

**Subpart 111.40—Panelboards****§ 111.40-1 Panelboard standard.**

Each panelboard must meet section 17.1 of IEEE 45-2002 (incorporated by reference; see 46 CFR 110.10-1).

[USCG-2003-16630, 73 FR 65197, Oct. 31, 2008]

**§ 111.40-5 Enclosure.**

Each panelboard must have a non-combustible enclosure that meets §§ 111.01-7 and 111.01-9.

[CGD 94-108, 61 FR 28279, June 4, 1996]

**§ 111.40-7 Location.**

Each panelboard must be accessible but not in a bunker or a cargo hold, except a cargo hold on a roll-on/roll-off vessel.

[CGD 94-108, 61 FR 28279, June 4, 1996]

**§ 111.40-9 Locking device.**

The door of each panelboard enclosure that is accessible to any passenger must have a locking device.

**§ 111.40-11 Numbered switching unit and panelboard directory.**

(a) Each panelboard switching unit must be numbered.

(b) Each panelboard must have:

(1) A circuit directory cardholder; and

(2) A circuit directory that has:

(i) The circuit designation of each circuit;

(ii) A description of the load of each circuit; and

(iii) The rating or setting of the overcurrent protective device for each circuit.

**§ 111.40-13 Rating.**

Each panelboard must have a current rating not less than the feeder circuit capacity.

**§ 111.40-15 Overcurrent device.**

The total load on any overcurrent device located in a panelboard must not exceed 80 percent of its rating if, in normal operation, the load will continue for 3 hours or more; except if the assembly, including the overcurrent device, is rated for continuous duty at 100% of its rating.

**Subpart 111.50—Overcurrent Protection****§ 111.50-1 Protection of equipment.**

Overcurrent protection of electric equipment must meet the following listed subparts of this chapter:

(a) Appliances, Subpart 111.77.

(b) Generators, Subpart 111.12.

(c) Motors, motor circuits, and controllers, Subpart 111.70.

(d) Transformers, Subpart 111.20.

**§ 111.50-2 Systems integration.**

The electrical characteristics of each overcurrent protective device must be compatible with other devices and its coordination must be considered in the design of the entire protective system.

NOTE TO § 111.50-2: The electrical characteristics of overcurrent protective devices may differ between standards. The interchangeability and compatibility of components complying with differing standards cannot be assumed.

[CGD 94-108, 61 FR 28279, June 4, 1996]

**§ 111.50-3 Protection of conductors.**

(a) *Purpose.* The purpose of overcurrent protection for conductors is to open the electric circuit if the current reaches a value that will cause an excessive or dangerous temperature in the conductor or conductor insulation. A grounded conductor is protected from overcurrent if a protective device of a suitable rating or setting is in each ungrounded conductor of the same circuit.

(b) *Overcurrent protection of conductors.* Each conductor must be protected in accordance with its current carrying capacity, except a conductor for the following circuits which must meet the following listed subparts of this chapter:

(1) Propulsion circuits, Subpart 111.35.

(2) Steering circuits, subchapter F of this chapter.

(3) Motor circuits, Subpart 111.70.

(4) Flexible cord and fixture wire for lighting circuits, Subpart 111.75.

(5) Switchboard circuits, Subpart 111.30.

(c) *Fuses and circuitbreakers.* If the allowable current-carrying capacity of the conductor does not correspond to a