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Lloyd's Register of Shipping,

71, Fenchurch Street, E.C. 3.

11th October, 1934.

Dear Sirs,

M.

I beg to confirm the conversation which took place over the telephone today in further reference to the T.S.S. "NAPIER STAR", from which it is noted that the Owners now propose to delete the fourth deck in Nos. 1, 2 and 3 holds.

With regard thereto I have to inform you that where the fourth deck is omitted in the holds the existing 9" channel frames should be reinforced by a reverse bar $3\frac{1}{2}" \times 3\frac{1}{2}" \times .48"$, or alternatively a face plate $4\frac{1}{2}" \times .55"$.

The 9" bulb angles in the existing orlop tween decks should be reinforced by a reverse frame $4" \times 3\frac{1}{2}" \times .62"$ angle. These reverse angles to scarph the existing beam brackets at the third deck and the tank side brackets at the foot of the frames. The joint of the different sizes of reverse frames should be efficiently strapped.

In way of the panting frames the existing 12" channel frames should be reinforced by a reverse bar $3\frac{1}{2}" \times 3\frac{1}{2}" \times .48"$ angle to alternate frames, and the 9" bulb angle in the orlop tween decks should be reinforced by a reverse frame $7" \times 3\frac{1}{2}" \times .52"$ angle at every frame, forming a 12" girder.

The existing pillars in the holds could be utilised

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T.S.S. "NAPIER STAR"

with extension pieces of the same scantlings efficiently strapped at the joints for the extra length required. Reading from forward, the sizes of these pillars are :- No.1 hold 12" x .48", 15" x .57"; No.2 hold 16 $\frac{1}{2}$ " x .58", 16 $\frac{1}{2}$ " x .60", 19" x .67"; and No.3 hold 18 $\frac{1}{2}$ " x .66", 19" x .70", 18" x .60".

It will be necessary to reinforce the bulkhead stiffeners where the fourth deck is omitted, and it is thought this could best be done by leaving a beam space of plating with the existing beam at the level of the fourth deck. In conjunction with this plating web frames should be fitted in line with the existing quarter girders, i.e. two to each bulkhead. The sizes of these webs should be 27" x .40" at No.1 hold, and 32 $\frac{1}{2}$ " x .40" in the remaining holds, with face bars 12" x 3 $\frac{1}{2}$ " x .75" bulb angle, or equivalent, bracketed to the tank top and to the third deck and efficiently connected by a large diamond plate to the horizontal girder formed by the beam space of plating.

A plan showing the proposed alterations is awaited.

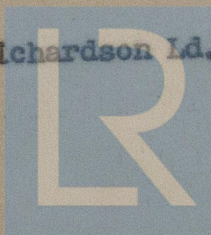
I am, Dear Sirs,

Yours faithfully,

Secretary.

Messrs. Swan, Hunter & Wigham Richardson Ltd.,

WALLSEND-ON-TYNE.



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