

§ 28.375

46 CFR Ch. I (10-1-07 Edition)

§ 28.375 **Emergency source of electrical power.**

(a) Each vessel must have an emergency source of electrical power which is independent of the main sources of electrical power and which is located outside the main machinery space.

(b) The emergency source of electrical power must be capable of supplying all connected loads continuously for at least 3 hours.

(c) Except as provided in paragraphs (d) and (e) of this section, the following electrical loads must be connected to the emergency source of power:

- (1) Navigation lights;
- (2) Steering systems;
- (3) Bilge pumps;
- (4) Fire protection and detection systems, including fire pumps;
- (5) Communication equipment;
- (6) General alarm system and;
- (7) Emergency lighting.

(d) A vessel less than 36 feet (11.0 meters) in length need only supply communication equipment by an emergency source of electrical power if flashlights are provided.

(e) A vessel less than 79 feet (24 meters) in length which is not dependent upon electrical power for propulsion, including propulsion control systems or steering, need only supply emergency lighting, navigation equipment, general alarm system, and communication systems by the emergency source of power.

(f) Where the emergency source of power is a generator, the generator prime mover must have a fuel supply which is independent of other prime movers.

[CGD 88-079; 56 FR 40393, Aug. 14, 1991; 56 FR 49822, Oct. 1, 1991]

§ 28.380 **General structural fire protection.**

(a) *Fire hazards to be minimized.* Each vessel must be constructed so as to minimize fire hazards insofar as is reasonable and practicable.

(b) *Combustibles insulated from heated surfaces.* An internal combustion engine exhaust, galley uptake, electrical heating tape, or similar source of ignition must be kept clear of and suitably insulated from combustible material. A dry exhaust system for an internal combustion engine on a wooden or fiber

reinforced plastic vessel must be installed in accordance with ABYC P-1.

(c) *Separation of machinery and fuel tank spaces from accommodation spaces.*

(1) Each accommodation space must be separated from machinery and fuel tank spaces by a fire resistant boundary which will prevent the passage of vapors.

(2) Each pipe and cable penetration between an accommodation space and a machinery or a fuel tank storage space must be sealed.

(d) *Paint and flammable liquid lockers.* Each vessel carrying paint and flammable liquids must be equipped with a steel or a steel lined storage locker.

(e) *Insulation.* Except as provided in paragraphs (e)(1) and (e)(2) of this section, insulation must be noncombustible.

(1) In machinery spaces, combustible insulation may be used for pipe and machinery lagging.

(2) In cargo spaces and refrigerated compartments of service spaces, combustible insulation may be used.

(f) *Vapor barrier.* Where insulation of any type is used in spaces where flammable and combustible liquids or vapors are present, e.g., machinery spaces and paint lockers, a vapor barrier which covers the insulation must be provided.

(g) *Paint.* Nitrocellulose or other highly flammable or noxious fume producing paints or lacquers must not be used on the vessel.

(h) *Mattresses.* Polyurethane foam mattresses are prohibited.

NOTE: The U.S. Department of Commerce Standard for Mattress Flammability (FF4-72.16) in 16 CFR part 1632, subpart A, applies to each mattress.

(i) *Fiber reinforced plastic.* When the hull, a deck, deckhouse, or superstructure of a vessel is partially or completely constructed of fiber reinforced plastic, the resin used must be fire retardant.

(j) *Cooking areas.* Vertical or horizontal surfaces within 0.9144 meters (3 feet) of cooking appliances must be composed of noncombustible material or covered by noncombustible material. Curtains, draperies, or free hanging fabrics are not permitted within