

AMENDED

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name NEPTUNIA	Official Number	Nationality and Port of Registry PANAMANIAN PANAMA	Gross Tonnage 10519	Date of Build 1920	Port of Survey
Moulded Dimensions: Length 154.01 Breadth 17.98 Depth 11.636					Date of Survey 3/6/54
Freeboard Length D:					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 20255 M³					Particulars of Classification +100A1 Shelter Dh with 4bd.
Coefficient of fineness for use with Tables .740					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	11.636	(a) Where D is greater than Table depth (D - Table depth) R =	8.33(11.667 - 10.270) 30.00 = +349%	Moulded Breadth (B)	= 17.983
Stringer plate	.013			Standard Round of Beam = $\frac{B \times B}{50}$	= 360
Wood Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	= 254
$T \left(\frac{L-S}{L} \right) = .067 \times .27$.018			Difference	106
Depth for Freeboard (D) =	11.667	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S_1}{L} \right)$	= $\frac{106}{4} \times .319 = +8\%$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	13.08	13.08			13.08	Standard Height of Superstructure 2.286
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure 1067
" overhang						Percentage covered $\frac{S}{L} = 73.00$
Bridge enclosed	68.81	68.81			68.81	" " $\frac{S_1}{L} = 68.10$
" overhang aft						" " $\frac{E}{L} = 68.10$
" overhang forward						Percentage from Table, Line A.
Deck enclosed OPEN	30.52	22.96			22.96	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B. 59.77
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = $1067 \times .5977 = -638\%$
" " forward						
Total	112.41	104.85			104.85	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
...	1537	1	1537	956	956	1	956		
from A.P. ...	683	4	2732	337	337	4	1348		
" ...	171	2	342	-22	-22	2	-44		
amidships ...	0	4	0	0	0	4	0		
from F.P. ...	342	2	684	566	342	2	684		
" ...	1366	4	5464	1730	1366	4	5464		
...	3074	1	3074	3950	3074	1	3074		
Total			13833				11482		

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{2351}{18} (.75 - .365) = +50\%$

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **11.649**
 Summer freeboard = **2.885**
 Moulded draught (d) = **8.764**
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{48} = 183$

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 17902 \text{ M.Tons}$
 Tons per inch immersion at summer load water line
 $T = 23.52$
 Deduction = $\frac{\Delta}{40 T}$ inches
19%

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.68 + .740}{1.36} = \frac{1.42}{1.36}$

Depth Correction ...
 Deduction for superstructures ...
 Sheer correction ...
 Round of Beam correction ...
 Correction for Thickness of Deck amidships ...
 Other corrections, scantlings, etc. to correspond to the position of the lowest sidescuttle.

+	-
349	-
1	638
50	-
8	-
1	18
379	-
786	656

2638

2755

8.6.54

Summer Freeboard = 2885

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

Tropical Fresh Water Line above Centre of Disc ... **19.0%**
 Fresh Water Line " " ... **19.0**
 Tropical Line " " ... **NIL**
 Winter Line below " " ... **NIL**
 Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard ... **2.885**
 Fresh Water ... **2.885**
 Tropical ... **2.885**
 Winter ... **2.885**
 Winter North Atlantic ...

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Height of sill of lowest sidescuttle
above top of keel.

= 29'-3"

Max permissible moulded draught
corresponding to position of lowest
sidescuttle

= 28'-9" = 8.76444.

of ship

of sister ships

's name and yard number

For

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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Foundation