

T.S.S. "NAPIER STAR".

Messrs. Swan, Hunter & Wigham Richardson, Ltd. have telephoned to say that the Owners now propose to delete the fourth deck in Nos. 1, 2 and 3 holds, and they were informed of the alterations to the framing and pillars required.

In confirmation it is submitted they be informed as follows :-

Where the fourth deck is omitted in the holds the existing 9" channel frames to 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 to 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 to be efficiently strapped.

In way of the panting frames the existing 12" channel frames to 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 to be reinforced by a reverse frame $7" \times 3\frac{1}{2}" \times .52"$ angle every, forming a 12" girder.

The existing pillars in the holds could be utilised 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 $12" \times .48"$, $15" \times .57"$; No.2 hold $16\frac{1}{2}" \times .58"$, $16\frac{1}{2}" \times .60"$, $19" \times .67"$; and No. 3 hold $18\frac{1}{2}" \times .66"$, $19" \times .70"$, $18" \times .60"$.

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 $27" \times .40"$ at No. 1 hold, and $32\frac{1}{2}" \times .40"$ in the remaining holds, with face bars $12" \times 3\frac{1}{2}" \times .75"$

bulb angle, or equivalent, bracketed to the tank top and to the third deck and efficiently connected by a large diamond plate ~~where connected~~ to the horizontal girder formed by the beam space of plating.

As ^{stated} proposed by the Builders a plan shewing the proposed alterations is awaited.

L. S. H. & W. R.
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P.C. b hwe

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