

JAN 1936 25501

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

(Under the Provisions of the U. S. A. Load Line Act of March 2, 1929)

New York Office Index No. **217**
 Port of Survey... **New York**
 Date of Survey... **Dec. 11th, 1935**
 Name of Surveyor... **H.G. House**

S.S. **"K.I. LUCKENBACH"** Port of Registry and Nationality **NEW YORK U.S.A.** Official Number **215800** Gross Tonnage **5887** Date of Build **1918 - 2 +100** Particulars of Classification **Al Shelter Deck with Freeboard**

Number in Register Book.....
 Owner **Luckenbach S. S. Company, Inc.** Builder **Bethlehem S.B. Corp.** Hull No. **264**

Moulded dimensions **447 × 55.91 × 31.17** (85% = **26.49**)
 Moulded displacement at a moulded draught of 85 per cent. of moulded depth... **14240**
 Coefficient of fineness for use with tables... **.7528**

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	31.17	(a) When D is greater than $\frac{L}{15}$		Standard	$\frac{56 \times 12}{50} = 13.44$
Stringer plate	.04	$(\frac{D-L}{15}) \times R = (31.21-29.8) \times 3 = 4.23$		Ship	12.
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference	1.44
$r(\frac{L-S}{L}) =$		$(\frac{L}{15}-D) \times R =$		Restricted to	
Depth D =	31.21	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{L} \times (1 - \frac{S}{L}) = 4.01$.36x.016

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S ₁ (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	1 2.00	1 2.00	9'6"		1 2.00
" overhang	2 1.00	1 0.50			1 0.00
R.Q.D. enclosed					
" overhang					
Bridge enclosed	4 1 0.00	4 1 0.00			4 10.0 0
" overhang aft					
" overhang forward					
Fore enclosed					
" overhang					
Trunks forward					
" aft					
Tonnage opening	4.00	7.25			7.25
TOTAL =	447.00	439.75			439.75

Length of ship (L) = $\frac{447}{447}$
 % Covered... = $\frac{439.75}{447} = 98.38$
 Corresponding %, corrected for absence of forecastle if required } A = 98.01 }
 Allowance ... = 42 × .9801 = 41.16

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	2 8.0 0	5 4.7 0	5 2.0 0	1	5 2.0 0
2	2 2.0 0	2 4.3 9	2 3.1 1	4	9 2.4 4
3	5 5.0 0	6 0.0 1	5 7.7 7	2	1 1.5 4
4				4	
5	2 0.0 0	1 2.0 2	1 5.1 1	2	3 0.2 2
6	5 7.0 0	4 8.7 8	6 0.4 4	4	2 4 1.7 6
F.P. 7	1 1 2.0 0	1 0 9.4 0	1 3 6.0 0	1	1 3 6.0 0

T. Dk. Height 9'6"
 7'6"
 2'0"

If excess sheer forward and deficient sheer aft

Actual sheer aft	3-23.11	-69.33	3-24.39	-73.17
Standard sheer aft	3-5.75	-17.31	3-6.91	-18.03
Actual sheer forward		138.64		145.90
Standard sheer forward		138.64		145.90 = 95%

Mean effective sheer ... = 18) 563.96
 Standard sheer .05 L + 5 = 27.35
 Difference (Df) ... = 3.98
 Allowance = $Df \times (\frac{S}{2L} - .75) = 3.98 \times (.75 - .5) = 1.00$
 If limited on account of amidship superstructure ... =
 If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... =

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required) =
Moulded Depth D = 31' 2"	Displacement = 14500	86.17
Stringer Plate = 31' 2 1/8"	Tons per inch = 49.50	Corrected for Coefficient $\frac{1.4328}{1.36} = 1.36$ = 90.78
Freeboard = 4' 4 1/4"		
Moulded draught = 26' 9 3/4"	$\frac{14500}{40} \times 49.50 = 7.32$	
Addition for keel below base line = 27' 0 1/8"		
Extreme draught = $\frac{26.8}{4} = 6.7, 6 3/4"$	7 1/4"	
		Correction for Depth ... 4.23
		" Superstructures ... 41.16
		" Sheer ... 1.00
		" Camber01
		" Thickness of deck ...
		" Scantlings, etc. ... 4.24
		Summer Freeboard = 52.86 - 52 3/4"

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line

Tropical Fresh Water Line (above center of Disc)	4' 4 1/8"	Upper Deck
Fresh Water Line	3' 2 1/2"	Tropical Fresh Water Freeboard
Tropical Line	3' 9 1/8"	Fresh Water
Winter Line (below ")	3' 10"	Tropical
Winter North Atlantic Line	4' 1 1/8"	Winter
		Winter North Atlantic



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Note:—The Rules referred to below are the Load Line Regulations of the United States Department of Commerce.
(These should be consulted when completing the report.)

Is the poop or raised quarter deck connected with the bridge? Complete Shelter Deck with tonnage opening
 Has the poop or raised quarter deck an efficient steel bulkhead at the fore end? Yes
 Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44). No Openings
 Has the bridge an efficient steel bulkhead at the fore end? -
 Give particulars of the means of closing the openings in this bulkhead. Yes
 Has the bridge an efficient steel bulkhead at the after end? Yes
 Give particulars of the means of closing the openings in this bulkhead. Storm boards in rivetted channels, full height
 Has the forecastle an efficient steel bulkhead at the after end? -
 Give particulars of the means of closing the openings in this bulkhead. -
 Are the engine and boiler openings covered by a bridge, poop, raised quarter-deck, or enclosed by a strong steel deckhouse? By the shelter deck
 If the openings are not so protected, are the exposed parts of the casing efficiently constructed? -
 Give thickness of plating, scantlings and spacing of stiffeners. -
 Are Rules Nos. 19, 20, 21 and 22 complied with (where applicable)? Yes

Particulars of bulkheads of erections:

	Poop or Raised Quarter-Deck bulkhead	Bridge front bulkhead	Bridge after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating			1/4	
Scantlings of stiffeners			3 x 2 1/2 x .38	
Spacing of stiffeners, and if bracketed			30" No brackets	
Height of sills of openings above deck			18"	

Particulars of weather deck hatchways. (In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges)

Position and Size.	No.1		No.2		No.3		No.4		No.5		No.6		No.7		No.8		T.O.	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	11"	
COAMING Thickness	Sides.....	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.50	
	Ends.....	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.50	
SHIFTING BEAMS OR WEB PLATES	Number.....	4	5	7	4	4	5	5	3	None								
	Section and Scantlings.....	4x3x.54																
	Material.....	Steel																
* FORE AND AFTERS	Number.....	Hatches on freeboard deck are exactly similar to those on																
	Section and Scantlings.....	Superstructure Deck except that comings are 9" high.																
	Material.....																	
HATCHES Thickness	2 3/4 Wood																	
Remarks																		

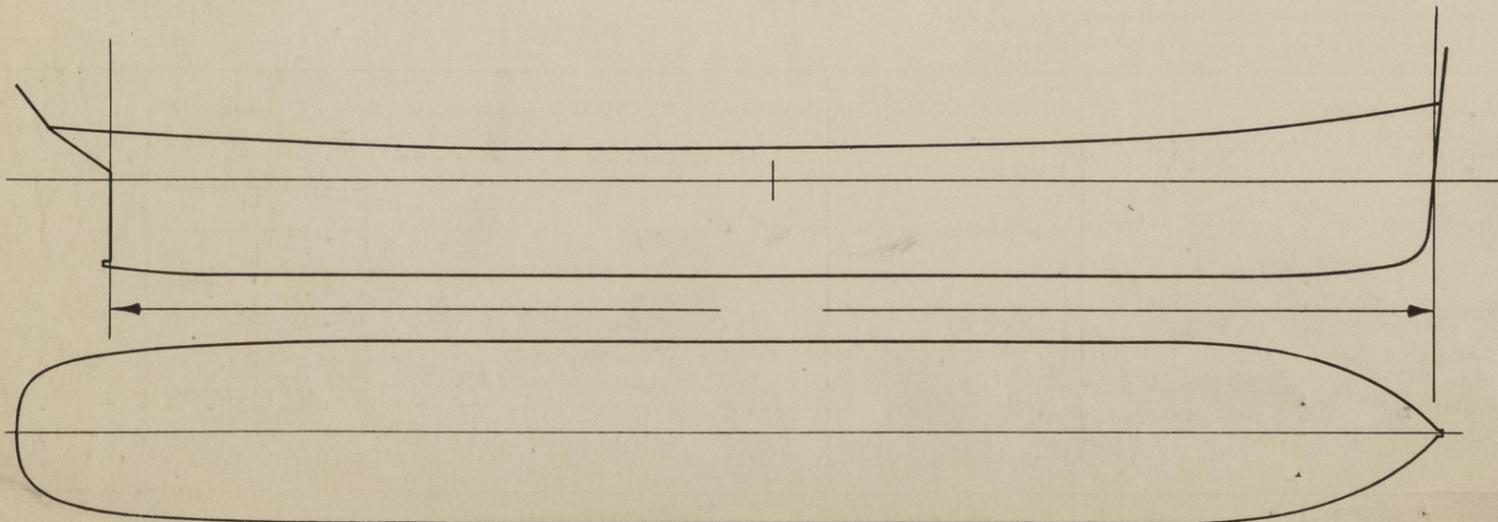
* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

Are Rules 12, 13, 14, 15, 16, 17, 18 complied with as far as practicable? Yes
 Are hatchway coamings stiffened in accordance with Rule 9? Yes
 Length of bulwarks in wells—forward: _____ feet; aft: _____ feet. Open Rails
 Area of freeing ports required by regulations (Rules 30 and 100) forward: _____ sq. ft.; aft: _____ sq. ft.
 No. Ft. X Ft. _____
 Particulars of freeing ports fitted { forward } _____ sq. ft. Open Rails
 on each side of vessel { after } _____ sq. ft. Open Rails

Are Rules 23 and 24 complied with as far as practicable? Yes
 Are air pipes to tanks in accordance with Rule 25? Yes
 Are all scuppers and sanitary discharge pipes in accordance with Rule 27? Yes

In oil tankers, what is the extent of the fore and aft gangway? - Are the crew berthed in the forecastle? (Rule 96) -
 Is the gangway strong and efficiently braced fore and aft? - State spacing of supports _____ feet. -
 In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100) -
 Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? -

If the vessel has a complete superstructure deck with a tonnage opening, is the latter fitted with efficient temporary covers? _____



Indicate thickness and extent of any deck covering, and extent of erections, with dimensions, showing overhang (if any). Indicate position of scuppers from tonnage-exempted spaces above freeboard deck.

Sister vessels: "Katrina Luckenbach", "F.J.Luckenbach"

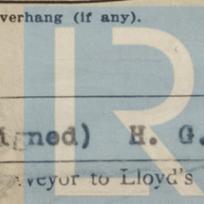
Fee: \$80.00

Expenses (if any) _____

(Signed) H. G. HOUSE

Surveyor to Lloyd's Register of Shipping.

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