

M.V. "NAVICELLA".

Newcastle Report No. 102524,  
dated 18.12.44.

↓ December

The Circular letter from the Secretary dated the 16th November, 1942 indicates that the current ratings for Pyrotenax cables are to be as specified in the Rules for Electrical Equipment for paper insulated cables. The mineral insulated Pyrotenax cables, as given in the above Report, comply with this requirement except in the case of the main generator 0.15 sq. inch cables, but under the heading of Maximum Current in Amperes, Rule Requirements, the Surveyors have entered values as stated in the cable makers' Catalogues.

With regard to the main generator 0.15 sq. inch cables, the Rules permit 246 amperes for paper cables, and the generator full load current is 272 amperes. In service the load on a generator rarely exceeds 85% of its rated full load current which, in the present instance, would result in a current of 231 amperes. Moreover, Pyrotenax cables will withstand satisfactorily temperatures considerably in excess of paper cables so that even if the current rose to 272 amperes for short periods there would be no deleterious results. In these circumstances, it is considered that the 0.15 sq. inch main generator Pyrotenax cables might be accepted in this instance.

IT IS SUBMITTED the Electrical Equipment merits the favourable consideration of the Committee.

IT IS FURTHER SUBMITTED that Report No. 102524 might be returned to the Newcastle Surveyors for correction of the current ratings permissible by the Rules. The Surveyors should be advised that in accordance with the Secretary's letter dated the 16th December, 1942 the permissible current ratings for Pyrotenax cables are as specified for paper insulated cables, but that in this instance no exception will be taken to the use of the main generator 0.15 sq. inch Pyrotenax cables.



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