

Form LL. 4.C. Revised

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SEABROOK. SURVEY FOR FREEBOARD

STEAMER, ~~TANKER~~, SAILER: **S.M. "EMPIRE FARAWAY"** WITH ~~WITHOUT~~ TIMBER DECK CARGO

Nationality **BRITISH** Builders' Name and No. of Ship **RICHARD DUNSTON LTD**

Port of Registry **HULL** **HESSLE N° 454.**

Official Number **180312** Owners **T.G. JAMES** ~~MINISTRY OF WAR TRANSPORT~~

Gross Tonnage **411.05** ~~(MERS) WATFORD LINES LTD. LONDON E.C.3.~~

Date of Build **11/44** ~~SEAWAY COASTERS LTD. LONDON.~~ Port and Date of survey **HULL. DURING CONSTRUCTION.**

Name of Surveyor **W.J. NOBLE**

Particulars of Classification **BS \* (COASTING SERVICE)** Names of Sister Ships **EMPIRE FACTOR, FAIRHAVEN, FASHION etc.**

Type of Superstructures **POOP AND FORECASTLE.**

Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)			
TROPICAL FRESH WATER LINE above centre of disc	<del>2 1/4"</del>	Corresponding Freeboard	<b>1' 6"</b>
FRESH WATER LINE " " "	<b>2 1/2"</b>	" "	<b>1' 3 1/2"</b>
TROPICAL LINE " " "	<del>2 1/4"</del>	" "	<del>1' 6"</del>
WINTER LINE below " "	<b>2 1/2"</b>	" "	<b>1' 8 1/2"</b>
WINTER NORTH ATLANTIC LINE " " "	<del>4 1/2"</del>	" "	<del>1' 10 1/2"</del>

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line			
TROPICAL FRESH WATER Timber line above L.S.		Corresponding Freeboard	
FRESH WATER " " " "		" "	
TROPICAL " " " "		" "	
WINTER " " below "		" "	
WINTER NORTH ATLANTIC " " " "		" "	

*Samuel Chant Tyle*

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

*[Signature]*  
Chief Surveyor

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the **1st NOVEMBER, 1944**

*[Signature]*  
Secretary

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## COMPUTATION OF FREEBOARD

Length on summer load line 141'-0" Moulded Breadth 27'-0" Moulded Depth 11'-0" Depth of Keel 12'  
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 725 Tons @ 9'-4 3/16"  
 Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times 85} = 7130$   
 Displacement and tons per inch immersion in salt water at summer load line 742. 7.95 @ 9'-6"  
 Moulded depth 11.000. Deduction for Fresh Water  $\frac{\Delta}{40T} = 2.333$  inches  
 Stringer Plate 3/8" .031. Round of Beam Correction  
 Sheathing on exposed deck T  $\left(\frac{L-S}{L}\right)$  - Ships Round of Beam 0.00 inches  
 Rise of floor (in sailers) - Standard Round of Beam  $\frac{B \times 12}{50} = 6.48$   
 Depth for Freeboard (D) 11.031. Difference 6.48  
 Table Depth 1/5. 9.400. Restricted to  
 Depth Correction 1/30. 1.631. Correction  $\frac{\text{Difference}}{4} \times \left(1 - \frac{B}{L}\right)^{5/4} = 1.628 \cdot 2262 \cdot 366504$   
 If restricted by superstructures 1.76904.

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	34'-6 3/4"		7'-0"	41.26.		41.26.
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	15'-8 1/16"	1'-10"	8'-0"	15.63.		14.83.
Trunk Aft	35'-1"		7'-0"	18.27.		23.39.
" Forward	34'-10"		3'-4"	18.27.		8.26.
Tonnage Opening Aft	18'-10"		3'-4"	14.71.		4.56.
" " Forward						
Totals				5.23.39.		56.89.
				18.30.		10.26.
				52.21.		52.21.
				109.10.		109.10.
						5.77.38%.

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	Mean Actual sheer forward
A.P.				1			
1/8 L from A.P.				4			
1/8 L from A.P.				2			
Amidships				4			
1/8 L from F.P.				2			
1/8 L " "				4			
F.P.				1			
				18			
Effective Mean Sheer							
Standard " " .05L+5							
Difference							

Mean Actual sheer aft = LESS THAN 1.  
 Mean Actual sheer forward = LESS THAN 1.  
 Length of enclosed superstructure forward of amidships =  
 Length of Ship  
 Length of enclosed superstructure aft of amidships =  
 Length of Ship  
 Sheer Correction = Difference  $\times \left(75 - \frac{S}{2L}\right) = 12.05 \times 54.83 = 660.7$   
 If limited on account of midship superstructure =  
 to maximum allowance of 1 1/2 ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 14.33.

Correction for co-efficient =  $\frac{1393}{136} = 14.68$  DRAUGHTS AND SEASONAL CORRECTIONS

	+	-		
Depth correction	1.77	-	Depth to Freeboard Deck in feet	11.031.
Deduction for superstructures	-	11.11.	Summer Freeboard in feet	1.500.
Sheer correction	6.61	-	Moulded Draught (d)	9'-6 3/8" 9.531.
Round of Beam correction	.37	-	Addition for Keel	1/2" .042
Correction for thickness of deck amidships	-	-	Extreme draught	9'-6 3/8" 9.573.
Other corrections, scantlings, etc.	5.68.	-		
	14.43.	11.11.		
Summer Freeboard in inches	1'-6"			
Additional allowance for superstructures on				
Timber carrying ships				
Summer Timber Freeboard in inches				

AGREED WITH D.M.B. THAT DRAUGHT (M.D.) SHOULD BE RESTRICTED TO 9'-6 3/8" IN SALT WATER.

Form LL. 4.D.

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

### CONDITIONS OF ASSIGNMENT

SHIPS NAME "EMPIRE FARAWAY"

OFFICIAL NUMBER 180312

Nationality and Port of Registry BRITISH HULL.

## PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead		5/16"	5" x 5/16"	2'-3"	WELDED	2 @ 10" Dia.	5'-1"	7'-0"
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead		5/16"	3" x 3" x 1/4"	2'-0" 2'-6"	WELDED	2 @ 4'-1" x 1'-10"	1'-3"	8'-0"
Trunk, Aft	5/16"	5/16"	3 1/2" x 5/16"	1'-8" 1'-10"	"			7'-0"
" Forward		5/16"	4" x 5/16"	1'-8"	"			5'-4"
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks	5/16"	1/4"	4" x 5/16"	1'-9"	WELDED AT TOP BUT AT BOTTOM			8'-8" 8'-6"
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances								
Deckhouses on flush deck ships								

## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

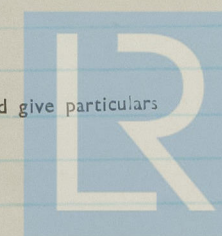
Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	Steel doors operated both sides
Exposed Machinery Casings on Freeboard or R.Q. decks	
Exposed Machinery Casings on superstructure decks	
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	
Deck houses on Flush Deck ships	

## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
Forward Well					
State fore and aft position and height above deck to bottom of port, for each port					

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Give particulars of freeing port area, etc., on superstructure decks



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Below Freeboard Deck

Above Freeboard Deck.

None

Note:

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



Give full particulars of the following:—

Fiddley, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

1 Bowl vent P+S 10" dia 2'-0" coaming welded to casing top 8'-5" above deck.  
1 G.N. " " 4" " 1'-6" above casing " " " 8'-5" "  
4 Hinged steel skylight flaps 2'-3" x 2'-0" No Bullyes on casing top 7'-6" above deck.  
1-5" M.V. fitted on top of each skylight flap 6" coaming

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

None

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

Entrance to accommodation on casing front steel door operated both sides 18" coaming  
" " " " " port side " " " " "  
" " " " " starbd. " " " " "

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Upper deck.

2-10" dia. cowl vents P+S 29" coaming welded to trunk top Wood plugs & canvas covers

Poop deck.

4-6" dia. cowl vents P+S	3'-0" coaming welded to deck	Wood plugs & canvas covers
3-6" " " " S	3'-0" " " " "	" " " " "
5-5" " G.N. " P.	18" above deck Bolted " "	" " " " "
2-5" " M. " P.	6" " " " " "	Rubber joint screw top
5-5" " G.N. " S	18" " " " " "	Wood plugs & canvas covers
2-5" " M. " P.	6" " " welded " "	Rubber joint screw top
1-10" " cowl " S	3'-0" coaming " " "	Wood plug & canvas covers

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

1-3" G.N. airpipe on & 2'-0" above forecandle Bolted to deck Wood plug & canvas covers.  
3-3" " " P+S 3'-10" " upper dk. " " " " "  
1-3" " " P+S 7'-3" " " " " " "  
2-3" " " 1'-4 1/2" " trunk top 4'-11 1/2" above dk. welded to trunk top Wood plugs & canvas covers



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