Maritime & Coastguard Agency

MERCHANT SHIPPING NOTICE

MSN 1734 (M+F) Amendment 7

Approval of Marine Equipment (EC Notified Bodies)

Notice to all Manufacturers, Shipbuilders, Shipowners, Ship Operators and Managers, Designers and Marine Consultants, Masters and Officers of Merchant Ships, Skippers of Fishing Vessels and Owners of Yachts and Pleasure Craft

This Notice amends Merchant Shipping Notice No. MSN 1734 (M+F) and revokes MSN 1734 (M+F) Amendment 6

PLEASE NOTE:-
Where this document provides guidance on the law it should not be regarded as definitive. The way the law applies to any particular case can vary according to circumstances - for example, from vessel to vessel and you should consider seeking independent legal advice if you are unsure of your own legal position.

Summary

The Marine Equipment Directive ("MED") enhances safety at sea and the prevention of marine pollution, through the uniform application of international instruments relating to marine equipment for which EC type approval safety certificates are issued. The MED is implemented in UK law by the Merchant Shipping (Marine Equipment) Regulations 1999 and Merchant Shipping Notice MSN 1734.

This Notice contains a new Annex A.1 to Merchant Shipping Notice MSN 1734. The new Annex A.1 updates the international standards used as a basis for type approval for marine equipment. It also provides, as set out in the footnotes to each section of the Annex, for transitional arrangements for equipment manufactured before 30 November 2013. As provided for in Commission Directive 2012/32/EU, these transitional provisions apply until 30 November 2015.

Key Points:-

- This Notice further amends MSN 1734 (M+F), and revokes and replaces MSN 1734 (M+F) Amendment 6. It has effect from 30 November 2013.
- This Notice implements Commission Directive 2012/32/EU of 25 October 2012.
- This Notice updates the United Kingdom's designated Notified Body contact list.

1. Introduction

1.1 The Merchant Shipping (Marine Equipment) Regulations 1999 (SI 1999 No 1957, amended by S.I. 2009 No. 2021) ("the Regulations") provide for the "type approval" of marine equipment, of a safety or pollution prevention nature, for use on board United Kingdom

ships, and on board other ships as set out in regulation 4 of those Regulations. The Regulations, together with Merchant Shipping Notice MSN 1734 (M+F)) implement Council Directive 96/98/EC of 20 December 1996 on Marine Equipment (Official Journal No. L315, 25.11.98, p.14) ("the MED").

2. Amendments to Directive and to MSN 1734 (M+F) Annex A.1

2.1 In response to further changes to the testing standards developed by those organisations listed in Article 2(n) of the MED, the European Commission issued Directive 2012/32/EU amending the MED (O.J. No. L 312/1, 10.11.2012). This amending Directive, which is required to be applied by Member States of the European Union from30 November 2013, makes two provisions:

(a) Article 1 and the Annex to the Directive revoke and replace Annex A to the MED.

(b) Article 2 of the Directive provides that equipment manufactured before 30 November 2013, in accordance with the type-approval procedures in place at its time of manufacture, can continue to be placed on the market and on board a ship for the two year period until 30 November 2015.

2.2 On 30 November 2013 Annex A.1 to MSN 1734 is revoked and replaced by Annex A to this Merchant Shipping Notice. This replacement of Annex A.1 implements in UK law as from that date the revocation and replacement of Annex A.1 to the MED.

2.3 On 30 November 2013 the transitional arrangements set out in Article 2 of the Directive are implemented in UK law by the following provisions in Annex A.1 to this Merchant Shipping Notice. These transitional arrangements are created in respect of equipment listed in the new Annex A.1 which is newly listed, or which formerly appeared in Annex A.2 of the MED.

2.3. (1) Where ****Trans** is marked against an item number in Annex A, the equipment need not satisfy the otherwise applicable standards in circumstances where the conditions in either paragraph (2) or (3) apply.

2.3. (2) In respect of equipment placed on the market, supplied for use or exposed for supply within the UK on or before 30 November 2015, the conditions are that the equipment was manufactured in accordance with the procedures for type-approval in force in a member State immediately before 30 November 2013.

2.3 (3) In respect of equipment placed on or before 30 November 2015 on board a ship the relevant safety certificate of which was issued by or on behalf of a member State in accordance with the relevant international convention, the condition is that the equipment was manufactured in accordance with the procedures for type approval in force in a member State immediately before 30 November 2013.

Note: These conditions relate to transitional provision in Directive 2012/32/EU and are relevant for the purposes of the Merchant Shipping (Marine Equipment) Regulations 1999 as amended by the Merchant Shipping (Marine Equipment) (Amendment) Regulations 2009.

2.4 On 30 November 2013 MSN 1734 (M+F) Amendment 6 is revoked.

3. Update to UK designated EC Notified Body listing.

3.1 Annex 1 of this MSN contains an updated list of the UK's designated EU Notified Bodies. The list in Annex 1 replaces paragraph 4 to MSN 1734 (M+F) and revokes MSN 1734 Amendment 6, as from 30 November 2013.

3.2 A listing of notified bodies designated by EU Member States and the EFTA countries (EEA Members) is available on the Notified Bodies co-ordination group (MarED) website www.mared.org.

3.3 For equipment not listed in the amended Annex A.1 which requires to be type approved, reference should be made to MSN 1735 (as amended from 30 November 2013 by Amendment 7 to that MSN), or contact the MCA at the address given in the More Information section.

[1]The Official Journals can be obtained from:

1. The Stationery Office Ltd, Customer Services, PO Box 29, Norwich NR3 1GN; or from the EUR-Lex website: www.eur-lex.europa.eu

More Information

Marine Technology Branch
Maritime and Coastguard Agency
Bay 2/27
Spring Place
105 Commercial Road
Southampton
SO15 1EG

Tel : +44 (0) 23 8083 9636
Fax : +44 (0) 23 8032 9371
e-mail: MTU@mcga.gov.uk

General Inquiries: infoline@mcga.gov.uk

MCA Website Address: www.dft.gov.uk/mca

File Ref: MS 107/008/0089

Published: November 2013
Please note that all addresses and telephone numbers are correct at time of publishing

© Crown Copyright 2013

Safer Lives, Safer Ships, Cleaner Seas

Annex 1

LIST OF UK DESIGNATED EU NOTIFIED BODIES

The Notified Bodies are specified as those bodies which may undertake type approval of the product or production range of equipment listed in Annex A.1. For details of specific procedures, modules and equipment the Notified Body has been authorised to carry out by the United Kingdom, the relevant Notified Body must be contacted.

ABS Europe Ltd
ABS House
1 Frying Pan Alley
London E1 7HR
Tel: 0207 247 3255
Fax: 0207 377 2453
Email: abs-eur@eagle.org

BTTG Testing & Certification Ltd
Unit 14 Wheel Forge Way
Trafford Park
Manchester
M17 1EH
Tel: 0161 873 6543
Fax: 0161 848 7378
Email: cabutcher@bttg-cert.co.uk

BSI Group
Kitemark Court
Davy Avenue
Knowlhill,
Milton Keynes
MK5 8PP
Tel: +44 (0)7880 784982
Email: Jitesh.pankhania@bsigroup.com

INSPEC International Ltd
56, Leslie Hough Way
Salford
Greater Manchester M6 6AJ
England
Tel: +44 (0) 161 737 0699
Fax: +44 (0) 161 736 0101
Email: certification@inspec-international.com

London Design Support Office
Lloyd's Register EMEA
71 Fenchurch Street
London EC3M 4BS
Tel: 020 7423 2416
Fax: 020 7423 1645

Email: fire.safety@lr.org

The Loss Prevention Certification Board (LPCB)
BRE Global Ltd, incorporating LPCB
Bucknalls Lane
Garston
WD25 9XX
Tel: 01923 664 100
Fax: 01923 664 103
E-mail: phillipss@bre.co.uk

Warrington Certification Ltd
Holmesfield Road
Warrington
Cheshire. WA1 2DS
Tel: 01925 646 669
Fax: 01925 646 667
Email: janet.murrell@exova.com

TUV SUD BABT
Octagon House,
Concorde Way,
Segensworth North
Fareham, PO15 5RL
Hampshire
Tel: 01932 251200
Fax: 01932 251201
Email: contact@babt.com

Sira Certification Service
Rake Lane
Eccleston
Chester
Cheshire CH4 9JN
United Kingdom
Tel: 01244 670900
Fax: 01244 681330
Email: info@siracertification.com

Annex A

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.

IMO, International Maritime Organization.

ISO, International Standardisation Organisation.

ITU, International Telecommunication Union.

LSA, Life saving appliance.

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

MEPC, Marine Environment Protection Committee

MSC, Maritime Safety Committee.

NOx, Nitrogen Oxides.

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: Items where transitional arrangements apply are marked ***Trans** or ****Trans** and appropriate footnote applies

c) 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.

d) 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.

e) 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.

f) Column 6: Where module H appears, module H plus design-examination certificate is to be understood.

g) The requirements laid down in this annex shall be without prejudice to carriage requirements in the international conventions.

Commission Directive 2012/32/EU of 25 October 2012 amending Council Directive 96/98/EC on marine equipment

Annex A.1 - Equipment for which detailed testing standards already 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.1/1.1	Lifebuoys	-Reg. III/4, -Reg. X/3.	-Reg. III/7, -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 Res. MSC.81(70).	B+D B+E B+F
A.1/1.2	Position-indicating lights for life-saving appliances: (a) for survival craft and rescue boats, (b) for lifebuoys, (c) for lifejackets.	-Reg. III/4, -Reg. X/3.	-Reg. III/7, -Reg. III/22, -Reg. III/26, -Reg III/32, -Reg. III/34, -IMO Res. MSC.36(63)-(1994 HSC Code) 8, -IMO Res. MSC.48(66)-(LSA Code) II, IV, -IMO Res. MSC.97(73)-(2000 HSC Code) 8.	-IMO Res. MSC.81(70).	B+D B+E B+F

A.1/1.3	Lifebuoys self-activating smoke signals	-Reg. III/4, -Reg. X/3.	-Reg. III/7, -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 Res. MSC.81(70).	B + D B + E B + F
A.1/1.4	Lifejackets	-Reg. III/4, -Reg. X/3.	-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 Code) 8, -IMO MSC/Circ.922, -IMO MSC.1/Circ.1304.	-IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.5	Immersion suits and anti-exposure suits not classified as lifejackets: - insulated or not insulated.	-Reg. III/4, -Reg. X/3.	-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.	-IMO Res. MSC.81(70).	B + D B + E B + F

A.1/1.6	Immersion suits and anti-exposure suits classified as lifejackets: - insulated or non-insulated.	-Reg. III/4, -Reg. X/3.	-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.	-IMO Res. MSC.81(70).	B + D B + E B + F
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.	-IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.8	Rocket parachute flares (pyrotechnics)	-Reg. III/4, -Reg. X/3.	-Reg. III/6, -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.	-IMO Res. MSC.81(70).	B + D B + E B + F
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.	-IMO Res. MSC.81(70).	B + D B + E B + F

A.1/1.10	Buoyant smoke signals (pyrotechnics)	-Reg. III/4, -Reg. X/3.	-Reg. III/34, -IMO Res. MSC.48(66)-(LSA Code) I, III.	-IMO Res. MSC.81(70).	B + D B + E B + F
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.	-IMO Res. MSC.81(70).	B + D B + E B + 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, -IMO Res. MSC.97(73)-(2000 HSC Code) 8, -IMO MSC/Circ.811.	-IMO Res. MSC.81(70).	B + D B + E B + F
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.811.	-IMO Res. MSC.81(70), -IMO MSC/Circ.1006.	B + D B + E B + F

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 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.	-IMO Res. MSC.81(70).	B + D B + E B + F
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) 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.	-IMO Res. MSC.81(70).	B + D B + E B + F
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. MSC.48(66)-(LSA Code) I, IV, -IMO Res. MSC.97(73)-(2000 HSC Code) 8, -IMO MSC/Circ.811.	-IMO Res. MSC.81(70).	B + D B + E B + F

A.1/1.17	Lifeboats: (a) davit-launched lifeboats: - partially enclosed - totally enclosed. (b) free-fall lifeboats: - totally enclosed.	-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, IV, -IMO Res. MSC.97(73)-(2000 HSC Code) 8.	-IMO Res. MSC.81(70), -IMO MSC/Circ.1006.	B + D B + F G
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.	-IMO Res. MSC.81(70), -IMO MSC/Circ.1006.	B + D B + F G
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, -IMO Res. MSC.48(66)-(LSA Code) I, V, -IMO Res. MSC.97(73)-(2000 HSC Code) 8.	-IMO Res. MSC.81(70), -ISO 15372 (2000).	B + D B + F G

A.1/1.20	Fast rescue boats: (a) inflated (b) rigid (c) rigid-inflated	-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.	-IMO Res. MSC.81(70), -IMO MSC/Circ.1006, -ISO 15372 (2000).	B + D B + F G
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)-(2000 HSC Code) 8.	-IMO Res. MSC.81(70).	B + D B + E B + F G
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	-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.	-IMO Res. MSC.81(70).	B + D B + E B + F G

A.1/1.24	Liferaft launching appliances (davits)	-Reg. III/4, -Reg. X/3.	-Reg. III/12, -Reg. III/16, -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 Res. MSC.81(70).	B + D B + E B + F G
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.	-IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.26	Release mechanism for : (a) lifeboats and rescue boats (launched by a fall or falls), (b) liferafts (launched by a fall or falls)	-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,([1]) -IMO Res. MSC.97(73)-(2000 HSC Code) 8.	-IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.27	Marine evacuation systems	-Reg. III/4, -Reg. X/3.	-Reg. III/15, -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 Res. MSC.81(70).	B + D B + F G

[1] Member States may apply Circular MSc.1/Circ 1393 of the IMO

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 Res. MSC.81(70), -IMO MSC/Circ.810.	B + D B + F
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 Res. MSC.48(66)-(LSA Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO MSC.1/Circ.1285.	-IMO Res. MSC.81(70), -ISO 5489 (2008).	B + D B + F
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 Res. A.658(16).	B + D B + E B + 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. 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, -IMO Res. MSC.164(78).	- EN ISO 8729 (1998), - EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or - EN ISO 8729 (1998), - IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or -ISO 8729-1 (2010), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or -ISO 8729-1 (2010), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F
A.1/1.34	Compass for lifeboats and rescue boats	Moved to A.1/4.23			
A.1/1.35	Portable fire - extinguishing equipment for lifeboats and rescue boats	Moved to A.1/3.38			

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.	-IMO Res. MSC.81(70).	B + D B + E B + F
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.	-IMO Res. MSC.81(70).	B + D B + E B + F
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.	-IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.39	Open reversible liferafts	-Reg. III/4, -Reg. X/3.	-IMO Res. MSC.36(63)-(1994 HSC Code) 8, Annex 10, -IMO Res. MSC.48(66)-(LSA Code) I, -IMO Res. MSC.97(73)-(2000 HSC Code) 8, Annex 11.	-IMO Res. MSC.36(63)-(1994 HSC Code) Annex 10, -IMO Res. MSC.97(73)-(2000 HSC Code) Annex 11.	B + D B + F
A.1/1.40	Mechanical pilot hoist	Moved to A.1/4.48			
A.1/1.41	Winches for survival craft and rescue boats: (a) davit launched lifeboats, (b) free-fall lifeboats, (c) liferafts, (d) rescue boats, (e) fast rescue boats.	-Reg. III/4, -Reg. X/3.	-Reg. III/16, -Reg. III/17, -Reg. III/23, -Reg. III/24, -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 Res. MSC.81(70).	B + D B + E B + F G

A.1/1.42	Pilot ladder	Moved to A.1/4.49			
A.1/1.43	Rigid/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, -IMO Res. MSC.48(66)-(LSA Code) I, V, -IMO Res. MSC.97(73)-(2000 HSC Code) 8.	-IMO Res. MSC.81(70), -IMO MSC/Circ.1006, -ISO 15372 (2000).	B + D B + F G

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.)	-Annex I, Reg 14.	Annex I, Reg. 14, -IMO MEPC.1/Circ.643.	-IMO Res. MEPC.107(49), -IMO MEPC.1/Circ.643.	B + D B + E B + F
A.1/2.2	Oil/water interface detectors	-Annex I, Reg. 32.	-Annex I, Reg. 32.	-IMO Res. MEPC.5(XIII).	B + D B + E B + F

A.1/2.3	Oil-content meters	- Annex I, Reg. 14.	Annex I, Reg. 14, -IMO MEPC.1/Circ.643.	-IMO Res. MEPC.107(49), -IMO MEPC.1/Circ.643.	B + D B + E B + F
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.)	Deliberately left blank			
A.1/2.5	Oil discharge monitoring and control system for oil tankers	-Annex I, Reg. 31.	-Annex I, Reg. 31.	-IMO Res. MEPC.108(49).	B + D B + E B + F
A.1/2.6	Sewage systems	-Annex IV, Reg. 9.	-Annex IV, Reg. 9.	-IMO Res. MEPC.159(55).	B + D B + E B + F
A.1/2.7	Shipboard incinerators	-Annex VI, Reg. 16.	-Annex VI, Reg.16.	-IMO Res. MEPC.76(40).	B + D B + E B + F G

A.1/2.8	On board NOx analysers using the direct measurement and monitoring method of NOx Technical Code 2008	-IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13)	- IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13); -IMO Res. MEPC.177(58) - (NOx Technical code) -IMO MEPC.1/Circ.638.	-IMO Res. MEPC.177(58) - (NOx Technical code) -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or IMO Res. MEPC.177(58) - (NOx Technical code) -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/2.9	Equipment using other technological methods to limit SOx emissions	Moved to A.2/2.4			
A.1/2.10 ***Trans**	On board exhaust gas cleaning systems	- 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).	-IMO Res. MEPC.184(59).	B + D B + E B + F G

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.1/3.1	Primary decks covering	-Reg. II-2/4, -Reg. II-2/6, -Reg. X/3.	-Reg. II-2/4, -Reg. II-2/6, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code), -IMO MSC/Circ.1102	B + D B + E B + F
A.1/3.2	Portable fire extinguishers	-Reg. II-2/10, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 4.	-Reg. II-2/4, -Reg. II-2/10, -Reg. II-2/18, -Reg. II-2/19, -Reg. II-2/20, -IMO Res. A.951(23), -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/Circ.1239, -IMO MSC/Circ.1275.	-EN 3-7 (2004) including A.1 (2007), -EN 3-8 (2006) including AC (2007), -EN 3-9 (2006) including AC (2007), -EN 3-10 (2009).	B + D B + E B + F

A.1/3.3	Fire-fighter's outfit: protective clothing (close proximity clothing)	-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.	Protective clothing for fire fighting: -EN 469 (2005) including A1 (2006) and AC (2006) Protective clothing for fire fighting – Reflective clothing for specialised fire-fighting: -EN 1486 (2007). Protective clothing for fire fighting – Protective clothing with a reflective outer surface: -ISO 15538 (2001).	B + D B + E B + F
A.1/3.4	Fire-fighter's outfit: boots	-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 15090 (2006),	B + D B + E B + F
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 659 (2003) including A1 (2008) and AC (2009).	B + D B + E B + F

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 HSC Code) 7, -IMO Res. MSC.98(73)-(FSS Code) 3.	-EN 443 (2008).	B + D B + E B + F
A.1/3.7	Self-contained compressed-air-operated breathing apparatus Note: For use in accidents involving dangerous goods a positive pressure type mask is required.	-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. 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) 14.	-EN 136 (1998) including AC (2003), -EN 137 (2006). And where the apparatus is for use in accidents with cargo: -ISO 23269-3(2011).	B + D B + E B + F
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 14593-1 (2005), -EN 14593-2 (2005) including AC (2005), -EN 14594 (2005) including AC (2005).	B + D B + E B + F

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) are included under this item)	-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 Res. MSC.98(73)-(FSS Code) 8. -IMO MSC/Circ.912.	-IMO Res. A.800(19).	B + D B + E B + F
A.1/3.10	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces and cargo pump-rooms	-Reg. II-2/10, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 7.	-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 MSC/Circ.1165, Appendix A.	B + D B + E B + F

A.1/3.11	‘A’ & ‘B’ class divisions fire integrity (a) ‘A’ class divisions, (b) ‘B’ class divisions.	‘A’ class: -Reg. II-2/3.2. ‘B’ class: -Reg. II-2/3.4.	-Reg.II-2/9, and, ‘A’ class: -Reg. II-2/3.2. -IMO MSC/Circ. 1005 (for light weight constructions). ‘B’ class: -Reg. II-2/3.4.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.12	Devices to prevent the passage of flame into the cargo tanks in tankers	-Reg. II-2/4, -Reg. II-2/16.	-Reg II-2/4, -Reg II-2/16.	-EN 12874 (2001), -ISO 15364 (2007), -IMO MSC/Circ.677.	For equipment other than valves: B + D B + E B + F For valves: B + F
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 Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.14	Materials other than steel for pipes penetrating ‘A’ or ‘B’ class division	Item included in A.1/3.26 and A.1/3.27			

A.1/3.15	Materials other than steel for pipes conveying oil or fuel oil (a) pipes and fittings, (b) valves, (c) flexible pipe assemblies, (d) metallic pipe components with resilient and elastomeric seals.	-Reg. II-2/4, -Reg. X/3.	-Reg. II-2/4, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, 10, -IMO Res. MSC.97(73)-(2000 HSC Code) 7, 10. -IMO MSC/Circ.1120.	Pipes and fittings: -IMO Res. A.753(18). Valves: -ISO 10497 (2010). Flexible pipe assemblies: -EN ISO 15540 (2001) -EN ISO 15541 (2001). Metallic pipe components with resilient and elastomeric seals. -ISO 19921 (2005), -ISO 19922 (2005).	B + D B + E B + F
A.1/3.16	Fire doors	-Reg. II-2/9.	-Reg. II-2/9.	-IMO Res. MSC.307(88)-(2010 FTP Code). -IMO MSC.1/Circ.1319.	B + D B + E B + F
A.1/3.17	Fire door control systems components.	-Reg. II-2/9, -Reg. X/3.	-Reg. II-2/9, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

A.1/3.18	Surface materials and floor 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.	-Reg. II-2/3, -Reg. II-2/5, -Reg. II-2/6, -Reg. II-2/9, -Reg. X/3.	-Reg. II-2/3, -Reg. II-2/5, -Reg. II-2/6, -Reg. II-2/9, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7. -IMO MSC/Circ.1120.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
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-2/3, -Reg. II-2/9, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	-IMO Res. MSC.307(88)-(2010 FTP Code), -IMO MSC/Circ.1102.	B + D B + E B + F
A.1/3.20	Upholstered furniture	-Reg. II-2/3, -Reg. II-2/5, -Reg. II-2/9, -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 Res. MSC.307(88)-(2010 FTP Code), -IMO MSC/Circ.1102.	B + D B + E B + F

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.	-IMO Res. MSC.307(88)-(2010 FTP Code), -IMO MSC/Circ.1102.	B + D B + E B + F
A.1/3.22	Fire dampers	-Reg. II-2/9.	-Reg. II-2/9.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.23	Non-combustible duct penetrations through 'A' class divisions	Moved to A.1/3.26			
A.1/3.24	Electric cable transits through 'A' class divisions	Moved to A.1/3.26(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 Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

A.1/3.26	Penetrations through 'A' class divisions (a) electric cable transits, (b) pipe, duct, trunk, etc penetrations.	-Reg. II-2/9.	-Reg. II-2/9, -IMO MSC.1/Circ.1276.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.27	Penetrations through 'B' class divisions (a) electric cable transits, (b) pipe, duct, trunk, etc penetrations.	-Reg. II-2/9.	-Reg. II-2/9.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
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-2/10, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.44(65), -IMO Res. MSC.97(73)-(2000 HSC Code) 7, -IMO Res. MSC.98(73)-(FSS Code) 8, -IMO MSC/Circ.912.	-ISO 6182-1 (2004). or EN 12259-1 (1999) including A1 (2001), A2 (2004) and A3 (2006).	B + D B + E B + F
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 14540 (2004) including A.1 (2007).	B + D B + E B + F

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 60945 (2002) including IEC 60945 Corrigendum 1 (2008) or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), -IEC 60533 (1999), and as applicable to: a) Category 1: (safe area): -EN 50104 (2010), -EN 60079-29-1 (2007). b) Category 2: (explosive gas atmospheres): -EN 50104 (2010), -EN 60079-29-1 (2007), -EN 60079-0 (2009), -EN 60079-1 (2007) including IEC 60079-1 Corrigendum 1 (2008), -EN 60079-10-1 (2009), -EN 60079-11 (2007), -EN 60079-15 (2010), -EN 60079-26 (2007).	B + D B + E B + F

A.1/3.31	Nozzles for fixed sprinkler systems, for high speed craft (HSC)	Item deleted as it is covered by A.1/3.9 and A.1/3.28			
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 Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
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 MSC/Circ.1102.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
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 Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.35	Fire doors 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 Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
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 MSC/Circ.1102.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

A.1/3.37	Penetrations through fire resisting divisions on high speed craft (a) electric cable transits, (b) pipe, duct, trunk etc. penetrations.	-Reg. X/3.	-IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.38	Portable fire-extinguishing equipment for lifeboats and rescue boats	-Reg. III/4, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 4.	-Reg. III/34, -IMO Res. A.951(23), -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. -IMO Res. MSC.98(73)-(FSS Code) 4, -IMO MSC.1/Circ.1313.	-EN 3-7 (2004) including A1 (2007), -EN 3-8 (2006) including AC (2007), -EN 3-9 (2006) including AC (2007), -EN 3-10 (2009).	B + D B + E B + F
A.1/3.39	Nozzles for equivalent water-mist fire extinguishing systems for machinery spaces and cargo pump rooms	-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, -IMO Res. MSC.98(73)-(FSS Code) 7, -IMO MSC.1/Circ.1313.	-IMO MSC/Circ.1165.	B + D B + E B + F
A.1/3.40	Low-location lighting systems (components only)	-Reg. II-2/13, -IMO Res. MSC.98(73)-(FSS Code) 11.	-Reg. II-2/13, -IMO Res. A.752(18), -IMO Res. MSC.98(73)-(FSS Code) 11.	-IMO Res. A.752(18), -ISO 15370 (2010).	B + D B + E B + F
A.1/3.41	Emergency escape breathing devices	-Reg. II-2/13.	-Reg. II-2/13, -IMO Res. MSC.98(73)-(FSS Code) 3,	-ISO 23269-1 (2008), and alternatively:	B + D

	(EEBD)		-IMO MSC/Circ.849.	For self-contained:open - circuit compressed air breathing apparatus with full mask or mouthed piece assembly for escape: -EN 402(2003). For self-contained:open - circuit compressed air breathing apparatus with a hood for escape: -EN 1146(2005). For self-contained: closed - circuit compressed air breathing apparatus: -EN 13794(2002).	B + E B + F
A.1/3.42	Inert gas systems components	-Reg. II-2/4.	-Reg. II-2/4, -IMO Res. A.567(14), -IMO Res. MSC.98(73)-(FSS Code) 15, -IMO MSC/Circ.353, -IMO MSC/Circ.387, -IMO MSC/Circ.485, -IMO MSC/Circ.450 Rev.1, -IMO MSC/Circ.731, -IMO MSC/Circ.1120.	-IMO MSC/Circ.353.	B + D B + E B + F G

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.	-ISO 15371 (2009).	B + D B + E B + F
A.1/3.44	Fire-fighters outfit - lifeline	-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.	-IMO Res. MSC.98(73)-(FSS Code) 3, -IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.45	Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms	-Reg. II-2/10, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 5.	-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/Circ.848, -IMO MSC.1/Circ.1313, -IMO MSC.1/Circ.1316, -IMO MSC.1/Circ.1317.	-IMO MSC/Circ.848, -IMO MSC.1/Circ.1317.	B + D B + E B + F
A.1/3.46	Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems)	-Reg. II-2/10, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 5.	-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, -IMO MSC.1/Circ.1313.	-IMO MSC.1/Circ.1270 including Corrigendum 1.	B + D B + E B + F

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-2/10.	-Reg. II-2/10, -IMO Res. MSC.98(73)-(FSS Code) 6.	-IMO MSC/Circ.670.	B + D B + E B + F
A.1/3.48	Fixed water based local application fire fighting systems components for use in category 'A' machinery spaces (nozzles and performance tests).	-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.	-IMO MSC.1/Circ.1387.	B + D B + E B + F

A.1/3.49	Nozzles for fixed water-based fire-fighting systems for ro-ro spaces and special category spaces equivalent to that referred to in resolution A.123(V)	-Reg. II-2/19, -Reg. II-2/20, -Reg. X/3.	-Reg. II-2/19, -Reg. II-2/20, -IMO Res. A.123(V), -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	-IMO MSC.1/Circ.1272.	B + D B + E B + F
A.1/3.50	Protective clothing resistant to chemical attack	Moved to A.2/3.9			

A.1/3.51	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces	-Reg. II-2/7, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 9.	-Reg. II-2/7, -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) 9, -IMO MSC.1/Circ.1242, -IMO MSC.1/Circ.1313.	Control and indicating equipment. Electrical installations in ships: -EN 54-2 (1997) including AC(1999) and A1(2006).	B + D B + E B + F
				Power supply equipment: -EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006).	
				Heat detectors - Point detectors: -EN 54-5 (2000) including A1(2002).	
				Smoke detectors - Point detectors using scattered light, transmitted light or ionization: -EN 54-7 (2000) including A1(2002) and A2(2006).	
				Flame detectors - Point detectors: -EN 54-10 (2002) including A1(2005).	
				Manual call points: -EN 54-11 (2001) including A1(2005).	
				Short circuit isolators: -EN 54-18 (2005) including AC(2007).	
				Cables: -EN 60332-1-1 (2004).	
				And, as applicable, electrical and electronic installations in ships: -IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), -IEC 60533 (1999).	

A.1/3.52	Non-portable and transportable fire extinguishers	-Reg. II-2/10, -Reg. X/3.	-Reg. II-2/4, -Reg. II-2/10, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	-EN 1866-1 (2007). or -ISO 11601 (2008).	B + D B + E B + F
A.1/3.53	Fire alarm devices - Sounders	-Reg. II-2/7, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 9.	-Reg. II-2/7, -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) 9, -IMO MSC.1/Circ.1313.	Sounders -EN 54-3 (2001) including A1(2002) and A2(2006), -IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), -IEC 60533 (1999).	B + D B + E B + F
A.1/3.54	Fixed 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 60945 (2002) including IEC 60945 Corrigendum 1 (2008) or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), -IEC 60533 (1999), and as applicable to: a) Category 4: (safe area) -EN 50104 (2010). b) Category 3: (explosive gas atmospheres) -EN 50104 (2010), -EN 60079-0 (2009), -EN 60079-29-1 (2007).	B + D B + E B + F

A.1/3.55	Dual purpose type nozzles (spray/jet type)	-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.	Hand-held branch pipes for fire service use – Combination branch pipes PN 16: -EN 15182-1 (2007) including A1(2009), -EN 15182-2 (2007) including A1(2009). Hand-held branch pipes for fire service use – Smooth bore jet and/or one fixed spray jet angle branch pipes PN 16: -EN 15182-1 (2007) including A1(2009), -EN 15182-3 (2007) including A1(2009).	B + D B + E B + F
A.1/3.56	Fire hoses (reel type)	-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 671-1 (2001) including AC (2002).	B + D B + E B + F
A.1/3.57	Medium expansion foam fire extinguishing systems components - Fixed deck foam for tankers	-Reg. II-2/10.	-Reg. II-2/10.8.1, -IMO Res. MSC.98(73)-(FSS Code) 14, -IMO MSC.1/Circ.1239, -IMO MSC.1/Circ.1276.	-IMO MSC/Circ.798.	B + D B + E B + F

A.1/3.58	Fixed low expansion foam fire extinguishing systems components for machinery spaces and tanker deck protection.	-Reg. II-2/10.	-Reg. II-2/10, -IMO Res. MSC.98(73)-(FSS Code) 6, 14, -IMO MSC.1/Circ.1239, -IMO MSC.1/Circ.1276, -IMO MSC.1/Circ.1313.	-IMO MSC.1/Circ.1312.	B + D B + E B + F
A.1/3.59	Expansion foam for fixed fire extinguishing systems for chemical tankers	-Reg. II-2/1, -IMO Res. MSC.4(48)-(IBC Code).	-IMO Res. MSC.4(48)-(IBC Code), -IMO MSC/Circ.553.	-IMO MSC.1/Circ.1312.	B + D B + E B + F
A.1/3.60	Nozzles for fixed pressure water-spraying fire-extinguishing systems for cabin balconies	-Reg. II-2/10.	-Reg. II-2/10, -IMO Res. MSC.98(73)-(FSS Code) 7, -IMO MSC.1/Circ.1313.	-IMO MSC.1/Circ.1268.	B + D B + E B + F

A.1/3.61	Inside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms Note: Inside 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	-Reg. II-2/10.	-Reg. II-2/10.	-IMO MSC.1/Circ.1271.	B + D B + E B + F
A.1/3.62 ***Trans**	Dry chemical powder extinguishing systems	-Reg. II-2/1.	-Reg. II-2/1, -International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk: Chapter 11.	-IMO MSC.1/Circ.1315.	B + D B + E B + F

A.1/3.63 Ex. A.2/3.15 **Trans	Sample extraction smoke detection systems components	-Reg. II-2/7, -Reg. II-2/19, -Reg. II-2/20.	-Reg. II-2/7, -Reg. II-2/19, -Reg. II-2/20, -IMO Res. MSC.98(73)-(FSS Code) 10.	-IMO Res. MSC.98(73)-(FSS Code) 10, and for: Control and indicating equipment. Electrical installations in ships: -EN 54-2 (1997) including AC(1999) and A1(2006). Power supply equipment: -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: -IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), -IEC 60533 (1999). and, as applicable for explosive atmospheres: -EN 60079-0 (2009).	B + D B + E B + F

A.1/3.64 Ex. A.2/3.25 **Trans	C class divisions	-Reg. II-2/3.	-Reg. II-2/3.	-IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.65 (New item) **Trans	Fixed hydrocarbon gas detection system	-Reg. II-2/4.	-Reg. II-2/4, -IMO Res. MSC.98(73)-(FSS Code) 16, -IMO MSC.1/Circ.1370.	-IMO MSC.1/Circ.1370, -EN 60079-29-1 (2007), -IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), -IEC 60533 (1999), -EN/IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F
A.1/3.66 (New item) **Trans	Evacuation guidance systems used as an alternative to low-location lighting systems	-Reg. II-2/13.	-Reg. II-2/13, -IMO MSC.1/Circ.1168.	-IMO MSC.1/Circ.1168.	B + D B + E B + F

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:

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

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

c) 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

d) IEC 61162-400 ed1.0 (2001-11) - Part 400: Multiple talkers and multiple listeners - Ship systems interconnection - Introduction and general principles

   — IEC 61162-401 ed1.0 (2001-11) - Part 401: Multiple talkers and multiple listeners - Ship systems interconnection - Application profile

   — IEC 61162-402 ed1.0 (2005-09) - Part 402: Multiple talkers and multiple listeners - Ship systems interconnection - Documentation and test requirements

   — IEC 61162-410 ed1.0 (2001-11) - Part 410: Multiple talkers and multiple listeners - Ship systems interconnection - Transport profile requirements and basic transport profile

   — IEC 61162-420 ed1.0 (2001-11) - Part 420: Multiple talkers and multiple listeners - Ship systems interconnection - Companion standard requirements and basic companion standards

   — 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:

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

b) EN 61162-2 (1998) - Part 2: Single talker and multiple listeners, high-speed transmission

c) EN 61162-3 (2008) - Part 3: Serial data instrument network

- EN 61162-3-am1 (2010) Amendment 1 - Part 3: Serial data instrument network

d) EN 61162-400 (2002) - Part 400: Multiple talkers and multiple listeners - Ship systems interconnection - Introduction and general principles

- EN 61162-401 (2002) - Part 401: Multiple talkers and multiple listeners - Ship systems interconnection - Application profile
- EN 61162-402 (2005) - Part 402: Multiple talkers and multiple listeners - Ship systems interconnection - Documentation and test requirements
- EN 61162-410 (2002) - Part 410: Multiple talkers and multiple listeners - Ship systems interconnection - Transport profile requirements and basic transport profile
- EN 61162-420 (2002) - Part 420: Multiple talkers and multiple listeners - Ship systems interconnection - Companion standard requirements and basic companion standards
- 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 (a) Class A for ships, (b) Class B for lifeboats and rescue boats	-Reg. V/18.	-Reg. V/19, -IMO Res. A.382(X), -IMO Res. A.694(17).	-ISO 1069 (1973), -ISO 25862 (2009), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or -ISO 1069 (1973), -ISO 25862 (2009), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
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.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series; -ISO 22090-2 (2004), including Corrigendum 2005, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series. -ISO 22090-2 (2004), including Corrigendum 2005, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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 ISO 8728 (1998), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). or -ISO 8728 (1997), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.4	Radar equipment	Moved to A.1/4.34, A.1/4.35 and A.1/4.36			
A.1/4.5	Automatic radar plotting aid (ARPA)	Moved to A.1/4.34			

A.1/4.6	Echo - sounding 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.224(VII), -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.74(69) Annex 4, -IMO Res. MSC.97(73)-(2000 HSC Code) 13, -IMO Res. MSC.191(79).	-EN ISO 9875 (2001) including ISO Technical Corrigendum 1: 2006, -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). or -ISO 9875 (2000) including ISO Technical Corrigendum 1: 2006, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

A.1/4.7	Speed and distance measuring equipment (SDME)	-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.824(19), -IMO Res. 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).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61023 (2007), -EN 61162 series, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61023 (2007), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.8	Rudder angle, rpm, pitch indicator	Moved to A.1/4.20, A.1/4.21 and A.1/4.22			

A.1/4.9	Rate-of-turn 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.526(13), -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.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -ISO 20672 (2007), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -ISO 20672 (2007), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.10	Direction finder	Deliberately left blank			

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 HSC Code) 13, -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61075 (1993), -EN 61162 series, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61075 (1991), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
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. MSC.97(73)-(2000 HSC Code) 13, . -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61075 (1993), -EN 61162 series, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61075 (1991), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

A.1/4.13	Decca navigator equipment	Deliberately left blank			
A.1/4.14	GPS 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), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.112(73), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61108-1 (2003), -EN 61162 series, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-1 (2003), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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, -IMO Res. MSC.113(73), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61108-2 (1998), -EN 61162 series, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-2 (1998), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.16	Heading control system (HCS)	-Reg. V/18.	-Reg. V/19, -IMO Res. A.342(IX), -IMO Res. A.694(17), -IMO Res. MSC.64(67) Annex 3, -IMO Res. MSC.191(79).	-ISO 11674 (2006), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). or -ISO 11674 (2006), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

A.1/4.17	Mechanical pilot hoist	Moved to A.1/1.40			
A.1/4.18	9 GHz SAR transponder (SART)	-Reg. III/4, -Reg. IV/14, -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. III/6, -Reg. IV/7, -IMO Res. A.530(13), -IMO Res. A.802(19), -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code) 8, 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 8, 14, -ITU-R M.628-3(11/93).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61097-1 (2007). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-1 (2007).	B + D B + E B + F G
A.1/4.19	Radar equipment for high-speed craft	Moved to A.1/4.37			

A.1/4.20	Rudder angle 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, -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -ISO 20673 (2007), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -ISO 20673 (2007), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
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, -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -ISO 22554 (2007), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -ISO 22554 (2007), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

A.1/4.22	Pitch 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, -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -ISO 22555 (2007), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -ISO 22555 (2007), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.23	Compass for lifeboats and rescue boats	-Reg. III/4, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13.	-Reg. III/34, -IMO Res. 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).	B + D B + E B + F G
A.1/4.24	Automatic radar plotting aid (ARPA) for high-speed craft	Moved to A.1/4.37			
A.1/4.25	Automatic tracking aid (ATA)	Moved to A.1/4.35			

A.1/4.26	Automatic tracking aid (ATA) for high speed craft	Moved to A.1/4.38			
A.1/4.27	Electronic plotting aid (EPA)	Moved to A.1/4.36			
A.1/4.28	Integrated bridge system	Moved 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 Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13.	-Reg. V/20, -IMO Res. A.694 (17), -IMO Res. A.861 (20), -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13, -IMO Res. MSC.191(79)	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 61996-1 (2008), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 61996-1 (2007-11), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

A.1/4.30	Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)	-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.191(79), -IMO Res. MSC.232(82), -IMO SN.1/Circ.266. [ECDIS back-up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested].	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 61174 (2008), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 61174 (2008), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.31	Gyro compass 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.821(19), -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13, -IMO Res. MSC.191(79).	-ISO 16328 (2001), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). or -ISO 16328 (2001), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

A.1/4.32	Universal automatic identification system equipment (AIS)	-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.74(69), -IMO Res. MSC.97(73)-(2000 HSC Code) 13, -IMO Res. MSC.191(79), -ITU-R M. 1371-4(2010). Note: ITU-R M. 1371-4(2010) shall only be applicable in accordance with requirements of IMO Res.MSC.74(69).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 61993-2 (2001), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 61993-2 (2001), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.33	Track control system (working at ship's speed from minimum maneuvering speed up to 30 knots)	-Reg. V/18.	-Reg. V/19, -IMO Res. A.694(17), -IMO Res. MSC.74(69), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62065 (2002), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62065 (2002), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

A.1/4.34	Radar equipment CAT 1	-Reg. V/18.	-Reg. V/19. -IMO Res. A.278(VIII), -IMO Res. A.694(17), -IMO Res. A.823(19), -IMO Res. MSC.191(79), -IMO Res. MSC.192(79), -ITU-R M. 1177-3(06/03).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008), -EN 62388 (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).	B + D B + E B + F G
A.1/4.35	Radar equipment CAT 2	-Reg. V/18.	-Reg. V/19, -IMO Res. A.278(VIII), -IMO Res. A.694(17), -IMO Res. MSC.191(79), -IMO Res. MSC.192(79), -ITU-R M. 1177-3(06/03).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008), -EN 62388 (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).	B + D B + E B + F G

A.1/4.36	Radar equipment CAT 3	-Reg. V/18.	-Reg. V/19, -IMO Res. A.278(VIII), -IMO Res. A.694(17), -IMO Res. MSC.191(79), -IMO Res. MSC.192(79), -ITU-R M. 1177-3(06/03).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008), -EN 62388 (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).	B + D B + E B + F G
A.1/4.37	Radar equipment for high speed craft applications (CAT 1H and CAT 2H)	-Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13.	-IMO 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) 13, -IMO Res. MSC.191(79), -IMO Res. MSC.192(79), -ITU-R M. 1177-3(06/03).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008), -EN 62388 (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).	B + D B + E B + F G

A.1/4.38	Radar equipment approved with a chart option, namely: a) CAT 1C b) CAT 2C, c) CAT 1HC for HSC d) CAT 2HC for HSC	-Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13.	-IMO 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) 13, -IMO Res. MSC.191(79), -IMO Res. MSC.192(79), -ITU-R M. 1177-3(06/03).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008), -EN 62388 (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).	B + D B + E B + F G
A.1/4.39	Radar reflector – passive type	-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. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13, -IMO Res. MSC.164(78).	-ISO 8729-1 (2010), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), or -ISO 8729-1 (2010), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G

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) 13, -IMO Res. MSC.191(79).	-ISO 16329 (2003), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). or -ISO 16329 (2003), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B+D B+E B+F G

A.1/4.41	Transmitting heading device THD (GNSS method)	-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.116(73), -IMO Res. MSC.191(79).	-ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). or -ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B+D B+E B+F G
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.	-ISO 17884 (2004), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or -ISO 17884 (2004), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B+D B+E B+F G

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 HSC Code) 13.	-ISO 16273 (2003), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or -ISO 16273 (2003), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B+D B+E B+F G
A.1/ 4.44	Differential beacon receiver for DGPS and DGLONASS 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, -IMO Res. MSC.114(73).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-4 (2004), -EN 61162 series. or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-4 (2004), -IEC 61162 series.	B+D B+E B+F G
A.1/ 4.45	Chart facilities for shipborne radar	Item deleted, as it is covered by A.1/4.38			

A.1/4.46	Transmitting heading device THD (gyroscopic method)	-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.116(73), -IMO Res. MSC.191(79).	-ISO 22090-1 (2002) including Corr.1 (2005), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). or -ISO 22090-1 (2002) including Corr.1 (2005), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

A.1./4.47	Simplified voyage data recorder (S-VDR)	-Reg. V/20.	-Reg. V/20, -IMO Res. A.694(17), -IMO Res. MSC.163(78), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 61996-2 (2008), -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 61996-2 (2007), -IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.48	Mechanical pilot hoist	Deliberately left blank (as IMO Res. MSC.308(88), in force on 1 July 2012, quotes: “Mechanical pilot hoists shall not be used”)			
A.1/4.49	Pilot ladder	-Reg. V/23, -Reg. X/3.	-Reg. V/23 -IMO Res. A.889(21) -IMO MSC/Circ.773.	-IMO Res. A.889(21), -ISO 799 (2004).	B + D B + E B + F G

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, -IMO Res. MSC.112(73), -IMO Res. MSC.114(73), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61108-1 (2003), -EN 61108-4 (2004), -EN 61162 series, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-1 (2003), -IEC 61108-4 (2004), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B+D B+E B+F G

A.1/4.51	DGLONASS 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, -IMO Res. MSC.113(73), -IMO Res. MSC.114(73), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61108-2 (1998), -EN 61108-4 (2004), -EN 61162 series, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-2 (1998), -IEC 61108-4 (2004), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B+D B+E B+F G
A.1/4.52	Daylight signalling lamp	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. V/19, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.95(72), -IMO Res. MSC.97(73)-(2000 HSC Code).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -ISO 25861 (2007). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -ISO 25861 (2007).	B+D B+E B+F

A.1/4.53 ***Trans**	Radar target enhancer	-Reg. V/18, -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, -IMO Res. MSC.164(78), -ITU-R M 1176 (10/95)	-ISO 8729-2 (2009), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), or -ISO 8729-2 (2009), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B+D B+E B+F G
A.1/4.54 ***Trans**	Bearing device	-Reg. V/18.	-Reg. V/19.	-ISO 25862 (2009), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or -ISO 25862 (2009), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B+D B+E B+F G

A.1/4.55 ***Trans**	AIS SART equipment	-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.256(84), -ITU-R M. 1371-4(2010).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61097-14 (2010), -EN 61162 series. or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-14 (2010), -IEC 61162 series.	B+D B+E B+F G
A.1/4.56 ***Trans**	Galileo receiver	-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.813(19), -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13, -IMO Res. MSC.191(79), -IMO Res. MSC.233(82).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61108-3 (2010), -EN 61162 series, -EN 62288 (2008). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-3 (2010), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).	B+D B+E B+F G

A.1/4.57 ***Trans**	Bridge navigational watch alarm system (BNWAS)	-Reg. V/18.	-IMO Res. A.694(17), -IMO Res. MSC.128(75), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008), -IEC 62616(2010). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed.1.0(2008), -IEC 62616(2010).	B+D B+E B+F G

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:

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

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

c) 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

d) IEC 61162-400 ed1.0 (2001-11) - Part 400: Multiple talkers and multiple listeners - Ship systems interconnection - Introduction and general principles

- IEC 61162-401 ed1.0 (2001-11) - Part 401: Multiple talkers and multiple listeners - Ship systems interconnection - Application profile
- IEC 61162-402 ed1.0 (2005-09) - Part 402: Multiple talkers and multiple listeners - Ship systems interconnection - Documentation and test requirements
- IEC 61162-410 ed1.0 (2001-11) - Part 410: Multiple talkers and multiple listeners - Ship systems interconnection - Transport profile requirements and basic transport profile
- IEC 61162-420 ed1.0 (2001-11) - Part 420: Multiple talkers and multiple listeners - Ship systems interconnection - Companion standard requirements and basic companion standards

— 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:

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

b) EN 61162-2 (1998) - Part 2: Single talker and multiple listeners, high-speed transmission

c) EN 61162-3 (2008) - Part 3: Serial data instrument network

— EN 61162-3-am1 (2010) Amendment 1 - Part 3: Serial data instrument network

d) EN 61162-400 (2002) - Part 400: Multiple talkers and multiple listeners - Ship systems interconnection - Introduction and general principles

— EN 61162-401 (2002) - Part 401: Multiple talkers and multiple listeners - Ship systems interconnection - Application profile

— EN 61162-402 (2005) - Part 402: Multiple talkers and multiple listeners - Ship systems interconnection - Documentation and test requirements

— EN 61162-410 (2002) - Part 410: Multiple talkers and multiple listeners - Ship systems interconnection - Transport profile requirements and basic transport profile

— EN 61162-420 (2002) - Part 420: Multiple talkers and multiple listeners - Ship systems interconnection - Companion standard requirements and basic companion standards

— 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.1/5.1	VHF radio capable of transmitting and receiving DSC and radiotelephony	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/7, -Reg. X/3, -IMO Res. A.385(X), -IMO Res. A.524(13), -IMO Res. A.694(17), -IMO Res. A.803(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.489-2 (10/95), -ITU-R M.493-13 (10/09), -ITU-R M.541-9 (05/04), -ITU-R M.689-2 (09/94).	-IMO MSC/Circ.862, -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 301 843-2 V1.2.1 (2004-06), -ETSI EN 301 925 V1.3.1 (2010-09). or -IMO MSC/Circ.862, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-3 (1994), -IEC 61097-7 (1996), -IEC 61162 series.	B + D B + E B + F

A.1/5.2	VHF DSC watch-keeping receiver	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/7, -Reg. X/3, -IMO Res. A.694(17), -IMO Res. A.803(19), -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.489-2 (10/95), -ITU-R M.493-13 (10/09), -ITU-R M.541-9 (05/04).	-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 301 033 V1.3.1 (2010-09), -ETSI EN 301 843-2 V1.2.1 (2004-06). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-3 (1994), -IEC 61097-8 (1998), -IEC 61162 series.	B + D B + E B + F

A.1/5.3	NAVTEX receiver	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/7, -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 Res. MSC.148(77), -IMO COMSAR Circ.32, -ITU-R M.540-2 (06/90), -ITU-R M.625-3 (10/95).	-EN 60945 (2002) 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). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-6 (2005-12).	B + D B + E B + F

A.1/5.4	EGC receiver	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/7, -Reg. X/3, -IMO Res. A.570(14), -IMO Res. A.664(16), -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.	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -ETSI ETS 300 460 Ed.1 (1996-05), -ETSI ETS 300 460/ A1 (1997-11), -ETSI EN 300 829 V1.1.1 (1998-03), -ETSI EN 301 843-1 V1.2.1 (2004-06). Or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-4 (2007).	B + D B + E B + F

A.1/5.5	HF marine safety information (MSI) equipment (HF NBDP receiver)	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14	-Reg. IV/7, -Reg. X/3, -IMO Res. A.694(17), -IMO Res. A.699(17), -IMO Res. A.700(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 COMSAR Circ.32, -ITU-R M.491-1 (07/86), -ITU-R M.492-6 (10/95), -ITU-R M.540-2 (06/90), -ITU-R M.625-3 (10/95), -ITU-R M.688 (06/90).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -ETSI ETS 300 067 Ed.1 (1990-11), -ETSI ETS 300 067/ A1 Ed.1 (1993-10). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -ETSI ETS 300 067 Ed.1 (1990-11), -ETSI ETS 300 067/ A1 Ed.1 (1993-10).	B + D B + E B + F

A.1/5.6	406 MHz EPIRB (Cospas-Sarsat)	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/7, -Reg. X/3, -IMO Res. A.662(16), -IMO Res. A.694(17), -IMO Res. A.696(17), -IMO Res. A.810(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.633-3 (05/04), -ITU-R M.690-1 (10/95).	-IMO MSC/Circ.862, -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -ETSI EN 300 066 V 1.3.1 (2001-01). or -IMO MSC/Circ.862, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-2 (2008). Note: IMO MSC/ Circ. 862 is applicable only to the optional remote activation device, not to the EPIRB itself.	B + D B + E B + F
A.1/5.7	L- band EPIRB (INMARSAT)	Deliberately left blank			
A.1/5.8	2182 kHz watch receiver	Deliberately left blank			
A.1/5.9	Two-tone alarm generator	Deliberately left blank			

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	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/9, -Reg. IV/10, -Reg. X/3, -IMO Res. A.694(17), -IMO Res. A.804(19), -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 M.541-9 (05/04).	-IMO MSC/Circ.862, -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 ETS 300 373-1 V1.2.1 (2002-10), -ETSI EN 301 843-5 V1.1.1 (2004-06). or -IMO MSC/Circ.862, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-3 (1994), -IEC 61097-9 (1997), -IEC 61162 series.	B + D B + E B + F

A.1/5.11	MF DSC watch-keeping receiver	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/9, -Reg. IV/10, -Reg. X/3, -IMO Res. A.694(17), -IMO Res. A.804(19), -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 M.541-9 (05/04), -ITU-R M.1173 (10/95).	-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 301 033 V1.2.1 (2005-12), -ETSI EN 301 843-5 V1.1.1 (2004-06). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-3 (1994), -IEC 61097-8 (1998), -IEC 61162 series.	B + D B + E B + F

A.1/5.12	Inmarsat-B SES	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/10, -Reg. X/3, -IMO Res. A.570(14), -IMO Res. A.694(17), -IMO Res. A.808(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.	-IMO MSC/Circ 862, -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or -IMO MSC/Circ 862, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F

A.1/5.13	Inmarsat-C SES	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/10, -Reg. X/3, -IMO Res. A.570(14), -IMO Res. A.664 (16), (applicable only if the Inmarsat C SES comprises EGC functions), -IMO Res. A.694(17), -IMO Res. A.807(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.	-IMO MSC/Circ.862, -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -ETSI ETS 300 460 Ed.1 (1996-05), -ETSI ETS 300 460/ A1 (1997-11), -ETSI EN 300 829 V1.1.1 (1998-03), -ETSI EN 301 843-1 V1.2.1 (2004-06). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-4 (2007), -IEC 61162 series.	B + D B + E B + F

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.	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-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.493-13 (10/09), -ITU-R M.541-9 (05/04), -ITU-R M.625-3 (10/95), -ITU-R M.1173 (10/95).	-IMO MSC/Circ.862, -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -ETSI ETS 300 067 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 300 373-1 V1.3.1 (2011-01), -ETSI EN 301 843-5 V1.1.1 (2004-06). or -IMO MSC/Circ.862, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-3 (1994), -IEC 61097-9 (1997), -IEC 61162 series.	B + D B + E B + F

A.1/5.15	MF/HF DSC scanning watch keeping receiver	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-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 COMSAR Circ.32, -ITU-R M.493-13 (10/09), -ITU-R M. 541-9 (05/04).	-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 301 033 V1.3.1 (2010-09), -ETSI EN 301 843-5 V1.1.1 (2004-06). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-3 (1994), -IEC 61097-8 (1998), -IEC 61162 series.	B + D B + E B + F
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 HSC Code) 14.	-Reg. III/6, -IMO Res. A.694(17), -IMO Res. A.809(19), -IMO Res. MSC.36(63)-(1994 HSC Code) 8, 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 8, 14, -IMO Res. MSC.149(77), -ITU-R M.489-2 (10/95).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -ETSI EN 300 225 V1.4.1 (2004-12), -ETSI EN 301 843-2 V1.2.1 (2004-06). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-12 (1996).	B + D B + E B + F
A.1/5.18	Fixed 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 HSC Code) 14.	-Reg. III/6, -IMO Res. A.694(17), -IMO Res. A.809(19), -IMO Res. MSC.36(63)-(1994 HSC Code) 8, 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 8, 14, -ITU-R M.489-2 (10/95).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -ETSI EN 301 466 V1.1.1 (2000-10). or -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-12 (1996).	B + D B + E B + F

A1/ 5.19	Inmarsat-F77	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.	-Reg. IV/10, -IMO Res. A.570 (14), -IMO Res. A.808 (19), -IMO Res. A.694 (17), -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.	-IMO MSC/Circ.862, -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-13 (2003). or -IMO MSC/Circ.862, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61097-13 (2003).	B + D B + E B + F

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	-COLREG Annex I/14.	-COLREG Annex I/14, -IMO Res. A.694(17), -IMO Res. MSC.253(83)	-EN 14744 (2005) including AC (2006), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or -EN 14744 (2005) including AC (2006), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G

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-1/22-1, -Reg. II-1/25, -Reg. XII/12.	-Reg. II-1/25, -Reg. XII/12, -IMO Res.A.1021(26), -IMO Res. MSC.188(79).	-IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), -IEC 60529 (2001) including: Corrigendum 1 (2003), Corrigendum 2 (2007), Corrigendum 3 (2009), -IMO Res. MSC.188(79), -IMO MSC.1/Circ. 1291.	B + D B + E B + F

Note*

(1) Where ***Trans** is marked against an Item number, the equipment need not satisfy the otherwise applicable standards in circumstances where the conditions in either paragraph (2) or (3) apply.

(2) In respect of equipment placed on the market, supplied for use or exposed for supply within the UK on or before 5 October 2014, the conditions are that the equipment was manufactured in accordance with the procedures for type-approval in force in a member State immediately before5 October 2012.

(3) In respect of equipment placed on or before 5 October 2014 on board a ship the relevant safety certificate of which was issued by or on behalf of a member State in accordance with the relevant international convention, the condition is that the equipment was manufactured in accordance with the procedures for type approval in force in a member State immediately before 5 October 2012.

These conditions relate to transitional provision in Directive 2011/75/EC and are relevant for the purposes of the Merchant Shipping (Marine Equipment) Regulations 1999 as amended by the Merchant Shipping (Marine Equipment) (Amendment) Regulations 2009.

Note **

(1) Where **Trans is marked against an Item number in Annex A, the equipment need not satisfy the otherwise applicable standards in circumstances where the conditions in either paragraph (2) or (3) apply.

(2) In respect of equipment placed on the market, supplied for use or exposed for supply within the UK on or before 30 November 2015, the conditions are that the equipment was manufactured in accordance with the procedures for type-approval in force in a member State immediately before 30 November 2013.

(3) In respect of equipment placed on or before 30 November 2015 on board a ship the relevant safety certificate of which was issued by or on behalf of a member State in accordance with the relevant international convention, the condition is that the equipment was manufactured in accordance with the procedures for type approval in force in a member State immediately before 30 November 2013.

Note: These conditions relate to transitional provision in Directive 2012/32/EU and are relevant for the purposes of the Merchant Shipping (Marine Equipment) Regulations 1999 as amended by the Merchant Shipping (Marine Equipment) (Amendment) Regulations 2009.