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Lloyd's Register of Shipping,

Enclosures.

71, Fenchurch Street, E.C. 3.

12th November, 1935.

Dear Sirs,

E. I duly received your letter of the 6th instant, with enclosures advised therein, relating to the Loeffler-Escher-Wyss HP Installation in the case of the s.s. "CONTE ROSSO", and I have to say that the remarks forwarded with your letter have been noted.

With reference to the torsion shaft shown on plan No.264542, you should inform Messrs.Cantieri Riuniti dell'Adriatico that the stress of 800 Kg. per sq. cm., or 11350 lb. per sq. inch, due to torsion is considered to be too high. The matter has been carefully examined, and, having regard to the fact that this machinery is auxiliary to the main and that the material is High Tensile Chrome Nickel Steel having a tensile strength of 75-85 Kg. per sq. mm., it is considered that a stress of not more than 8000 lb. per sq. inch = 563 Kg. per sq. cm., might be permitted. In this case, the diameter of the torsion shaft should be not less than 2.43" = 61.7 mm.

I return herewith two plans No.264542 of the torsion shaft.

With reference to the feed pump casing of



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cast iron, the Firm should be advised that it is the practice of this Society to require that turbine casings and similar parts be made of cast steel when subjected to temperatures exceeding 425°F. (218°C). The special quality of the cast iron for these turbine casings is noted, but this does not provide an assurance that the casings will not be liable to the deterioration associated with iron casings exposed to continuous high temperature, bearing in mind that the temperature of the steam is 300°C. Accordingly, it is considered that these casings should be made of cast steel, in accordance with usual practice. If, however, the Firm has had successful experience over long periods of the use of this pearlitic cast iron with superheated steam at the temperature and pressure in question, and will forward detailed particulars of their experience to this Office, the matter could be further considered.

I now confirm my cablegram to you on the subject which, decoded, reads as follows:-

"CONTE ROSSO REFERRING TO YOUR LETTER OF 6TH NOVEMBER  
FEED PUMP TURBINE CASING CAST STEEL PREFERRED IF  
CAST IRON DESIRED FIRM SHOULD FORWARD FULL PARTICULARS  
REGARDING THEIR EXPERIENCE PEARLITIC CAST IRON AT  
SIMILAR TEMPERATURES AND PRESSURES".

I am, Dear Sirs,

Yours faithfully,

The Surveyors,  
TRIESTE.



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