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Lloyd's Register of Shipping.

71, Fenchurch Street, E.C. 3.

5th April,1935.

Dear Sirs,

I duly received your letter of the 26th ultimo respecting the s.s."CONTE ROSSO", and with regard thereto, have to acquaint you that the proposal to remove one cylindrical boiler from this vessel and to fit in its place one Loeffler High Pressure Boiler, together with two Escher-Wyss Turbines coupled to the existing reduction gearing will be approved, provided the whole of the work be carried out to your entire satisfaction.

E.

The following plans will also be approved, viz:-

Connection of Exhaust Pipes.....182.171/2.
Arrangement of new installation.....182.171/1.
Loeffler Boiler.....182.171/3.
(Worh a working pressure of 130 kg. per sq. cm).
Evaporator Drum.....182.171/4.
(for a working pressure of 130 kg. per sq.cm).
Arrangement of boiler.....182.171/5.
Arrangement of Escher-Wyss Turbine..182.171/6.
Coupling of Escher-Wyss Turbine.....182.171/7.
Diagrammatic arrangement of
Loeffler boiler.....182.171/8.

I have to add that it is not clear from the plans whether the Escher-Wyss turbines are coupled to the H.P. 1st reduction pinion - as suggested by plans Nos.182.171/6 and 182.171/7 or to the H.P. 2nd reduction pinions, as suggested by plan No.182.171/[illegible] but I shall be

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glad if you will state to/which of these two pinions the new turbine gears are coupled.

With reference to the boiler evaporator drum, I have to point out that, for a working pressure of 130 kg. per sq. cm., the tensile strength of the material of this shell should not be less than 31.2 tons per sq. inch, and the sum of the tensile strength and elongation should not be less than 57. It is concluded that this drum is solid forged, but I shall be glad to learn if this is so. It is also recommended that the drum be constructed in accordance with the specification contained in Circular No.1514.

Detail plans showing the following parts should be submitted in due course, viz:-

(1). Headers of radiation superheaters.
(2). Headers of convection superheaters.
(3). Headers of economisers.
(4). Method of securing tubes in headers.
(5). Detail of evaporator drum end plate containing steam pipe drive.
(6). Detail of manhole door in end plate of evaporator drum.
(7). Details of steam pipes which are an integral part of the boiler.
(8). Plan showing details of Escher-Wyss turbine and gearing.
(9). Pipe arrangement showing scantlings and materials of pipes.

You should also state what is the proposed heating surface of this boiler and the proposed arrangement regarding safety valves, water gauges and blow down salinometer cock.

I shall be glad if you will advise the Society's Surveyors at Vienna and Winterthur in regard to

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s.s."CONTE ROSSO".

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steam generator and turbines to be used in this conversion.

Two sets of the plans, forwarded by you, are being returned under separate cover, the remaining plans being retained for reference.

I am, Dear Sirs,

Yours faithfully,

Secretary,

The Surveyors,

TRIESTE.

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