

Verification
"Macy" see letter to Secy 4/6/17
Report No. 502
FPI - JUL 1917
Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD - STEAM SHIPS.

REGULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED. WITH
GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED,
TOP GALLANT FORECASTLES HAVING LONG POOPS OR RAISED QUARTER DECK.

Ship's Name: *Josiah Macy*
Port of Registry and Nationality: *Bayonne, American*
Official Number: *✓*
Gross Tonnage: *✓*
Date of Build: *1917*
Particulars of Classification: *100A1 Carrying Petroleum in bulk. Longitudinal framing class contemplated*

LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
<i>419.45</i>	<i>54.0</i>	<i>29.82</i>	<i>6149.40</i>
<i>420.0</i>	<i>54.25</i>	<i>29.82</i>	<i>6154.91</i>
<i>420.0</i>	<i>54.23</i>	<i>31.02</i>	<i>6223.10</i>

Co-efficient of fineness..... *.835*
Any modification necessary [Para. 4 (a) to (e)]*
Co-efficient as corrected *.82 Highest in Table*

Shear at Stem..... *130*
at Sternpost... *62.5*
Mean *96.25*
Shear at $\frac{1}{2}$ of the length from Stem *71.5*
Sternpost *32.5*
Mean *52*
Gradual mean Shear *94.54*
Standard mean Shear [Table, Para. 18] *52.00*
Difference..... *42.54*
§ If limited as Para. 18 (f)..... *10 3/4*

Rise in Shear from amidships [Para. 18 (e)]
At front of bridge house.....
At after end of forecastle.....
Fall in Shear Para. 18 (d) $\div 2 =$
Length uncovered.....

ALLOWANCE FOR DECK ERECTIONS :-
Freeboard, Table C..... *5'-1"*
Correction for Length, if required (Para. 12, 13, and 14)..... *+ 3 1/4*
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14)..... *5'-4 1/4*
Difference..... *8.02*
Percentage as below..... *25.91*

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)..... *- 8 1/4*
Allowance for Deck Erections.....
Length.....
Length allowed.....
Height.....
Forecastle..... *37.0*..... *37.0*..... *8.0*
Bridge House..... *41.0*..... *38.75*..... *8.0*
Poop..... *97.75*..... *97.75*..... *8.0*
Total..... *173.50*..... *420.0*
Length of Ship.....
Corresponding percentage (Para. 12, 13, and 14)..... *25.91*

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line
Fresh Water Line above centre of Disc
Indian Summer Line " " "
Winter Line below " "
Winter North Atlantic Line " " "

Port of Survey: *Seattle Wash*
Date of Survey: *June 13th 1917*
Name of Surveyor: *John Whitehead*

Moulded Depth as measured..... *31.6*
32-8
2-10 assumed floor (?)
29-

CORRECTION FOR LENGTH.
Length of Ship on Loadline..... *420.0*
Length in Table..... *378.0*
Difference..... *42.0*
Correction for 10ft., Table A..... *1.3*
 \times Difference divided by 10..... *6.3*
If the length covered divide by 2..... *+ 6 1/4*

CORRECTION FOR IRON DECK.
Proportion covered, if less than $\frac{1}{10}$ the length covered..... *.413*
Thickness of usual wood deck, less stringer..... *3 1/2*
 $.413 \times 3.5 = 1.445 = 1 1/4$

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... *56.4*
Round of Beam..... *14"*
Normal round..... *14"*
Difference..... $\div 2 =$
Proportion of Deck uncovered (Para. 19).....

Freeboard, Table A..... *8'-5"*
Correction for Shear..... *- 10 3/4*
Correction for Length..... *7'-6 1/4*
Allowance for Deck Erections..... *+ 6 1/4*
Correction for Round of Beam..... *8.02*
Correction for fall in Shear (if any)..... *- 8 1/4*
Correction for Iron Deck (if required)..... *7.44*
Additions for non-compliance with provisions of Para. 11 (d) and (e) $\frac{1}{2}$
Other Corrections (if any).....

Winter Freeboard..... *4.3*
Summer Freeboard..... *6.92*
Indian Summer Freeboard..... *6.4*
N. A. Winter Freeboard.....
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the ~~wood~~ or iron deck with side..... *1 3/4*

Winter Freeboard from deck line..... *7.4 3/4*
Summer " " "..... *6.11 1/4*
Indian Summer " " "..... *6.5 3/4*
N. A. Winter " " "..... *6.11*
Deck :-
..... *6"*
..... *5 1/2*
..... *5 1/2*

If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the L.Q.D. is to be taken from the level of the top of the amidship beam.
In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern post. In vessels having poops and forecastles, it means the sheer measured at points distant one eighth of the vessel's length from stem and stern post.

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Do all the Frames extend to the top height in the Poop? *All frames extend to upper 8' in after peak. Longitudinal framing elsewhere.*

To what height do the Reverse Frames extend? *to upper 8' in after peak only.*

Has the Poop ~~Deck~~ *Bridge House* an efficient Iron Bulkhead at the fore end? *yes Plating 40 Coaming 44 Stiff 10x3 1/2 x 21 1/2 spaced 30" Bracket top & bottom*

Give particulars of the means for closing the openings in Bulkhead *No Opening*

Is the Poop ~~Deck~~ *Bridge House* connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *yes*

Give particulars of the means for closing the openings in Bulkhead *Steel plates hinged doors*

What is the thickness of the Bridge Front plating? *40* and Coaming plate? *44*

Give scantlings and spacing of the Stiffeners *15 4"x3 1/2 x 44 16 Spaced 30" Bracket top & bottom*

Are bracket plates fitted at each end of the Stiffeners? *yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *yes*

Has the Bridge House an efficient Iron Bulkhead at the after end? *yes*

How are the openings closed? *Steel plate, hinged doors*

Is the Forecastle at least as high as the main or top-gallant rail? *yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *yes*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Covered by a Poop*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *yes*

Give thickness of plating; scantlings and spacing of Stiffeners *yes*

What is the height of the exposed Casings? *yes* Are suitable means provided for closing all openings in them in bad weather? *yes*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:—

Position and Size.		Cargo Hold 9'-0" x 15'-0"		32 Oil tight hatchways each 4'-0" x 4'-0"		as per deck plan. Plate covers hinged	
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK		24	24	30"	30"		
Thickness	Sides.....	44	44	50	50	50	50
	Ends.....	44	44	50	50	50	50
SHITTING BEAMS OR WEB PLATES.	Number.....	One	One				
	Section and Scantlings.....	P 12"x32" A 3x3x1/2	P 12"x32" A 3x3x1/2	Nil	Nil		
	Material.....	Steel	Steel				
FORE AND AFTERS.	Number.....						
	Section and Scantlings.....	Nil	Nil	Nil	Nil		
	Material.....						
HATCHES Thickness.....		3	3	Hinged Steel plate cover		50	50
Remarks.....		Good	Good	Good		50	50

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? *Strake between Main and Bridge Sheerstrakes?*

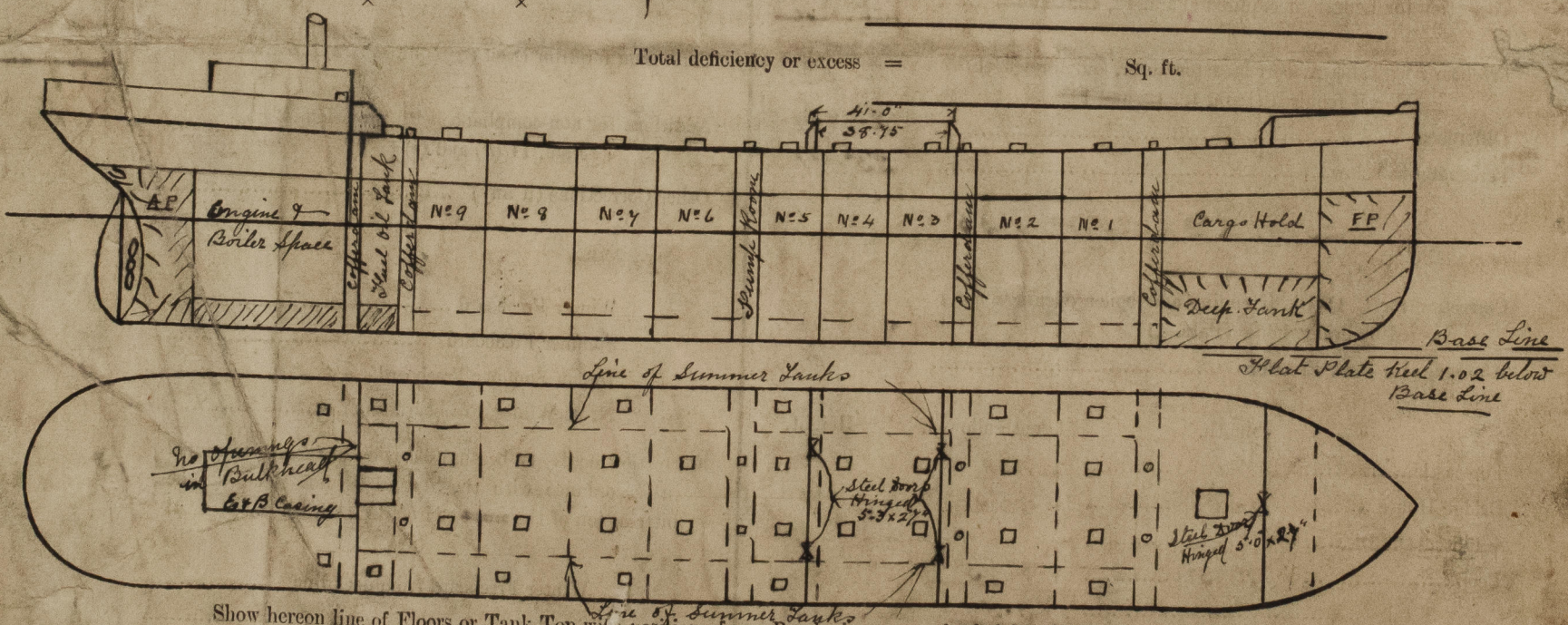
Delete the words *The Crew are, are not, berthed in the bridge house.*
 that do not apply *The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.*

Length of Bulwarks in well

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *Sq. ft.*

Ft. Tenths. Ft. Tenths. No. *Freeing Ports (each side of vessel) = Sq. ft.*

Total deficiency or excess = *Sq. ft.*



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *This vessel is built on the Longitudinal (Asherwood) System, as an Engineer & Sister Ship of "S. S. Harkness"*
See Freeboard Report No. 1

Owners
 Address

