

Messrs. Lithgow's "Y" type Emergency Programme Vessels

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Preliminary plan of fabricated stern frame  
submitted by the Glasgow Surveyors.  
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It is submitted the Surveyors be informed that the plan forwarded has been carefully examined, and it is considered that before the proposed arrangements could be recommended for approval a number of modifications will require to be made covering the following:-

- (1) The strength of both the propeller and rudder posts is not equal to the standard of the Rules, and practice of the Committee, and it is suggested that the form be modified more on the lines indicated in yellow on the sketch. The thicknesses will also require to be increased. The alteration in the form will also permit of ~~BETTER~~ ~~centre~~ riveting being obtained in the connections including the gudgeon attachments.
- (2) There is a deficiency in strength in the arch of the post and a suggestion as to how this can be met is also indicated on the sketch.
- (3) It is agreed that <sup>the</sup> attachment of the plate back post to the top casting is deficient, but this might be overcome by welding the upper edge.
- (4) The arrangement at the foot of the propeller post has the following undesirable features:-
  - (a) It will be extremely difficult to ensure a perfect fit of the plate post into the proposed recess of the sole piece casting.
  - (b) The ~~ABRUPT~~ change of section in way of the recess is liable to be a source of weakness. <sup>(c)</sup> when the riveted attachment is deficient, and further it is thought that

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considerable difficulty will be experienced in obtaining sound riveting. In these circumstances it is suggested the design at this part be reconsidered.

- (5) As in previous similar cases some of the horizontal diaphragms should be carried to the adjacent floor and be attached thereto to provide greater **RIGIDITY**
- (W) The Surveyors should discuss these matters with the Builders with a view to a modified plan being submitted.

*Dr. S.S. 40*  
*Amend. 13.3.40*  
*4 plans returned.*

*JRL*  
12th March, 1940.

*J.W.Y.*

*gd*



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