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# SC157 Main Source of Electrical Power

(June 2000)  
(Rev.1  
Feb 2005)

(Regulation II-1/41.5)

Interpretation of the clause "...will be maintained or immediately restored" as detailed in Reg. II-1/41.5.1.1 amending SOLAS Reg. II-1/41 - Main Source of electrical power and lighting systems.

1. Reg. II-1/41.5.1.1 - Where the main source of electrical power is necessary for propulsion and steering of the ship, the system shall be so arranged that the electrical supply to equipment necessary for propulsion and steering and to ensure safety of the ship will be maintained or immediately restored in case of loss of any one of the generators in service.

2. To fulfil the above the following measures are required:

2.1 Where the electrical power is normally supplied by more than one generator set simultaneously in parallel operation, provision of protection, including automatic disconnection of sufficient non-essential services and if necessary secondary essential services and those provided for habitability, should be made to ensure that, in case of loss of any of these generating sets, the remaining ones are kept in operation to permit propulsion and steering and to ensure safety.

2.2 Where the electrical power is normally supplied by one generator provision shall be made, upon loss of power, for automatic starting and connecting to the main switchboard of stand-by generator(s) of sufficient capacity with automatic restarting of the essential auxiliaries, in sequential operation if required. Starting and connection to the main switchboard of the stand-by generator is to be preferably within 30 seconds, but in any case not more than 45 seconds, after loss of power. Where prime movers with longer starting time are used, this starting and connection time may be exceeded upon approval from the society.

2.3 Load shedding or other equivalent arrangements should be provided to protect the generators required by this regulation against sustained overload.

2.3.1 The load shedding should be automatic.

2.3.2 The non-essential services, service for habitable conditions may be shed and where necessary, additionally the secondary essential services, sufficient to ensure the connected generator set(s) is/are not overloaded.

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Note: 1. This UI SC 157 is to be uniformly implemented by IACS Members and Associates from 1 January 2001.

2. Amendments introduced in Rev.1 are to be uniformly implemented from 1 January 2006.

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