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# SC1 Main source of electrical power

(1974)  
(Rev.1  
June 2002)

## Shaft driven generator systems (Regulation II-1/41.1.3)

Generators and generator systems, having the ship's main propulsion machinery as their prime mover, may be accepted as part of the ship's main source of electrical power, provided:

1. They are to be capable of operating under all weather conditions during sailing and during manoeuvring, also when the vessel is stopped, within the specified limits for the voltage variation in IEC 60092 - 301 and the frequency variation in UR E5.
2. Their rated capacity is safeguarded during all operations given under 1, and is such that in the event of any other one of the generators failing, the services given under Regulation II-1/41.1.2 can be maintained.
3. The short circuit current of the generator/generator system is sufficient to trip the generator/generator system circuit-breaker taking into account the selectivity of the protective devices for the distribution system.

Protection is to be arranged in order to safeguard the generator/generator system in case of a short circuit in the main bus bar. The generator/generator system is to be suitable for further use after fault clearance.

4. Standby sets are started in compliance with the paragraph 2.2 of SC 157.

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Note: 1.Changes introduced in Rev.1 are to be uniformly implemented by IACS Members and Associates from 1 January 2003.

