Authority: 46 U.S.C. 3306, 3703, and 4302; E.O. 12234, 45 FR 58801, 3 CFR, 1980 Comp., p. 277; 49 CFR 1.46.

Subpart 160.077—Hybrid Inflatable Personal Flotation Devices

4. In § 160.077–1, paragraphs (b), (c) introductory text, and (d) are revised to read as follows:

§160.077-1 Scope.

* * * *

- (b) Under this chapter and 33 CFR part 175, certain commercial vessels and recreational boats may carry Type I, II, or III hybrid PFDs to meet carriage requirements. Type V hybrid PFDs may be substituted for other required PFDs if they are worn under conditions prescribed in their manual as required by § 160.077–29 and on their marking as prescribed in § 160.077–31. For recreational boats or boaters involved in a special activity, hybrid PFD approval may also be limited to that activity.
- (c) Unless approved as a Type I SOLAS Lifejacket, a hybrid PFD on an

inspected commercial vessel will be approved only—

- (d) A hybrid PFD may be approved for adults, weighing over 40 kg (90 lb); youths, weighing 23–40 kg (50–90 lb); small children, weighing 14–23 kg (30–50 lb); or for the size range of persons for which the design has been tested, as
- 5. Section 160.077–3 is redesignated as § 160.077–2, and in newly redesignated § 160.077–2, paragraphs (a), (h), and (j) are revised, and paragraph (l) is added to read as follows.

§160.077-2 Definitions

indicated on the PFD's label.

* * * * *

- (a) *Commandant* means the Chief of the Survival Systems Branch, U.S. Coast Guard, Office of Marine Safety, Security and Environmental Protection. Address: Commandant (G–MVI–3/14), U.S. Coast Guard Headquarters, 2100 Second Street SW., Washington, DC 20593–0001.
- (h) *Recreational hybrid PFD* means a hybrid PFD approved for use on a

recreational boat as defined in 33 CFR 175.3.

(j) Reference vest means a model AK-1, adult PFD; model CKM-1, child medium PFD; or model CKS-2, child small PFD, meeting the requirements of subpart 160.047 of this chapter, except that, in lieu of the weight and displacement values prescribed in Tables 160.047-4(c)(2) and 160.047-4(c)(2)4(c)(4), each insert must have the minimum weight of kapok and displacement as shown in Table 160.077–2(j). To achieve the specified volume displacement, front and back insert pad coverings may be larger than the dimensions prescribed by § 160.047-1(b) and the width of the front fabric envelope and height of the back fabric envelope may be increased to accommodate a circumference no greater than 1/4" larger than the filled insert circumference. As an alternative, unicellular plastic foam inserts of the specified displacement and of an equivalent shape, as accepted by the Commandant, may be substituted for

kapok inserts.

TABLE 160.077-2(j).—REFERENCE VEST MINIMUM KAPOK WEIGHT AND VOLUME DISPLACEMENT

| Reference PFD type | Front insert (2 each) | | Back insert | |
|---|--------------------------------|----------------------------|--------------------------------|---------------------------------|
| | Minimum kapok weight g (oz) | Volume displacement N (lb) | Minimum kapok weight g (oz) | Volume displace- ment N (lb) |
| Devices for adults, weight over 40 kg (90 lb): Type II, III, and V Recreational Devices for youths, weighing 23–40 kg (50–90 lb): | 234 (8.25) | 40±1 (9.0±0.25) | 156 (5.5) | 27±1 (6.0±0.25) |
| Type I | 184 (6.5) | 31±1 (7.0±0.25) | 170 (6.0) | |
| Type II, III, and V ¹ | 156 (5.5) | 26±1 (5.75±0.25) | 149 (5.25) | 24±1 (5.5±0.l25) |
| Type I | 128 (4.5) | 21±1 (4.75±0.25) | 156 (5.5) | 30±1 (6.5±0.25) |
| Type II | 100 (3.5) | 17±1 (3.75±0.25) | 135 (4.75) | 22±1 (5.0±0.25) |

¹ Both Recreational and Commercial.

* * * * *

(l) SOLAS lifejacket, in the case of a hybrid inflatable PFD, means a PFD approved as meeting the requirements for lifejackets in the 1983 Amendments to the International Convention for the Safety of Life at Sea, 1974 (SOLAS 74/83), in addition to the requirements of this subpart.

6. Section 160.077–5 is redesignated as § 160.077–3 and in newly redesignated § 160.077–3 paragraphs (a), (c)(1), and (c)(2) are revised to read as follows:

§160.077-3 Required to be worn.

(a) A Type V hybrid PFD may be used to meet the Coast Guard PFD carriage requirements of subpart 25.25 of this chapter, and 33 CFR part 175, only if the PFD is used in accordance with any requirements on the approval label.

PFDs marked "REQUIRED TO BE WORN" must be worn whenever the vessel is underway and the intended wearer is not within an enclosed space.

* * * (c) * * *

- (1) Each Type V recreational hybrid PFD.
- (2) Each Type V commercial hybrid PFD
- 7. Section 160.077–7 is redesignated as § 160.077–4 and is revised to read as follows:

§160.077-4 Type.

(a) A hybrid PFD that successfully passes all applicable tests may be approved as a Type I, II, III, or V for various size ranges of persons weighing over 23 kg (50 lb), as Type I or II for persons weighing 14–23 kg (30–50 lb) or

- as Type I or II for other sizes. A Type V PFD has limitations on its approval.
- (b) The approval tests in this subpart require each Type V hybrid PFD to have at least the same performance as a Type I, II, or III PFD for adult and youth sizes or Type I or II PFD for child sizes.
- (c) A hybrid PFD may be approved for use on recreational boats, commercial vessels or both if the applicable requirements are met.

§160.077-9 [Redesignated]

- 8. Section 160.077-9 is redesignated as § 160.077-5.
- 9. Section 160.077–11 is amended by revising paragraph (b)(1)(iii) and the heading of paragraph (j) to read as follows: