

MEMORANDUM

m.v. "GEORGIOS P" - Piraeus Rpt. No. 5544

The Rpt. 13 and the plans forwarded therewith are not consistent in regard to particulars of generator cables in that these cables are reported and shown respectively as follows:-

kW generators.

Main cables 2 x 19/.083 per pole (Reported)
1 x 50 mm² per pole (Shown)

Equaliser 1 x 19/.028 (Reported)
1 x 50 mm² (Shown)

18.4 kW generator.

Main cables 2 x 19/.064 per pole (Reported)
1 x 35 mm² per pole (Shown)

Equaliser 1 x 19/.028 (Reported)
1 x 35 mm² (Shown)

From the plans the 19/.083, 19/.064 and 19/.028 cables can be identified as 50, 35 and 6 mm² cables respectively and it would appear that the shunt field cables (6 mm² in all cases) have been incorrectly reported as the equaliser cables. As the cables reported elsewhere in the Rpt. 13 are consistent with the plans, it is concluded that the generator cables fitted are in accordance with the latter.

If such be the case the 43 kW generator cables are unacceptable being 1 x 50 mm² per pole with a current rating of 99 amps. compared with the generator full load current of 155 amps. Two 50 mm² cables in parallel per pole should be fitted or alternatively a single 95 mm² cable. The 18.4 kW generator cables as shown on the plans are considered such as could be accepted in this instance.

The undermentioned cables as reported and shown are also unacceptable being deficient in current carrying capacity in relation to the currents in the respective circuits and should be replaced by cables having the sectional areas shown hereunder:-

Circuit	Motor Current (amps) X	Cable Fitted		Minimum Acceptable Cable	
		Size (mm ²)	Rating (amps)	Size (mm ²)	Rating (amps)
H.P. Cargo					
up	121	35	78	70	125
H.P. Cargo					
ach Aft	97	25	63	50	99 115 (1/2 hr.)
H.P. Windlass	91	16	49	50	99 103 (1 hr.)

Motor currents per Table XIII of Rules for Electrical Equipment.

The remaining cable sizes as reported and shown are considered such as could be accepted, in this instance, and installation in other respects appears to be acceptable.

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The Piraeus Surveyor~~x~~ might be advised in
with the foregoing and his comments requested
the conclusion made in regard to the generator

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