

Owners  
Yard

# Finska Elektriska Aktiebolaget.

Telegrafadress: ELEKTRISKA.

TELEFONER:

Kontoret N:o 28 30.

Fabriken i Sörnäs N:o 27 22.

*Helsingfors* den April 24th 1903.

Södra Magasinsgatan 2.

To the Surveyor Lloyds Register,

Middlesbro'.

Dear Sir,

Enclosed we have pleasure in handing you a new report on the electric light installation of the S/S Hectos, which report now is altered according to your wishes.

As to the insulation of the cables, we beg to state that the resistance is not more than 300 megohms per statute mile.

Our engineer told you he believed the insulation resistance of the wires would correspond to what is required in your rules, but neither gave nor could give you any guarantees in this respect. The mistake was made there-by that he did not observe you require the insulation resistance, mentioned in your rules, per statute mile not per kilometer.

We feel however fully convinced that in case cables are laid in protective tubes of insulation material, the same insulation resistance cannot be required as if the cables would be laid in iron tubes or wood casing, because if wood casing is used, moisture may run in and in the case of iron tubes contact with the iron may occur. Cables which are laid in protective tubes of insulation material are not equally exposed. The tubes are in every way watertight and are on the inner side made of insulation material which protect the cables from



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contact with the brass mantle. Besides the brass covered insulation tubes are further laid in a strong wood casing. To show that cables, which are laid in protective tubes of insulation material, are not considered to require a higher insulation resistance than 300 megohms per statute mile, we beg to say that works in Germany do not manufacture cables intended for these tubes, for a higher insulation resistance than the above, and the wires are however intended for a tension of 220 volt. On the steamers in question the tension is only 65 volt.

By the way we beg to mention that we are at present laying cables in a passenger steamer of middle size and also in this case we only use, by permission of the owners, cables with an insulation resistance of 300 megohms, although the cables are laid direct in wood and iron casings.

In consequence of the above we cannot but think that Lloyds Register of British and Foreign Shipping will approve <sup>of</sup> the installations onboard the Hectos and the <sup>other</sup> cargo steamers although the insulation resistance is not exactly the same as required by you.

Awaiting to hear from you, we remain

Yours very truly

FOR FINSKA ELEKTRISKA AKTIEBOLAGET.

*Gusta Hitting*

1 enclosure.



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Lloyd's Register  
Foundation

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