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Original
Sent to Mr. Smith Auckland
for his personal guidance.



2nd April 1931.

Dear Mr. Smith,

"PUKOKO"

Having had time to look into the matter of new bulkhead on frame 40 on my way back here, after the hurried look we had at same when I was at the "Hauraki" in Auckland last week, I would now suggest in addition to the points I raised with you that you should see the Owner's Superintendent at the earliest opportunity and incorporate the following which or equivalent will ^{or may} be requested when you send plans for approval to London, these should be complete with all dimensions figured on.

Oil fuel tanks being on engine room side of this bulkhead, and fastened close to Bulkhead.

— On the hold side say about eight feet from bottom, a semi box beam might be fitted and electric tack welded where you cannot get rivets, say $21\frac{1}{2}$ " bread .32 thick with face angle to compensate for thin plating, and the vertical stiffeners now on bulkhead could be reinforced by a reverse bar, or by an intermediate angle stiffener say 4" x 3" x $8/20$ " up to height of say upper deck.

The matter of making all watertight will have to be done partly by electric welding.



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London may ask for a reverse bar on the vertical angle stiffeners now riveted on curved recess, which even with curved recess, appear light.

The bottom of vertical stiffeners now stopped short should be carried down to toes of boundary frame, lapped over existing stiffeners, and bracketed as per Rule.

I know this is an awkward case but do what you can, and I also know that the Owners you are dealing with have no time for work being done a second time.

Or what would be the better and proper procedure as London will now deal with this case, would be to send complete plans with all dimensions to London of this new bulkhead on frame ^{as fitted} 40, requesting minimum amendments to satisfy their requirements.

At the same time of sending plans to London, send a plan of engine seatings.

Is a hatch beam fitted in the middle of 10' x 10' hatchway on bridge deck.

With kind regards,

Sketches for guidance appended

Yours faithfully,

A. C. Heron

PRINCIPAL SURVEYOR TO LLOYD'S REGISTER.



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