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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"	Ship's Name.	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	$(D - \frac{L}{15}) \times R = (31.21 - 29.8) \times 3 = 4.23$		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 = $\frac{\text{Difference}}{L} \times (1 - \frac{S}{L}) = .01$.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	7.2 5			7.25

TOTAL =

Length of ship (L) =

% Covered... =

Corresponding %, corrected for absence of forecastle if required } A =

Allowance ... =

98.01

B =

42 × .9801

Correction for Bridge less than .2 L if required }

= - 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

Mean effective sheer ...

Standard sheer .05 L + 5 =

Difference (Df) ...

Allowance = $Df \times (\frac{S}{L} - .75) = 3.98 \times (.75 - .5)$

If limited on account of amidship superstructure ...

If limited on account of excess sheer (1½ in. per 100 ft.) ...

18) 563.96

= 31.33

= 27.35

= 3.98

= - 1.00

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

If excess sheer forward and deficient sheer aft

Actual sheer aft 1-52 -52 1-54.70 - 54.70

Standard sheer aft 3-23.11 -69.33 3-24.39 - 73.17

3-5.75 -17.31 3- 6.91 - 18.03

Actual sheer forward = 138.64

Standard sheer forward = 145.90

138.64 / 145.90 = 95%

Length of enclosed superstructure

L

Forward of amidships =

Aft of amidships =

DRAFTS.

Moulded Depth D =	31' 2" $\frac{1}{2}$ "
Stringer Plate = (or Wood Deck)	31' 2" $\frac{1}{2}$ "
Freeboard	4' 4" $\frac{1}{2}$ "
Moulded draught	26' 9" $\frac{3}{4}$ "
Addition for keel below base line	27' 0" $\frac{1}{2}$ "
Extreme draught	26.8 / 4 = 6.7, 6 $\frac{3}{4}$ "

F. W. ALLOWANCE

Displacement = 14500

Tons per inch = 49.50

14500 / 49.50 = 7.32

7 $\frac{1}{4}$ "

TABULAR FREEBOARD (corrected for flush deck if required) =

7528 + .68 = 1.4328

Corrected for Coefficient 1.36 = 1.36

Correction for Depth ... 4.23

" Superstructures ... 41.16

" Sheer ... 1.00

" Camber01

" Thickness of deck ...

" Scantlings, etc. ...

4.24 42.16 = 37.92

Summer Freeboard = 52.86 - 52 $\frac{3}{4}$ "

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Upper Deck:-

Tropical Fresh Water Line (above center of Disc)

Fresh Water Line " " "

Tropical Line " " "

Winter Line (below " ")

Winter North Atlantic Line " " "

Tropical Fresh Water Freeboard ...

Fresh Water " " "

Tropical " " "

Winter " " "

Winter North Atlantic " " "

4' 4" $\frac{1}{2}$ "
3' 2" $\frac{1}{2}$ "
3' 9" $\frac{1}{2}$ "
3' 10" $\frac{1}{2}$ "
4' 11" $\frac{1}{2}$ "

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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			<u>1/4</u>	
Scantlings of stiffeners			<u>3 x 2 1/2 x .38</u>	
Spacing of stiffeners, and if bracketed			<u>30" No brackets</u>	
Height of sills of openings above deck			<u>18"</u>	

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.)

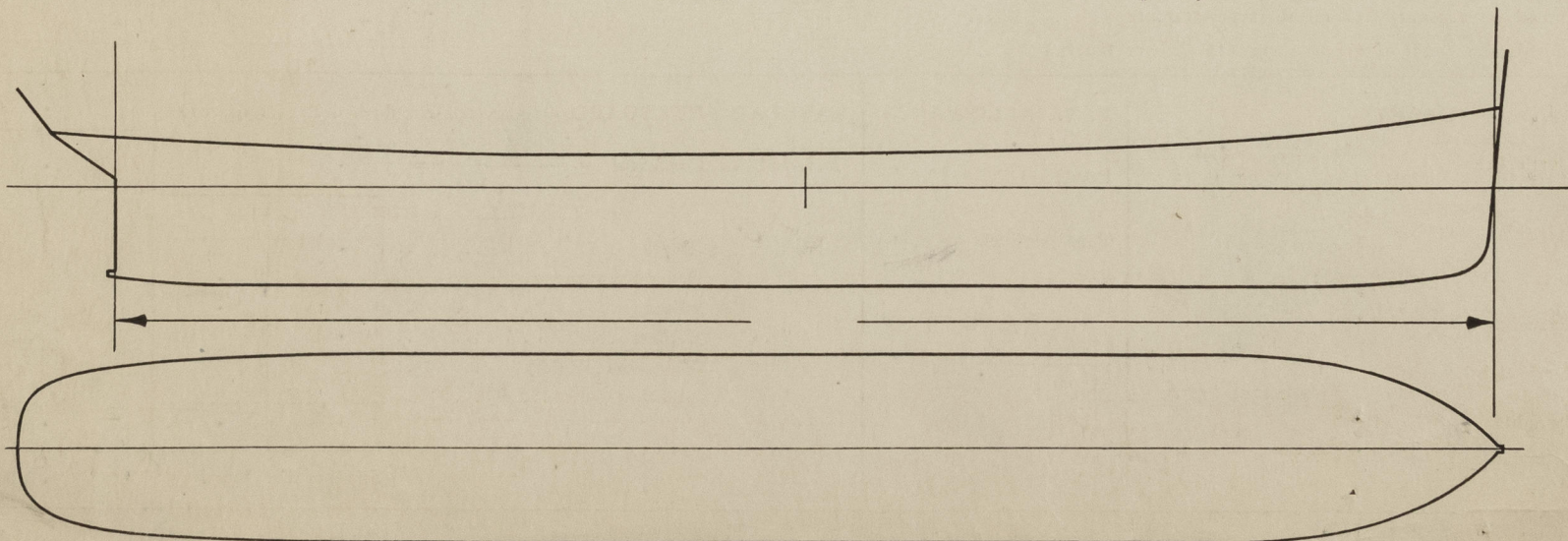
Class 2 appliances, or in open bridges, or in closed in bridge spaces closed by												
Position and Size.		No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	T.O.		
Position and Size.		22'6"x24'	28'6"x24'	36'x24'	24'x24'	24'x24'	3'x24'	27'x24'	15'x24'	4'x24'		
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	
COAMING.	Height above top of DECK	30"	30"	30"	30"	30"	30"	30"	30"	11"		
	Thickness	Sides.....	.62	.62	.62	.62	.62	.62	.62	.62	.50	
		Ends.....	.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.....		27x.44 Steel										
* FORE AND AFTERS.	Number.....	Hatches on freeboard deck are exactly similar to those on										
	Section and Scantlings.....	Superstructure Deck except that coamings are 9" high.										
	Material.....											
HATCHES Thickness							2 3/4					
Remarks							Wood					

* 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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Foundation