

Messrs. Bethlehem S.B. Co. Yard No.4327.

Electrical Equipment.

Petroleum in Bulk.

IT IS SUBMITTED the New York Surveyors be informed that the plans merit approval provided the amendments, indicated below, and also the remaining requirements of the Rules for Electrical Equipment, with special reference to Section 15, are complied with.

Amendments.

- (a) Single pole switches are shown controlling centre castle lights, mast lights, etc.; Section 15 of the Rules for Electrical Equipment requires double pole switches.
- (b) All outgoing circuits on distribution panels are required by the Rules for Electrical Equipment to be controlled by D.P. switches in addition to D.P. fuses; it is not clear whether D.P. switches are fitted.
- (c) Wiring in pump rooms and centre castle shelter deck space to be run in gastight tubing. It is not stated on the plans whether these cables are in gastight tube.
- (d) Ventilating fan motors are not permitted in the pump rooms; plans should be submitted indicating where these units will be mounted.
- (e) It is not clear whether isolating switches are provided for the fan motors.
- (f) The ship's feeder cables for the shore supply appear from the plan to be run directly above the galley range and in consequence are subject to abnormal ambient temperature variations. It should be pointed out that cables in the galley space will be subject to heat and steam and are therefore subject to rapid deterioration. In these circumstances a short circuit occurring in this space will be unprotected and overload protection at the shore connection terminals is considered necessary. With reference to the objection to fuses it should be pointed out there are

numerous other situations on these decks where fuses are fitted and the objection is difficult to appreciate; also the situation is well aft and away from tanks.

With reference to fuses in general it should be pointed out that no makers of American fuses are in the approved lists and it should be stated what types will be fitted in this instance.

(g) A plan should be submitted showing where the fathometer equipment (projector and receiver) will be mounted in the ship. These fittings are not permitted in pump rooms or cofferdams.

It should be pointed out that no exception will be taken to the use of twin or multicore cables. The Surveyors' attention should also be drawn to the fact that the sample cable they have submitted is V.I.R. insulated whereas the cables proposed on the plans are varnished cambric insulated and the reason for sending it is not apparent as it does not represent the type to be fitted.

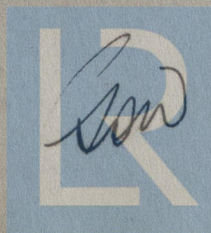
IT IS FURTHER SUBMITTED a cable be sent worded as follows:-

"Plans merit approval subject to double pole switches for centre castle space shelter deck lighting and flood lights. All outgoing circuits on distribution panels to have double pole switches. Wiring in pump rooms and centre castle shelter deck in gastight tubing. Ventilating motors not to be placed in pump rooms. Plans show varnished cambric cables but sample is rubber insulated!"

*Plans retained
by Electrical Surveyors.*

Lr 23/5

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Law. *at*
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20th May, 1938.

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