§ 111.105–15 Additional methods of protection.

Each item of electrical equipment that is—

(a) A powder-filled apparatus must meet IEC 60079–5 (incorporated by reference; see 46 CFR 110.10–1);

(b) An oil-immersed apparatus must meet either IEC 79–6 (incorporated by reference; see 46 CFR 110.10–1) or Article 500.7(I) of NFPA NEC 2002 (incorporated by reference; see 46 CFR 110.10–1);

(c) Type of protection “e” must meet IEC 60079–7 (incorporated by reference; see 46 CFR 110.10–1);

(d) Type of protection “n” must meet IEC 60079–15 (incorporated by reference; see 46 CFR 110.10–1); and

(e) Type of protection “m” must meet IEC 60079–18 (incorporated by reference; see 46 CFR 110.10–1).

§ 111.105–17 Wiring methods for hazardous locations.

(a) Through runs of marine shipboard cable meeting subpart 111.60 of this part are required for all hazardous locations. Armored cable may be used to enhance ground detection capabilities. Additionally, Type MC cable may be used subject to the restrictions in §111.60–23.

(b) Where conduit is installed, the applicable requirements of either NFPA NEC 2002 (incorporated by reference; see 46 CFR 110.10–1) or the IEC 60079 series (as defined in §111.105–1 and incorporated by reference; see 46 CFR 110.10–1) must be followed.

(c) Each cable entrance into explosionproof or flameproof equipment must be made with approved seal fittings, termination fittings, or glands that meet the requirements of §111.105–9.

(d) Each cable entrance into Class II and Class III (Zone 10, 11, Z, or Y) equipment must be made with dust-tight cable entrance seals approved for the installation.

§ 111.105–19 Switches.

A switch that is explosionproof or flameproof, or that controls any explosionproof or flameproof equipment, under §111.105–19 must have a pole for each ungrounded conductor.

§ 111.105–21 Ventilation.

A ventilation duct which ventilates a hazardous location has the classification of that location. Each fan for ventilation of a hazardous location must be nonsparking.

§ 111.105–27 Belt drives.

Each belt drive in a hazardous location must have:

(a) A conductive belt; and