

**§ 111.33-7 Alarms and shutdowns.**

Each power semiconductor rectifier must have a high temperature alarm or shutdown, except as provided in § 111.33-11.

**§ 111.33-9 Ventilation exhaust.**

The exhaust of each forced-air semiconductor rectifier system must:

- (a) Terminate in a location other than a hazardous location under Subpart 111.105 of this part; and
- (b) Not impinge upon any other electric device.

**§ 111.33-11 Propulsion systems.**

Each power semiconductor rectifier system in a propulsion system must meet sections 4/5D2.17.9 and 4/5D2.17.10 of ABS Rules for Building and Classing Steel Vessels or, for mobile offshore drilling units, section 4/3.84 of ABS Rules for Building and Classing Mobile Offshore Drilling Units.

[CGD 94-108, 61 FR 28279, June 4, 1996, as amended at 62 FR 23908, May 1, 1997]

### **Subpart 111.35—Electric Propulsion**

**§ 111.35-1 Electrical propulsion installations.**

Each electric propulsion system installation must meet sections 4/5D2.5, 4/5D2.11, 4/5D2.13, 4/5D2.17.8e, 4/5D2.17.9, and 4/5D2.17.10 of ABS Rules for Building and Classing Steel Vessels or, for mobile offshore drilling units, sections 4/3.79, 4/3.81, 4/3.83, and 4/3.84 of ABS Rules for Building and Classing Steel Vessels.

[CGD 94-108, 61 FR 28279, June 4, 1996, as amended at 62 FR 23908, May 1, 1997]

### **Subpart 111.40—Panelboards**

**§ 111.40-1 Panelboard standard.**

Each panelboard must meet section 23.1 of IEEE Std 45.

[CGD 94-108, 62 FR 23908, May 1, 1997]

**§ 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.