

Original letter with: X

Copy of ~~Extract from~~ letter received from

NAME The Surveyors,

ADDRESS Buenos Aires.

Reference, if any:

Dated 10th Oct. Received 17th Oct. Answered

Vessel's Name: X "ISLAS ORCADAS"

We wish to advise you that two of the four (300 K.W. each) auxiliary generators of this vessel were required to be removed ashore for examination and repairs in consequence of breakdown under service conditions.

At the preliminary survey of both generators a considerable number of the copper plate connections from the armature conductors were found to be cracked or broken at the inner end of the commutator bars, with evidence of axial movement of the armature core on the spinder.

The Spider is being refitted, hardened up, keys renewed and welding as necessary, also all metallic connections from the commutator bars renewed of amended form to give more strength and flexibility. The commutators will be skimmed, polished and checked for balance.

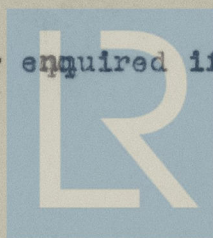
The generator ~~oil~~ engines, seatings, controls, flywheel coupling bolts etc. have not yet been examined.

It is stated that no trouble has been experienced with the remaining two generators of this vessel or any of the generators of the sister vessels, "ISLAS MALVINAS", and "ISLAS GEORGIAS".

The generators appear to be well constructed, and the damage therefore presumably due to some appreciable vibration being set up by the generator engines, the cause of the off-balance not yet determined. The coupling is solid and does not provide damping or torsional flexibility.

The Owners Supt. engineer enquired if these auxiliary

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generator units had been examined and tested by the Society's Surveyors at the makers works, and has requested us to furnish a special report certifying our findings, recommendations and opinion as to the cause of the damage sustained. No doubt this report is required in the event of the Owners having a claim on the builders under the liability guarantee clause.

In these circumstances we shall be obliged to receive your comments, and to learn if these generator sets were inspected by the Surveyors during manufacture and testing, also if calculations of the torsional vibration characteristics for the dynamic system formed by the engine and generators were submitted for consideration.



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