

**ANNEX 12**

**RESOLUTION MSC.323(89)  
(adopted on 20 May 2011)**

**ADOPTION OF AMENDMENTS TO THE REVISED RECOMMENDATION ON TESTING  
OF LIFE-SAVING APPLIANCES (RESOLUTION MSC.81(70))**

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

RECALLING ALSO resolution A.689(17) entitled "Testing of life-saving appliances", by which the Assembly, at its seventeenth session, adopted the Recommendation on testing of life-saving appliances,

RECALLING FURTHER that the Assembly, when adopting resolution A.689(17), authorized the Committee to keep the Recommendation on testing of life-saving appliances under review and to adopt, when appropriate, amendments thereto,

NOTING resolution MSC.81(70), by which, at its seventieth session, it adopted the Revised recommendation on testing of life-saving appliances, recognizing the need to introduce more precise provisions for the testing of life-saving appliances based on the requirements of the International Life-Saving Appliances (LSA) Code,

RECOGNIZING the need to harmonize amendments to the Revised recommendation on testing of life-saving appliances as adopted by resolutions MSC.200(80) and MSC.226(82),

HAVING CONSIDERED, at its eighty-ninth session, proposed amendments to the Revised recommendation on testing of life-saving appliances, prepared by the Sub-Committee on Ship Design and Equipment at its fifty-fourth session,

1. ADOPTS amendments to the Revised recommendation on testing of life-saving appliances (resolution MSC.81(70)), as amended, the text of which is set out in the Annex to the present resolution;
2. RECOMMENDS Governments to apply the annexed amendments when testing life-saving appliances.

ANNEX

**AMENDMENTS TO THE REVISED RECOMMENDATION ON  
TESTING OF LIFE-SAVING APPLIANCES  
(RESOLUTION MSC.81(70), AS AMENDED)**

**PART 1  
PROTOTYPE TESTS FOR LIFE-SAVING APPLIANCES**

**2 – LIFEJACKETS**

1 In paragraph 2.4, in the footnote, the term ":2006" is added after the referenced standard "ISO 12402-7".

2 Paragraph 2.10.4.1 is deleted and the following paragraphs are renumbered accordingly.

3 In the renumbered paragraph 2.10.4.1, the referenced ISO standards are amended as follows:

- .1 ISO 2411:1991 is replaced by ISO 2411:2000;
- .2 ISO 188 is replaced by ISO 188:2007;
- .3 ISO 4674:1977 is replaced by ISO 4674-1:2003 and ISO 4674-2:1998;
- .4 ISO 7854:1984 is replaced by ISO 7854:1995;
- .5 ISO 1421:1977 is replaced by ISO 1421:1998;
- .6 ISO 105-B02:1988 is replaced by ISO 105-B02:1994;
- .7 ISO 105-X12:1995 is replaced by ISO 105-X12:2001; and
- .8 ISO 105-E02:1978 may be replaced by ISO 105-E02:1994.

4 In the renumbered paragraph 2.10.4.3.2, in the fourth sentence, the word "show" is inserted after the word "should".

5 In the renumbered paragraph 2.10.4.5.1, the referenced standard "ISO 9227:1990" is replaced by the standard "ISO 9227:2006".

6 In the renumbered paragraph 2.10.4.6.1, in the sixth sentence, the word "points" is replaced by the words "be pointed".

7 In the renumbered paragraph 2.10.4.6.3, in the chapeau, the words "should be" are inserted after the word "lifejacket" and the word "access" is replaced by the word "assess".

**3 – IMMERSION SUITS, ANTI-EXPOSURE SUITS AND THERMAL PROTECTIVE AIDS**

8 The heading "*Flotation test*" is inserted before paragraph 3.1.7.

- 9 In paragraph 3.1.18:
- .1 in the first sentence, the reference to paragraph number "2.6.1" is replaced by "2.5.1" and the words "to the parts other than the lifting loop" are added at the end; and
  - .2 the following new sentence is inserted between the existing first and second sentences:  
  
"For the lifting loop strength test, a force of not less than 3200 N should be applied."

10 In paragraph 3.3.9, in the second sentence, the word "conductivity" is replaced by the word "conductance" and the term "0.25 W/(m·K)" is replaced by "7,800 W/(m<sup>2</sup>·K)".

#### **4 – PYROTECHNICS – ROCKET PARACHUTE FLARES, HAND FLARES AND BUOYANT SMOKE SIGNALS**

- 11 In paragraph 4.8.3:
- .1 in subparagraph 4.8.3.1, the word "blown" in the first sentence is replaced by the word "drawn" and the following sentence is inserted at the end of the subparagraph:  
  
"Smoke density should be at least 70% throughout the minimum emission time.";
  - .2 in subparagraph 4.8.3.2 and in the Note to the paragraph, the term "8.75 YR 6/14" is replaced by "8.75 R 6/14".

#### **5 – LIFERAFTS – RIGID AND INFLATABLE**

12 Paragraph 5.11 is replaced by the following:

##### **"5.11 Swamp test**

It should be demonstrated that the liferaft, when fully swamped, is capable of supporting its full equipment and the number of persons for which it is to be approved. It should also be demonstrated that the liferaft does not seriously deform in this condition."

13 In section 5.17, the referenced ISO standards are amended as follows:

- .1 ISO 1421 is replaced by ISO 1421:1998;
- .2 ISO 2411 is replaced by ISO 2411:2000;
- .3 ISO 4892-4:1994 is replaced by ISO 4892-4:2004;
- .4 ISO 4892-2 is replaced by ISO 4892-2:2006 with amendment 1:2009;
- .5 ISO 4675 is replaced by ISO 4675:1990;
- .6 ISO 7854 is replaced by ISO 7854:1995;

- .7 ISO 5978 is replaced by ISO 5978:1990; and
- .8 ISO 3011 is replaced by ISO 3011:1997.

## **6 – LIFEBOATS**

14 In paragraph 6.2.2, the references to paragraph numbers "2.7" and "2.7.6.3" are replaced by "2.6" and "2.6.6.3", respectively.

15 In paragraph 6.2.5, the references to paragraph numbers "2.7.5" and "2.7.8" are replaced by "2.6.5" and "2.6.7", respectively.

## **7 – RESCUE BOATS AND FAST RESCUE BOATS**

16 In paragraph 7.2.11, the words "full tank" are replaced by the words "fully filled fuel tank".

## **8 – LAUNCHING AND EMBARKATION APPLIANCES**

17 In paragraph 8.2.3, the referenced standard "ISO 3768:1976" is replaced by "ISO 9227:2006 – Corrosion tests in artificial atmospheres – Salt spray tests".

## **10 – POSITION INDICATING LIGHTS FOR LIFE-SAVING APPLIANCES**

18 In paragraph 10.1.2, the last sentence is amended to read as follows:

"The interior lights should provide an arithmetic mean luminous intensity of not less than 0.5 cd when measured over the entire upper hemisphere to permit reading of survival instructions and equipment instructions for a period of not less than 12 h."

19 In paragraph 10.2.2:

- .1 in the first sentence, the word "and" after the term "-1°C" is deleted and the words ", and the other should be taken from ordinary room condition and operated immersed in fresh water at ambient temperature" are added at the end of the sentence; and
- .2 at the beginning of the second sentence, the words "Both lights" are replaced by the words "All of the lights".

20 In section 10.4, the referenced standard "IEC 945: 3rd edition (November 1996)" is replaced by the standard "IEC 60945:2002".

## **13 – SEARCHLIGHTS FOR LIFEBOATS AND RESCUE BOATS**

21 In paragraphs 13.1 to 13.3, the referenced standards "IEC 945" and "IEC 447" are replaced by the standards "IEC 60945:2002" and "IEC 60447:2004", respectively.

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