

Translation of letter dated 26/10/1935 No.UT/12571/4 from  
Cantieri Riuniti dell'Adriatico, Fabbrica Macchine S.Andrea,  
to Lloyd's Register of Shipping, Trieste.

"CONTE ROSSO".- Loeffler-Escher-Wyss Installation.

Following our letter UT/12290/4 of 21/10/1935  
we herewith beg to reply to yours of the 10th instant, having now  
received the necessary information from Messrs.Escher-Wyss.  
Material for feed pump turbine casing. We confirm quality of  
material as indicated in the enclosure of our above letter and  
we hope that in view of the special type of cast iron employed,  
your Society will have no difficulty in granting us the desired  
approval.

From our part we beg to add that cast iron turbine  
casings (also of ordinary cast iron) have already been made and  
with good result, also in cases of higher degree of superheating  
than that of the "CONTE ROSSO".

Torsion shaft for measurement of power.- Plan No.264.559.

This shaft is to be used exclusively for measuring  
the power during the trials and, as soon as these are finished,  
it will be replaced by the other shaft of 55 m/m diameter, shown  
on plan 264.542.

The diameter 37 m/m has been chosen in order to obtain  
the necessary accuracy in measuring the angle of twist. The  
material, a special chrome-silicon steel, has a minimum yield  
point of 125 kg/sq.mm and a breaking strength of 150/160 kg/sq.mm

Working torsional shaft. Plan No.264.542. Messrs. Escher Wyss  
refer<sup>to</sup> and confirm the information contained in our letter addressed  
to you on the 21st instant. Further they inform us that the





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results of the tests on the material in question are excellent indeed, being as follows:-

Yield point	kg/sq.mm	57.7 & 58.5
Breaking strength		77.7 & 78
Elongation on 5 diameters		27%

In view of these excellent results and of the explicit guarantee of Messrs. Escher-Wyss, which is based on the experience gained from a number of similar constructions, we shall be obliged if you will kindly reconsider the question.

Material for turbine blades. We give you below the information which we have received, viz:-

1st additional turbine:	stator blades V 5 M	-	rotor blades V 5 M
2nd	"	:	"
Feed pump turbines:	"	"	5% Nickel steel
Circulating pump turbine:	"	"	5% Nickel steel.

The tensile qualities of the materials mentioned above are as follows:-

	V 5 M	5% Nickel steel.
Yield point kg/sq.mm	minimum 40	minimum 38
Tensile strength "	60 - 70	55 - 65
Elongation on 10 diameters	minimum 16%	minimum 18%
Brinell Test	170 - 207	150 - 190

As requested we enclose a set of plans for your Winterthur Office.

We are, &c.

Cantieri Riuniti dell'Adriatico  
Fabbrica Macchine S.Andrea  
(Sgd) Crovetti (Sgd) Cibele

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