Coast Guard, DOT § 120.115

- (4) If acceptable to the cognizant OCMI, nonferrous metallic piping with a melting temperature above 927° C (1,700° F) may be used in vital systems that are deemed to be galvanically compatible; and
- (5) Other uses specifically accepted by the cognizant OCMI.
- (b) Where nonferrous metallic material is permitted for use in piping systems by this subpart, the restrictions in this paragraph apply:
- (1) Provisions must be made to protect piping systems using aluminum alloys in high risk fire areas due to the low melting point of aluminum alloys;
- (2) Provisions must be made to prevent or mitigate the effect of galvanic corrosion due to the relative solution potentials of copper, aluminum, and alloys of copper and aluminum, which are used in conjunction with each other, steel, or other metals and their alloys:
- (3) A suitable thread compound must be used in making up threaded joints in aluminum pipe to prevent seizing. Pipe in the annealed temper must not be threaded:
- (4) The use of aluminum alloys with a copper content exceeding 0.6 percent is prohibited; and
- (5) The use of cast aluminum alloys in hydraulic fluid power systems must be in accordance with the requirements of §58.30–15(f) in subchapter F of this chapter.

PART 120—ELECTRICAL INSTALLATION

Subpart A—General Provisions

Sec.

120.100 Intent.

120.115 Applicability to existing vessels.

Subpart B—General Requirements

120.200 General design, installation, and maintenance requirements.

120.210 Protection from wet and corrosive environments.

120.220 General safety provisions.

Subpart C—Power Sources and Distribution Systems

120.310 Power sources.

120.312 Power sources on vessels of more than 19.8 meters (65 feet) in length carrying more than 600 passengers or with

- overnight accommodations for more than 49 passengers.
- 120.320 Generators and motors.
- 120.322 Multiple generators.
- 120.324 Dual voltage generators.
- 120.330 Distribution panels and switchboards.
- 120.340 Cable and wiring requirements.
- 120.350 Batteries-general.
- 120.352 Battery categories. 120.354 Battery installation
- 120.354 Battery installations. 120.360 Semiconductor rectifier systems.
- 120.370 General grounding requirements.
- 120.372 Equipment and conductor grounding.
- 120.376 Grounded distribution systems (Neutral grounded).
- 120.378 Ungrounded systems.
- 120.380 Overcurrent protection.
- 120.390 Shore power.
- 120.392 Radiotelephone installations.

Subpart D—Lighting Systems

- 120.410 Lighting fixtures.
- 120.420 Navigation lights.
- 120.430 Portable lights. 120.432 Emergency lighting.
- 120.434 Lifeboat and liferaft floodlights on vessels of more than 19.8 meters (65 feet) in length with overnight accommodations for more than 49 passengers.

Subpart E—Miscellaneous Systems and Requirements

- 120.520 Lifeboat winches.
- 120.530 Hazardous areas.
- 120.540 Elevators.
- 120.550 General alarm systems.

AUTHORITY: 46 U.S.C. 2103, 3306; E.O. 12234, 45 FR 58801, 3 CFR, 1980 Comp., p. 277; 49 CFR 1.46.

SOURCE: CGD 85-080, 61 FR 928, Jan. 10, 1996, unless otherwise noted.

Subpart A—General Provisions

§ 120.100 Intent.

This part contains requirements for the design, construction, installation, and operation of electrical equipment and systems including power sources, lighting, motors, miscellaneous equipment, and safety systems.

§ 120.115 Applicability to existing ves-

(a) Except as otherwise required by paragraphs (b) and (c) of this section, an existing vessel must comply with the regulations on electrical installations, equipment, and material that were applicable to the vessel on March