Commission Directive 2014/93/EU of 18 July 2014 amending Council Directive 96/98/EC on marine equipment (Text with EEA relevance) (repealed)

COMMISSION DIRECTIVE 2014/93/EU

of 18 July 2014

amending Council Directive 96/98/EC on marine equipment

(Text with EEA relevance) (repealed)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Council Directive 96/98/EC of 20 December 1996 on marine equipment⁽¹⁾, and in particular Article 17 thereof,

Whereas:

- (1) For the purposes of Directive 96/98/EC, the international conventions and testing standards should apply in their up-to-date versions.
- (2) A number of amendments to the international conventions and applicable testing standards have entered into force since the adoption of the last amending act to Directive 96/98/EC. Those amendments should be incorporated into Directive 96/98/EC.
- Ouring the same period the International Maritime Organisation and the European standardisation organisations have also adopted standards, including detailed testing standards, for a number of items of equipment which are listed in Annex A.2 to Directive 96/98/EC or which, albeit not listed, are considered relevant for the purpose of that Directive. Therefore such items of equipment should be included in Annex A.1 or transferred from Annex A.2 to Annex A.1, as appropriate.
- (4) Directive 96/98/EC should therefore be amended accordingly.
- (5) It is reasonable to allow equipment newly subject to harmonised requirements under this Directive and manufactured before the expiry of the time-limit for the implementation of this Directive to be placed on the market and on board a Community ship during a transitional period.
- (6) The measures provided for in this Directive are in accordance with the opinion of the Committee on Safe Seas and the Prevention of Pollution from Ships (COSS),

HAS ADOPTED THIS DIRECTIVE:

Article 1

Annex A to Directive 96/98/EC is replaced by the text in the Annex to this Directive.

Article 2

Equipment listed in column 1 of Annex A.1 as having been transferred from Annex A.2 which was manufactured before 14 August 2015 in conformity with procedures for type-approval already in force before that date within the territory of a Member State may continue to be placed on the market and on board a Community ship until 14 August 2017.

Article 3

1 Member States shall adopt and publish, by 14 August 2015 at the latest, the laws, regulations and administrative provisions necessary to comply with this Directive. They shall forthwith communicate to the Commission the text of those provisions.

They shall apply those provisions from 14 August 2015.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

2 Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

Article 4

This Directive shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

Article 5

This Directive is addressed to the Member States.

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Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

ANNEX

ANNEX A

General note for : SOLAS Regulations refer to SOLAS consolidated version 2009.

Annex A

Annex A

General note for: Within certain item designations, column 5 shows some possible product variants under the same item designation. Product variants are independently provisioned and separated by a dotted lined from each other. For certification purpose only the relevant product variant shall be chosen, as appropriate (Example: A.1/3.3).

List of acronyms used

A.1, Amendment 1 concerning Standard Documents other than IMO.

A.2, Amendment 2 concerning Standard Documents other than IMO.

AC, Amending Corrigendum concerning Standard Documents other than IMO.

CAT, Category for radar equipment as defined in section 1.3 of IEC 62388 (2007)

Circ., Circular.

COLREG, International Regulations for Preventing Collisions at Sea.

COMSAR, IMO's Sub-Committee on Radiocommunications and Search and Rescue.

EN, European Standard.

ETSI, European Telecommunication Standardisation Institute.

FSS, International Code for Fire Safety Systems.

FTP, International Code for Application of Fire Test Procedures.

HSC, High Speed Craft Code.

IBC, International Bulk Chemical Code.

ICAO, International Civil Aviation Organization.

IEC. International Electro-technical Commission.

IGC, International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk.

IMO, International Maritime Organization.

ISO, International Standardisation Organisation.

ITU, International Telecommunication Union.

LSA, Lifesaving appliance.

MARPOL, International Convention for the Prevention of Pollution from Ships.

MEPC, Marine Environment Protection Committee

MSC, Maritime Safety Committee.

NOx, Nitrogen Oxides.

O₂/HC systems: Oxygen Hydro Carbon systems.

SOLAS, International Convention for the Safety of Life at Sea.

SOx, Sulphur Oxides.

Reg., Regulation.

Res., Resolution.

ANNEX A.1

EQUIPMENT FOR WHICH DETAILED TESTING STANDARDS ALREADY EXIST IN INTERNATIONAL INSTRUMENTS

Notes applicable to the whole of Annex A.1

- a) General: in addition to the testing standards specifically mentioned, a number of provisions, which must be checked during type-examination (type approval) as referred to in the modules for conformity assessment in Annex B, are to be found in the applicable requirements of the international conventions and the relevant resolutions and circulars of the IMO.
- b) Column 1: Article 2 of Commission Directive 2012/32/EU⁽²⁾ may apply. (8th Amendment of MED Annex A).
- c) Column 1: Article 2 of Commission Directive 2013/52/EU⁽³⁾ may apply. (9th Amendment of MED Annex A).
- d) Column 5: Where IMO Resolutions are cited, only the testing standards contained in relevant parts of the Annexes to the Resolutions are applicable and exclude the provisions of the Resolutions themselves.
- e) Column 5: International conventions and testing standards apply in their up-to-date version. For the purpose of identifying correctly the relevant standards, test reports, certificates of conformity and declarations of conformity shall identify the specific testing standard applied and its version.
- f) Column 5: Where two sets of identifying standards are separated by "or", each set fulfils all the testing requirements to meet IMO Performance Standards; thus testing to one of these sets is sufficient to demonstrate compliance with the requirements of the relevant International Instruments. Conversely, when other separators (comma) are used all the listed references apply.
- g) The requirements laid down in this annex shall be without prejudice to carriage requirements in the international conventions

1. Life-saving appliances

Column 4: IMO MSC/Circular 980 shall apply except when superseded by the specific instruments referred to in Column 4.

| No. | Item designation | Regulation SOLAS 74, as amended, where "type approval" is required | Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|-----|---------------------|---|---|----------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |

| A.1/1.1 | Lifebuoys - | - Reg. | Reg. — | IMO B + D |
|---------|------------------------|--------------------|----------------------|--|
| | | — III/4, — Reg. | III/7, Reg. | Res. B + E MSC S3 (7 6). |
| | | X/3. | III/34, | 1V15C. (621 (1710). |
| | | 11/3. | IMO , | |
| | | | Res. | |
| | | | MSC 36(63)- | |
| | | | (1994 | |
| | | | HSC | |
| | | | Code) | |
| | | | 8, IMO | |
| | | | Res. | |
| | | | MSC 48(66)- | |
| | | | (LSA | |
| | | | Code) | |
| | | | I, II, | |
| | | | IMO | |
| | | | Res. | |
| | | | MSC 97(73)- | |
| | | | (2000 | |
| | | | HSC | |
| | | | Code) 8. | |
| | | | | |
| A.1/1.2 | Position- | — Reg. | Reg. — | IMO B + D |
| | indicating | III/4, | III/7, | Res. B + E |
| | lights for life-saving | — Reg. X/3. | Reg. III/22, | MSC 83 (₹7 6). |
| | appliances: | Λ/3. | Reg. | |
| | (a) for | | III/26, | |
| | surviva | al | Reg | |
| | craft | | III/32, | |
| | and | | Reg. | |
| | rescue | | III/34, | |
| | boats, | | IMO | |
| | (b) for | | Res. | |
| | lifebuo (c) for | bys, | MSC 36(63)- (1994 | |
| | (c) for lifejacl | zets. | HSC | |
| | mejaci | KCt3. | Code) | |
| | | | 8, | |
| | | | IMO | |
| | | | Res. | |
| | | | MSC 48(66)- | |
| | | | (LSA | |
| | | | Code) | |
| | | | II, | |
| | | | IV, IMO | |
| | | | Res. | |
| | | | | |
| | | | | |
| | | | MSC 97(73)- (2000 | |

| | | | | HSC Code) 8. | | |
|---------|---|-----------------------|---|--|------|-----------------------------|
| A.1/1.3 | Lifebuoys self- activating smoke signals | Reg. III/4, Reg. X/3. | _ | Reg. — | Res. | B + D B + E \$3 (79). |
| A.1/1.4 | Lifejackets | Reg. III/4, Reg. X/3. | | Reg. — III/7, Reg. III/7, Reg. III/7, Reg. III/22, Reg. III/34, IMO Res. MSC 36(63)-(1994 HSC Code) 8, IMO Res. MSC 48(66)-(LSA Code) I, II, IMO Res. MSC 97(73)-(2000 HSC 1976) | Res. | B + D B + E 83 (76). |

| | | | _ | Code) 8, IMO MSC/ Circ.922, IMO MSC.1/ Circ.1304. | | |
|---------|---|--|---|---|------|-----------------------------|
| A.1/1.5 | Immersion suits and anti- exposure suits designed to be worn in conjunction WITH a lifejacket a) immer suit withou inhere insular b) immer suit with inhere insular c) anti exposus suits | nt int tion rsion nt tion | _ | Reg. — III/7, Reg. III/7, Reg. III/22, Reg. III/32, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.1046. | Res. | B + D B + E 83 (776). |
| A.1/1.6 | Immersion suits and anti- exposure suits designed to be worn WITHOUT a lifejacket a) immer suit withou inhere insulat | ut ent | _ | Reg. — III/7, Reg. III/22, Reg. III/32, Reg. III/34, IMO Res. MSC 36(63)-(1994 HSC | Res. | B + D B + E & (70). |

| | b) immersuit with inherinsula c) antiexpossuits | ent ation | | _ | Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/ Circ.1046. | | |
|---------|---|--------------|--------------------------------|---|---|------|-----------------------------|
| A.1/1.7 | Thermal protective aids | | Reg. III/4, Reg. X/3 | | Reg. — III/22, Reg. III/32, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.1046. | Res. | B + D B + E 83 (76). |
| A.1/1.8 | Rocket parachute flares (pyrotechnics) | _ | Reg. III/4, Reg. X/3. | _ | Reg. — III/6, Reg. III/34, | Res. | B + D B + E \$1 (70). |

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| | | | | _ | IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, III, IMO Res. MSC.97(73)- (2000 HSC Code) 8. | | |
|----------|--|---|--------------------------------|---|---|------|-------------------------------|
| A.1/1.9 | Hand flares (pyrotechnics) | | Reg. III/4, Reg. X/3. | | Reg. — III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, III, IMO Res. MSC.97(73)-(2000 HSC Code) 8. | Res. | B + D B + E SSI (7767). |
| A.1/1.10 | Buoyant smoke signals (pyrotechnics) | _ | Reg. III/4, Reg. X/3. | _ | Reg. — III/34, IMO Res. MSC 48(66)- (LSA Code) | Res. | B + D B + E \$1 (70). |

| | | | I, III. | | |
|----------|--------------------------|-----------------------|--|------|------------------------------|
| A.1/1.11 | Line-throwing appliances | Reg. III/4, Reg. X/3. | Reg. — III/18, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VII, IMO Res. MSC.97(73)-(2000 HSC Code) 8. | Res. | B + D B + E 83 (47 F). |
| A.1/1.12 | Inflatable liferafts | Reg. III/4, Reg. X/3. | Reg. — III/13, Reg. III/21, Reg. III/26, Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, | Res. | B + D B + E \$3 (7 f). |

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| | | | | _ | IMO Res. MSC.97(73)- (2000 HSC Code) 8, IMO MSC/ Circ.811. | | |
|----------|---|---|-----------------------|-------------|---|------|-----------------------------|
| A.1/1.13 | Rigid liferafts | | Reg. III/4, Reg. X/3. | | Reg. — III/21, Reg. III/26,— Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.\$11. | Res. | |
| A.1/1.14 | Automatically self-righting liferafts | _ | Reg. III/4, Reg. X/3. | _ _ _ | Reg. — III/26, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC | Res. | B + D B + E 83 (776). |

| | | | | _ | Code) 8, IMO Res. MSC 48(66)- (LSA Code) I, IV, IMO Res. MSC,97(73)- (2000 HSC Code) 8, IMO MSC/ | | |
|----------|-------------------------------|---|--------------------------------|---|--|------|----------------------------|
| | | | | _ | Circ.809, IMO MSC/ Circ.811. | | |
| A.1/1.15 | Canopied reversible liferafts | _ | Reg. III/4, Reg. X/3. | | Reg. — III/26, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) | Res. | B + D B + E 83 (76). |
| | | | | | 8, IMO Res. MSC 48(66)- (LSA Code) I, | | |
| | | | | | IV, IMO Res. MSC,97(73)- (2000 HSC Code) | | |
| | | | | _ | 8, IMO MSC/ Circ.809, | | |

| | | | _ | IMO MSC/ Circ.811. | |
|----------|---|--|---|--|---|
| A.1/1.16 | Float-free arrangements for liferafts (hydrostatic release units) | — Reg. III/4, Reg. X/3. | | Reg. — III/13, Reg. III/26, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, | IMO Res. B + D Res. B + E MSC 83 (776). |
| | | | _ | IMO Res. MSC 48(66)- (LSA Code) I, IV, IMO Res. | |
| | | | _ | MSC 97(73)- (2000 HSC Code) 8, IMO MSC/ Circ.811. | |
| A.1/1.17 | Lifeboats: (a) Davit launc lifebo — (b) Free-fall lifebo | hed Reg. ats: X/3. partially enclosed, totally enclosed. | _ | Reg. — III/21, Reg. III/31,— Reg. III/34, IMO Res. MSC 36(63)- (1994 HSC Code) 8, IMO Res. MSC 48(66)- (LSA Code) | IMO B + D Res. B + F MSC & (70), IMO MSC/ Circ. 1006. |

| | | | | _ | I, IV, IMO Res. MSC 97(73)- (2000 HSC Code) 8, IMO MSC 1/ Circ. 1423. | | |
|----------|-----------------------|---|-----------------------|---|---|------|--|
| A.1/1.18 | Rigid rescue boats | | Reg. III/4, Reg. X/3. | | Reg. — III/21, Reg. III/31, — Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, V, IMO Res. MSC.97(73)-(2000 HSC Code) 8. | Res. | |
| A.1/1.19 | Inflated rescue boats | _ | Reg. III/4, Reg. X/3. | | Reg. — III/21, Reg. III/31,— Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, | Res. | |

| | | | | _ | IMO Res. MSC 48(66)- (LSA Code) I, V, IMO Res. MSC 97(73)- (2000 HSC Code) 8. | | |
|----------|---|----|-----------------------|-------------|---|------|----------------------------------|
| A.1/1.20 | Fast rescue boats: (a) inflat (b) rigid (c) rigid-inflat | ed | Reg. III/4. | _ _ _ | Reg. — III/26, Reg. III/34,— IMO Res. MSC. 48(66)- (LSA Code) I,V, IMO MSC/ Circ. 1016, IMO MSC/ Circ. 1094. | Res. | 1006, |
| A.1/1.21 | Launching appliances using falls (davits) | | Reg. III/4, Reg. X/3. | _ | Reg. — III/23, Reg. III/33, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VI, IMO Res. MSC.97(73)- | Res. | B + D B + E SS (476). G |

| | | | | (2000 HSC Code) 8. | | |
|----------|--|----------|---|---|------|---------------------------------|
| A.1/1.22 | Float free launching appliances for survival craft | Moved to | A.2/1.3 | | | |
| A.1/1.23 | Launching appliances for free-fall lifeboats | I | Reg. — III/4, Reg. — X/3. — — — — — — — | Reg. — III/16, Reg. III/23, Reg. III/33, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VI, IMO Res. MSC.97(73)-(2000 HSC Code) 8. | Res. | B + D B + E 83 (70). G |
| A.1/1.24 | Liferaft launching appliances (Davits) | I | Reg. — II/4, Reg. — X/3. — | Reg. — III/12, Reg. III/16, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, | Res. | B + D B + E 81 (70). G |

| | | | | _ | IMO Res. MSC 48(66)- (LSA Code) I, VI, IMO Res. MSC 97(73)- (2000 HSC Code) 8. | | |
|----------|---|-----------------------|-----------------------|------|---|------|---------------------------------|
| A.1/1.25 | Fast rescue boat launching appliances (Davits) | | Reg. III/4. | | Reg. — III/26, Reg. III/34, IMO Res. MSC.48(66)- (LSA Code) I, VI. | Res. | B + D B + E 83 (70). G |
| A.1/1.26 | Release mechanism for (a) Lifeb and rescu boats (laund by a fall or falls) (b) Lifer (laund by a fall or falls) | oats e ched | Reg. III/4, Reg. X/3. | _ | Reg. — III/16, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, VI, IMO Res. MSC.97(73)-(2000 HSC Code) 8, | Res. | B + D B + E 83 (76). |

| | | | | _ | IMO MSC 1/ Circ. 1419. | |
|----------|---------------------------|---|--|---|---|--|
| A.1/1.27 | Marine evacuation systems | | Reg. III/4, Reg. X/3. | | Reg. — III/15, Reg. III/26, Reg. III/26, Reg. III/34, IMO Res. MSC 36(63)-(1994 HSC Code) 8, IMO Res. MSC 48(66)-(LSA Code) I, VI, IMO Res. MSC 97(73)-(2000 HSC Code) 8. | IMO B + D Res. B + F MSC. €1(70). |
| A.1/1.28 | Means of rescue | | Reg. III/4. | | Reg. — III/26, Reg. III/34,— IMO Res. MSC.48(66)- (LSA Code) I, VI. | IMO B + D Res. B + F MSC.81(70), IMO MSC/ Circ.810. |
| A.1/1.29 | Embarkation ladders | _ | Reg. III/4, Reg. III/11 Reg. X/3. | , | Reg. — III/11, Reg. III/34,— IMO Res. MSC 36(63)- (1994 HSC Code), | IMO B + D Res. B + F MSC 81(70), ISO 5489 (2008). |

| | | | _ | IMO Res. MSC 48(66)- (LSA Code), IMO Res. MSC 97(73)- (2000 HSC Code), IMO MSC 1/ Circ. 285. | |
|----------|--|---------------------------|----------|--|---|
| A.1/1.30 | Retro-reflective materials | — Reg. III/4, — Reg. X/3. | | Reg. — III/34, IMO Res. MSC 36(63)- (1994 HSC Code) 8, IMO Res. MSC 48(66)- (LSA Code) I, IMO Res. MSC 97(73)- (2000 HSC Code) 8. | IMO B + D Res. B + E A.658(16)F |
| A.1/1.31 | Survival craft two-way VHF radio telephone apparatus | Moved to A.1/ | 5.17 and | A.1/5.18 | , |
| A.1/1.32 | 9 GHz SAR transponder (SART) | Moved to A.1/ | 4.18 | | |
| A.1/1.33 | Radar reflector for lifeboats and rescue boats (passive) | — Reg. III/4, — Reg. X/3. | | Reg. — III/34, IMO Res A.384(X), IMO Res. | EN B + D ISO B + E 8729 B + F (1998), EN 60945 (2002) |

| | | | | | 36(63)- | including |
|----------|----------------------------|----------------|-------------|-------------|---------------------|------------------|
| | | | | (1994 | | IEC |
| | | | | HSC | | 60945 |
| | | | | Code) | | Corrigendum 1 |
| | | | _ | 8, IMO | | (2008). |
| | | | | Res. | Or, | (2000). |
| | | | | | 18 (66)- | EN |
| | | | | (LSA | , , | ISO |
| | | | | Code) | | 8729 |
| | | | | I, | | (1998), |
| | | | | IV, | | IEC |
| | | | | V, | | 60945 |
| | | | _ | IMO Res. | | (2002) including |
| | | | | | 97(73)- | IEC |
| | | | | (2000) | 71(13) | 60945 |
| | | | | HSC | | Corrigendum |
| | | | | Code) | | 1 |
| | | | | 8, | | (2008). |
| | | | | IMO | Or, | |
| | | | | Res. | _ | ISO |
| | | | | MSC. | 164(78). | |
| | | | | | | (2010), |
| | | | | - | | EN 60945 |
| | | | | | | (2002) |
| | | | | | | including |
| | | | | | | IEC |
| | | | | | | 60945 |
| | | | | | | Corrigendum |
| | | | | | | 1 |
| | | | | | | (2008). |
| | | | | | Or, | |
| | | | | - | | ISO |
| | | | | | | 8729-1 |
| | | | | | | (2010), IEC |
| | | | | | | 60945 |
| | | | | | | (2002) |
| | | | | | | including |
| | | | | | | IEC |
| | | | | | | 60945 |
| | | | | | | Corrigendum |
| | | | | | | 1 |
| | | | | | | (2008). |
| A.1/1.34 | Compass for | Moved to A.1/4 | 4.23 | | | |
| | lifeboats and rescue boats | | | | | |
| A.1/1.35 | Portable | Moved to A.1/2 | 3.38 | | | |
| | fire — | | | | | |
| | extinguishing | | | | | |
| | | | | | | |

| | equipment for lifeboats and rescue boats | | | | | | |
|----------|---|---|--------------------------------|---|---|------|-----------------------------|
| A.1/1.36 | Lifeboat/ rescue boat propulsion engine | _ | Reg. III/4, Reg. X/3. | _ | Reg. — III/34, IMO Res. MSC.48(66)- (LSA Code) IV, V. | Res. | B + D B + E 83 (76). |
| A.1/1.37 | Rescue boat propulsion engine- outboard motor | _ | Reg. III/4, Reg. X/3. | _ | Reg. — III/34, IMO Res. MSC 48(66)- (LSA Code) V. | Res. | B + D B + E 81 (70). |
| A.1/1.38 | Searchlights for use in lifeboats and rescue boats | | Reg. III/4, Reg. X/3. | _ | Reg. — III/34, IMO Res. MSC,36(63)-(1994 HSC Code) 8, IMO Res. MSC,48(66)-(LSA Code) I, IV, V, IMO Res. MSC,97(73)-(2000 HSC Code) 8. | Res. | B + D B + E 83 (476). |
| A.1/1.39 | Open reversible liferafts | _ | Reg. III/4, Reg. X/3. | _ | IMO — Res. MSC 36(63)- (1994 HSC Code) 8, | Res. | |

| | | | _ | Annex 10, IMO — Res. MSC.48(66)-(LSA Code) I, IMO Res. MSC.97(73)-(2000 HSC Code) 8, Annex 11. | Annex 10, IMO Res. MSC 97(73)- (2000 HSC Code) Annex 11. |
|----------------------|--|---------------------|---|---|---|
| A.1/1.40 A.1/1.41 | Mechanical pilot hoist Winches for survival craft and rescue boats (a) davit launc lifebo (b) free- fall lifebo | hed oats, | _ | Reg. — III/16, Reg. III/17, Reg. III/23, Reg. III/24, Reg. III/34, | IMO B + D Res. B + E MSC \$\mathbb{B}(7\mathbb{\theta}). G |
| | (c) lifera (d) rescu boats (e) fast rescu boats | fts, e , e | _ | IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA | |
| A.1/1.42 | Pilot ladder | Moved to A.1/ | _ | Code) I, VI, IMO Res. MSC 97(73)- (2000 HSC Code) 8. | |

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| A.1/1.43 | Rigid/inflated | _ | Reg. | _ | Reg. — | IMO B + D |
|----------|----------------|---|--------|---|-------------|--------------|
| | rescue boats | | III/4, | | III/21, | Res. $B + F$ |
| | | _ | Reg. | | Reg. | MSC & (70), |
| | | | X/3. | | III/31,— | IMO |
| | | | | | Reg. | MSC/ |
| | | | | | III/34, | Circ. 1006, |
| | | | | | IMO — | ISO |
| | | | | | Res. | 15372 |
| | | | | | MSC 36(63)- | (2000). |
| | | | | | (1994 | |
| | | | | | HSC | |
| | | | | | Code) | |
| | | | | | 8, | |
| | | | | | IMO | |
| | | | | | Res. | |
| | | | | | MSC 48(66)- | |
| | | | | | (LSA | |
| | | | | | Code) | |
| | | | | | I, V, | |
| | | | | | IMO | |
| | | | | | Res. | |
| | | | | | MSC 97(73)- | |
| | | | | | (2000 | |
| | | | | | HSC | |
| | | | | | Code) | |
| | | | | | 8. | |
| | | | | | 0. | |

2. **Marine pollution prevention**

| No. | Item designation | Regulation MARPOL 73/78, as amended, where "type approval" is required | Regulations of MARPOL 73/78, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|---------|--|---|---|--------------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.1/2.1 | Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.) | — Anne I, Reg 14. | xAnnex I, Reg. 14, — IMO MEP Circ. | Res. MEP C .1 / IMO | |

| A.1/2.2 | Oil/water interface detectors | | Annex—I, Reg. 32. | Annex—I, Reg. 32. | Res. | B + D B + E B5 (XHII). |
|---------|--|----------|---|--|---|--|
| A.1/2.3 | Oil-content meters | | AnnexAnnex I, I, 14, Reg. — | Reg. — IMO MEPC-1, Circ.643 | Res. MEPO / IMO | |
| A.1/2.4 | Process units intended for attachment to existing oily water separating equipment (for an oil content of the effluent not exceeding 15 p.p.m.) | Delibera | tely left blank | | | |
| A.1/2.5 | Oil discharge monitoring and control system for oil tankers | _ | Annex—I, Reg. 31, IMO MEPC.1/ Circ.761 Rev.1. | Annex—I, Reg. 31. | Res. | B + D B + E 3B1θ8(49). |
| A.1/2.6 | Sewage systems | | Annex— IV, Reg. 9. | Reg. 20 9. — | ecember 15: IMO Res. MEPO s from 1 nuary 2016: IMO Res. | B + D B + E B + F C.159(55). |
| A.1/2.7 | Shipboard incinerators | _ | Annex— VI, Reg. 16. — | Annex-VI, Reg. 16, IMO MEPC.1, Circ. 793 | Res. MEPO | B + D B + E B76(H0). G |
| A.1/2.8 | NOx analyser of | _ | IMO — Res. | IMO — Res. | | B + E |

| | Chemilumines detector (CLD) or heated Chemilumines detector (HCLD) type for use in on board direct measurement | | MEPO (Revi MAR Anne VI, Reg. 13) | sed POL | MEPC.176(58 - (Revised MARPOL Annex VI, — Reg. 13); IMO Res. MEPC.177(58 - (NOx Technical code 2008), IMO Res. MEPC.198(62 IMO MEPC.1/ Circ.638. | (NOx Techi code) IEC 60092 incl. IEC 60092) Corr. 2011 | G nical 2-504:2001 2-504 |
|----------|--|----------|---|------------|--|--|-----------------------------------|
| A.1/2.9 | Equipment using other technological methods to limit SOx emissions | Moved to | o A.2/2 | 2.4 | | | |
| A.1/2.10 | On board exhaust gas cleaning systems | _ | - (Revi MAR Anne VI, Reg. 4), IMO Res. | sed POL | IMO — Res. MEPC.176(58 - (Revised MARPOL Annex VI, Reg. 4). | Res. | |

3. Fire protection equipment

| No. | Item designation | Regulation SOLAS 74, as amended, where "type | Regulations of SOLAS 74, as amended, and the relevant resolutions | Testing standards | Modules for conformity assessment |
|-----|---------------------|---|---|----------------------|--|
|-----|---------------------|---|---|----------------------|--|

| | | approval" is require | d | and circulars of the IMO, as applicabl | le | | | |
|---------|-----------------------------|-----------------------|---|--|--|--------------------------------------|---|-----------------------|
| 1 | 2 | 3 | 4 | 4 | | 5 | | 6 |
| A.1/3.1 | Primary decks covering | — R — R — R | eg -2/4, eg -2/6, eg /3. | I | 1994 HSC Code) ', MO Res. | 36(63)- 97(73)- | Res. | |
| A.1/3.2 | Portable fire extinguishers | — R. X. — IM R. M. (F | FSS lode)- |), II — F II — II — | MO Res. MSC. 1994 HSC Code) ', MO Res. | 0, 8, - 9, 0, 4(23), 36(63)- 97(73)- | EN 3-7 (2004 include A.1 (2007 EN 3-8 (2006 include AC (2007 EN 3-9 (2006 include AC (2007 EN 3-10 (2009 EN 3-10) | (), ding (), ding (), |

| | | | | IMO Res. MSC 98(73)- (FSS Code) 4, IMO MSC/ Circ.1239, IMO MSC/ Circ.1275. | |
|---------|---|------|---|---|---------------------------|
| A.1/3.3 | Fire-fighter's outfit: protective clothing (close proximity clothing) | — II | Reg. — II-2/10, Reg. — X/3, IMO Res. MSC 98(73)- (FSS Code) 3. — | Reg. II-2/1 (c) Jothing for fire fighting: Res. — EN MSC 36(63)- 469 (1994 (2005) HSC included and Res. AC MSC 97(73)- (2006) Protective clothing for fire fighting: Res. MSC 7, IMO Res. MSC 97(73)- (2006) Protective clothing for fire fighting: Res. MSC 7, IMO Res. MSC 97(73)- (2006) Protective clothing for fire fighting: Res. MSC 7, IMO Res. MSC 1486 (2007) Protective clothing for fire fighting: Res. MSC 1486 (2007) Protective clothing with a reflective outer surface: Res. MSC 15533 (2001) Level 2. | ding (i) (i) |
| A.1/3.4 | Fire-fighter's outfit: boots | I | Reg. — II-2/10, Reg. — X/3, | , | B + D 0B + E 0B + F |

| | | IMO Res. MSC 98(73)- (FSS Code)— 3. | (1994 HSC Code) 7, IMO Res. MSC 97(73)- (2000 HSC Code) 7, IMO Res. MSC 98(73)- (FSS Code) 3. | |
|---------|-------------------------------|---|---|---|
| A.1/3.5 | Fire-fighter's outfit: gloves | Reg. — II-2/10, Reg. — X/3, IMO Res. MSC 98(73)- (FSS Code) 3. — | Reg. — II-2/10, IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7, IMO Res. MSC.98(73)- (FSS Code) 3. | EN B + D 659 B + E (2003)B + F including A1 (2008) and AC (2009). |
| A.1/3.6 | Fire-fighter's outfit: helmet | Reg. — II-2/10, Reg. — X/3, IMO Res. MSC 98(73)- (FSS Code) 3. — | Reg. — II-2/10, IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)- (2000 | EN B + D 443 B + E (2008)B + F |

| | | | _ | HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 3. | | |
|---------|--|---|----------|--|--|-----|
| A.1/3.7 | Self-contained compressed-air-operated breathing apparatus <i>Note</i> : For use in accidents involving dangerous goods a positive pressure type mask is required. | Reg. II-2/1 Reg. X/3, IMO Res. MSC (FSS Code 3. | .98(73)- | Reg. — II-2/10, IMO Res. MSC 36(63)-(1994 HSC — Code) 7, IMO And where the apparatus is for use in accidents with cargo: IMO Res. MSC 98(73)-(FSS Code) 3. And where the apparatus is for use in accidents with cargo: IMO Res. MSC 4(48)-(IBC Code) 14, IMO Res. MSC 5(48)-(IGC CODE) | includ AC (2003 EN 137 (2006 ere uratus e in es go: ISO | 5), |

| | | | | Code) | |
|---------|---|---------|---|--|--|
| | | | | 14. | |
| A.1/3.8 | Compressed air line breathing apparatus | | Reg. X/3. IMO Res. MSC.36(63)-(1994 HSC Code) 7. Note: This equipment is only for high speed craft built under provisions of the 1994 HSC Code. | IMO — Res. MSC.36(63)-(1994 — HSC Code) 7. | EN B + D 14593EI + E (2005)B + F EN 14593-2 (2005) including AC (2005), EN 14594 (2005) including AC (2005). |
| A.1/3.9 | Sprinkler systems components for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Reg. II-2/12 (limited to nozzles and their performance). (Nozzles for fixed sprinkler systems, for high speed craft (HSC) | — n— | Reg. — II-2/7, Reg. — II-2/10, Reg. — X/3, IMO — Res. MSC.98(73)-(FSS Code) 8. — — | Reg. — II-2/7, Reg. II-2/9, Reg. II-2/10, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.44(65), IMO Res. MSC.97(73)-(2000 HSC Code) 7, | IMO B + D Res. B + E A.800(19)F |

| | are included under this item) | | | _ | IMO Res. MSC.98(73)- (FSS Code) 8. IMO MSC/ Circ.912. | | |
|----------|---|---|---|-----------------|--|-----------|--|
| A.1/3.10 | Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces and cargo pumprooms | | Reg. II-2/1 Reg. X/3, IMO Res. MSC (FSS Code 7. | .98(73)- | Reg. — II-2/10, IMO Res. MSC 36(63)-(1994 HSC Code) 7, IMO Res. MSC 97(73)-(2000 HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 7, IMO MSC 1/ Circ. 1313. | MSC | B + D /B + E 1 B65 ,F ndix |
| A.1/3.11 | "A" & "B" Class divisions fire integrity (a) "A" class divisi (b) "B" class divisi | | Reg. II-2/3 | 1.2A" Clas — | Reg. II-2/3.2. IMO MSC/— Circ.1120 IMO MSC.1/ Circ.1434 | Res. |) . .1/ |
| A.1/3.12 | Devices to prevent the passage of | _ | Reg. II-2/4 | | Reg — II-2/4, | EN ISO | For equipment |

| | flame into the cargo tanks in tankers | | Reg. II-2/1 | | Reg II-2/16 — — | 16852other than (2010)yalves: ISO B + D 15364B + E (2007)B + F IMO For valves: MSC/B + F Circ.677. |
|----------|---|---|-----------------------|-----------|--|---|
| A.1/3.13 | Non-combustible materials | | Reg. II-2/3 Reg. X/3. | | Reg. — II-2/3, Reg. II-2/5, Reg. II-2/9, IMO Res. MSC 36(63)- (1994 HSC Code) 7, IMO Res. MSC 97(73)- (2000 HSC Code) 7. | IMO B + D Res. B + E MSC 307(88)- (2010 FTP Code). |
| A.1/3.14 | Materials other than steel for pipes penetrating "A" or "B" Class division | Item incl | uded i | n A.1/3.2 | 6 and A.1/3.27 | |
| A.1/3.15 | and | gs, s, ole oblies ensators, | Reg. II-2/4 Reg. X/3. | | Reg. Pipes an II-2/4, fittings: IMO Res. MSC 36(63)-(1994 Valves: Code) 7, 10, IMO Res. Flexible MSC 93(23) bli (2000 — HSC Code) | B + E Res. A.753(18). EN ISO 10497 (2010). pipe |

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| | with resilie and | onents ent omeric | | _ | 7, 10. IMO MSC, Circ. | Metallic compone with resilient seals. | ents | 1 (), |
|----------|--|-------------------------|------------------------|-------------|--|--|------|----------------------------|
| A.1/3.16 | Fire Doors | _ | Reg. II-2/9 | | Reg. II-2/9 | | Res. |). .1/ |
| A.1/3.17 | Fire door control systems components. Note: When the term "system components" is used in column 2 it may be that a single component, a group of components or a whole system needs to be tested to ensure that the international requirements are fulfilled. | | Reg. II-2/9, Reg. X/3. | | Reg. II-2/9 IMO Res. MSC (2000 HSC Code 7. | .97(73)- | Res. | |
| A.1/3.18 | Surface materials and floor | _ | Reg. II-2/3, | <u> </u> | Reg. II-2/3 | , | Res. | B + D B + E 307(§8)- |

| | coverings with low flame-spread characteristics (a) decorative veneers (b) paint systems, (c) floor — coverings, (d) pipe insulation covers, (e) adhesives used in the construction of "A", "B" & "C" class divisions, (f) combustible ducts membrane | (a), (b), (c) Reg. II-2/9, for (e), (f) Reg. X/3. | — Reg. II-2/6 Reg. II-2/9 IMO Res. MSC. (1994 HSC Code) 7, IMO Res. | Code (), (), (), (), (), (), (), (), (), (), | |
|----------|---|--|---|--|--|
| A.1/3.19 | Draperies, curtains and other suspended textile materials and films | Reg II-2/3, Reg II-2/9, Reg X/3. | — Reg. II-2/9 IMO Res. MSC. (1994 HSC Code) 7, IMO Res. | Res. MSC (2010 FTP Code) 36(63)- | |
| A.1/3.20 | Upholstered — furniture — — | Reg II-2/3, Reg II-2/5, Reg II-2/9, | — Reg. II-2/5 — Reg. | , Res. MSC , (2010 FTP | |

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| | | | Reg.X/ | 3 . | IMO Res. MSC 36(63)-(1994 HSC Code) 7, IMO Res. MSC 97(73)-(2000 HSC Code) 7. | | |
|----------|--|----------|--|----------------|---|-------------------------------------|---------------------------|
| A.1/3.21 | Bedding components | _ | Reg. – II-2/3, Reg. – II-2/9, Reg. – X/3. | _ | Reg. — II-2/3, Reg. II-2/9, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7. | Res. MSC (2010 FTP Code | B)7(B 8)- |
| A.1/3.22 | Fire dampers | | Reg. – II-2/9. | _ | Reg. — II-2/9. | Res. | |
| A.1/3.23 | Non- combustible duct penetrations through "A" class divisions | Moved to | A.1/3.2 | 26 | | | |
| A.1/3.24 | Electric Cable Transits through "A" class divisions | Moved to | A.1/3.2 | 26(a) | | | |

| A.1/3.25 | "A" and "B" class fire proof windows and side scuttles | Reg. — II-2/9. — | Reg. — II-2/9, IMO MSC/ Circ.1120. | IMO B + D Res. B + E MSC 307(\$8)- (2010 FTP Code). |
|----------|--|--|--|---|
| A.1/3.26 | Penetrations through "A" class divisions (a) electric cable transits, (b) pipe, duct, trunk, etc. penet | Reg. — II-2/9. — rations. | Reg. — II-2/9, IMO MSC. 1/ Circ. 1276. (only applicable to (b)) | IMO B + D Res. B + E MSC 307(88)- (2010 FTP Code). |
| A.1/3.27 | Penetrations through "B" class divisions (a) electric cable transits, (b) pipe, duct, trunk, etc. penet | Reg. — II-2/9. | Reg. — II-2/9. | IMO B + D Res. B + E MSC 307(\$8)- (2010 FTP Code). |
| A.1/3.28 | Sprinkler systems (limited to sprinkler heads). (Nozzles for fixed sprinkler systems, for high speed craft (HSC) are included under this item) | Reg. — II-2/7, Reg. — II-2/10, Reg. — X/3. | Reg. — II-2/7, Reg. II-2/1 (O)r, IMO EN 122: Res. (1999) MSC 366(13)in (1994 (2001), HSC (2004) a Code) A3 (2007, IMO Res. MSC 44(65), IMO Res. MSC 97(73)-(2000 HSC Code) 7, IMO Res. IMO Res. MSC 97(83)-(2000 HSC Code) 7, IMO Res. | g A1 A2 and |

| | | | _ | MSC 98(73)- (FSS Code) 8, IMO MSC/ Circ.912. | |
|----------|--|---|--------------------------------------|--|---|
| A.1/3.29 | Fire hoses | _ | Reg. — II-2/10, Reg. — X/3. | Reg. — II-2/10, IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7. | EN B + D 14540B + E (2004)B + F including A.1 (2007). |
| A.1/3.30 | Portable oxygen analysis and gas detection equipment | | Reg. — II-2/4, Reg. — VI/3. — | Reg. — II-2/4, Reg. VI/3, IMO Res. MSC.98(73)- (FSS Code) 15. | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008) or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 609945 Corrigendum 1 (2008), IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011) |

| A.1/3.31 | Nozzles | Item deleted as | it is covered by | · A 1/2 () c | and $\Lambda 1/3$ | |
|----------|---------|-----------------|------------------|--------------|-------------------|----------------|
| | | | | | | (2007). |
| | | | | | | 60079-26 |
| | | | | | _ | EN |
| | | | | | | (2010), |
| | | | | | | 60079-15 |
| | | | | | | (2012), EN |
| | | | | | | (2012), |
| | | | | | _ | EN 60079-11 |
| | | | | | | (2009), |
| | | | | | | 60079-10-1 |
| | | | | | — | EN |
| | | | | | | (2008), |
| | | | | | | 1 |
| | | | | | | Corrigendum |
| | | | | | | 60079-1 |
| | | | | | | IEC |
| | | | | | | including |
| | | | | | | (2007) |
| | | | | | | 60079-1 |
| | | | | | _ | EN |
| | | | | | | (2012), |
| | | | | | | 60079-0 |
| | | | | | | EN |
| | | | | | | (2007), |
| | | | | | | 60079-29-1 |
| | | | | | | (2010), EN |
| | | | | | | (2010), |
| | | | | | | 50104 |
| | | | | | | EN |
| | | | | | gas atmosph | ieres). |
| | | | | | (explosi | ve |
| | | | | | 2: | vo. |
| | | | | b) | Categor | y |
| | | | | 1.) | | (2007). |
| | | | | | | 60079-29-1 |
| | | | | | — | EN |
| | | | | | | (2010), |
| | | | | | | 50104 |
| | | | | | — | EN |
| | | | | | area): | |
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| | | | | • | 1: | |
| | | | | a) | Categor | y |
| | | | | applicabl | e to: | |
| | | | | and as | (1777), | |
| | | | | | (1999), | |
| | | | | _ | 60533 | |
| ĺ | | | 1 | | IEC | |

| | sprinkler systems, for high speed craft (HSC) | | | | | |
|----------|--|---|--------------|---|--|---|
| A.1/3.32 | Fire restricting materials (except furniture) for high speed craft | | Reg. X/3. | _ | IMO — Res. MSC 36(63)- (1994 HSC Code) 7, IMO Res. MSC 97(73)- (2000 HSC Code) 7. | IMO B + D Res. B + E MSC 307(\$8)- (2010 FTP Code). |
| A.1/3.33 | Fire restricting materials for furniture for high speed craft | | Reg. X/3. | | IMO — Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7. | IMO B + D Res. B + E MSC 307(\$8)- (2010 FTP Code). |
| A.1/3.34 | Fire resisting divisions for high speed craft | | Reg. X/3. | | IMO — Res. MSC,36(63)- (1994 HSC Code) 7, IMO Res. MSC,97(73)- (2000 HSC Code) 7. | IMO B + D Res. B + E MSC 307(88)- (2010 FTP Code). |
| A.1/3.35 | Fire doors on high speed craft | _ | Reg. X/3. | | IMO — Res. MSC 36(63)- (1994 HSC | IMO B + D Res. B + E MSC. 307(88)- (2010 |

| | | | _ | Code) 7, IMO Res. MSC 97(73)- (2000 HSC Code) 7. | FTP Code). |
|----------|---|---------------------------|---|--|---|
| A.1/3.36 | Fire dampers on high speed craft | — Reg. X/3. | _ | IMO — Res. MSC 36(63)-(1994 HSC Code) 7, IMO Res. MSC 97(73)-(2000 HSC Code) 7. | IMO B + D Res. B + E MSC 307(88)- (2010 FTP Code). |
| A.1/3.37 | Penetrations through fire resisting divisions on high speed craft (a) electr cable transi (b) pipe, duct, trunk etc. pe | | _ | IMO — Res. MSC 36(63)-(1994 HSC Code) 7, IMO Res. MSC 97(73)-(2000 HSC Code) 7. | IMO B + D Res. B + E MSC 307(88)- (2010 FTP Code). |
| A.1/3.38 | Portable fire- extinguishing equipment for lifeboats and rescue boats | — Reg. III/4, — Reg. X/3. | | Reg. — III/34, IMO Res. — A.951(23), IMO Res. — MSC 36(63)- (1994 HSC Code) 8, IMO — Res. | EN B + D 3-7 B + E (2004)B + F including A1 (2007), EN 3-8 (2006) including AC (2007), EN 3-9 |

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| | | | | _ | MSC 48(66)- (LSA Code) I, IV, — V, IMO Res. MSC 97(73)- (2000 HSC Code) 8. | (2006) including AC (2007), EN 3-10 (2009). |
|----------|--|---|---|----------|--|--|
| A.1/3.39 | Nozzles for equivalent water-mist fire extinguishing systems for machinery spaces and cargo pump rooms | | Reg. II-2/1 Reg. X/3. | | Reg. — II-2/10, IMO Res. MSC 36(63)-(1994 HSC Code) 7, IMO Res. MSC 97(73)-(2000 HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 7, IMO MSC 1/ Circ. 1313. | IMO B + D MSC/B + E Circ. 1 B 65. F |
| A.1/3.40 | Low-location lighting systems (components only) | _ | Reg. II-2/1 IMO Res. MSC (FSS Code 11. | .98(73)- | Reg. — II-2/13, IMO Res. Or, A.752(18), IMO Res. MSC 98(73)- (FSS Code) 11. | IMO B + D Res. B + E A.752(18)F ISO 15370 (2010). |
| A.1/3.41 | Emergency escape | | Reg. II-2/1 | | Reg. — II-2/13, | ISO B + D 23269EI + E |

| | breathing devices (EEBD) | | _ | (FSS | 98(73)- and altern | B + F atively: |
|----------|------------------------------------|------------------|---|--|---|--------------------------------|
| | | | | IMO | contained:oper circuit compressed air breathing apparatus with full mask or mouthed piece assembly for escape: — EN 402(2) For self-contained:oper circuit compressed air breathing apparatus with a hood for escape: — EN 11460 For self-contained: closed — circuit compressed air breathing apparatus: — EN | 003). |
| A.1/3.42 | Inert gas systems components | — Reg. II-2/4 | | Reg. II-2/4 IMO Res. A.567 IMO Res. MSC (FSS Code 15, IMO MSC Circ.3 | MSC Circ 7(14), 98(73)- | B + D /B + E 883+ F G |

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| | | | - | _ | IMO MSC/ Circ.485, IMO MSC/ Circ.731, IMO MSC/ Circ.1120. | |
|----------|---|---|---|---------|---|---|
| A.1/3.43 | Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type). | _ | Reg II-2/1, Reg II-2/10 Reg X/3. | _ | Reg. — II-2/1, Reg. II-2/10, IMO Res. MSC.97(73)- (2000 HSC Code) 7, IMO MSC.1/ Circ.1433. | ISO B + D 15371B + E (2009)B + F |
| A.1/3.44 | Fire-fighters outfit — lifeline | | Reg II-2/10 Reg X/3, IMO Res. MSC.9 (FSS Code) 3 | 98(73)- | Reg. — II-2/10, IMO Res. MSC.36(63)-(1994 HSC — Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code) 3. | IMO B + D Res. B + E MSC 98(7F)- (FSS Code) 3, IMO Res. MSC 307(88)- (2010 FTP Code). |
| A.1/3.45 | Equivalent fixed gas fire extinguishing systems components (extinguishing | | Reg II-2/10 Reg X/3, IMO Res. |), | Reg. — II-2/10, IMO Res. — MSC.36(63)- (1994 | IMO B + D MSC/B + E Circ.8#8+ F IMO MSC 1/ Circ.1316. |

| | medium, head valves and nozzles) for machinery spaces and cargo pump rooms | MSC (FSS Code 5. | 98(73)-) — | HSC Code) 7, IMO Res. MSC 97(73)-(2000 HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 5, IMO MSC/ Circ.848, IMO MSC 1/ Circ.1313, IMO MSC 1/ | |
|----------|--|---|-------------------|--|---|
| A.1/3.46 | Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems) | Reg. II-2/1 Reg. X/3, IMO Res. MSC (FSS Code 5. | .98(73)- | Reg. — II-2/10, IMO Res. MSC 36(63)-(1994 HSC Code) 7, IMO Res. MSC 97(73)-(2000 HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 5, IMO MSC 1/ Circ 1270 including | IMO B + D MSC B + E Circ. 1B70 F including Corrigendum 1. |

| | | | _ | Corrigendum 1 IMO MSC 1/ Circ. 1313. | | |
|----------|--|--------------------------|-----|---|-----|----------------------------|
| A.1/3.47 | Concentrate for Fixed High Expansion Foam Fire Extinguishing Systems for Machinery Spaces and Cargo Pump Rooms. Note: The fixed high expansion foam fire extinguishing system (including those systems which use inside air from their working spaces for their intended performance), for machinery spaces and cargo pump rooms must still be tested with the approved concentrate to the satisfaction of the Administration | — Reg. II-2/ | | Reg. — II-2/10, IMO Res. MSC (FSS Code) 6. | MSC | B + D /B + E 5790+ F |
| A.1/3.48 | Fixed water based local application fire fighting systems components for use in category "A" | — Reg. II-2/ — Reg. X/3. | 10, | Reg. — II-2/10, IMO Res. MSC 36(63)- (1994 HSC Code) 7, | MSC | B+D B+E B887.F |

| | machinery spaces (Nozzles and performance tests). | | | IMO Res. MSC.9 (2000 HSC Code) 7. | 97(73)- | |
|----------|--|-----------|---|---|--|-------------------------|
| A.1/3.49 | Fixed water-based fire-fighting systems for ro-ro spaces, vehicle spaces and special category spaces | | Reg. — II-2/19, Reg. — II-2/20, Reg. — X/3, IMO Res. MSC.98(73) (FSS Code) 7. — | IMO a Res. (MSC.3 (1994) - HSC - Code) 7, IMO Res. MSC.9 (2000) HSC Code) -7. IMO Res. | O, MSC Circ. And the additional design of the control of the cont | ms 1430 se rmance- i ms |
| A.1/3.50 | Protective clothing resistant to chemical attack | Moved to | o A.2/3.9 | | | |
| A.1/3.51 | Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodatio spaces, cabin balconies, machinery spaces and unattended | n | Reg. — II-2/7, Reg. — X/3, IMO Res. MSC 98(73) (FSS Code) 9. — | II-2/7,i IMO Res. I MSC.3 (1994 i - HSC - Code) 7, IMO Res. MSC.9 (2000 HSC I | Control and indicating equipment. Electrical Mo(161) ations in ships: EN 54-2 (1997) included AC(197(73)-10 and A1(2) Power supply equipment: | ding 999) |

| | | 1 | | | | | ı |
|---------|--------|---|---|-------|----------------------|--------|-------|
| machine | ery | | | Code |)— | EN | |
| spaces | | | | 7, | | 54-4 | |
| (a) | Conti | ol | | IMO | | (1997) | |
| | and | | | Res. | | inclu | |
| | indica | | | MSC | | AC(1 | |
| | equip | ment | | (FSS | | A1(2 | 002) |
| (b) | Powe | r | | Code | | and | |
| | suppl | У | | 9, | | A2(2) | 006). |
| | equip | ment | — | IMO | Hant | | |
| (c) | Heat | | | MSC | Heat | | |
| , , | detec | tors — | | Circ. | detectors Point | _ | |
| | Point | | | | | | |
| | detec | tors | | | detectors | | |
| (d) | Smok | | | | _ | EN | |
| | detec | | | | | 54-5 | |
| | Point | | | | | (2000 | |
| | detec | | | | | includ | |
| | using | | | | | A1(2 | 002). |
| | scatte | | | | Smoke | | |
| | light, | | | | detectors | _ | |
| | | mitted | | | Point | | |
| | light | iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii | | | detectors | | |
| | or | | | | using | | |
| | ioniza | ation | | | scattered | | |
| (e) | Flam | | | | | | |
| | detec | | | | light, transmitte | ad | |
| | Point | | | | | zu | |
| | detec | | | | light or ionization | | |
| (f) | Manu | | | | | | |
| (1) | call | iai | | | _ | EN | |
| | point | | | | | 54-7 | , |
| (a) | Short | | | | | (2000 | |
| (g) | circui | | | | | includ | |
| | | | | | | A1(2 | 002) |
| (h) | isolat | | | | | and | 000 |
| (h) | Input | | | | | A2(2 | 006). |
| | outpu | l | | | Flame | | |
| (i) | devic | | | | detectors | _ | |
| (i) | Cable | S | | | Point | | |
| | | | | | detectors | : | |
| | | | | | | EN | |
| | | | | | | 54-10 |) |
| | | | | | | (2002 | |
| | | | | | | inclu | |
| | | | | | | A1(2 | |
| | | | | | | | [|
| | | | | | Manual c | all | |
| | | | | | points: | | |
| | | | | | | EN | |
| | | | | | | 54-11 | |
| | | | | | | (2001) | |
| | | | | | | inclu | |
| | | | | | | A1(2 | 005). |
| l | | l | l | | | | J ´ |

| | | | | | | Short circisolators: Input/out devices: Cables: And, as applicable electrical electronic installation in ships: — | EN 54-17 (2007 includ AC(2 tput EN 54-18 (2005 includ AC(2 EN 60333 (2004 IEC 60092 (2003 IEC 60092 (2001 includ IEC 60092 (2011 IEC 60533 (1999 IEC 6053 (1990 IEC | 2) ding 007). 2-1-2 ding 007). 2-376 ding 2-504 ding 2-504 gendum 3), 3) |
|----------|--|---|--------------------------|----|---|---|---|--|
| A.1/3.52 | Non- portable and transportable fire extinguishers | _ | Reg. II-2/1 Reg. X/3. | 0, | Reg. II-2/4 Reg. II-2/1 IMO Res. MSC. (1994 HSC. Code) 7, | 0 , - | |). I |

| A.1/3.53 | Fire alarm devices — Sounders | Reg. II-2/7 Reg. X/3, IMO Res. MSC (FSS Code 9. | .98(73)- | IMO Res. MSC 97(73) (2000 HSC Code) 7. IMO Res. MSC 36(63) (1994 HSC Code) 7, — IMO Res. MSC 97(73) (2000 HSC Code) 7, IMO Res. — MSC 98(73) (FSS Code) | Ers EN 54-3 (200 inclu A1(2 and A2(2 IEC 6009 (200 inclu IEC 6009 Corr 1 (201 IEC | 1) ding 002) 006), 2-504 1) ding 2-504 gendum |
|----------|---|--|----------|---|--|---|
| | | | _ | 9, IMO MSC 1/ Circ.1313. | | |
| A.1/3.54 | Fixed oxygen analysis and gas detection equipment | Reg. II-2/4 Reg. VI/3. | _ | and as | (200 including the control of the co | 2-504 igendum 1), 3 9), |

| | | | | | For combody of the combod of t | — bined ally:, IMO MSC Circ. | spheres) EN 50104 (2010), EN 60079-0 (2012), EN 60079-29-1 (2007). |
|----------|---|-----------------------|----|---|--|--|--|
| A.1/3.55 | Dual purpose type nozzles (spray/jet type) | Reg. II-2/1 Reg. X/3. | 0, | II-2/1 IMO Res. MSC (1994 HSC Code 7, IMO Res. | 97(73)- | se – ation pes EN 15182 (2007 include A1(2007 | () ding 009), 2-2 () ding |

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| | | | | | | | EN 15182-1 (2007) including A1(2009). |
|----------|---|---|-----------------------|---|---|---------------|--|
| A.1/3.56 | Fire hoses (reel type) | | Reg. II-2/1 Reg. X/3. | | Reg. II-2/10 IMO Res. MSC. (1994 HSC Code) 7, | 36(63)- | EN B + D 671-1 B + E (2012)B + F |
| | | | | _ | IMO Res. MSC: (2000 HSC Code) 7. | 97(73)- | |
| A.1/3.57 | Medium Expansion Foam Fire Extinguishing Systems components — Fixed Deck Foam for Tankers | | Reg. II-2/1 | | Reg. II-2/10 IMO Res. MSC. (FSS Code) 14, IMO MSC. Circ.1 | 98(73)- 1/ | IMO B + D MSC/B + E Circ. 7988+ F |
| | | | | _ | IMO MSC. Circ.1 | 1/ | |
| A.1/3.58 | Fixed Low Expansion Foam Fire Extinguishing Systems components for Machinery | _ | Reg. II-2/1 | | Reg. II-2/10 IMO Res. MSC. (FSS Code) 6, | — 98(73)- | IMO B + D MSC B + E Circ. 1 B12.F IMO MSC 1/ Circ. 1 312/ Corr. 1. |
| | Spaces and Tanker Deck Protection. | | | _ | IMO MSC. Circ.1 IMO MSC. Circ.1 | 239, 1/ | |

| A.1/3.59 | Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers | Reg. II-2/1 IMO Res. MSC (IBC Code 11 | MS0 (IB0 .4(48)- Cod 11,)— IM0 MS0 | MSC C.4(48)- Circ. — IMO MSC Circ. O Corr. | 1/ 1312/ |
|----------|---|--|--|---|-----------------------------------|
| A.1/3.60 | Nozzles for fixed pressure water- spraying fire- extinguishing systems for cabin balconies | — Reg. II-2/1 | 0. II-2/ — IMC Res MS0 (FS) Cod 7, — IMC MS0 | /10, MSC Circ. C.98(73)- S (e) | B + D B + E 1 2 68.F |
| A.1/3.61 | a) Inside air high expan foam syster for the protect of mach space and cargo pump rooms b) Outside air high expan foam syster for the protect of mach space and cargo the protect of mach space and cargo | II-2/1 nsion ms etion inery s s. de asion ms etion inery s | 0. II-2/ — IMC Res | /10, MSC Circ. C.98(73)- | B + D B + E 1B84.F |

| | 1 | T. | | ı | | ı | T |
|--|--|----|--|---------|---|--|----------------------------|
| | pump room Note: Inside/ Outside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms shall be tested with the approved concentrate to the satisfaction of the Administration | S. | | | | | |
| A.1/3.62 | Dry chemical powder extinguishing systems | _ | Reg. II-2/1 | | Reg. II-2/1 IMO Res. MSC (IGC Code 11. | , MSC Circ. | B + D C B + E 1B15.F |
| A.1/3.63 Refer to note b) of this Annex A.1 | Sample extraction smoke detection systems components | | Reg. II-2/7 Reg. II-2/1 Reg. II-2/2 | 9, — | Res. MSC | , Res. MSC 9, (FSS Code 0, 10, and for: Control and indicating equipment. Electrical installations in ships: EN 54-2 (199) inclu AC(1) and | 7) |

| | | | | | | — EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006). Aspiring smoke detectors: — EN 54-20 (2006) including AC(2008). And, as applicable, electrical and electronic installations in ships: | |
|--|----------------------|---|-------------------|---|----------------------------------|---|--|
| | | | | | | in ships: — IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011) — IEC 60533 (1999). And, as applicable for explosive atmospheres: — EN 60079-0 (2012). | |
| A.1/3.64 Refer to note b) of this Annex A.1 | C class Divisions | _ | Reg. – II-2/3. | _ | Reg. II-2/3 Reg. II-2/9 | MSC 3307(\$ 8)- | |
| A.1/3.65 | Fixed hydrocarbon | | Reg. – II-2/4. | | Reg. II-2/4 | — IMO B + D MSC B + E Circ. 1 Β7θ, F | |

| Refer to note b) of this Annex A.1 | gas detection system | | IMO Res. MSC 98(73)- (FSS — Code) 16, IMO — MSC 1/ Circ. 1370. | EN 60079-0 (2012). EN 60079-29-1 (2007), IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999). |
|--|---|-------------------|--|---|
| A.1/3.66 Refer to note b) of this Annex A.1 | Evacuation guidance systems used as an alternative to low-location lighting systems | eg. — -2/13. — | Reg. — II-2/13, IMO MSC 1/ Circ. 1168. | IMO B + D MSC B + E Circ. 1 B68. F |
| A.1/3.67 Refer to note c) of this Annex A.1 | Helicopter facility foam fire-fighting appliances | eg. — -2/18. — | Reg. — II-2/18. IMO MSC 1/ Circ. 1431. | EN B + D 13565B + E (2003B + F including A1 (2007). |

4. **Navigation equipment**

Notes applicable to section 4: Navigation equipment.

Column 5

: IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems — Digital interfaces:

- IEC 61162-1 ed4.0 (2010-11) Part 1: Single talker and multiple listeners
- IEC 61162-2 ed1.0 (1998-09) Part 2: Single talker and multiple listeners, high-speed transmission
- IEC 61162-3 ed1.1 Consol. with am1 (2010-11) Part 3: Serial data instrument network
- IEC 61162-3 ed1.0 (2008-05) Part 3: Serial data instrument network
 - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 Part 3: Serial data instrument network

— IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems — Digital interfaces:

- EN 61162-1 (2011) Part 1: Single talker and multiple listeners
- EN 61162-2 (1998) Part 2: Single talker and multiple listeners, high-speed transmission
- EN 61162-3 (2008) Part 3: Serial data instrument network
 - EN 61162-3-am1 (2010) Amendment 1 Part 3: Serial data instrument network
- EN 61162-450 (2011) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

| No. | Item designation Regulation SOLAS 74, as amended, where "type approval" is required | | Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|---------|--|---|---|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.1/4.1 | Magnetic compass Class A for ships | (199 HSC Code 13, — IMC Res. | V/19 | (1973) — ISO 2(X), 2586 (2009) — EN 4(17), 6094 (2002) inclu 36(63)- IEC 4 6094 Corri 1 (2008) Or, — ISO 97(73)- 1069 (1973) — ISO | 2), 5 2) ding 5 gendum 3). |

| | | | | IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). |
|---------|---|---|---|--|
| A.1/4.2 | Transmitting heading device THD (magnetic method) | Reg. — V/18, Reg. V/19, Reg. X/3, — IMO Res. MSC 36(63)-(1994 HSC Code) 13, — IMO Res. MSC 97(73)-(2000 HSC Code) 13. — — | Reg. — V/19, IMO Res. A.694(17), IMO Res. MSC 36(63)-(1994 HSC — Code) 13, IMO — Res. MSC 97(73)-(2000 HSC Code) 13, IMO Res. MSC 116(73), IMO — Res. MSC 1191(79). | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series; ISO 22090-2 (2004), including Corrigendum 2005, EN 62288 (2008). IEC 60945 Corrigendum 1 (2008), IEC 60945 Corrigendum 1 (2008), IEC 61162 series. ISO 22090-2 (2004), including IEC 61162 series. ISO 22090-2 (2004), including Corrigendum 1 (2008), IEC 61162 series. ISO 22090-1 (2008), IEC 61162 series. ISO 22090-2 (2004), including Corrigendum 2005, IEC 61162 Series. ISO 22090-2 (2004), including Corrigendum 2005, IEC 62288 Ed.1.0(2008). |

| A.1/4.3 | Gyro compass | | Reg. — V/18. — — — — | Reg. — V/19, IMO Res. A.424(XI), IMO Res. A.694(17), IMO Res. MSC 191(79). — — — — — — — — — — — — — — — — — — — | EN B + D ISO B + E 8728 B + F (1998)G EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). ISO 8728 (1997), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61162 series, IEC 61162 series, IEC 62288 Ed.1.0(2008). |
|---------|---|-------------|--|--|---|
| A.1/4.4 | Radar equipment | Moved to | o A.1/4.34, A.1 | /4.35 and A.1/4. | 36 |
| A.1/4.5 | Automatic radar plotting aid (ARPA) | Moved to | o A.1/4.34 | | |
| A.1/4.6 | Echo — sounding equipment | _ _ _ | Reg. — V/18, Reg. — X/3, IMO Res. — MSC 36(63)-(1994 | Reg. — V/19, IMO Res. A.224(VII), IMO Res. A.694(17), | EN B + D ISO B + E 9875 B + F (2001)G including ISO Technical Corrigendum |

| | | | HSC — Code) 13, IMO Res. MSC.97(73)-(2000 HSC — Code) 13. | IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.74(69) Annex 4, — IMO Res. MSC.97(73)-(2000 HSC Code) Or, 13, — IMO Res. MSC.191(79). | 1: |
|---------|---|---|--|--|---|
| A.1/4.7 | Speed and distance measuring equipment (SDME) | _ | Reg. — V/18, Reg. — X/3, IMO Res. — MSC.36(63)-(1994 HSC — | Reg. — V/19, IMO Res. A.694(17), IMO Res. A.824(19), IMO Res. | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), |

| | | | Code 13, IMO Res. MSC (2000 HSC Code 13. | .97(73)-) <u> </u> | MSC 36(63)-(1994 HSC Code)—13, IMO Res. — MSC 96(72), IMO Res. MSC 97(73)-(2000 HSC Code)13, IMO Res. MSC 191(79) ———————————————————————————————————— | 61023 (2007), EN 61162 series, EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum |
|---------|------------------------------------|----------|--|------------------------|--|---|
| A.1/4.8 | Rudder angle, rpm, pitch indicator | Moved to | o A.1/- | 4.20, A.1 | /4.21 and A.1/4 | 1.22 |
| A.1/4.9 | Rate-of-turn indicator | | (1994 HSC Code 13, IMO Res. | | Reg. — V/19, IMO Res. A.526(13), IMO Res. A.694(17), IMO Res. — MSC.36(63)-(1994 HSC — Code) 13, IMO — Res. MSC.97(73)-(2000 Or, HSC — | EN B + D 60945B + E (2002)B + F includ@ig IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 20672 (2007), EN 62288 (2008). IEC 60945 |

| A.1/4.10 | Direction finder | Delibera | tely left blank | Code) 13, IMO Res. MSC.191(79). — — — | (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 20672 (2007), IEC 62288 Ed.1.0(2008). |
|----------|---------------------|----------|--|--|---|
| A.1/4.11 | Loran-C equipment | | Reg. V/18, Reg. X/3, IMO Res. — MSC 36(63)-(1994 HSC — Code) 13, IMO Res. MSC 97(73)-(2000 HSC — Code) 13. | Reg. — V/19, IMO Res. A.694(17), IMO Res. A.818(19), IMO Res. — MSC.36(63)-(1994 HSC — Code) 13, IMO — Res. MSC.97(73)-(2000 Or, HSC — Code) 13, IMO Res. MSC.191(79). — — — — | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61075 (1993), EN 61162 series, EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61075 (1991), IEC 61162 series, |

| | | | | _ | IEC 62288 |
|----------|------------------------|----------|--|---|---|
| | | | | | Ed.1.0(2008). |
| A.1/4.12 | Chayka equipment | | Reg. — V/18, Reg. — X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13. — — — | Reg. — V/19, IMO Res. A.694 (17), IMO Res. A.818 (19), — IMO Res. MSC.36(63)-(1994 HSC Code)— 13, IMO Res. Or, MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79). — — — — — — — | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61075 (1993), EN 61162 series, EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61075 (1991), IEC 61162 series, IEC 61162 series, IEC 62288 Ed.1.0(2008). |
| A.1/4.13 | Decca | Delibera | tely left blank | | |
| | navigator equipment | | | | |
| A.1/4.14 | GPS equipment | | Reg. — V/18, Reg. — X/3, IMO Res. — MSC 36(63)-(1994 | Reg. — V/19, IMO Res. A.694(17), IMO Res. MSC 36(63)- | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum |

| | | HSC Code) 13, IMO — Res. MSC 97(73)-(2000 HSC Code) 13. — — | (1994 HSC Code),— IMO Res. MSC.97(73)- (2000 HSC Code),— IMO Res. MSC. Or2(73), IMO — Res. MSC.191(79). | 1 (2008), EN 61108-1 (2003), EN 61162 series, EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-1 (2003), IEC 61162 series, IEC 62288 Ed.1.0(2008). |
|----------|-------------------|--|--|---|
| A.1/4.15 | GLONASS equipment | Reg. — V/18, Reg. — X/3, IMO Res. — MSC 36(63)-(1994 HSC Code) 13, IMO Res. — MSC 97(73)-(2000 HSC Code) 13. — | Reg. — V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC — Code) 13, IMO — Res. MSC.97(73)-(2000 — HSC Code) 13, Or, IMO — Res. MSC.113(73), | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61108-2 (1998), EN 61162 series, EN 62288 (2008). IEC 60945 |

| | | | IMO Res. MSC | .191(79). | including IEC 60945 Corrigendum 1 (2008), IEC 61108-2 (1998), IEC 61162 series IEC 62288 Ed.1.0(2008). |
|----------|------------------------------|------------|---|-----------------------------|--|
| A.1/4.16 | Heading control system (HCS) | Reg. V/18. | IMO Res. A.694 IMO Res. MSC Anne 3, IMO Res. | 2(IX), 4(17), .64(67) | ISO B + D 11674B + E (2006)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). ISO 11674 (2006), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61288 Ed.1.0(2008). |

| A.1/4.17 | Mechanical pilot hoist | Moved to A.1/1.40 |
|----------|---|--|
| A.1/4.18 | 9 GHz SAR transponder (SART) | — Reg. — EN B + D III/4, III/6, 60945B + E — Reg. — (2002)B + F IV/14, IV/7, including — Reg. — IMO — Reg. — 60945 — Reg. — 60945 — IMO 1 Imolar control of the control of |
| A.1/4.19 | Radar equipment for high-speed craft | |
| A.1/4.20 | Rudder angle indicator | — Reg. — EN B + D V/18, V/19, 60945B + E — Reg. — IMO (2002)B + F X/3, Res. including — IMO 60945 Res. — IMO 60945 MSC 36(63)- Res. Corrigendum (1994 MSC 36(63)- 1 HSC (1994 (2008), Code) HSC — 13, Code) 61162 IMO 13, series, Res. Res. Resies |

| | | MSC 97(73)- (2000 HSC Code) 13. | IMO Res. MSC 97(73)-(2000— HSC Code) 13, Or, IMO Res. MSC 191(79). | ISO 20673 (2007), EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 20673 (2007), IEC 62288 Ed.1.0(2008). |
|----------|--------------------------------|--|--|--|
| A.1/4.21 | Propeller revolution indicator | Reg. V/18, Reg. X/3, IMO Res. — MSC 36(63)- (1994 HSC Code) 13, IMO Res. — MSC 97(73)- (2000 HSC Code) 13. | Reg. — V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC — Code) 13, IMO — Res. MSC.97(73)-(2000 — HSC Code) 13, Or, IMO — Res. MSC.191(79). | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 22554 (2007), EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum |

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| | | | | | 1 |
|----------|--|--|---|--|--|
| | | | | _ | (2008), IEC 61162 |
| | | | | _ | series, ISO |
| | | | | _ | 22554 (2007), IEC |
| | | | | | 62288 Ed.1.0(2008). |
| A.1/4.22 | Pitch indicator | Reg. — V/18, Reg. — X/3, IMO Res. — MSC 36(6 (1994 HSC Code) 13, IMO Res. — MSC 97(7 (2000 HSC Code) 13. — | IMC 53)- Res. MS0 (199 HSC Cod 13, IMC (200 HSC Cod 13, IMC Res. | 04(17), 04(17), 02(36(63)- 04 01 — 01 — 02(97(73)- 00 — 01 — 01 — | including IEC 60945 Corrigendum 1 (2008), IEC 61162 series ISO 22555 (2007), |
| | | | | _ | IEC 62288 Ed.1.0(2008). |
| A.1/4.23 | Compass for lifeboats and rescue boats | Reg. — III/4, Reg. — X/3, | Reg III/3 IMC Res. | 4 , | ISO B + D 1069 B + E (1973)B + F G |

| | | | IMO Res. MSC 36(63)- (1994 HSC Code)— 13, IMO Res. MSC 97(73)- (2000 HSC Code) 13.— | MSC 48(66)-(LSA Code) IV, — V, IMO Res. MSC 36(63)-(1994 HSC Code) 8, 13, IMO Res. MSC 97(73)-(2000 HSC Code) 8, 13. | ISO 25862 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). |
|----------|---|---------|--|--|---|
| A.1/4.24 | Automatic radar plotting aid (ARPA) for high- speed craft | Moved t | to A.1/4.37 | | |
| A.1/4.25 | Automatic tracking aid (ATA) | Moved t | to A.1/4.35 | | |
| A.1/4.26 | Automatic tracking aid (ATA) for high speed craft | Moved 1 | to A.1/4.38 | | |
| A.1/4.27 | Electronic plotting aid (EPA) | Moved t | to A.1/4.36 | | |
| A.1/4.28 | Integrated bridge system | Moved 1 | to A.2/4.30 | | |
| A.1/4.29 | Voyage data recorder (VDR) | | Reg. — V/18, Reg. — V/20, Reg. X/3, IMO — Res. MSC 36(63)-(1994 HSC | Reg. — V/20, IMO Res. A.694 (17), IMO Res. MSC 36(63)-(1994 HSC | IEC B + D 60945B + E (2002B + F including IEC 60945 Corrigendum 1 (2008), |

| | | Code 13, IMO Res. MSC (2000 HSC Code 13. | .97(73)- | Code)— 13, IMO Res. — MSC.97(73)- (2000 HSC — Code) 13, IMO Res. MSC.191(79), IMO Res. MSC.333(90). | IEC 61162 Series, IEC 61996-1 (2013-05). IEC 62288 Ed.1.0(2008) |
|----------|---|--|----------|---|--|
| A.1/4.30 | Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS) | (1994 HSC Code 13, IMO Res. | | CDS le — s allity ed in — IS. | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 61174 (2008), EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 61174 (2008), IEC 62288 Ed.1.0(2008). |

| | | | B certific shall ind whether options v tested]. | icate these | | | |
|----------|--|--|---|--|---|--|--|
| A.1/4.31 | Gyro compass for high-speed craft | (1994) HSC Code 13, IMO Res. MSC (2000) HSC Code 13. | 97(73)- | (1994 HSC Code) 13, IMO Res. MSC! (2000 HSC Code) 13, IMO Res. MSC. | (19), 36(63)- — 9 7 (73)- | (2001) EN 6094: (2002) including EN 61162 Series EN 6228: (2008) ISO 1632: (2001) IEC 6094: (2002) including IEC 6094: (2008) IEC 61162 Series IEC 6228: Ed.1. | ding ding s gendum s s s s s s s s s s s s s s s s s s s |
| A.1/4.32 | Universal automatic identification system equipment (AIS) | Reg. V/18, Reg. X/3, IMO Res. MSC (1994 HSC | . 36 (63)- | Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC. (1994 | 36(63)- | (2002) includ IEC 6094: | 5 gendum |

| | | — I H M M M M M M M M M M M M M M M M M M | 2000 HSC Code) 3. | | IMO Res. MSC. (2000 HSC Code) 13, IMO Res. MSC. ITU- R M. 1371 010) be e in ce ents | — 74(69), — 97(73)- Or, — 191(79), 4(2010). — — | EN 61162 Series, EN 61993-2 (2013), EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 61993-2 (2012), IEC 62288 Ed.1.0(2008). |
|----------|--|---|-----------------------------|-----|---|--|---|
| A.1/4.33 | Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots) | | Reg. V/18. | — : | IMO Res. | —————————————————————————————————————— | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62065 (2002), EN 62288 (2008). IEC 60945 (2002) |

| | | | | _ _ _ | including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 62065 (2002), IEC 62288 Ed.1.0(2008). |
|-------------|-----------------------|------------|---|-------------|---|
| [XIA.1/4.34 | Radar equipment CAT 1 | Reg. V/18. | IMO Res. A.694 IMO Res. MSC IMO Res. MSC ITU- R M. | _ | (2008), EN 62388 (2008). IEC |

| A.1/4.35 | Radar | _ | Reg. | _ | Reg. | _ | EN B+D |
|----------|-----------|---|-------|--------------|-------------|-----------|-----------------|
| | equipment | | V/18. | | V/19, | | 60945B + E |
| | CAT 2 | | | _ | IMO | | (2002)B + F |
| | | | | | Res. | | including |
| | | | | | | S(VIII), | IEC |
| | | | | _ | IMO | | 60945 |
| | | | | | Res. | | Corrigendum |
| | | | | | A.694 | (17), | 1 |
| | | | | _ | IMO | | (2008), |
| | | | | | Res. | _ | EN |
| | | | | | | 191(79), | 61162 |
| | | | | - | IMO | | Series, |
| | | | | | Res. | _ | EN |
| | | | | | | 192(79), | |
| | | | | - | ITU- | | (2008), |
| | | | | | R | _ | EN |
| | | | | | M. | | 62388 |
| | | | | | 1177- | 4(04/11). | (2008). |
| | | | | | | Or, | |
| | | | | | | _ | IEC |
| | | | | | | | 60945 |
| | | | | | | | (2002) |
| | | | | | | | including |
| | | | | | | | IEC |
| | | | | | | | 60945 |
| | | | | | | | Corrigendum |
| | | | | | | | 1 |
| | | | | | | | (2008), |
| | | | | | | _ | IEC |
| | | | | | | | 61162 |
| | | | | | | | Series, |
| | | | | | | _ | IEC |
| | | | | | | | 62288 |
| | | | | | | | Ed.1.0(2008). |
| | | | | | | _ | IEC |
| | | | | | | | 62388 |
| | | | | | | | Ed.1.0(2007). |
| A.1/4.36 | Radar | _ | Reg. | | Reg. | | EN $B + D$ |
| | equipment | | V/18. | | V/19, | | 60945B + E |
| | CAT 3 | | | | IMO | | (2002)B + F |
| | | | | | Res. | | including |
| | | | | | | S(VIII), | IEC |
| | | | | | IMO | | 60945 |
| | | | | | Res. | (17) | Corrigendum |
| | | | | | A.694 | (1/), | 1 (2000) |
| | | | | | IMO | | (2008), |
| | | | | | Res. | 101(70) | EN 61162 |
| | | | | | | 191(79), | 61162 Sorios |
| | | | | _ | IMO Res. | | Series, EN |
| | | | | | | <u> </u> | 62288 |
| | | | | | IVISC. | 174(17), | (2008), |
| | I | | | l | | | (2009), |

| A.1/4.37 | Radar equipment for high speed craft applications (CAT 1H and CAT 2H) | (1994 HSC Code 13, IMO Res. | .97(73)- | IMO Res. A.278 IMO Res. MSC (1994 HSC Code 13, IMO Res. MSC (2000 HSC Code 13, IMO Res. MSC (2000 Res. | 36(63)- -) - 9 7 (73)- | EN 62388 (2008). IEC 60945 (2002) including IEC 60945 (2008), IEC 61162 (2008), IEC 62288 (2008) ED 60945 (2002) EN B + D 60945 (2008), EN 61162 (2008), EN 61162 (2008), EN 62288 (2008), EN 62388 (2008), ED 60945 (2002) |
|----------|---|--|----------|---|--|--|
| | | | | | 4(04/11). | |

| A.1/4.38 | Radar | | Reg. — | — | IEC 61162 Series, IEC 62288 Ed.1.0(2008). IEC 62388 Ed.1.0(2007). EN B + D |
|------------|--|-------------|--|--|--|
| 11.17 1.50 | equipment approved with a chart option, namely: a) CAT 1C b) CAT 2C, c) CAT 1HC for HSC d) CAT 2HC for HSC | | X/3, IMO Res. — MSC.36(63)-(1994 HSC — Code) 13, IMO Res. MSC.97(73)-(2000 HSC — Code) 13. | Res. A.278(VIII), IMO Res. A.694(17), IMO Res. MSC 36(63)- (1994— HSC Code) 13, — IMO Res. MSC 97(73)- (2000 HSC Code)Or, 13, — IMO Res. MSC 191(79), IMO Res. MSC 192(79), ITU- R M. — 1177-4(04/11). ——————————————————————————————————— | 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62288 (2008), EN 62388 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC |
| A.1/4.39 | Radar reflector – passive type | _ _ _ | Reg. — V/18, Reg. — X/3, IMO Res. | Reg. — V/19, IMO Res. — MSC 36(63)- (1994 | ISO B + D 8729-B + E (2010)B + F EN G 60945 (2002) |

| | | MSC.36(63)-(1994 HSC Code)— 13, IMO Res. MSC.97(73)-(2000 HSC Code)— 13. | HSC Code) 13, IMO Res. MSC 97(73)-(2000 Or, HSC — Code) 13, IMO — Res. MSC 164(78). | including IEC 60945 Corrigendum 1 (2008), ISO 8729-1 (2010), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). |
|----------|---|---|--|---|
| A.1/4.40 | Heading control system for high speed craft | Reg. X/3, IMO Res. — MSC.36(63)-(1994 HSC — Code) 13, IMO Res. MSC.97(73)-(2000 HSC — Code) 13. | IMO — Res. A.694(17), IMO — Res. A.822(19), IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code)Or, 13, — IMO Res. MSC.191(79). | ISO B + D 16329B + E (2003)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). ISO 16329 (2003), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), |

| A.1/4.41 Transmitting heading v/18 W19 C2090B+ E Ed. 1.0(2008). | A.1/4.41 Transmitting | A.1/4.41 Transmitting heading device THD (GNS) MSC, 36(63) HSC (2004) HSC (2008) | | | | | | | | |
|--|--|--|----------|--------------|---|------|-------------|------|----------------|---------------|
| A.1/4.41 Transmitting — Reg. — Reg. — ISO B + D | A.1/4.41 Transmitting | A.1/4.41 Transmitting | | | | | | | | IEC |
| A.1/4.41 Transmitting heading V/18 V/19 22090\frac{18}{18} \ Ed.1.\text{D}(2008). Ed.1.\text{D}(2008). A.1/4.41 Transmitting heading V/18 V/19 22090\frac{18}{18} \ Ed.1.\text{D}(2008) \ Ed.1.\text{D}(2004) \ Ed.1 \ E | A.1/4.41 Transmitting Property Prope | A.1/4.41 Transmitting | | | | | | | | |
| A.1/4.41 Transmitting | A.1/4.41 | A.1/4.41 | | | | | | | | |
| A.1/4.41 Transmitting heading heading device THD (GNSS Method) — Reg. — IMO (2004B + F) (GNSS Method) — Reg. — IMO (2004B + F) (GNSS Method) — IMO (2004B + F) (GNSC MSC) (36(63) — (2005), (1994 MSC) (36(63) — (2005), (1994 MSC) (36(63) — (2005), (1994 MSC) (2006) (2002) (1006 MSC) (2007 | A.1/4.41 Transmitting heading heading device THD (GNSS Method) | A.1/4.41 Transmitting | | | | | | | | |
| A.1/4.41 Transmitting heading with the properties of the prope | A.1/4.41 Transmitting | A.1/4.41 Transmitting heading V/18 V/19 22090B + E 22090B + E 2004B + F 20 | | | | | | | | |
| A.1/4.41 | A.1/4.41 | A.1/4.41 | | | | | | | | |
| heading device THD (GNSS method) — Reg. — IMO (2004/B + F including method) — IMO A.694(17), ISO Res. — IMO MSC.36(63) - Res. 1 (1994 MSC.36(63) - (2005), HSC (1994 — EN Code) HSC (2002) 13, Code) (2002) 1400 MSC.97(73) - Res. 60945 (2000) 1500 MSC. 16162 MSC. 16163 MSC. 16163 MSC. 16163 MSC. 16164 MS | heading device THD (GNSS) (GNS | heading device THD (GNSS) (method) | | | | | | | | Ed.1.0(2008). |
| heading device THD (GNSS method) — Reg. — IMO (2004)B + F (2004)B | heading device THD (GNSS) method) | heading device THD (GNSS) method) | A.1/4.41 | Transmitting | | Reg. | | Reg. | | ISO $B + D$ |
| device THD (GNSS X/3, Res. Including Res. IMO A.694(17), ISO Res. IMO Corrigendum MSC 36(63) - Res. I (1994 MSC 36(63) - (2005), HSC Code HSC G0945 MSC 97(73) - Res. G0945 G2000 MSC 97(73) - Res. G0945 G2000 | Contact | device THD | | | | | | | | |
| (GNSS method) | (GNSS method) - IMO | (GNSS method) | | | | 1 | | | | |
| method) MSC M | method) | method) | | | | | | | | |
| Res. — IMO Corrigendum MSC 36(63)- Res. 1 (1994 MSC 36(63)- (2005), HSC (1994 — EN Code) HSC 60945 13, Code) (2002) IMO 13, including Res. — IMO IEC MSC 97(73)- Res. 60945 (2000 MSC 97(73)- Corrigendum HSC (2000 I Code) HSC (2008), 13. Code) — EN 13, 61162 — IMO series, Res. — EN MSC 116(73), 62288 — IMO Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | Res. — IMO | Res. — IMO MSC 36(63) C2005 | | | _ | | | | 4(17) | |
| MSC 36(63)- Res. 1 (1994 MSC 36(63)- (2005), HSC (1994 EN Code) HSC 60945 (2002) | MSC,36(63)- Res. (1994 | MSC 36(63)- Res. (1994 | | memou | | | | | 1(17), | |
| (1994 MSC 36(63)- (2005), (1994 — EN | (1994 MSC 36(63)- (2005), HSC (1994 EN Code) HSC 60945 13, Code) (2002) 1MO 13, including Res. IMO IEC MSC 97(73)- Res. 60945 (2000 MSC 97(73)- Corrigendum HSC (2000 1 Code) HSC (2008), 13. Code EN 13. 61162 IMO series, Res. EN MSC 116(73), 62288 MSC 191(79). ISO Res. Or, MSC 191(79). ISO Corrigendum 1 (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC Corrigendum 1 (2008), IEC (60945 Corrigendum 1 (2008), IEC (60945 Corrigendum 1 (2008), IEC (60945 Corrigendum 1 (2008), IEC (61162) | (1994 MSC 36(63)- (2005), HSC (1994—EN Code) HSC 60945 13, Code) (2002) IMO 13, including Res. — IMO IEC MSC 97(73)- Res. 60945 (2000 MSC 97(73)- Corrigendum HSC (2000 I Code) HSC (2008), 13. Code)—EN 13, 61162 — IMO Res. —EN MSC 116(73), 62288 — IMO (2008). Res. Or, MSC 191(79). ISO Corrigendum 1 (2008), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 | | | | | 36(63) | | | |
| HSC (1994 — EN 60945 13, Code (2002) 13, including IEC MSC 97(73) - Res. 60945 (2000 MSC 97(73) - Corrigendum HSC (2000 1 Code HSC (2000 1 Code HSC (2008), 13. 61162 Series, Res. EN MSC 116(73), 62288 MMO (2008). Res. Or, MSC 191(79). ISO (2004) including ISO Corrigendum 1 (2005), IEC 60945 (2002) including IEC (2002) inclu | HSC (1994 — EN 60945 13, Code) (2002) 13, including 18c 60945 6094 | HSC (1994— EN 60945 13, Code) (2002) 13, including 15C 60945 | | | | | 30(03)- | | 26(62) | |
| Code) 13, Code) 13, Code) 13, IMO Res. — IMO MSC 97(73)- Res. (2000 HSC Code) HSC (2000 Code) HSC (2000 Code) HSC (2000 Code) HSC (2000 Code) HSC (2000) Res. HSC (2000) Code) HSC (2000) Code) HSC (2008) 13. Code) EN 13, 61162 IMO Series, Res. EN MSC 116(73), 62288 IMO Res. Or, MSC 194(79). ISO Corrigendum 1 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | Code) 13, Code) 13, Code) 13, including Res. — IMO IEC MSC 97(73)- Res. (2000 MSC 97(73)- Corrigendum HSC (2000) Code) HSC (2008), 13. Code)— EN 13, 61162 — IMO Res. — EN MSC 116(73), 62288 — IMO Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 61162 | Code HSC 60945 (2002) | | | | | | | | |
| - IMO Res. — IMO IEC MSC 97(73)- Res. (2000 HSC (2008), Code) HSC (2000 1 (2008), Code) HSC (2000 — EN (2008), Res. Or, MSC 116(73), 62288 (2004) including ISO (2004) including ISO (2005), — IEC (2005), — IEC (2002) including IEC (60945) | | 13, | | | | | | | _ | |
| IMO Res. IMO IEC | IMO Res. IMO IEC | IMO 13, including IEC | | | | ŕ | | | | |
| Res. — IMO MSC 97(73)- Res. (2000 MSC 97(73)- Corrigendum (2008), Code) HSC (2000 I Series, Res. — EN MSC 116(73), 62288 — IMO (2008). Res. Or, MSC 191(79). ISO (2004) including ISO (2004) including ISO (2005), IEC (60945) (2002) including IEC (60945) | Res. — IMO MSC 97(73)- Res. (2000 MSC 97(73)- Corrigendum HSC (2000 I Code) HSC (2000 I Code) HSC (2000 NESC) 97(73)- EN (2008), I3. (2008) Series, Res. — EN (2008) (2008) (2008) (2008) (2008) (2008) (2004) (2004) (2004) (2004) (2004) (2004) (2005), IEC (60945) (2002) (2004) | Res. — IMO MSC 97(73)- Res. (2000 MSC 97(73)- Corrigendum HSC (2000 1 Code) HSC (2008), 13. Code) — EN HSC (2008), 14. Code) — EN HSC (2008), 15. Corrigendum HSC (2008), 16. Corrigendum HSC (2004) HSC (2004) HSC (2004) HSC (2005), 16. Corrigendum HSC (2005), 16. Code) — IEC (60945), 16. Code) — IEC (60945), 16. Corrigendum HSC (2008), 16. | | | | | | |) | |
| MSC 97(73)- Res. 60945 (2000 MSC 97(73)- Corrigendum HSC (2000 1 Code) HSC (2008), 13. Code)—EN 13, 61162 — IMO series, Res. —EN MSC 116(73), 62288 — IMO Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 | MSC 97(73)- Res. (2000 MSC) 97(73)- Corrigendum HSC (2000 I Code) HSC (2008), 13. Code | MSC 97(73)- Res. 60945 (2000 MSC 97(73)- Corrigendum HSC (2000 1 Code) HSC (2004) (2008), 13. 61162 Series, EN MSC MSC 116(73), 62288 MMO (2008). (2008). (2004) (including ISO Corrigendum 1 (2005), EE (2002) (2004) | | | _ | | | | | |
| (2000 MSC 97(73)- Corrigendum (HSC (2000 1 Code) HSC (2008), (Code)— EN 13. Code)— EN 13. 61162 — IMO series, Res. — EN MSC 116(73), 62288 — IMO Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | (2000 MSC 97(73)- Corrigendum (18C) (2000 1 Code) HSC (2008), 13. Code)— EN 13, 61162 — IMO series, Res. — EN MSC 116(73), 62288 — IMO (2008). Res. Or, MSC +91(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC | (2000 MSC 97(73)- Corrigendum (HSC (2000 1 Code) HSC (2008), 13. Code)— EN 13, 61162 — IMO series, Res. — EN MSC 116(73), 62288 — IMO (2008). Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC | | | | | — 05(50) | | | |
| HSC Code) HSC (2008), Code) HSC (2008), Code)— EN 13, 61162 HMO series, Res. — EN MSC 116(73), 62288 MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | HSC Code) HSC (2008), 13. | HSC (2000 1 (2008), (2008) (2008) (2008) (2008) (2008) (2008) (2008) (2008) (2008) (2004) (2004) (2005), (2004) (2005), (2002) (2002) (2002) (2002) (2002) (2004) (2005) (2002) (2004) (2005) (2006) | | | | | 97(73)- | | | |
| Code) HSC (2008), Code)— EN 13, 61162 — IMO series, Res. — EN MSC 116(73), 62288 — IMO (2008). Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | Code) HSC Code)———————————————————————————————————— | Code) 13. Code) HSC Code) Res IMO Res. Or, MSC H91(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | ` ′ | |
| Code | Code | 13. | | | | | | |) | |
| - IMO Res. MSC 116(73), 62288 - IMO Res. MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), - IEC 60945 (2002) including IEC 60945 | 13, 61162 series, EN MSC 116(73), 62288 (2008). Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), Corrigendum 1 (2008), Corrigendum 1 (2008), Corrigendum 1 (2008), IEC 60945 Corrigendum 1 (2008), IEC 61162 | 13, | | | | | | | | |
| Mode | - IMO Res EN MSC 116(73), 62288 - IMO (2008). Res. Or, MSC 191(79). ISO (2004) including ISO (2005), - IEC (60945) (2002) including IEC (60945) (2008), - IEC (61162) | - IMO Res EN MSC 116(73), 62288 (2008) IMO (2008). Res. Or, MSC 1491(79). ISO (2004) (2004) (2004) (2004) (2005), (2005), (2002) | | | | 13. | | Code |)— | EN |
| Res. — EN MSC 116(73), 62288 [MO (2008). Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | Res. MSC 116(73), 62288 - IMO (2008). Res. Or, MSC 191(79). ISO (2004) including ISO (Corrigendum I (2005), - IEC (60945) (2002) including IEC (60945) Corrigendum I (2008), - IEC (60945) Corrigendum I (2008), - IEC (60945) Corrigendum I (2008), - IEC (60945) | Res. MSC 116(73), 62288 - IMO (2008). Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), - IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), - IEC 60945 Corrigendum 1 (2008), - IEC 60945 Corrigendum 1 (2008), - IEC 61162 | | | | | | 13, | | 61162 |
| MSC 116(73), 62288 — IMO (2008). Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | MSC 116(73), 62288 IMO (2008). Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 61162 | MSC 116(73), 62288 IMO (2008). Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 60945 Corrigendum 1 (2008), — IEC 601162 | | | | | _ | IMO | | series, |
| — IMO Res. Or, Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | - IMO Res. MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), - IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), - IEC 60945 Corrigendum 1 (2008), - IEC 61162 | - IMO Res. MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), - IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), - IEC 60945 Corrigendum 1 (2008), - IEC | | | | | | Res. | | EN |
| — IMO Res. Or, Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | - IMO Res. MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), - IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), - IEC 60945 Corrigendum 1 (2008), - IEC 61162 | - IMO Res. MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), - IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), - IEC 60945 Corrigendum 1 (2008), - IEC | | | | | | MSC | .116(73), | 62288 |
| Res. Or, MSC. 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | Res. Or, MSC 491(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | Res. Or, MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | _ | | . ,, | I |
| MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | MSC 191(79). ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | Or. | |
| 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | ISO |
| (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | , -, - (, ,). | |
| including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | |
| ISO Corrigendum 1 (2005), IEC 60945 (2002) including IEC 60945 | ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | ISO Corrigendum 1 | | | | | | | | |
| Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 | Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | |
| 1 (2005), — IEC 60945 (2002) including IEC 60945 | 1 (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | |
| (2005), — IEC 60945 (2002) including IEC 60945 | (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | ρ |
| — IEC 60945 (2002) including IEC 60945 | — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | II |
| 60945 (2002) including IEC 60945 | 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 | 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ———————————————————————————————————— | | | | | | | | |
| (2002) including IEC 60945 | (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | (2002) including IEC 60945 Corrigendum 1 (2008), ———————————————————————————————————— | | | | | | | | |
| including IEC 60945 | including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | including IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | |
| IEC 60945 | IEC 60945 Corrigendum 1 (2008), — IEC 61162 | IEC 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | |
| 60945 | 60945 Corrigendum 1 (2008), — IEC 61162 | 60945 Corrigendum 1 (2008), — IEC 61162 | | | | | | | | |
| | Corrigendum 1 (2008), — IEC 61162 | Corrigendum 1 (2008), — IEC 61162 | | | | | | | | |
| Corrigendum | — IEC 61162 | — (2008), — IEC 61162 | | | | | | | | |
| | — IEC 61162 | — IEC 61162 | | | | | | | | 1 |
| | 61162 | 61162 | | | | | | | | |
| | | | | | | | | | | |
| 61162 | | series, | | | | | | | | |
| | series, | | | | | | | | | series, |

| A.1/4.42 | Searchlight for high speed craft | Reg. — X/3, IMO Res. — MSC.36(63)-(1994 HSC Code) 13, IMO Res. — MSC.97(73)-(2000 HSC Code) 13. | IMO — Res. A.694(17), IMO — Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 — HSC Code) 13. — | IEC 62288 Ed.1.0(2008). ISO B + D 17884B + E (2004)B + F EN G Go945 Go945 |
|----------|---|---|---|--|
| A.1/4.43 | Night vision equipment for high speed craft | Reg. — X/3, IMO — Res. MSC.36(63)-(1994 HSC Code) 13, IMO — Res. MSC.97(73)-(2000 — HSC Code) 13. | IMO — Res. A.694(17) IMO Res. — MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.94(72), IMO — Res. MSC.97(73)- (2000 Or, HSC — Code) 13, IMO — Res. MSC.191(79). | (2008). ISO B + D ,16273B + E (2003)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 62288 (2008). ISO 16273 (2003), IEC 60945 (2002) including IEC |

| A.1/4.44 A.1/4.45 | Differential beacon receiver for DGPS and DGLONASS Equipment | Item del | Reg. — V/18, Reg. — X/3, IMO Res. MSC 36(63)-(1994 HSC Code) 13, IMO Res. MSC 97(73)-(2000 HSC Code) 13. — — | Reg. — V/19, IMO Res. A.694 (17), IMO Res. MSC 36(63)-(1994 — HSC Code) 13, IMO Res. MSC 97(73)-(2000 — HSC Code) 13, IMO Res. MSC 114(73). — — — — — — — — — — — — — — — — — — — | 1 (2008), IEC 61108-4 (2004), IEC 61162 series. |
|--------------------|--|-------------|--|---|---|
| | shipborne radar | | | | |
| A.1/4.46 | Transmitting heading device THD (Gyroscopic method) | _ _ _ | Reg. V/18. Reg. X/3, IMO Res. MSC 36(63)-(1994 HSC | Reg. — V/19, IMO Res. A.694 (17), IMO — Res. MSC 36(63)- | ISO B + D 22090B + E (2002)B + F including Corr.l (2005), EN 60945 (2002) |

| | | Code 13, IMO Res. MSC (2000 HSC Code 13. | .9 7 (73)- | (2000 HSC Code 13, IMO Res. MSC IMO Res. | .9 7 (73)- | 1 (2008) EN 61162 series EN 62283 (2008) ISO 22090 (2002) include Corr. (2005) IEC 60943 (2002) include IEC 60944 (2002) include IEC 61162 series IEC 62283 | 5 gendum 3), 2 5, 8 8). 0-1 2) ding 1 5), 5 2) ding 5 gendum 3), |
|-----------|---|--|-----------------------|--|--------------------------------------|--|--|
| A.1./4.47 | Simplified voyage data recorder (S- VDR) | Reg. V/20 | | IMO Res. | — 163(78), — .191(79). — | (2002 including IEC 6094: Corri 1 (2008 EN | 5 gendum 3), 2 3, 6-2 8), |

| A.1/4.48 | Mechanical | | | | IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61996-2 (2007), IEC 62288 Ed.1.0(2008). |
|----------|-------------------|---------------------|--|--|---|
| | pilot hoist | on 1 July used") | / 2012, quotes: | "Mechanical pi | lot hoists shall not be |
| A.1/4.49 | Pilot ladder | _ | Reg. — V/23, Reg. — X/3. — | Reg. — V/23, IMO — Res. A.1045(2' IMO MSC/ Circ. 773. | IMO B + D Res.AB 04E(27), ISO B + F 7)799 G (2004). |
| A.1/4.50 | DGPS Equipment | | Reg. — V/18, Reg. — X/3, IMO Res. MSC 36(63)-(1994 HSC Code) 13, IMO Res. MSC 97(73)-(2000 HSC Code) 13. | Reg. — V/19, IMO Res. A.694 (17), IMO Res. MSC.36(63)-(1994 — HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code)— 13, Or, | EN B + D 60945B + E (2002)B + F includ@ig IEC 60945 Corrigendum 1 (2008), EN 61108-1 (2003), EN 61108-4 (2004), EN 61162 series, EN 62288 (2008). |

| A.1/4.51 | DGLONASS Equipment | (1994 HSC Code 13, IMO Res. | Reg. WSC (1994 (17), IMO Res. MSC (1994 HSC Code 13, IMO Res. MSC (2000 HSC Code 13, IMO Res. MSC (1994 HSC Code 13, IMO Res. MSC (2000 Res. MSC IMO Res. MSC IMO Res. MSC IMO Res. MSC IMO Res. | .112(73), .114(73), .191(79) | including IEC 60945 Corrigendum 1 (2008), IEC 61108-1 (2003), IEC 61108-4 (2004), IEC 61162 series, IEC 62288 Ed.1.0(2008). EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61108-2 (1998), EN 61108-4 (2004), EN 61162 series, EN 61288 (2008). IEC 60945 (2002) including IEC 60945 (2002) including IEC 60945 |
|----------|--------------------|--|--|------------------------------|--|
| | | | | 191(79). | |

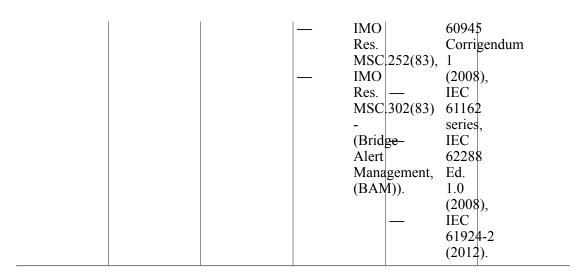
| A.1/4.52 | Daylight signalling lamp | Reg. — V/18, Reg. — X/3, IMO Res. — MSC.36(63)-(1994 HSC Code), IMO Res. — N600 Res. — | Reg. — V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC — Code), IMO | IEC 61108-2 (1998), IEC 61108-4 (2004), IEC 61162 series, IEC 62288 Ed.1.0(2008). EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), ISO 25861 (2007). |
|----------|--------------------------------|--|--|--|
| | | MSC 97(73)- (2000 HSC — Code). | Res. Or, MSC 95(72), IMO Res. MSC 97(73)- (2000 HSC Code). | IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ISO 25861 (2007). |
| A.1/4.53 | Radar target enhancer | Reg. V/18, Reg. X/3, IMO Res. MSC 36(63)-(1994 HSC Code) 13, — IMO Res. MSC 97(73)-(2000 | IMO — Res. A.694(17), IMO — Res. MSC 36(63)- (1994 HSC Code) 13, IMO Res. MSC 97/(73)- (2000 HSC | ISO B + D 8729-B + E (2009)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008), |

| | | (| HSC Code) 13. — | Code)— 13, IMO Res. — MSC.164(78), ITU- R M 1176-1 (02/13) | ISO 8729-2 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). |
|----------|--------------------|---|---------------------------------------|--|---|
| A.1/4.54 | Bearing Device | | Reg. — V/18. | Reg. — V/19. — — — — — — — — — — — — — — — — — — — | ISO B + D 25862B + E (2009)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ISO 25862 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). |
| A.1/4.55 | AIS SART equipment | I | Reg. — III/4, Reg. — IV/14. — — — — — | Reg. — III/6, Reg. IV/7, IMO Res. MSC 246(83), IMO Res. MSC 247(83), IMO Res. MSC 247(84), ITU-R | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61097-14 (2010). IEC 60945 |

| | | | | M. 1371-4(2010). — | (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-14 (2010). |
|----------|--|--|-------------|--|---|
| A.1/4.56 | Galileo Receiver | (1994 HSC Code 13, — IMO Res. | 97(73)- (1) | Reg. — V/19, IMO Res. A.694(17), IMO Res. A.813(19), IMO Res. — MSC.36(63)- (1994 HSC — Code) 13, IMO — Res. MSC.97(73)- (2000 Or, HSC — Code) 13, IMO Res. MSC.191(79), IMO Res. MSC.233(82). — — — — | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61108-3 (2010), EN 61162 Series, EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-3 (2010), IEC 61108-3 (2010), IEC 61162 Series, IEC 61162 Series, IEC 62288 Ed.1.0(2008). |
| A.1/4.57 | Bridge Navigational Watch Alarm System (BNWAS) | — Reg. V/18 |] | IMO — Res. A.694(17), | EN B + D 60945B + E (2002)B + F including IEC |

| | | | | _ | IMO Res. | .128(75), — .191(79). — Or, — | 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62288 (2008), IEC 62616(2010) |
|--|---------------------|---|--------------------------------------|---|--|--|--|
| | | | | | | _ | including IEC 62616 Corrigendum 1 (2012). IEC 60945 (2002) including IEC 60945 |
| | | | | | | _ _ _ | Corrigendum 1 (2008), IEC 61162 Series, IEC 62288 Ed.1.0(2008), IEC 62616(2010) including |
| A.1/4.58 | Sound | _ | Reg. | | Reg. | | IEC 62616 Corrigendum 1 (2012). EN B+D |
| Refer to note c) of this Annex A.1 | reception system | _ | V/18, Reg. X/3, IMO Res. | | V/19, IMO Res. A.694 IMO Res. | 4(17), .36(63)- | 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), |

| | | | IMO Res. MSC,97(73)- (2000 HSC Code).— | HSC — Code), IMO Res. — MSC 86(70), IMO Res. — MSC 97(73)- (2000 HSC Or, Code),— IMO Res. MSC 191(79). — — — | EN 61162 series, EN 62288 (2008), ISO 14859 (2012). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008), ISO 14859 (2012). |
|-------------------------|------------------------------|---|--|--|---|
| A.1/4.59 Ex A.2/4.15 | Integrated navigation system | _ | Reg. V/18, Reg. X/3, IMO Res. — MSC.36(63)-(1994 HSC Code) 13, IMO Res. — MSC.97(73)-(2000 HSC Code) 13. | Reg. — V/19, IMO Res. A.694(17), IMO Res. MSC 36(63)-(1994 HSC — Code) 13, IMO — Res. MSC 97(73)-(2000 — HSC Code) 13, Or, IMO — Res. MSC 191(79), | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008), IEC 61924-2 (2012). IEC 60945 (2002) including IEC |



5. Radiocommunication equipment

Notes applicable to section 5: Radiocommunication equipment.

Column 5 : In case of conflicting requirements between IMO MSC/Circ.862 and the

product testing standards, the IMO MSC/Circ.862 requirements shall

take precedence.

Column 5 : IEC 61162 series refer to the following reference standards for

Maritime navigation and radiocommunication equipment and

systems — Digital interfaces:

— IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners

— IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission

— IEC 61162-3 ed1.1 Consol. with am1 (2010-11) -

Part 3: Serial data instrument network

— IEC 61162-3 ed1.0 (2008-05) - Part 3: Serial data instrument network

— IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 — Part 3: Serial data instrument network

IEC 61162-450 ed1.0 (2011-06) - Part 450:
 Multiple talkers and multiple listeners — Ethernet interconnection

EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems — Digital interfaces:

- EN 61162-1 (2011) Part 1: Single talker and multiple listeners
- EN 61162-2 (1998) Part 2: Single talker and multiple listeners, high-speed transmission
- EN 61162-3 (2008) Part 3: Serial data instrument network
 - EN 61162-3-am1 (2010) Amendment 1 Part 3: Serial data instrument network

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— EN 61162-450 (2011) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

| No. | designation SOLAS 74, as amended, where "type approval" is required and circulars of the IMO, as | | amended, and the relevant resolutions and circulars of the | Testing standards | Modules for conformity assessment |
|---------|--|---|--|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.1/5.1 | VHF radio capable of transmitting and receiving DSC and radiotelephony | MSC (1994 HSC Code 14, — IMO Res. | — Reg. X/3, — IMO Res. 36(63)- A.38 — IMO Res. A.52 — IMO Res. A.69 — IMO Res. A.80 — IMO Res. A.80 — IMO Res. MSC (1992 — HSC Code 14, — IMO Res. MSC (2000 — HSC Code 14, — IMO Res. MSC (2000 — IMO Res. MSC (2000 — IMO Res. MSC (2000 — IMO MSC Circ. IMO | MSC Circ.: EN 6094 (2002 5(X), including IEC 6094 4(13), Corriding (2008) 4(17), EN 6116: series (2016) EN 300 338-1 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 300 338-2 (2016) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI EN 301 843-2 (2004) ETSI ETSI EN 301 843-2 (2004) ETSI ETSI EN 301 843-2 (2004) ETSI ETSI ETSI EN Solicitudes (2004) ETSI ETSI EN Solicitudes (2004) ETSI ETSI ETSI EN Solicitudes (2004) ETSI | 2) ding 5 gendum 3), 2 5, 1 1-02), 2 1 1-06), |

| | I | I | I | ITU- | V1.3.1 |
|---------|-------------------|---|-----------------------|----------------------------------|---------------------------|
| | | | | R M.489Oft, | (2010-09). |
| | | | | (10/95) | IMO |
| | | | _ | ITU- R | MSC/ Circ.862, |
| | | | | M.493 -1 3 | IEC |
| | | | _ | (10/09), ITU- | 60945 (2002) |
| | | | | R M.541-9 | including IEC |
| | | | | (05/04), | 60945 |
| | | | _ | ITU- R | Corrigendum 1 |
| | | | | M.689-2 (09/9 4). | (2008), IEC |
| | | | | (0)/) 1). | 61097-3 |
| | | | | _ | (1994), IEC |
| | | | | | 61097-7 (1996), |
| | | | | _ | ÎEC |
| | | | | | 61162 series. |
| A.1/5.2 | VHF DSC | _ | Reg. — | Reg. — | EN B+D |
| | watch- keeping | | IV/14, Reg. — | IV/7, Reg. | 60945B + E (2002)B + F |
| | receiver | | X/3, | X/3, | including |
| | | | IMO — Res. | IMO Res. | IEC 60945 |
| | | | MSC 36(63)- (1994— | A.694(17), IMO | Corrigendum 1 |
| | | | HSC | Res. | (2008), |
| | | | Code) 14, — | A.803 (19), IMO | EN 61162 |
| | | _ | IMO Res. | Res. MSC. 36 (63)- | series, ETSI |
| | | | MSC 97(73)- | (1994 | EN |
| | | | (2000 HSC | HSC Code) | 300 338-1 |
| | | | Code) 14. — | 14, IMO | V1.3.1 (2010-02), |
| | | | | Res. — | ETSI |
| | | | | MSC 97(73)- (2000 | EN 300 |
| | | | | HSC Code) | 338-2 V1.3.1 |
| | | | | 14, | (2010-02), |
| | | | | IMO — COMSAR | ETSI EN |
| | | | | Circ.32, | 301033 |

| | | | _ | ITU- R M.489- (10/95), ITU- R M.493- (10/09), ITU- C R — M.541- (05/04). | , 13 , Or, - 9 | V1.3 1 (2010-09), ETSI EN 301 843-2 V1.2 1 (2004-06), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 61162 series. |
|---------|-----------------|--|---|--|-------------------------------|--|
| A.1/5.3 | NAVTEX receiver | (1994 HSC Code 14, IMO Res. | | Reg. – IV/7, Reg. X/3, IMO Res. A.694(IMO Res. MSC 34(1994 HSC Code) 14, IMO Res. – MSC 97(2000 HSC Code) 14, IMO Res. – MSC 14, IMO Res. – MSC 14 | 6(63)- 7(73)- | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), ETSI EN 300 065-1 V1.2.1 (2009-01), ETSI EN 301 843-4 V1.2.1 (2004-06), IEC 60945 (2002) |

| | | | | | IMO COMSAR | including IEC |
|---------|--------------|---|--------------|-------------|-------------------------|------------------|
| | | | | | Circ.32, | 60945 |
| | | | | | ITU-R | Corrigendum |
| | | | | | M.540-2 | (2008), |
| | | | | | (06/90) | IEC , |
| | | | | _ | ITU- | 61097-6 |
| | | | | | R | (2005-12). |
| | | | | | M.625-3 | |
| | | | | | (10/95). | |
| A.1/5.4 | EGC receiver | _ | Reg. | | Reg. — | EN B+D |
| 11.1,0 | | | IV/14 | | IV/7, | 60945B + E |
| | | | Reg. | | Reg. | (2002)B + F |
| | | | X/3, | | X/3, | including |
| | | | IMÓ | _ | IMÓ | IEC |
| | | | Res. | | Res. | 60945 |
| | | | MSC | .36(63)- | A.570(14), | Corrigendum |
| | | | (1994 | ·— | IMO | 1 |
| | | | HSC | | Res. | (2008), |
| | | | Code |) | A.69 4(1 7), | ETSI |
| | | | 14, | _ | IMO | ETS |
| | | | IMO | | Res. | 300460 |
| | | | Res. | 07(72) | MSC 36(63)- | Ed.1 |
| | | | | .97(73)- | (1994 | (1996-05), |
| | | | (2000 HSC | | HSC — Code) | ETSI ETS |
| | | | Code | \ | 14, | 300 |
| | | | 14. | , | IMO | 460/ |
| | | | | | Res. | A1 |
| | | | | | MSC 97(73)- | (1997-11), |
| | | | | | (2000— | ETSI |
| | | | | | HSC | EN |
| | | | | | Code) | 300829 |
| | | | | | 14, | V1.1.1 |
| | | | | _ | IMO | (1998-03), |
| | | | | | Res. — | ETSI |
| | | | | | MSC 306(87), | |
| | | | | | IMO COMSAR | 301 843-1 |
| | | | | | Circ.32. | V1.3.1 |
| | | | | | CIIC.52. | (2012-08), |
| | | | | | Or, | (2012-00), |
| | | | | | | IEC |
| | | | | | | 60945 |
| | | | | | | (2002) |
| | | | | | | including |
| | | | | | | IEC |
| | | | | | | 60945 |
| | | | | | | Corrigendum |
| | | | | | | 1 (2009) |
| | | | | | | (2008), |

| | | | | | | IEC | |
|---------|-------------|-----|---------------|-----------------------|-------------------------|-------------|---|
| | | | | | | 61097-4 | |
| | | | | | | (2007). | |
| A.1/5.5 | HF marine | | Dog | | Рас | EN B+D | — |
| A.1/3.3 | safety | | Reg. IV/14 | _ | Reg. — IV/7, | 60945B + E | |
| | information | | Reg. | , | Reg. | (2002)B + F | |
| | (MSI) | | X/3, | _ | X/3, | including | |
| | equipment | | IMO | | IMO | IEC | |
| | (HF NBDP | | Res. | _ | Res. | 60945 | |
| | receiver) | | | .36(63)- | A.694(17), | | |
| | icccivci) | | (1994) | | IMO IMO | 1 | |
| | | | HSC | · | Res. | (2008), | |
| | | | Code | | A.699 (17), | | |
| | | | 14, | , | 1000 IMO | 61162 | |
| | | | IMO | | Res. | Series, | |
| | | | Res. | | A.700 (17), | | |
| | | | | . 97 (73)- | IMO (17), | ETS | |
| | | | (2000) | \ / | Res. | 300067 | |
| | | | HSC | | A.806(19), | | |
| | | | Code | | IMO (17), | (1990-11), | |
| | | | 14 | | Res. — | ETSI TT), | |
| | | | | | MSC 36(63 | | |
| | | | | | (1994 | 300 | |
| | | | | | HSC | 067/ | |
| | | | | | Code) | A1 | |
| | | | | | 14, | Ed.1 | |
| | | | | _ | IMO | (1993-10). | |
| | | | | | Res. Or, | | |
| | | | | | MSC.9 7 (73 | | |
| | | | | | (2000 | 60945 | |
| | | | | | HSC | (2002) | |
| | | | | | Code) | including | |
| | | | | | 14, | IEC | |
| | | | | _ | IMO | 60945 | |
| | | | | | COMSAR | Corrigendum | |
| | | | | | Circ.32, | 1 | |
| | | | | - | ITU- | (2008), | |
| | | | | | R — | IEC | |
| | | | | | M.491-1 | 61162 | |
| | | | | | (07/86), | Series, | |
| | | | | _ | ITU- R | ETSI ETS | |
| | | | | | M.492-6 | 300067 | |
| | | | | | (10/95), | Ed.1 | |
| | | | | | (10/55), ITU- | (1990-11), | |
| | | | | | R — | ETSI | |
| | | | | | M.540-2 | ETS | |
| | | | | | (06/90), | 300 | |
| | | | | | ITU- | 067/ | |
| | | | | | R | A1 | |
| | | | | | M.625-3 | Ed.1 | |
| | | | | | (10/95), | (1993-10). | |
| | T. | I . | | ' | 1// | ` ' ' | |

| | | | | | ITU- | |
|---------|----------------|---|--------|-----------------------|-------------------------|----------------------|
| | | | | | R | |
| | | | | | M.688 | |
| | | | | | (06/90). | |
| A.1/5.6 | 406 MHz | | Reg. | | Reg. — | IMO B + D |
| A.1/3.0 | EPIRB | | IV/14 | | IV/7, | MSC/B + E |
| | (COSPAS- | | Reg. | · | Reg. | Circ. 862 + F |
| | SARSAT) | | X/3, | | X/3, — | EN EN |
| | Si iitisi ii) | | IMO | | IMO | 60945 |
| | | | Res. | | Res. | (2002) |
| | | | | 36(63)- | A.662(16), | including |
| | | | (1994 | | IMO | IEC S |
| | | | HSC | | Res. | 60945 |
| | | | Code | | A.694(17), | Corrigendum |
| | | | 14, | <u> </u> | IMO | 1 |
| | | _ | IMO | | Res. | (2008), |
| | | | Res. | | A.696 (1 7), | ETSI |
| | | | | . 97 (73)- | IMO | EN |
| | | | (2000) |) | Res. | 300066 |
| | | | HSC | | A.810(19), | V |
| | | | Code |)— | IMO | 1.3.1 |
| | | | 14. | | Res. | (2001-01). |
| | | | | | MSC 306(63)- | n (o |
| | | | | | (1994— | IMO |
| | | | | | HSC | MSC/ |
| | | | | | Code) | Circ. \$62, |
| | | | | | 14, — | IEC |
| | | | | | IMO Res. | 60945 (2002) |
| | | | | | MSC 97(73)- | including |
| | | | | | (2000) | IEC |
| | | | | | HSC | 60945 |
| | | | | | Code) | Corrigendum |
| | | | | | 14, | 1 |
| | | | | | IMO | (2008), |
| | | | | | MSC/— | IEC " |
| | | | | | Circ.862, | 61097-2 |
| | | | | | IMO | (2008), |
| | | | | | COMSAR | Note: |
| | | | | | Circ.32, | IMO |
| | | | | | ITU- | MSC/ |
| | | | | | R | Circ. 862 |
| | | | | | M.633-3 | is |
| | | | | | (05/04), | applicable |
| | | | | _ | ITU- | only |
| | | | | | R | to |
| | | | | | M.690-1 | the |
| | | | | | (10/95). | optional |
| | | | | | | remote |
| | | | | | | activation device, |
| | | | | | | not |
| | | | | l | I | not |

| A.1/5.7 A.1/5.8 A.1/5.9 | L- band EPIRB (INMARSAT) 2182 kHz watch receiver Two-tone | Deliberately lef Deliberately lef | t blank | | to the EPIRB itself. |
|---------------------------|---|---|--|---|--|
| 11.1/3.9 | alarm generator | Benoclately let | Colum | | |
| A.1/5.10 | MF radio capable of transmitting and receiving DSC and radiotelephony Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards | MSC. (1994 HSC Code) 14, — IMO Res. | —————————————————————————————————————— | Reg. — IV/9, Reg. IV/10, — Reg. IV/10, — Reg. X/3, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 — HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14, IMO COMSAR Circ.32, ITU-R M.493-13 (10/09), ITU-R R M.541-9 (05/04). | IMO B + D MSC/B + E Circ.862+ F EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI EN 300 373-1 V1.3.1 (2011-01), ETSI EN 301 843-5 |

| | | | | V1.1.1 |
|----------|----------|-------------|-------------|-------------|
| | | | | (2004-06), |
| | | | Or, | (2004-00), |
| | | | OI, | IMO |
| | | | _ | IMO MCC/ |
| | | | | MSC |
| | | | | Circ.862, |
| | | | | IEC |
| | | | | 60945 |
| | | | | (2002) |
| | | | | including |
| | | | | IEC |
| | | | | 60945 |
| | | | | I |
| | | | | Corrigendum |
| | | | | |
| | | | | (2008), |
| | | | _ | IEC |
| | | | | 61097-3 |
| | | | | (1994), |
| | | | | ÎEC |
| | | | | 61097-9 |
| | | | | (1997), |
| | | | | IEC , |
| | | | | 61162 |
| | | | | |
| | | | | series. |
| A.1/5.11 | MF DSC | Reg. — | Reg. — | EN $B + D$ |
| | watch- | IV/14, | IV/9, | 60945B + E |
| | keeping | Reg. — | Reg. | (2002)B + F |
| | receiver | X/3, | IV/10, | including |
| | receiver | IMO — | Reg. | IEC |
| | | | | 60945 |
| | | Res. | X/3, | |
| | | MSC 36(63)- | IMO | Corrigendum |
| | | (1994 | Res. | 1 |
| | | HSC | A.694(17), | (2008), |
| | | Code)— | IMO — | EN |
| | | 14, | Res. | 61162 |
| | | IMO | A.804(19), | series, |
| | | Res. — | IMO — | ETSI |
| | | MSC 97(73)- | Res. | EN |
| | | (2000 | MSC 36(63)- | 300 |
| | | HSC | (1994 | 338-1 |
| | | Code) | HSC | V1.3.1 |
| | | 14. | Code) | (2010-02), |
| | | 17. | | |
| | | | 14, — | ETSI |
| | | - | IMO | EN |
| | | | Res. | 300 |
| | | | MSC 97(73)- | 338-2 |
| | | | (2000 | V1.3.1 |
| | | | HSC | (2010-02), |
| | | | Code)— | ETSI |
| | | | 14, | EN |
| | | | | 301033 |
| | | | | |

| | | | _ | IMO COMSAR Circ.32, ITU-R M.493-13 (10/09), ITU-R Or, M.541-9 (05/04), ITU-R M.1173 (10/95). | V1.2 1 (2010-09), ETSI EN 301 843-5 V1.1 1 (2004-06), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 61162 series. |
|----------|--|--|---|---|--|
| A.1/5.12 | Inmarsat-B SES Note: The service will be discontinued on and after 31 December 2014. | (1994 HSC Code 14, IMO Res. | 36(63)- - -) - 9 7 (73)- | Reg. — IV/10, Reg. X/3, IMO — Res. A.570(14), IMO Res. A.694(17), IMO Res. A.808(19), IMO Or, Res. — MSC 36(63)-(1994 HSC Code) — 14, IMO Res. MSC 97(73)-(2000 HSC MSC MSC | IMO B + D MSC/B + E Circ B + F 862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). IMO MSC/ Circ 862, IEC 60945 (2002) including IEC 60945 (2002) CORRIGE IEC 60945 CORRIGE |

| Code 1 14, | | | | | | | |
|--|----------|------------|---|------|-------------|-------------|-------------|
| A.1/5.13 | | | | | | Code | 1 |
| MO | | | | | | ř | |
| MSC Circ. 862, IMO COMSAR Circ. 32. | | | | | | | (2000). |
| A.1/5.13 Inmarsat-C SES | | | | | | | |
| A.1/5.13 | | | | | | | |
| A.1/5.13 Immarsat-C Reg. Reg. IMO B + D | | | | | | | |
| A.1/5.13 Inmarsat-C SES Reg. Reg. IMO B + D IMO MSC/B + E Circ.8 MC7 F X/3, X/3, EN IMO 60945 Res. (2002) MSC/36(63) A.570(14), including (1994 - 1 MO 14, (16), 1 (16), 1 (16), 1 (16), 1 (17), 16 (17), 17 (| | | | | | | |
| Immarsat-C Reg. Reg. IMO B + D | | | | | | | |
| SES | | | | | | Circ.32. | |
| SES | Λ 1/5 13 | Inmarcat C | | Peg | | Pag | IMO R + D |
| | A.1/J.1J | 1 | | | | | I |
| No | | SES | | | , | 1 - | |
| MO | | | | | _ | | |
| Res. (2002) (1994 | | | | | | | |
| MSC 36(63) - A.570(14), including (1994 — IMO IEC Res. 60945 Code A.664 Corrigendum 14, (16), 1 IMO (applicable (2008), only — EN MSC 97(73) - if 61162 (2000 the series, HSC Inmarsat ETSI Code C ETS 300460 Comprises Ed.1 EGC (1996-05), functions), ETSI EGC (1996-05), functions), ETSI EGC (1996-05), functions), ETSI MO ETS Res. 300 A.694(17), 4660/ IMO A1 Res. (1997-11), A.807(19), ETSI — IMO EN Res. 300829 MSC 36(63) - V1.1.1 (1994 (1998-03), HSC ETSI Code EN 14, 301 MSC FEC EC Code 60945 14, (2002) IMO including MSC IEC IEC IMO Including MSC IEC IEC IMO IEC IEC IMO IEC IEC IMO Including MSC IEC IEC IMO IEC IEC IMO Including MSC IEC IEC IMO IEC IEC IMO Including MSC IEC IEC IMO IEC IEC IMO Including IMO IEC IEC IMO Including IMO IEC IEC | | | _ | | _ | | I |
| (1994— IMO HSC Res. 60945 Code) A.664 Corrigendum 14, (16), 1 IMO (applicable (2008), only — EN MSC) 97(73)- if 61162 (2000 the series, HSC Inmarsat ETSI Code) C ETS 14. SES 300460 comprises Ed.1 EGC (1996-05), functions), ETSI MO ETS Res. 300 A.694(17), 460/ IMO ETS Res. 300 A.694(17), 460/ IMO ETSI IMO Res. (1997-11), A.807(H9), ETSI — IMO Res. 300829 MSC 36(63)- V1.11 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 IMO Res. V1.31 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | | |
| HSC Res. 60945 Code A.664 Corrigendum 14, | | | | | | | |
| Code) | | | | | · - | | |
| | | | | HSC | | Res. | 60945 |
| Mo | | | | Code |) | A.664 | Corrigendum |
| Mo | | | | 14, | | (16), | 1 |
| Res. MSC 97(73)- if 61162 (2000 the series, HSC Inmarsat ETSI Code) C ETS 14. SES 300460 comprises Ed.1 EGC (1996-05), functions), ETSI IMO ETS Res. 300 A.694(17), 460/ IMO A1 Res. (1997-11), A.807(19), ETSI IMO EN Res. 300829 MSC 36(63)- V1.1 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 IMO 843-1 Res. V1.3.1 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | _ | | | | (2008), |
| MSC 97(73)- if 61162 (2000 the series, HSC Inmarsat ETSI Code) C ETS 14. SES 300460 comprises Ed.1 EGC (1996-05), functions), ETSI — IMO ETS Res. 300 A.694(17), 460/ — IMO A1 Res. (1997-11), A.807(19), ETSI — IMO EN Res. 300829 MSC 36(63)- V1.1,1 (1994 (1998-03), HSC ETSI Code) EN 14, 301 Res. V1.3,1 MSC 97(73)- (2012-08), (2000 Or, HSC IEC Code 60945 14, (2002) IMO including MSC/ IEC | | | | Res. | | | |
| (2000 the series, Inmarsat ETSI Code) C ETS 14. SES 300460 comprises Ed.1 EGC (1996-05), functions), ETSI IMO ETS Res. 300 | | | | | 97(73)- | | |
| HSC | | | | | ` ′ | | |
| Code) 14. SES 300460 comprises Ed.1 EGC (1996-05), functions), ETSI IMO ETS Res. 300 A.694(17), 460/ IMO A1 Res. (1997-11), A.807(+9), ETSI IMO EN Res. 300829 MSC 36(63)- V1.1.1 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 IMO 843-1 Res. V1.3.1 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | | |
| 14. SES 300460 | | | | | ` | | |
| comprises Ed.1 EGC (1996-05), functions), ETSI IMO ETS Res. 300 A.694(17), 460/ IMO A1 Res. (1997-11), A.807(+9), ETSI IMO EN Res. 300829 MSC 36(63)- V1.1,1 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 IMO 843-1 Res. V1.3,1 Res. V1.3,1 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | , | | I |
| EGC (1996-05), functions), ETSI | | | | 14. | | | I |
| functions), ETSI IMO ETS Res. 300 A.694(17), 460/ IMO A1 Res. (1997-11), A.807(19), ETSI MESC. 300829 MSC.36(63)- V1.1.1 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 IMO 843-1 Res. V1.3.1 MSC.97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | | |
| Ho Res. 300 A.694(17), 460/ | | | | | | | |
| Res. 300 A.694(17), 460/ IMO A1 Res. (1997-11), A.807(19), ETSI IMO EN Res. 300829 MSC.36(63)- V1.1.1 (1994 (1998-03), HSC ETSI Code EN 14, 301 MSC.97(73)- (2012-08), (2000 Or, HSC IEC Code 60945 14, (2002) IMO including MSC/ IEC IEC IEC IEC IEC IEC IEC IEC IMO Including MSC/ IEC IEC IEC IEC IEC IEC IEC IMO Including MSC/ IEC IE | | | | | | | |
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| - IMO Res. (1997-11), A.807(19), ETSI - IMO EN Res. 300829 MSC 36(63)- V1.1.1 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 - IMO 843-1 Res. V1.3.1 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | | |
| Res. (1997-11), A.807(19), ETSI IMO EN Res. 300829 MSC.36(63)- V1.1.11 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 | | | | | | \ // | |
| - IMO EN Res. 300829 MSC 36(63)- V1.1.11 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 — IMO 843-1 Res. V1.3.1 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) — IMO including MSC/ IEC | | | | | _ | | |
| - IMO Res. 300829 MSC 36(63)- V1.1.1 (1994 (1998-03), HSC - ETSI Code) EN 14, 301 - IMO 843-1 Res. V1.3.1 MSC 97(73)- (2012-08), (2000 Or, HSC - IEC Code) 60945 14, (2002) - IMO including MSC/ IEC | | | | | | | |
| Res. 300829 MSC 36(63)- V1.1 1 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 — IMO 843-1 Res. V1.3 1 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | | |
| MSC 36(63)- V1.1.1 (1994 (1998-03), HSC — ETSI Code) EN 14, 301 — IMO 843-1 Res. V1.3.1 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) — IMO including MSC/ IEC | | | | | _ | IMO | EN |
| (1994 (1998-03), HSC — ETSI Code) EN 14, 301 — IMO 843-1 Res. V1.3.1 MSC.97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | | 300829 |
| (1994 (1998-03), HSC — ETSI Code) EN 14, 301 — IMO 843-1 Res. V1.3.1 MSC.97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | MSC 36(63)- | V1.1.1 |
| HSC — ETSI Code) EN 14, 301 — IMO 843-1 Res. V1.3.1 MSC.97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) — IMO including MSC/ IEC | | | | | | | |
| Code) EN 14, 301 — IMO 843-1 Res. V1.3.1 MSC.97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | | |
| - IMO 843-1 Res. V1.3.1 MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | | | I |
| - IMO 843-1 Res. V1.3.1 MSC.97(73)- (2012-08), (2000 Or, HSC - IEC Code) 60945 14, (2002) - IMO including MSC/ IEC | | | | | | | |
| Res. V1.3.1 MSC.97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) IMO including MSC/ IEC | | | | | _ | | |
| MSC 97(73)- (2012-08), (2000 Or, HSC — IEC Code) 60945 14, (2002) — IMO including MSC/ IEC | | | | | | | |
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| Code) 60945 14, (2002) — IMO including MSC/ IEC | | | | | | | IEC |
| — IMO including MSC/ IEC | | | | | | | |
| — IMO including MSC/ IEC | | | | | | | |
| MSC/ IEC | | | | | | | |
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| Circ.\\$62, 6094\\$ | | | | | | | |
| | | | | | | Circ.862, | 60945 |

| A 1/5 1 4 | ME/HE L | - | IMO COMSAR Circ.32. | Corrigendum 1 (2008), IEC 61097-4 (2007), IEC 61162 series. |
|-----------|---|--|--|---|
| A.1/5.14 | MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on A3H are no longer applicable in testing standards. | (1994- HSC Code) 14, IMO Res. | Reg. — IV/10, Reg. X/3, — IMO Res. A.694(17), IMO Res. A.806(19), IMO Res. MSC. 36(63)-(1994 HSC Code) — 14, IMO Res. MSC. 97(73)-(2000 — HSC Code) 14, IMO MSC/ Circ. 862, IMO — COMSAR Circ. 32, ITU- R M.476-5 (10/95), ITU- R M.491-1 (07/86), ITU- R M.492-6 (10/95), ITU- R M.492-6 (10/ | IMO B + D MSC/B + E Circ.862+ F EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI ETS 300067 Ed.1 (1990-11), ETSI ETS 300 067/ A1 Ed.1 (1993-10), ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI ETS 300 3373-1 |

| | | | _ | ITU-R M.493 (10/09) ITU-R M.54] (05/04) ITU-R M.625 (10/95) ITU-R M.117 (10/95) | 9), 1-9 4), Or, — 5-3 5), — | V1.3.1 (2011-01), ETSI EN 301 843-5 V1.1.1 (2004-06), IMO MSC/ Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 61162 series. |
|----------|---|---|---|--|--|---|
| A.1/5.15 | MF/HF DSC scanning watch keeping receiver | (1994 HSC Code) 14, IMO Res. | | (1994 HSC Code) 14, IMO Res. | 5(17), 5(19), 36(63)- | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 |

| | | | | Code) 14, IMO — COMSAR Circ.32, ITU- R M.493-13 (10/09), ITU- R M. 541-9 (05/040r, — | V1.3.1 (2010-02), ETSI EN 301033 V1.3.1 (2010-09), ETSI EN 301 843-5 V1.1.1 (2004-06). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 61162 series. |
|----------|--|----------|---|---|--|
| A.1/5.16 | Aeronautical two way VHF radio telephone apparatus | Moved to | A.2/5.8 | | |
| A.1/5.17 | Portable survival craft two- way VHF radiotelephone apparatus | | Reg. — IV/14, Reg. — X/3, IMO Res. — MSC 36(63)-(1994 HSC — Code) 14, IMO Res. MSC 97(73)-(2000 | Reg. — III/6, IMO Res. A.694(17), IMO Res. A.809(19), IMO Res. — MSC.36(63)-(1994 HSC Code) | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), ETSI EN 300225 V1.4.1 (2004-12), |

| | | HSC Code 14. |) | 8, | ETSI EN 301 843-2 V1.2.1 (2004-06). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-12 (1996). |
|----------|---|---|-------|--|--|
| A.1/5.18 | Fixed survival craft two-way VHF radiotelephone apparatus | (1994 HSC Code) 14, IMO Res. | | Reg. III/6, IMO Res. A.694(17), IMO Res. A.809(19), IMO Res. — MSC.36(63)-(1994 HSC Code) 8, Or, 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 8, 14, ITU-— R M.489-2 (10/95). | EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), ETSI EN 301466 V1.1.1 (2000-10), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-12 (1996). |
| A1/5.19 | Inmarsat-F77 | Reg. IV/14 Reg. X/3, | | Reg. — IV/10, IMO Res. — | IMO B + D MSC/B + E Circ.862+ F EN 60945 |

| | IMO Res. MSC 36(63)- (1994 HSC Code) 14, — IMO Res. MSC 97(73)- (2000— HSC Code) 14. | A.570 (14), IMO Res. A.808 (19), IMO Res. A.694 (17), IMO Or, Res. MSC.36(63)- (1994 HSC — Code) 14, IMO Res. | (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-13 (2003). IMO MSC/ Circ.862, IEC 60945 (2002) including |
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| | | | IMO |
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| | | | |
| | | Res. | IEC |
| | | MSC 97(73)- | 60945 |
| | | (2000 | Corrigendum |
| | | HSC | 1 |
| | | Code) | (2008), |
| | | 14, — | IEC |
| | | IMO | 61097-13 |
| | | MSC/ | (2003). |
| | | Circ.862, | |
| | _ | IMO | |
| | | COMSAR | |
| | | Circ.32. | |
| | | | |

6. **Equipment required under COLREG 72**

| No. | Item designation | Regulation COLREG 72 where "type approval" is required | Regulations of COLREG and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|---------|---------------------|---|--|----------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.1/6.1 | Navigation lights | — COLL Anne I/14. | x Anne I/14, — IMO Res. | x 1474 (200: | |

| | _ | IMO | — | EN |
|--|---|------|----------|-------------|
| | | Res. | | 60945 |
| | | MSC. | .253(83) | (2002) |
| | | | | including |
| | | | | IEC |
| | | | | 60945 |
| | | | | Corrigendum |
| | | | | 1 |
| | | | | (2008). |
| | | | Or, | |
| | | | | EN |
| | | | | 14744 |
| | | | | (2005) |
| | | | | including |
| | | | | AC |
| | | | | (2006), |
| | | | | IEC |
| | | | | 60945 |
| | | | | (2002) |
| | | | | including |
| | | | | IEC |
| | | | | 60945 |
| | | | | Corrigendum |
| | | | | 1 |
| | | | | (2008). |
| | | | | (2006). |

7. Bulk carrier safety equipment

No items in Annex A.1.

8. Equipment under SOLAS Chapter II-1. Construction –structure, subdivision and stability, machinery and electrical installations

| No. | Item designation | Regulation SOLAS 74, as amended, where "type approval" is required | Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|---------|-----------------------|---|---|-------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.1/8.1 | Water level detectors | — Reg. II-1/2 — Reg. II-1/2 — Reg. XII/1 | 22-1, II-1/2 — Reg. 25, XII/1 — IMO | 25, 6009 (200) 2, inclu | |

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| 1 | | | | ~ |
|---|--|------|----------|--------------|
| | | IMO | | Corrigendum |
| | | Res. | | 1 |
| | | MSC. | 188(79). | (2011), |
| | | | _ ` ´ | IEC |
| | | | | 60529 |
| | | | | (2001) |
| | | | | including: |
| | | | | Corrigendum |
| | | | | 1 |
| | | | | (2002) |
| | | | | (2003), |
| | | | | Corrigendum |
| | | | | 2 |
| | | | | (2007), |
| | | | | Corrigendum |
| | | | | 3 |
| | | | | (2009), |
| | | | _ | ÌMO |
| | | | | Res. |
| | | | | MSC 188(79), |
| | | | | IMO |
| | | | | MSC 1/ |
| | | | | Circ. 1291. |
| | | | | CIIC. 1271. |

ANNEX A.2

EQUIPMENT FOR WHICH NO DETAILED TESTING STANDARDS EXIST IN INTERNATIONAL INSTRUMENTS

1. Life-saving appliances

Column 4 : IMO MSC/Circular 980 should apply except when superseded by the specific instruments referred to in Column 4.

| No. | Item designation | Regulation SOLAS 74, as amended, where "type approval" is required | Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|---------|-------------------------------------|---|---|----------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.2/1.1 | Radar reflector for liferafts | — Reg. III/4, — Reg. III/34 | MSC | .48(66)- | |

| | | Reg. X/3. | (LSA Code). |
|---------|--|--|--|
| A.2/1.2 | Immersion suit materials | Deliberately left b | lank |
| A.2/1.3 | Float-free launching appliances for survival craft | — Reg. — III/4, Reg. — III/34. — — — — — — — — — — — — — — — — — — — | Reg. III/13, Reg. III/16, Reg. III/26, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, VI, IMO Res. MSC.97(73)-(2000 HSC Code) |
| | | | 8. |
| A.2/1.4 | Embarkation ladders | Moved to A.1/1.29 | 9 |
| A.2/1.5 | Public address & general emergency alarm system (when used as fire alarm device item A.1/3.53 shall apply) | — Reg. — III/6. — | IMO Res. A.1021(26), IMO Res. MSC.36(63)- (1994 HSC Code), IMO Res. MSC.48(66)- (LSA Code), |

| | | IMO | | |
|--|--|--------|----------|--|
| | | Res. | | |
| | | MSC | .97(73)- | |
| | | (2000) | | |
| | | HSC | | |
| | | Code |), | |
| | | IMO | | |
| | | MSC | / | |
| | | Circ.8 | | |
| | | | | |

2. **Marine pollution prevention**

| No. | Item designation | Regulation MARPOL 73/78, as amended, where "type approval" is required | Regulations of MARPOL 73/78, as amended, and the relevant resolutions and circulars of the IMO, applicable | Testing standards | Modules for conformity assessment |
|---------|---|---|--|----------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.2/2.1 | NOx analyser of Chemilunescer detector (CLD) or heated cheminulescen detector type (HCLD) type for use in on board direct measurement | | 2.8 | | |
| A.2/2.2 | On board exhaust gas cleaning systems | Moved to A.1/ | 2.10 | | |
| A.2/2.3 | Equipment using other equivalent methods to reduce on board NOx emissions | — Anne VI, Reg. 4. | x— Anne VI, Reg. 4 | × | |

| A.2/2.4 | Equipment using other technological methods to limit SOx emissions | _ | IMO — Res. MEPC.176(58 - (Revised MARPOL Annex VI, Reg. 4), IMO Res. MEPC.184(59 | IMO Res.) MEPC.176(58 - (Revised MARPOL Annex VI, Reg. 4). | 3) |
|--------------------|--|---|--|--|----|
| A.2/2.5 (new item) | On board NOx analysers using a measurement method other than the Direct Measurement and Monitoring Method of the NOx Technical Code 2008 | _ | IMO — Res. | IMO Res.) MEPC.176(58 - (Revised MARPOL Annex VI, Reg. 4) | 3) |

3. Fire protection equipment

| No. | Item designation | Regulation SOLAS 74, as amended, where "type approval" is required | Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment | | |
|---------|--|---|---|----------------------|--|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | | |
| A.2/3.1 | Non- portable and transportable extinguishers | Moved to A.1/3.52 | | | | | |
| A.2/3.2 | Nozzles for fixed pressure | Moved to A.1/3.49 | | | | | |

| | water- spraying fire- extinguishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicle spaces | |
|---------|--|--|
| A.2/3.3 | Cold-weather starting of generator sets (starting devices) | Moved to A.2/8.1 |
| A.2/3.4 | Dual purpose type nozzles (spray/jet type) | Moved to A.1/3.55 |
| A.2/3.5 | Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodatio spaces, machinery spaces and unattended machinery spaces | Moved to A.1/3.51 |
| A.2/3.6 | Smoke detectors | Moved to A.1/3.51 |
| A.2/3.7 | Heat detectors | Moved to A.1/3.51 |
| A.2/3.8 | Electric safety lamp | - Reg Reg IEC II-2/10, II-2/10, 60079 Reg IMO series. - X/3, Res. - IMO MSC 36(63)- Res. (1994 MSC 98(73)- HSC (FSS Code) Code 7, 3. |

| | | | _ | IMO Res. MSC 97(73)- (2000 HSC Code) 7, IMO Res. MSC 98(73)- (FSS Code), 3. | |
|----------|--|---------------|------|---|---|
| A.2/3.9 | Protective clothing resistant to chemical attack | — Reg. II-2/1 | 9 | Reg. — II-2/19, IMO Res. MSC.36(63)- (1994 HSC — Code) 7, IMO — Res. MSC.97(73)- (2000 HSC — Code) 7. — | EN 943-1 (2002) including AC (2005), EN 943-2 (2002), EN ISO 6529 (2001), EN ISO 6530 (2005), EN 14605 (2005) including A1(2009), IMO MSC/ Circ.1120. |
| A.2/3.10 | Low-location lighting systems | Moved to A.1/ | 3.40 | | |
| A.2/3.11 | Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces | Moved to A.1/ | 3.10 | | |
| A.2/3.12 | Equivalent fixed gas fire | Moved to A.1/ | 3.45 | | |

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| | extinguishing systems for machinery spaces and cargo pump rooms | |
|----------|--|--|
| A.2/3.13 | Compressed airline breathing apparatus (High Speed Craft) | Item deleted |
| A.2/3.14 | Fire hoses (reel type) | Moved to A.1/3.56 |
| A.2/3.15 | Sample extraction smoke detection systems components | Moved to A.1/3.63 |
| A.2/3.16 | Flame detectors | Moved to A.1/3.51 |
| A.2/3.17 | Manual call points | Moved to A.1/3.51 |
| A.2/3.18 | Alarm devices | Moved to A.1/3.53 |
| A.2/3.19 | Fixed water based local application fire fighting systems components for use in category "A" machinery spaces. | Moved to A.1/3.48 |
| A.2/3.20 | Upholstered furniture | Moved to A.1/3.20 |
| A.2/3.21 | Paint lockers and flammable liquid lockers fire extinguishing systems components | — Reg. — Reg. II-2/10. II-2/10, — IMO MSC 1/ Circ. 1239. |

| A.2/3.22 | Galley Exhaust Duct Fixed Fire Extinguishing Systems components | — Reg. — II-2/9. | Reg. II-2/9. |
|----------|--|---|---|
| A.2/3.23 | Helicopter Deck Fire Extinguishing Systems components | Moved to A.1/3.67 | |
| A.2/3.24 | Portable Foam Applicator Units | — Reg. — II-2/10, — Reg. — II-2/20, — Reg. — X/3. — — — — — — | Reg. II-2/10, Reg. II-2/20, IMO Res. MSC 36(63)-(1994 HSC Code) 7, IMO Res. MSC 97(73)-(2000 HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 4, IMO MSC 1/ Circ 1239, IMO MSC 1/ Circ 1313. |
| A.2/3.25 | C class Divisions | Moved to A.1/3.64 | |
| A.2/3.26 | Gaseous Fuel Systems Used for Domestic Purposes (components) | — Reg. — II-2/4. — | Reg. II-2/4, IMO MSC. 1/ Circ. 1276. |
| A.2/3.27 | Fixed Gas Fire | — Reg. — II-2/10, | Reg. Electrical II-2/1 Qutomatic |

| Extinguishing | Reg. | | Reg. | control a | nd |
|---------------|------|---|--------|-----------------------|-----------|
| Systems | X/3. | | II-2/2 | Odelay dev | vices: |
| (CO_2) | | | IMO | _ | EN |
| components. | | | Res. | | 12094-1 |
| P | | | | .36(63)- | (2003). |
| | | | (1994 | ` ′ | |
| | | | HSC | Non- | |
| | | | Code | electrical | |
| | | | 7, | automatic | 2 |
| | | | | control a | nd |
| | | _ | IMO | delay dev | vices: |
| | | | Res. | _ | EN |
| | | | | . 97 (73)- | 12094-2 |
| | | | (2000) | | (2003). |
| | | | HSC | | (2003). |
| | | | Code |)Manual | |
| | | | 7, | triggering | 2 and |
| | | | ΙΜΟ | stop devi | |
| | | | Res. | | EN |
| | | | | .98(73)- | 12094-3 |
| | | | (FSS | | |
| | | | | | (2003). |
| | | | Code | Containe | r |
| | | | 5, | rvolvio | - |
| | | _ | IMO | accemblia | 20 |
| | | | MSC | assembli | -5 |
| | | | Circ. | and their | |
| | | _ | IMO | actuators | |
| | | | MSC | . 17 | EN |
| | | | Circ. | 1318. | 12094-4 |
| | | | | | (2004). |
| | | | | IIi ah an d | |
| | | | | High and | |
| | | | | low press | sure |
| | | | | selector | |
| | | | | valves | |
| | | | | and their | |
| | | | | actuators | : |
| | | | | | EN |
| | | | | | 12094-5 |
| | | | | | (2006). |
| | | | | | (2000). |
| | | | | Non- | |
| | | | | electrical | |
| | | | | disable | |
| | | | | devices: | |
| | | | | | EN |
| | | | | | 12094-6 |
| | | | | | |
| | | | | | (2006). |
| | | | | Nozzles 1 | for |
| | | | | CO ₂ syste | |
| | | | | Superior System | |
| | | | | | EN |
| | | | | | 12094-7 |
| | | | | | (2000) |
| | | | | | including |
| 1 | 1 | • | | 1 | , 2 |

| | | | | A1 (2005) Connectors: — EN 1209- (2006) Pressure gauges and pressure switches: — EN 1209- (2003) Mechanical weighing devices: — EN 1209- (2003) Check valves and non- return valves: — EN 1209- (2001) includ AC (2002) Odorizing devices for CO ₂ low pressure systems: — EN | 4-8 5). 4-10 3). 4-11 3). ding 2). |
|----------|---|----------------|------|--|---|
| A.2/3.28 | Medium Expansion Foam Fire Extinguishing Systems components — Fixed Deck Foam for Tankers | Moved to A.1/2 | 3.57 | (2003 | <u> 1/·</u> |
| A.2/3.29 | Fixed Low Expansion Foam Fire Extinguishing | Moved to A.1/2 | 3.58 | | |

| | Systems components for Machinery Spaces and Tanker Deck Protection. | | | | |
|----------------------|---|--------------------------------------|----------|--|--|
| A.2/3.30 | Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers | Moved to A.1/2 | 3.59 | | |
| A.2/3.31 | Water Spraying Hand Operated System | — Reg. II-2/1 — Reg. II-2/1 | <u> </u> | Reg. II-2/10, Reg. II-2/19. | |
| A.2/3.32 | Dry chemical powder extinguishing systems | Moved to A.1/. | 3.62 | | |
| A.2/3.33 New item | Fire hoses with diameter > 52 mm | — Reg. II-2/1 — Reg. X/3. | 0, | Reg. III-2/10, IMO Res. MSC.36 (1994 HSC Code) 7, IMO Res. MSC.97 (2000 HSC Code) 7. | |

4. **Navigation equipment**

Notes applicable to section 4: Navigation equipment

Columns 3 and 4 : References to SOLAS Chapter V are to SOLAS 1974 as amended by

MSC 73 and entering into force on 1 July 2002.

Column 5 : IEC 61162 series refer to the following reference standards for Maritime

navigation and radiocommunication equipment and systems — Digital

interfaces:

- IEC 61162-1 ed4.0 (2010-11) Part 1: Single talker and multiple listeners
- IEC 61162-2 ed1.0 (1998-09) Part 2: Single talker and multiple listeners, high-speed transmission
- IEC 61162-3 ed1.1 Consol. with am1 (2010-11) Part 3: Serial data instrument network
- IEC 61162-3 ed1.0 (2008-05) Part 3: Serial data instrument network
 - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 Part 3: Serial data instrument network
- IEC 61162-450 ed1.0 (2011-06) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems — Digital interfaces:

- EN 61162-1 (2011) Part 1: Single talker and multiple listeners
- EN 61162-2 (1998) Part 2: Single talker and multiple listeners, high-speed transmission
- EN 61162-3 (2008) Part 3: Serial data instrument network
 - EN 61162-3-am1 (2010) Amendment 1 Part 3: Serial data instrument network
- EN 61162-450 (2011) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

| No. | Item designation | Regulation SOLAS 74, as amended, where "type approval" is required | Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|---------|---|---|---|----------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.2/4.1 | Gyro compass for high speed craft | Moved to A.1/ | 4.31 | | |
| A.2/4.2 | Heading control system for high speed craft (formerly auto-pilot) | Moved to A.1/ | /4.40 | | |

| A.2/4.3 | Transmitting heading device THD (GNSS method) | Moved t | o A.1/4.41 | | |
|----------|--|---------|---|--|--|
| A.2/4.4 | Daylight signalling lamp | Moved t | o A.1/4.52 | | |
| A.2/4.5 | Searchlight for high speed craft | Moved t | o A.1/4.42 | | |
| A.2/4.6 | Night vision equipment for high speed craft | Moved t | o A.1/4.43 | | |
| A.2/4.7 | Track control system | Moved t | o A.1/4.33 | | |
| A.2/4.8 | Electronic Chart Display and Information System (ECDIS). | Moved t | o A.1/4.30 | | |
| A.2/4.9 | Electronic Chart Display and Information System (ECDIS) backup | Moved t | o A.1/4.30 | | |
| A.2/4.10 | Raster Chart Display System (RCDS) | Moved t | o A.1/4.30 | | |
| A.2/4.11 | Combined GPS/ GLONASS equipment | | Reg. V/18, Reg. X/3, IMO Res. — MSC.36(63)-(1994 HSC Code), IMO Res. — MSC.97(73)-(2000 | Reg. — V/19, IMO Res. A.694(17), IMO Res. MSC 36(63)-(1994 HSC — Code), IMO Res. MSC 97(73)- | EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-1 (2003), |

| | | HSC (2000 — EN 61108-2 Code), (1998), — IMO — EN Res. 61162 MSC 115(73), series, EC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61108-1 (2003), — IEC 61108-2 (1998), — IEC 61162 series, — IEC 62288 Ed.1.0(2008). |
|----------|--|--|
| A.2/4.12 | DGPS, DGLONASS equipment | Moved to A.1/4.44, A.1/4.50 and A.1/4.51 |
| A.2/4.13 | Gyro compass for high speed craft | Moved to A.1/4.31 |
| A.2/4.14 | Voyage data recorder (VDR) | Moved to A.1/4.29 |
| A.2/4.15 | Integrated navigation system | Moved to A.1/4.59 |
| A.2/4.16 | Bridge equipment system | Deliberately left blank |
| A.2/4.17 | Radar target enhancer | Moved to A.1/4.53 |

| A.2/4.18 | Sound reception system | Moved to A. | 1/4.58 | | |
|----------|---|--|--|---|--|
| A.2/4.19 | Magnetic compass for high speed craft | (19 HS Co — IM Re: MS (20 HS | S, OO S | IMO — Res. A.382(X), IMO — Res. A.694(1-7), IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 — HSC Code). — — — | ISO 1069 (1973), ISO 25862(2009), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). ISO 1069 (1973), ISO 25862(2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). |
| A.2/4.20 | Track control system for — high-speed craft | Res MS (19 HS Co — IM Res MS (20 HS | 3, O O s. — SC 36(63)- 94 C de), O s. — SC 97(73)- | IMO — Res. A.694(17), IMO Res. MSC.36(63)- (1994 HSC Code), IMO — Res. MSC.97(73)- (2000 — HSC Code), IMO Or, Res. — MSC.191(79). | EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). IEC 60945 (2002) |

| | | | | | including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed. 1.0 (2008). |
|----------|---|------------------------------|---|---|---|
| A.2/4.21 | Chart facilities for shipborne radar | Moved to A.1/ | 4.45 | | |
| A.2/4.22 | Transmitting heading device THD (Gyroscopic method) | Moved to A.1/ | 4.46 | | |
| A.2/4.23 | Transmitting heading device THD (Magnetic method) | Moved to A.1/ | 4.2 | | |
| A.2/4.24 | Thrust indicator | HSC Code — IMO Res. | 2.36(63)- 4 5), — 2.97(73)- | Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC — Code), IMO Res. — MSC.97(73)-(2000 HSC Or, Code),— IMO Res. MSC.191(79). | EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum |

| A.2/4.25 | Lateral thrust, pitch and mode indicators | Code Code |
|----------|--|---|
| A.2/4.26 | Rate-of-turn indicator | Moved to A.1/4.9 |
| A.2/4.27 | Rudder angle indicator | Moved to A.1/4.20 |
| A.2/4.28 | Propeller revolution indicator | Moved to A.1/4.21 |

| A.2/4.29 | Pitch indicator | Moved to A.1/4.22 |
|----------|---|---|
| A.2/4.30 | Bridge equipment system | — Reg. — EN V/18 V/19 60945 — Reg. — IMO (2002) X/3 Res. including — IMO A.694 IEC Res. (17) 60945 MSC 36(63)- IMO Corrigendum (1994 Res. 1 HSC MSC 36(63)- (2008) Code) (1994 — EN 13 HSC 61162 Res. 15 — EN MSC 97(73)- IMO 62288 (2000 Res. (2008) HSC MSC 97(73)- IEC 13 HSC 60945 Code) (2002) Isc 15 including IEC Res. 60945 MSC 191(79) Corrigendum IMO 1 SN 1/ (2008) Circ 288 IEC 61162 Series, — IEC 62288 |
| A.2/4.31 | Bearing Device | Moved to A.1/4.54 |
| A.2/4.32 | Bridge Navigational Watch Alarm System (BNWAS) | Moved to A.1/4.57 |
| A.2/4.33 | Track control system (working at ship's speed from 30 knots and above) | Deliberately left blank |
| A.2/4.34 | Equipment with Long | — Reg. — Reg. — EN V/19+1. V/19+1, 60945 |

| | Range Identification | | _ | IMO Res. | (2002) including |
|----------|-------------------------|----------------|------|--------------|---------------------------------------|
| | and Tracking | | | A.694(17), | IEC |
| | (LRIT) | | | IMO IMO | 60945 |
| | capability | | | Res. | Corrigendum |
| | | | | A.813(19), | 1 |
| | | | | IMO | (2008), |
| | | | | Res. — | EN |
| | | | | MSC 202(81), | 61162 |
| | | | | IMO | Series. |
| | | | | Res. Or, | |
| | | | | MSC 211(81), | IEC |
| | | | | IMO | 60945 |
| | | | | Res. | (2002) |
| | | | | MSC 263(84), | including |
| | | | | IMO | IEC |
| | | | | MSC.1/ | 60945 |
| | | | | Circ.1307. | Corrigendum |
| | | | | | 1 |
| | | | | | (2008), |
| | | | | _ | IEC |
| | | | | | 61162 |
| | | | | | Series. |
| A.2/4.35 | Galileo | Moved to A.1/4 | 4.56 | 1 | · · · · · · · · · · · · · · · · · · · |
| | Receiver | | - | | |
| A.2/4.36 | AIS SART | Moved to A.1/- | 4.55 | | |
| | equipment | | | | |

5. Radiocommunication equipment

Notes applicable to section 5: Radiocommunication equipment.

Column 5 IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems — Digital interfaces: IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission IEC 61162-3 ed1.1 Consol. with am1 (2010-11) - Part 3: Serial data instrument network IEC 61162-3 ed1.0 (2008-05) - Part 3: Serial data instrument network IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 — Part 3: Serial data instrument network IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems — Digital interfaces:

— EN 61162-1 (2011) - Part 1: Single talker and multiple listeners

- EN 61162-2 (1998) Part 2: Single talker and multiple listeners, high-speed transmission
- EN 61162-3 (2008) Part 3: Serial data instrument network
 - EN 61162-3-am1 (2010) Amendment 1 Part 3: Serial data instrument network
- EN 61162-450 (2011) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

| No. | Item designation | Regulation SOLAS 74, as amended, where "type approval" is required | Regula of SOL 74, as amende and the relevan resoluti and circular of the IMO, a applica | ed, e it ions rs | Testing standar | | Modules for conformity assessment |
|---------|------------------|---|--|--------------------------------------|---|---|---|
| 1 | 2 | 3 | 4 | | 5 | | 6 |
| A.2/5.1 | VHF EPIRB | HSC Code — IMO Res. | | (1994 HSC Code) IMO Res. | 2(16), 4(17), 5(19), — 36(63)-), 97(73)-), | 1 (2008) IEC 6094 (2002) including IEC 6094. | ding ding gendum). ding gendum gendum |

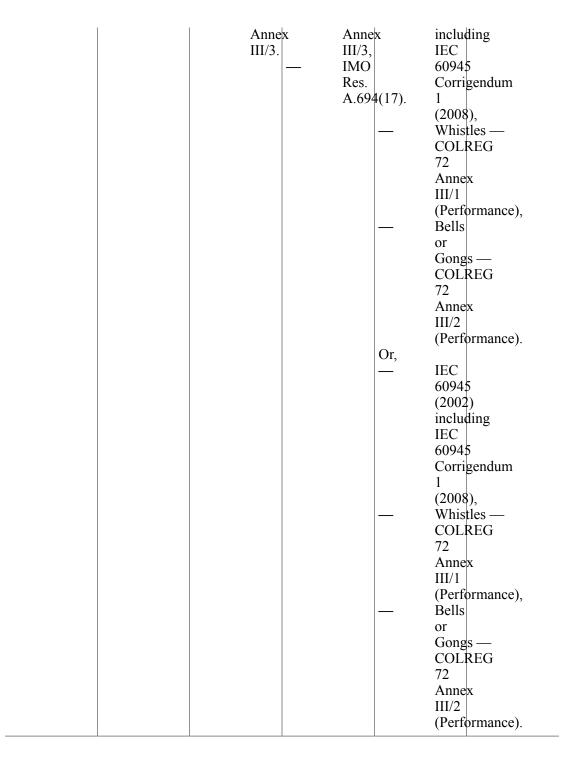
| A.2/5.2 | Radio reserve | _ | Reg. — | Reg. — | EN |
|---------|----------------------|-------|--------------------|-----------------|-------------|
| | source of | | IV/14, | IV/13, | 60945 |
| | energy | | Reg. — | IMO | (2002) |
| | | | X/3, | Res. | including |
| | | _ | IMÓ | A.694(17), | IEC |
| | | | Res. — | IMO | 60945 |
| | | | MSC 36(63)- | Res. | Corrigendum |
| | | | (1994 | MSC 36(63)- | 1 |
| | | | HSC | (1994 | (2008). |
| | | | Code), | HSC Or, | (2000). |
| | | | IMO | Code), | IEC |
| | | | Res. — | IMO | 60945 |
| | | | MSC 97(73)- | Res. | (2002) |
| | | | | | |
| | | | (2000 | MSC 97(73)- | including |
| | | | HSC | (2000 | IEC COOAF |
| | | | Code). | HSC | 60945 |
| | | | | Code), | Corrigendum |
| | | | | IMO | 1 |
| | | | | COMSAR | (2008). |
| | | | | Circ.16, | |
| | | | | IMO | |
| | | | | COMSAR | |
| | | | | Circ.32. | |
| A.2/5.3 | Inmarsat-F | Moved | to A.1/5.19. | <u> </u> | |
| | SES | | | | |
| A.2/5.4 | Distress panel | | Reg. — | Reg. — | EN |
| | | | IV/14, | IV/6, | 60945 |
| | | _ | Reg. – | IMO | (2002) |
| | | | X/3, | Res. | including |
| | | | IMO | A.694(17), | IEC |
| | | | Res. — | IMO | 60945 |
| | | | MSC 36(63)- | Res. | Corrigendum |
| | | | (1994 | MSC 36(63)- | 1 |
| | | | HSC | (1994 | (2008). |
| | | | Code), | HSC Or, | (2008). |
| | | | | | IEC |
| | | | IMO | Code),— | IEC |
| | | | Res. — | IMO | 60945 |
| | | | MSC 97(73)- | Res. | (2002) |
| | | | (2000 | MSC 97(73)- | including |
| | | | HSC | (2000 | IEC |
| | | | Code). | HSC | 60945 |
| | | | | Code), | Corrigendum |
| | | | | IMO | 1 |
| | | | | MSC/ | (2008). |
| | | | | Circ. 862, | |
| | | | | IMO | |
| | | | | COMSAR | |
| | | | | Circ.32. | |
| A.2/5.5 | Distress | | Peg | Peg | EN |
| 1.4/3.3 | | | Reg. — IV/14, | Reg. — IV/6, | 60945 |
| | | | 1 1/ / 1 / 1 | IV/D | DUIMALD |
| | alarm or alert panel | | 1 1 7 1 7, | 1 7 7 0, | (2002) |

| | | | (1994 HSC Code IMO Res. MSC (2000 HSC Code | ,36(63)-), — ,97(73)-). — | IMO Res. MSC. (1994 HSC Code) IMO Res. | Or, 97(73)- | 6094. Corri 1 (2008 IEC 6094. (2002 including IEC 6094. | 5 gendum 3). 5 ding 5 gendum |
|------------------------|--------------------------------------|----------|--|--|---|----------------|---|---|
| A.2/5.6 | L- band EPIRB (INMARSAT) | Delibera | tely le | ft blank | | | | |
| A.2/5.7 | Ship security alert system | | Dag | | IMO MSC/ Circ.1 | 147(77), | 1 (2008) EN 61162 Serie: IEC 60942 (2002) including IEC 60942 (2008) IEC 61162 Serie: | ding ding gendum), s. ding gendum), gendum), |
| A.2/5.8 Ex A.1/5.16 | Aeronautical two way VHF radio | | Reg. IV/14 | , | Reg. IV/7, | _ | EN 6094: (2002 | |

| 10, V1.1.1 Radio (2000-07). | | 14, IMO Res. MSC (2000 HSC Code 14. | | |
|--------------------------------|--|--|----------------|--|
| | | | - Regulations. | |
| | | | Regulations. | |
| | | | Regulations. | |

6. **Equipment required under COLREG 72**

| No. | Item designation | Regulation COLREG 72 where "type approval" is required | Regulations of COLREG and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|---------|-------------------------|---|--|------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.2/6.1 | Navigation lights | Moved to A.1/ | 6.1. | | |
| A.2/6.2 | Sound signal appliances | — COL 72 | REG COL 72 | REG EN 6094 (200 | |



7. Bulk carrier safety equipment

| No. | Item designation | Regulation SOLAS 74, as amended, | Regulations of SOLAS 74, as amended, | Testing standards | Modules for conformity assessment |
|-----|---------------------|---|---|-------------------|--|
| | | where | and the | | assessment |

| | | "type approval" is required | relevant resolutions and circulars of the IMO, as applicable | | |
|---------|--|--|--|------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.2/7.1 | Loading instrument | Reg. XII/1 1997 SOL. Conf Res. 5. | 1, XII/1 — 1997 AS SOL | Circ | C. 1/ |
| A.2/7.2 | Water level detectors on bulk carriers | Item deleted | | | |

8. **SOLAS Chapter II-1 equipment**

| No. | Item designation | Regulation SOLAS 74, as amended, where "type approval" is required | Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment |
|---------|--|---|---|----------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A.2/8.1 | Cold-weather starting of generator sets (starting devices) | — Reg. II-1/4 — Reg. X/3. | — IMO Res. MSC (1994 HSC Code 12, IMO Res. | .36(63)- .97(73)- | |

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| Code) | |
|-------|--|
| 12. | |

Editorial Information

X1 Substituted by Corrigendum to Commission Directive 2014/93/EU of 18 July 2014 amending Council Directive 96/98/EC on marine equipment (Official Journal of the European Union L 220 of 25 July 2014).

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- **(1)** OJ L 46, 17.2.1996, p. 25.
- (2) OJ L 312, 10.11.2012, p. 1.
- (**3**) OJ L 304, 14.11.2013, p. 1.