

From: [REDACTED]
To: [Duty, Sert SMB](#)
Cc: [REDACTED]
Subject: [Non-DoD Source] ENTRAINED-WATER-8-JUNE-1300.pdf
Date: Wednesday, June 8, 2022 2:16:37 PM
Attachments: [ENTRAINED-WATER-8-JUNE-1300.pdf](#)
Importance: High

LATEST @ 1300.

SE ARE GAINING WATER FASTER, NOW HAVE 531-LT ONBOARD.

V/R
KEN

No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308.

From: [REDACTED]
To: [Duty, Sert SMB](#); [REDACTED]
Subject: [Non-DoD Source] Initial dewatering entry plan
Date: Wednesday, June 8, 2022 12:27:38 PM
Attachments: [Spirit of Norfolk Dewatering Plan.pptx](#)

Best Regards,
Tim

[REDACTED]
VP Salvage Operations
Donjon Marine Company

From: [Duty, Sert SMB](#)
To: [D05-SMB-SecVA-Inspections](#)
Subject: FW: [Non-DoD Source] SPIRIT OF NORFOLK
Date: Wednesday, June 8, 2022 2:39:31 PM
Attachments: [ENTRAINED-WATER-8-JUNE-0600.pdf](#)
[Non-DoD Source ENTRAINED-WATER-8-JUNE-1300.pdf.msg](#)
[Non-DoD Source Drafts this AM.msg](#)
[Non-DoD Source Initial dewatering entry plan.msg](#)
Importance: High

Good day,

Attached and the e-mail string below are the information we have received from the salvor. Sharing so we are all receiving the same information and so we are able to assist most effectively, that the plans and T&S book is sent reply email. Calling CWO [REDACTED] now for a SITREP on-scene.

We have generated our own computer model, and are updating with most recent info sent by Ken Edger in the attached 8 June 1300 report.

We are awaiting a dewatering plan from the salvor.

V/r,

[REDACTED]
Marine Safety Center
Salvage Engineering Response Team (SERT)
24x7 Mobile: (202) 327-3985
Sert.Duty@uscg.mil

From: [REDACTED]
Sent: Wednesday, June 8, 2022 9:46 AM
To: Duty, Sert SMB <Sert.Duty@uscg.mil>
Cc: [REDACTED]
Subject: [Non-DoD Source] SPIRIT OF NORFOLK
Importance: High

Good morning – again,

Please find the attached.

I have revised the GF—found an error in it.
Based on the 0600 drafts we have 382-tons of water assumed to be in the combination ER & Galley.

We are working on a pumping plan, hope to brief UC @ 1030.

Will impose the following limits:

No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308.

- Maintain heel less than 4.5 degrees,
- Trim less than 3 aft,
- No more than 75% capacity in the ER-Galley (estimated),
- Draft less than 11'-9" on port aft.

If all goes well, hope to be moving water by 1400.

We are expecting weather this afternoon.

v/r
Ken

SPIRIT OF NORFOLK CONDITION @ PIER 4
FUEL QUANTITY PROVIDED BY MASTER
STORES & OTHER LOADS FROM STABILITY TEST REPORT
PASSENGER & CREW EVACUATED
SPECIFIC GRAVITY OF SALT WATER USED IS 1.025

DRAFT PORT FWD @ -70 = 7'-11"
 DRAFT STBD FWD @ -70 = 7'-3"
 DRAFT PORT AFT @ 74 = 11'-5"
 DRAFT STBD AFT @ 74 = 10'-0"

WEIGHT and DISPLACEMENT STATUS							
Baseline draft: 9.395 @ Origin							
Trim: Aft 2.95/160.00, Heel: Stbd 1.44 deg.							
Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP	477.11	11.25a	0.00	14.56			
FURNITURE	9.81	8.51f	0.00	21.71			
STORES	10.00	12.00f	0.00	12.00			
POTABLE WATER	40.90	42.00f	0.00	7.12			
SEWAGE FWD	2.34	22.00f	0.00	1.05			
SEWAGE AFT	3.28	14.00a	0.00	1.00			
Total Fixed	543.44	6.33a	0.00	13.94			
	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
FUEL.S	0.518	0.870	8.59	29.01a	12.33s	4.56	-6.54
FUEL.P	0.518	0.870	8.59	29.01a	12.23p	4.56	-7.17
ER-GALLEY	0.793	1.025	531.80	21.62a	0.35p	5.96	-9.89
Total Tanks			548.98	21.85a	0.34p	5.92	
Total Weight			1,092.42	14.13a	0.17p	9.91	
HULL		1.025	Displ(LT)	LCB	TCB	VCB	
			1,092.34	14.20a	0.38s	5.95	-9.39
			Righting Arms:	0.00	0.45s		
Distances in FEET.							

HYDROSTATIC PROPERTIES								
Trim: Aft 2.95/160.00, Heel: Stbd 1.44 deg., VCG = 9.91								
LCF Draft	Displacement Weight(LT)	Buoyancy-Ctr. LCB	VCB	Weight/Inch	LCF	Moment/In trim	GML	GMT
9.632	1,092.34	14.20a	5.95	13.21	12.83a	145.17	255.2	4.50
Distances in FEET.				Specific Gravity = 1.025.			Moment in Ft-LT.	
				Trim is per 160.00Ft				
Draft is from Baseline.				True Free Surface included.				

CRITICAL POINT STATUS

Baseline draft: 9.395 @ Origin
Trim: Aft 2.95/160.00, Heel: Stbd 1.44 deg.

Critical Points	LCP	TCP	VCP	Height
(1) DRAFT STBD FWD	70.00f	11.00s	0.00	-8.37
(2) DRAFT PORT FWD	70.00f	11.00p	0.00	-7.82
(3) DRAFT STBD AFT	74.00a	18.25s	0.00	-11.21
(4) DRAFT PORT AFT	74.00a	18.25p	0.00	-10.30
(5) ER ESCAPE TRUNK TIGHT	54.00a	12.00s	12.50	1.81

Distances in FEET.

RIGHTING ARMS vs HEEL ANGLE

Fixed CG: LCG = 6.33a TCG = 0.00 VCG = 13.94

Origin Depth	Degrees of		Displacement Weight(LT)	Righting Arms		Area	Flood Pt Height
	Trim	Heel		in Trim	in Heel		
9.391	1.06a	1.44s	1,092.4	0.00	-0.453	0.00	1.80 (5)
9.367	1.07a	3.56p	1,092.3	0.00	-0.064	-1.29	2.84 (5)
9.354	1.08a	4.49p	1,092.4	0.00	0.000	-1.32	3.03 (5)
9.293	1.21a	8.56p	1,092.4	0.00	0.230	-0.83	3.71 (5)
9.262	1.55a	13.56p	1,092.4	0.00	0.414	0.82	4.24 (5)
9.295	1.87a	17.47p	1,092.5	0.00	0.456	2.55	4.46 (5)
9.311	1.97a	18.56p	1,092.4	0.00	0.453	3.05	4.49 (5)
9.411	2.42a	23.56p	1,092.4	0.00	0.379	5.18	4.55 (5)
9.511	2.89a	28.56p	1,092.4	0.00	0.216	6.71	4.46 (5)
9.572	3.34a	33.36p	1,092.4	0.00	0.000	7.25	4.29 (5)
9.574	3.36a	33.56p	1,092.4	0.00	-0.010	7.25	4.28 (5)
9.582	3.81a	38.56p	1,092.4	0.00	-0.273	6.56	4.04 (5)
9.528	4.24a	43.56p	1,092.6	0.00	-0.558	4.49	3.76 (5)

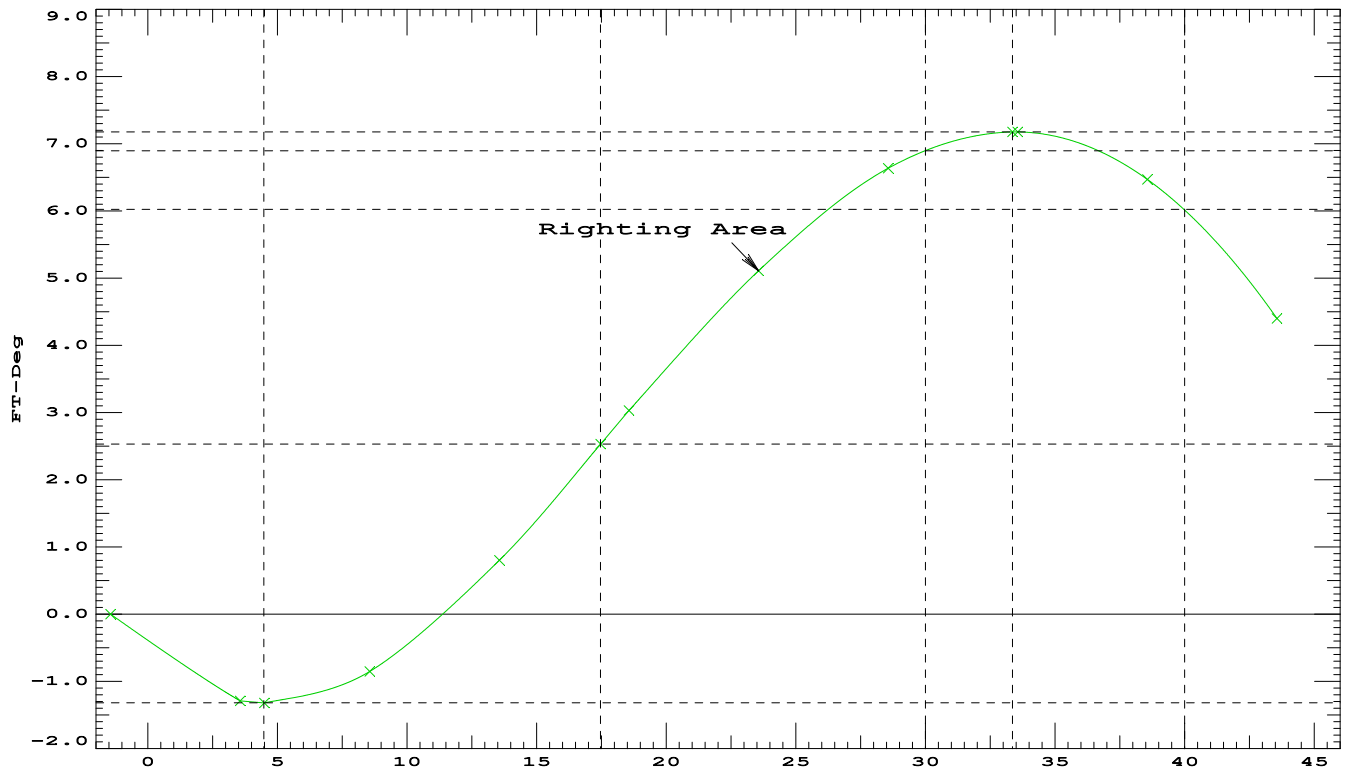
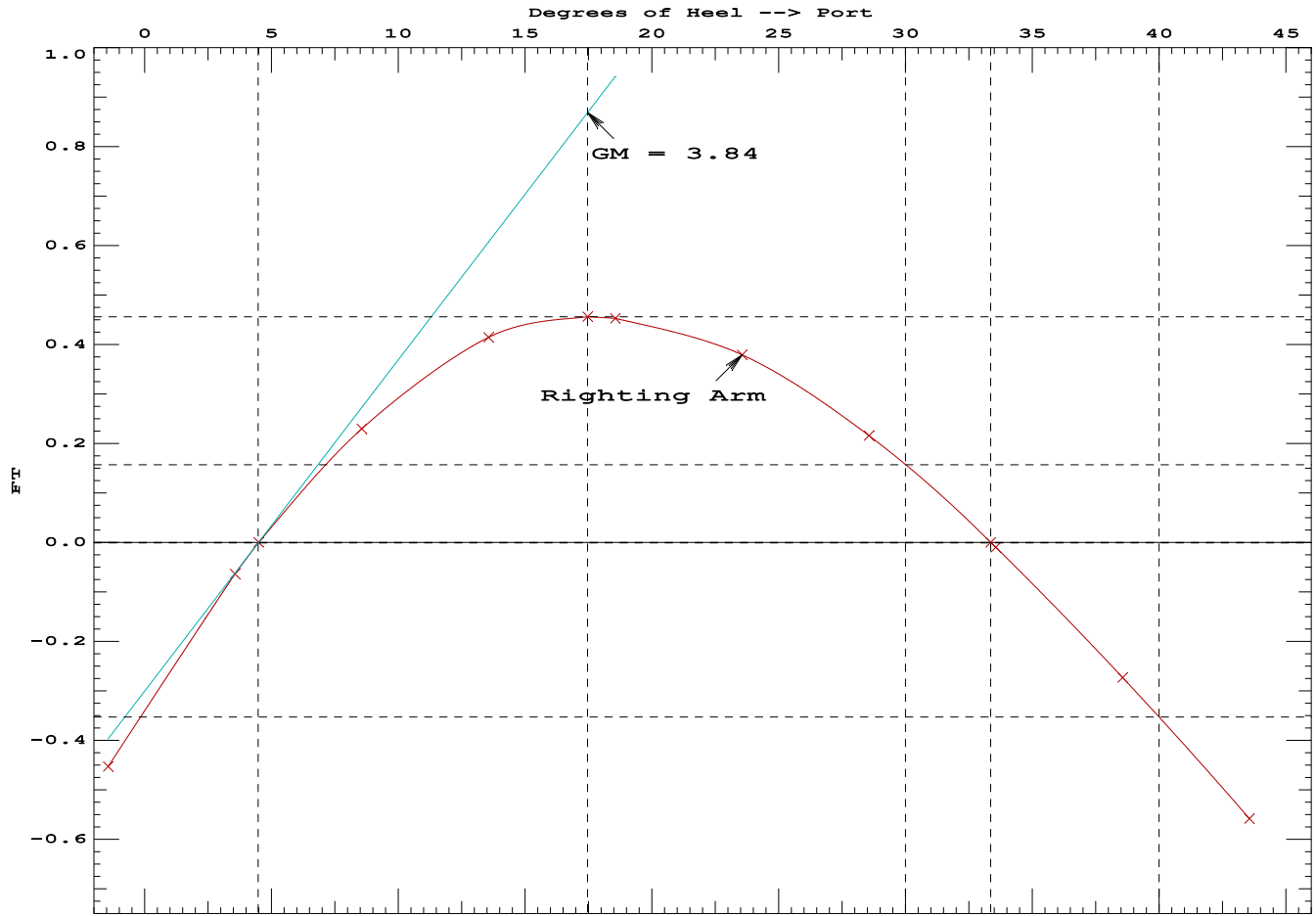
Distances in FEET.

Specific Gravity = 1.025.

Area in Ft-Deg.

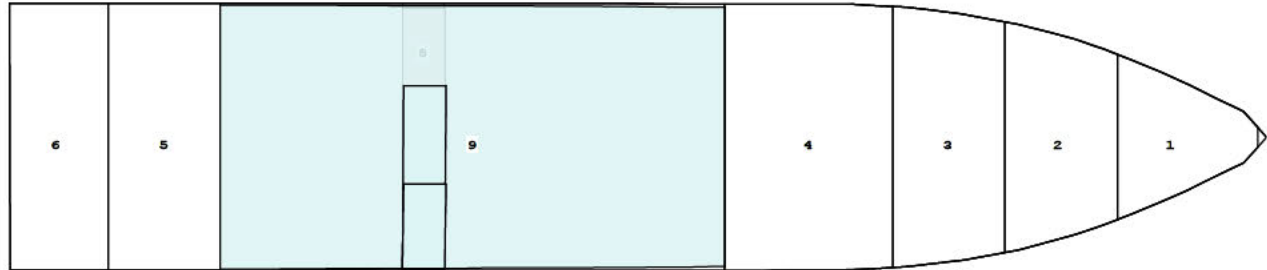
Note: The Center of Gravity shown above is for the Fixed Weight of 543.44 LT. As the tank load centers shift with heel and trim, the total Center of Gravity varies. The righting arms shown above include the effect of the C.G. variation. The free surface adjustment is for the difference between the formal and the true free surface at the initial heel.

Critical Point	LCP	TCP	VCP
(5) ER ESCAPE TRUNK TIGHT	54.00a	12.00s	12.50

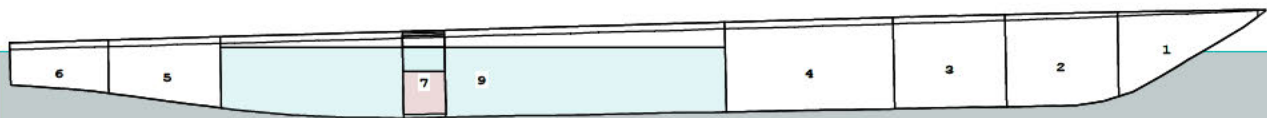


CG - Draft: 9.40 @ 0.00 Trim: aft 2.95/160.00 Heel: stbd 1.44 deg.

Plan View



Profile View



Tanks

1 FOREPEAK....0% SEA WATER Intact	4 HEADS.....0% SEA WATER Intact	8 FUEL.P....52% DIESEL OIL Intact
2 THRUSTER....0% SEA WATER Intact	5 APTVOID.....0% SALT WATER Intact	9 ER-GALLEY..79% SALT WATER Intact
3 FWDVOID.....0% SEA WATER Intact	6 LAZARETTE...0% SEA WATER Intact	
	7 FUEL.S.....52% DIESEL OIL Intact	