§ 183.354 Battery installations.

(a) Large batteries. Each large battery installation must be located in a locked, room or enclosed box solely dedicated to the storage of batteries. Ventilation must be provided in accordance with §111.15–10 in subchapter J of this chapter. Electrical equipment located within the battery enclosure must be approved by an independent laboratory for Class I, Division 1, Group B hazardous locations and meet §111.105 in subchapter J of this chapter.

(b) Small batteries. Each small battery installation must be located in a well ventilated space and protected from falling objects. A small battery installation must not be in a closet, store-room or similar space.

§ 183.360 Semiconductor rectifier systems.

(a) Each semiconductor rectifier system must have an adequate heat removal system that prevents overheating.

(b) Where a semiconductor rectifier system is used in a propulsion system or in other vital systems it must:
   (1) Have a current limiting circuit;
   (2) Have external overcurrent protection; and
   (3) Meet Sections 35.84.2 and 35.84.4 of the ABS Steel Vessel Rules (incorporated by reference; see 46 CFR 175.600) or other standard specified by the Commandant.

(c) Equipment grounding conductors must be sized in accordance with Section 250–96 of NFPA 70 (incorporated by reference; see 46 CFR 175.600), or other standard specified by the Commandant.

(d) Each insulated grounding conductor of a cable must be identified by one of the following means:
   (1) A green braid or green insulation;
   (2) Stripping the insulation from the entire exposed length of the grounding conductor; or
   (3) Marking the exposed insulation of the grounding conductor with green tape or green adhesive labels.

(e) Cable armor must not be used to ground electrical equipment or systems.

§ 183.366 Grounded distribution systems (neutral grounded).

(a) If a grounded distribution system is provided, there must be only one connection to ground, regardless of the number of power sources. This ground connection must be at the switchboard or at the common ground plate, which must be accessible.

(b) Each propulsion, power, lighting, or distribution system having a neutral bus or conductor must have the neutral grounded.

(c) The neutral of each grounded generation and distribution system must be grounded at the generator switchboard and have the ground connection accessible for checking insulation resistance of the generator to ground before the generator is connected to the