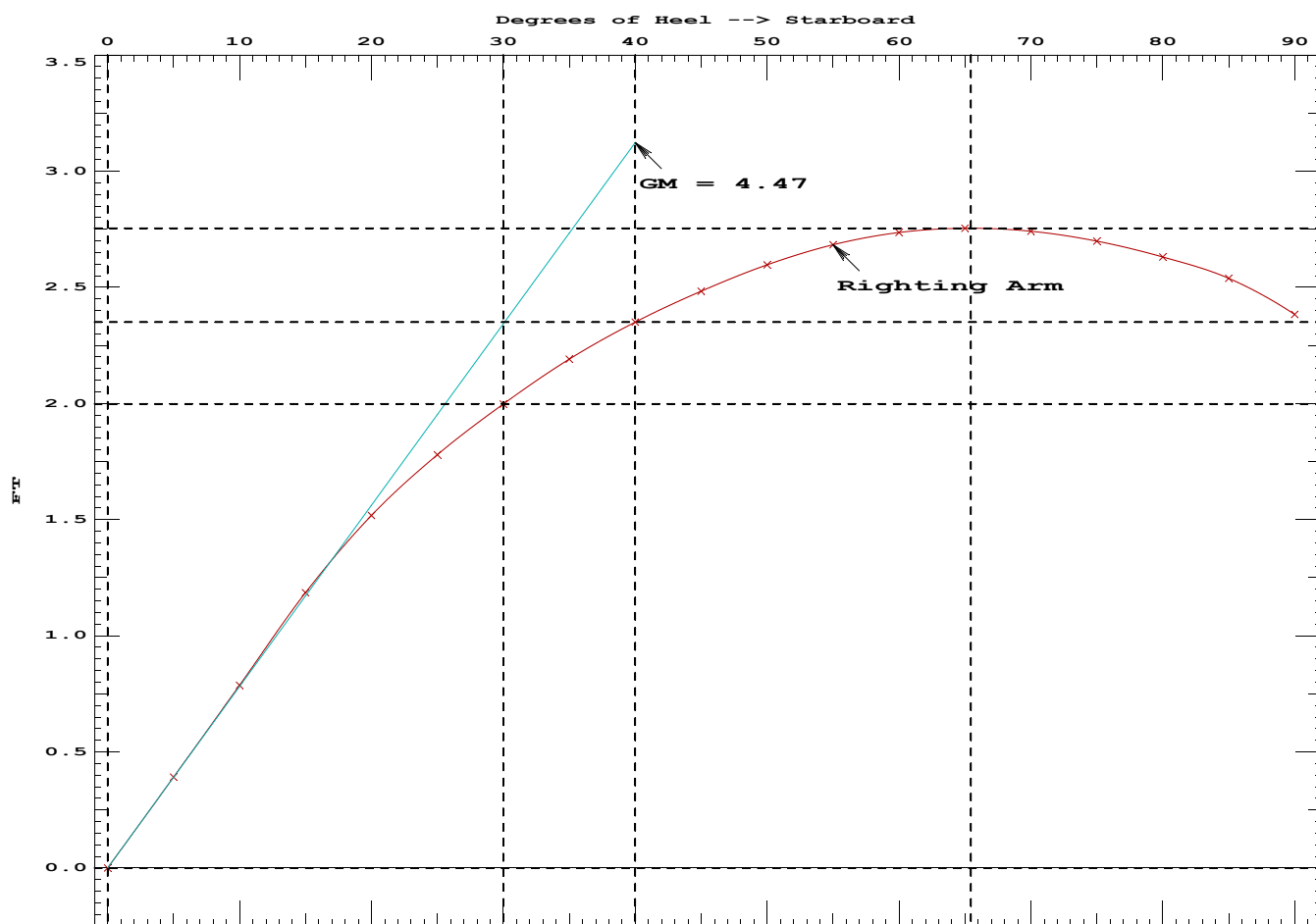
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2.5 KW WAVE ENERGY CONVERTER

PWRBUOY

CONDITION 2: 2,441 LBS CABLE TENSION (FULL LOAD)



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2.5 KW WAVE ENERGY CONVERTER

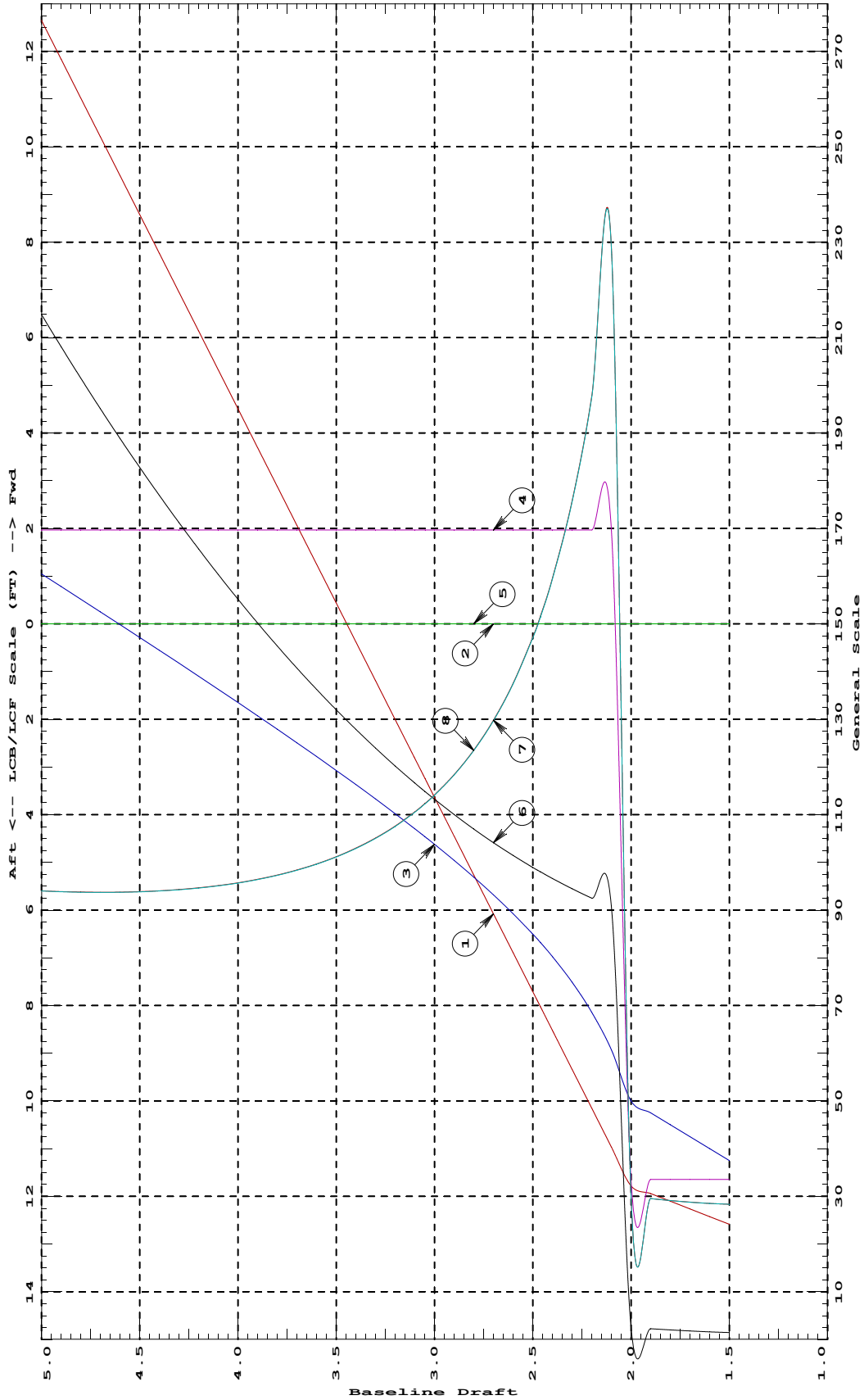
PWRBUOY

HYDROSTATIC PROPERTIES
No Trim, No Heel, VCG = 1.14

	LCF	Displacement	Buoyancy-Ctr.	Weight/		Moment/		
	Draft----	Weight (LB)----	LCB-----	VCB-----	Inch-----	LCF--Deg	trim----	KML-----KMT
	5.000	13,826	0.00	3.21	339	0.00	859.54	4.70 4.70
	4.900	13,419	0.00	3.16	339	0.00	832.46	4.69 4.69
	4.800	13,012	0.00	3.10	339	0.00	806.09	4.69 4.69
	4.700	12,604	0.00	3.05	339	0.00	780.43	4.69 4.69
	4.600	12,197	0.00	3.00	339	0.00	755.49	4.69 4.69
	4.500	11,790	0.00	2.94	339	0.00	731.25	4.69 4.69
	4.400	11,383	0.00	2.89	339	0.00	707.72	4.70 4.70
	4.300	10,976	0.00	2.83	339	0.00	684.91	4.72 4.71
	4.200	10,568	0.00	2.78	339	0.00	662.81	4.73 4.73
	4.100	10,161	0.00	2.73	339	0.00	641.41	4.76 4.75
	4.000	9,754	0.00	2.67	339	0.00	620.73	4.79 4.78
	3.900	9,347	0.00	2.61	339	0.00	600.76	4.82 4.82
	3.800	8,939	0.00	2.56	339	0.00	581.50	4.87 4.86
	3.700	8,532	0.00	2.50	339	0.00	562.95	4.92 4.92
	3.600	8,125	0.00	2.44	339	0.00	545.11	4.98 4.98
	3.500	7,718	0.00	2.39	339	0.00	527.98	5.06 5.06
	3.400	7,311	0.00	2.33	339	0.00	511.57	5.15 5.15
	3.300	6,903	0.00	2.27	339	0.00	495.86	5.26 5.25
	3.200	6,496	0.00	2.20	339	0.00	480.87	5.38 5.38
	3.100	6,089	0.00	2.14	339	0.00	466.58	5.53 5.53
WL-2	3.048	5,877	0.00	2.11	339	0.00	459.43	5.62 5.61
	3.000	5,682	0.00	2.08	339	0.00	453.01	5.71 5.70
	2.900	5,275	0.00	2.01	339	0.00	440.15	5.92 5.92
	2.800	4,867	0.00	1.94	339	0.00	428.00	6.18 6.17
	2.700	4,460	0.00	1.86	339	0.00	416.56	6.49 6.48
	2.600	4,053	0.00	1.78	339	0.00	405.83	6.88 6.87
	2.500	3,646	0.00	1.70	339	0.00	395.81	7.36 7.35
WL-1	2.461	3,487	0.00	1.66	339	0.00	392.10	7.58 7.57
	2.400	3,239	0.00	1.60	339	0.00	386.50	7.98 7.97
	2.300	2,831	0.00	1.50	339	0.00	377.91	8.79 8.78
	2.200	2,424	0.00	1.37	339	0.00	370.02	9.89 9.87
	2.100	2,017	0.00	1.21	339	0.00	362.84	11.45 11.43
	2.000	1,610	0.00	1.00	67	0.00	10.14	1.50 1.50
	1.900	1,529	0.00	0.95	67	0.00	9.00	1.48 1.48
	1.800	1,449	0.00	0.90	67	0.00	8.00	1.46 1.46
	1.700	1,368	0.00	0.85	67	0.00	7.14	1.44 1.44
	1.600	1,288	0.00	0.80	67	0.00	6.43	1.43 1.43
	1.500	1,207	0.00	0.75	67	0.00	5.85	1.42 1.42

Distances in FEET.-----Specific Gravity = 1.025.-----Moment in Ft-LB.
Draft is from Baseline.

HYDROSTATIC PROPERTIES at LEVEL TRIM



- 1 Displacement 1=50 LB
- 2 LCB (use top scale)
- 3 VCB (KB) 1=.02 FT
- 4 Immersion 1=2 LB/IN
- 4 WPA 1=.375 Sq.FT
- 5 LCF (use top scale)
- 6 Moment/Trim 1=4 FT-LB/Deg
- 7 KML 1=.05 FT
- 8 KMT 1=.05 FT

Specific Gravity = 1.025 Assumed KG = 1.14 FT
"K" = Baseline