

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. 225.....

Port of Survey. Seattle, Wash.

Date of Survey. Jan. 7-12, 1936

Name of Surveyor. W. Smith....

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
S.S. <u>"E.I. LUCKENBACH"</u>	<u>NEW YORK U.S.A.</u>	<u>215800</u>	<u>5887</u>	<u>1918-2</u>	<u>+100 A1 Shelter Deck with Freeboard</u>
Number in Register Book.....					
Owner. <u>Luckenbach S.S. Co., Inc.</u>	Builder. <u>Bethlehem S.B. Corp.</u>				Hull No. <u>264</u>
Moulded dimensions <u>447</u> × <u>55.91</u> × <u>40.67</u>					(85% = <u>34.56</u>)
Moulded displacement at a moulded draught of 85 per cent. of moulded depth.....					<u>16600 @ 30' 6"</u>
Coefficient of fineness for use with tables... <u>.762</u>					

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER
Moulded depth	<u>40.66</u>	(a) When D is greater than $\frac{L}{15}$		Standard <u>55.91</u> × $\frac{12}{50}$ = ... <u>13.42</u>
Stringer plate ... <u>.59</u> ...	<u>.05</u>	$(D - \frac{L}{15}) \times R = (40.71 - 29.8) \times 10.91$	<u>+ 32.75</u>	Ship <u>14.00</u>
Sheathing in wells } $T(\frac{L-S}{L}) =$...		(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference <u>.58</u>
		$(\frac{L}{15} - D) \times R =$		Restricted to
Depth D = ...	<u>40.71</u>	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = - .15$

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S ₁ (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunks forward					
" aft					
Tonnage opening					

TOTAL =

Length of ship (**L**) =

% Covered... .. =

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

Allowance =

B =

×

Correction for Bridge less than .2 **L** if required }

=

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<u>2 8 0 0</u>	<u>5 4 7 0</u>	<u>2 8 0 0</u>	1	<u>2 8 0 0</u>
2	<u>2 0 0 0</u>	<u>2 4 3 9</u>	<u>2 0 0 0</u>	4	<u>8 0 0 0</u>
3	<u>- 5 5 0</u>	<u>6 0 1</u>	<u>- 5 5 0</u>	2	<u>- 1 1 0 0</u>
4	<u>-</u>	<u>-</u>	<u>-</u>	4	<u>-</u>
5	<u>2 0 0 0</u>	<u>1 2 0 2</u>	<u>1 2 0 2</u>	2	<u>2 4 0 4</u>
6	<u>5 7 0 0</u>	<u>4 8 7 8</u>	<u>4 8 7 8</u>	4	<u>1 9 5 1 2</u>
F.P. 7	<u>1 1 2 0 0</u>	<u>1 0 9 4 0</u>	<u>1 0 9 4 0</u>	1	<u>1 0 9 4 0</u>

Mean effective sheer

Standard sheer .05 **L** + 5 =

Difference (**Df**)

Allowance = **Df** × $(.75 - \frac{S}{2L}) = 7.71 \times .75$

If limited on account of amidship superstructure

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

18) 353.56

= 19.64

= 27.35

= 7.71

= + 5.78

If excess sheer forward and deficient sheer aft:—

Actual sheer aft

Standard sheer aft =

Actual sheer forward

Standard sheer forward =

Length of enclosed superstructure

L

Forward of amidships =

Aft of amidships =

Too big

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required) =	
Moulded Depth D = <u>40' 8"</u>	Displacement = <u>16600</u>	Corrected for Coefficient <u>.762</u> + <u>.68</u> = <u>1.442</u>	<u>92.87</u> (86.17)
Stringer Plate = (or Wood Deck) <u>40' 8 1/8"</u>	Tons per inch = <u>51</u>	<u>1.36</u>	<u>98.47</u>
Freeboard <u>10' 4 1/8"</u>			
Moulded draught <u>30' 3 1/8"</u>	<u>16600</u>	Correction for Depth <u>32.73</u>	
Addition for keel below base line <u>2"</u>	<u>40 × 51 = 8</u>	" Superstructures <u>5.78</u>	
Extreme draught <u>30' 5 1/8"</u>		" Sheer	
<u>30.48</u> = <u>7.62</u> = <u>7 1/2"</u>		" Camber	
		" Thickness of deck	
		" Scantlings, etc. To agree with B.O.T. (1906) freeboard assignment	
		<u>38.51</u> <u>12.23</u> <u>+ 26.28</u>	
		Summer Freeboard = <u>124.75</u>	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line Wood, Steel, Shelter Deck:—

Tropical Fresh Water Line (above center of Disc) 15 1/8"

Fresh Water Line " " 8"

Tropical Line " " 7 1/2"

Winter Line (below " ") 7 1/2"

Winter North Atlantic Line " " "

Tropical Fresh Water Freeboard

Fresh Water " "

Tropical " "

Winter " "

Winter North Atlantic " "

PREVIOUS B.O.T. (1906) FREEBOARD REASSIGNED BEING MORE FAVORABLE TO VESSEL.

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10' 4 1/8"

9' 8 1/8"

9' 9 1/8"

1' 0 1/8"

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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? **FLUSH DECK VESSEL**
Has the poop or raised quarter deck an efficient steel bulkhead at the fore end? **-**
Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44). **-**
Has the bridge an efficient steel bulkhead at the fore end? **-**
Give particulars of the means of closing the openings in this bulkhead **-**
Has the bridge an efficient steel bulkhead at the after end? **-**
Give particulars of the means of closing the openings in this bulkhead **-**
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? **Strong Steel Deck House**
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				
Scantlings of stiffeners				
Spacing of stiffeners, and if bracketed				
Height of sills of openings above deck				

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).

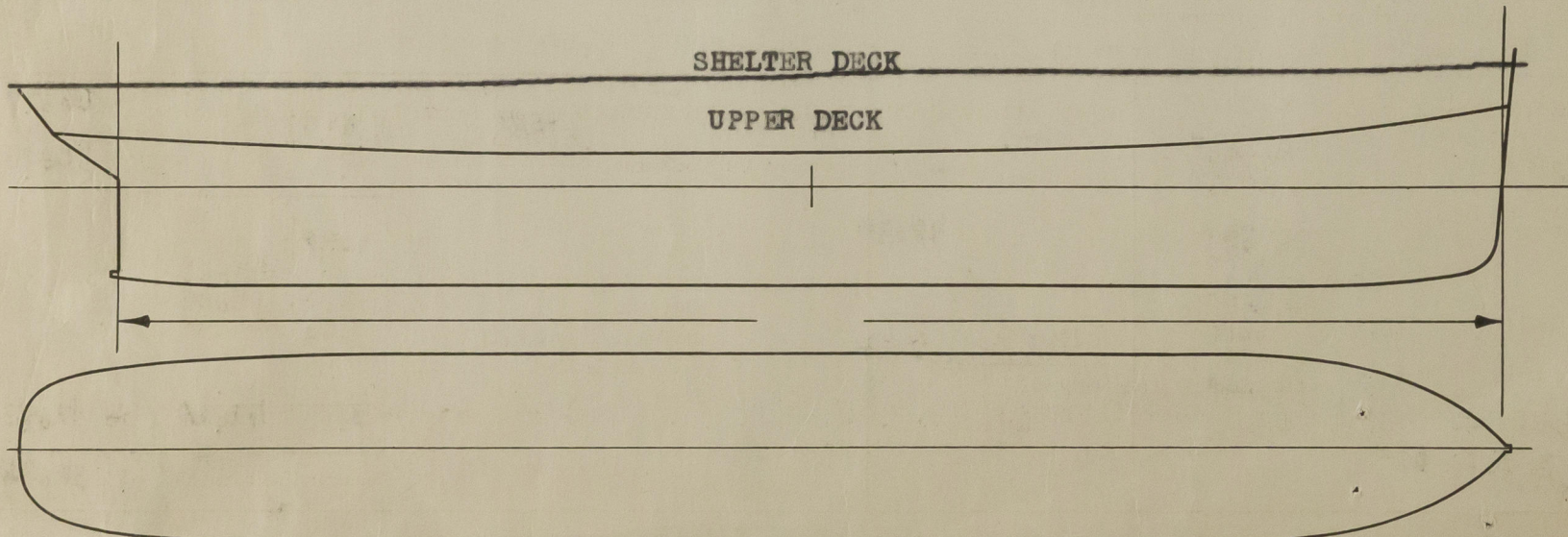
		No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8		
Position and Size.		22'6"x24'	28'6"x24'	36'x24'	24'x24'	24'x24'	30'x24'	27'x24'	15'x24'		
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	30"									
	Thickness	Sides.....	S A M E	A	S	N	U	M	B	E	R 1
		Ends.....									
SHIFTING BEAMS OR WEB PLATES.	Number.....	4	5	7	4	4	5	5	3		
	Section and Scantlings.....	27"x.44	S A M E	A	S	N	U	M	B	E	R 1
	Material.....	Steel									
* FORE AND AFTERS.	Number.....										
	Section and Scantlings.....			NO	FORE	AND	AFTERS				
	Material.....										
HATCHES	Thickness	2 3/4"	S A M E	A	S	N	U	M	B	E	R 1
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. × 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? **Y**



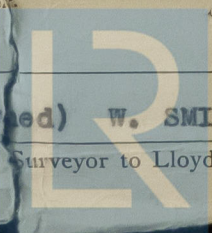
Indicate thickness and extent of any deck covering, and extent of erections, with dimensions, showing overhang (if any).
Indicate position of scuppers from tonnage-exempted spaces above freeboard deck.

Sister vessels: **"Katrina Luckenbach", "F.J. Luckenbach"**
Sea. A/c \$5.00
N.Yk. A/c \$3.70
Fee: **\$80.00**
Expenses (if any) _____

(signed) **W. SMITH**

Surveyor to Lloyd's Register of Shipping.

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