



METROPOLITAN-VICKERS ELECTRICAL CO. LIMITED

SUBSIDIARY OF
ASSOCIATED ELECTRICAL INDUSTRIES LIMITED



*Trafford Park
Manchester 17.*

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CAPTAIN H. VIVIAN

The Surveyors,
Lloyds Register of Shipping,
Union Bank Chambers,
230, Chapel Street,
SALFORD.

OUR REFERENCE

OUR REFERENCE Marine/CJS.
G.O.15707.

REFERENCE FOR TELEPHONES
Trafford Park 2431, Ext. 615.

31st July, 1933.

Dear Sirs,

EXHAUST STEAM TURBO ELECTRIC INSTALLATION FOR S.S. "CITY OF VENICE".

We duly received your letter of the 29th instant with reference to the cable arrangements, and in reply thereto would advise as follows.

The wiring of the alarm and interlock circuits consists of 0.003 sq.in. 3-strand conductor. The longest run is that to the propulsion motor temperature alarm, the distance being about 230 ft. The total resistance of this circuit, lead and return is therefore about 0.67 ohms and the short circuit current with 110 volts supply about 165 amps.

The permissible current for the above cable is 12 amps. (rubber covered). The maximum current of the generator separately excited field is 9.5 amps. With the arrangement we propose if the fuses have a continuous carrying capacity of 11 amps. and a 1-minute fusing current of 22 amps., they will comply with your Rules which allow for fuses having a fusing current not more than twice the capacity of the smallest cable protected. Such fuses, would of course, be entirely satisfactory as far as the generator field is concerned.

It would appear, therefore, permissible to retain the arrangement proposed and we trust to have your approval of it. We may add that the provision of separate heavy fuses for the essential circuits would minimise risk of failure due to fuse deterioration but would still leave it possible to run the plant with those fuses removed from their holders. This, we submit, is most undesirable since extensive damage might be caused due to the absence of warning.

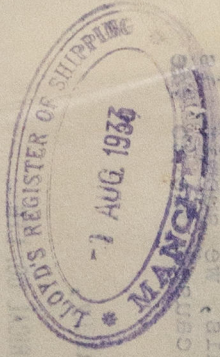
Yours faithfully,

METROPOLITAN-VICKERS ELECTRICAL CO. LTD.

All Tenders are made subject to our printed "Conditions of Sale," a copy of which is included with each Tender.

W236-0042

Deferred to the Chief Engineer Surveyor



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Foundation