



LIGHTSHIP WEIGHT ESTIMATE

DRAWING	NO.	FORMAT	A4	DRAWN	SK
SHIP NAM	ORKIM POWER	SHEET NO	02/02	CHECKED	TT
DATE	15-11-2024	REV.	Α	APPRD	GC

LIGHT SHIP WEIGHT	2900	Tons
1% of LSW	29	Tons

DESCRIPTION	TON	LCG	TCG	VCG	L-M
FILTER	0.630	21.100	0.743	3.870	13.293
UV ASSEMBLY	0.130	20.987	-1.942	4.703	2.728
BACK FLUSH PUMP	0.139	21.446	1.890	3.660	2.981
POWER CABINET	0.290	14.628	1.814	4.020	4.242
CONTROL UNIT	0.089	9.984	1.647	7.631	0.889
PRESSURIZATION CONTROL BOX	0.010	21.292	-3.022	3.242	0.221
REMOTE CONTROL CABINET	0.012	17.450	5.845	3.100	0.209
FILTER FOUNDATION	0.132	21.100	0.743	2.135	2.785
BACKFLUSH PUMP FOUNDATION	0.018	21.446	1.890	3.187	0.386
POWER CABINET FOUNDATION	0.094	14.628	1.814	3.016	1.375
CONTROL UNIT FOUNDATION	0.073	10.084	1.274	6.810	0.736
Pipe & Support	5.450	19.221	-0.227	4.517	104.754
Total Weight	7.067	19.045	0.049	4.416	134.601

DESCRIPTION	МТ	LCG	L-M
Existing Lightship	2900.00	42.225	122452.5
New Additional Weight	7.067	19.045	134.60068
New Lightship and LCG	2907.07	42.1686476	122587.1
Percentage Change of Lightship	0.24370345	Less than 1%	

The change in Lightship weight is Less than 1%

DESCRIPTION	MT	VCG	V-M
Existing Lightship	2900.00	7.166	20781.4
New Additional Weight	7.067	4.416	31.211576
New Lightship and VCG	2907.07	7.15931511	20812.612

Difference in LCG	-0.05635242	m
Length between perpendiculars	99	m
Change In LCG	0.13%	
Change In VCG	0.010%	
Allowable change in LCG	0.495	

The change in LCG is Less than 0.5% of LBP

(0.5% of LBP)

CONCLUSION:

After BWTS Reftrofit, the change in lightship weight is not exceeding 1.0% and the change in LCG is not exceeding 0.5% of LBP. Hence the most recent approved stability booklet remain valid.