§ 160.176–6 Procedure for approval of design or material revision.

(a) Each change in design, material, or construction must be approved by the Commandant before being used in lifejacket production.

(b) Determinations of equivalence of design, construction, and materials may only be made by the Commandant.

§ 160.176–7 Independent laboratories.

A list of independent laboratories which have been accepted by the Commandant for conducting or supervising the following tests and inspections required by this subpart, may be obtained from the Commandant:

(a) Approval tests.

(b) Production tests and inspections.

(c) Inspection of approved servicing facilities.

(d) Testing of materials for the purpose of making the certification required by § 160.176–8(a)(3) of this part.

§ 160.176–8 Materials.

(a) General—(1) Acceptance, certification, and quality. All components used in the construction of lifejackets must meet the requirements of subpart 164.019 of this chapter.

(2) Condition of materials. All materials must be new.

(3) Temperature range. Unless otherwise specified in standards incorporated by reference in this section, all materials must be usable in all weather conditions throughout a temperature range of −30 °C to +65 °C (−22 °F to +150 °F).

(b) Weathering resistance. Each non-metallic component which is not suitably covered to shield against ultraviolet exposure must retain at least 40% of its strength after being subjected to 300 hours of sunshine carbon arc weathering as specified by Method 5804.1 of Federal Test Method Standard Number 191A.

(c) Fungus resistance. Each non-metallic component must retain at least 90% of its strength after being subjected to the mildew resistance test specified by Method 5762 of Federal Test Method Standard No. 191A when untreated cotton is used as the control specimen.

(d) Corrosion resistance. Each metal component must—

(i) Be galvanically compatible with each other metal part in contact with it; and

(ii) Unless it is expendable (such as an inflation medium cartridge), be 410 stainless steel, have salt water and salt air corrosion characteristics equal or superior to 410 stainless steel, or perform its intended function and have no visible pitting or other damage on any surface after 720 hours of salt spray testing according to ASTM B 117 (incorporated by reference, see §160.176–4).

(e) Materials not covered. Materials having no additional specific requirements in this section must be of good quality and suitable for the purpose intended.

(f) Fabric—(1) All fabric. All fabric must—

(i) Be of a type accepted for use on Type I life preservers approved under subpart 160.002 of this part; or

(ii) Meet the Type V requirements for “Fabrics for Wearable Devices” in UL 1191 except that breaking strength must be at least 400 N (90 lb.) in both directions of greater and lesser thread count.