

ANNEX 2

This Annex sets out equipment that requires approval by a ship's Flag Administration, but which is not within the scope of the UK's conformity assessment for marine equipment. The table below sets out the relevant Regulations of the applicable IMO Convention and performance standards and applicable testing standards. Such equipment is to be type approved by a Nominated Body. Similar to Annex 1, equipment is grouped into categories (Life-Saving Appliances, Pollution Prevention, BWMS, Fire Protection, Navigation, Radio communication and equipment required by COLREG).

This Annex also specifies other equipment which is to be approved by a Nominated Body.

Note applicable to this entire Annex: Where no testing standard is stated in column 4 of the relevant table for equipment in question, the testing standard is to be agreed between the relevant Nominated Body and the MCA ahead of the type approval regime being agreed with the applicant for type approval.

Reporting - Where a Nominated Body grants type approval it must.

- a) BWMS - provide a type approval report to the MCA by e-mail to environment@mcga.gov.uk.
(Type approval reports provided by Nominated Bodies in respect of BWMS must contain the information specified in Part 7 of the Annex to the BWMS Code. On issuance of type approval for a BWMS by a Nominated Body (issuing on behalf of the UK Administration), the MCA will notify the IMO as required by paragraph 6.10 of the BWMS Code and further detailed in Part 7 of the Annex to the BWMS Code).
- b) All other products listed in annex 2 - provide a type approval report to the MCA by e-mail to MEQA@mcga.gov.uk
The report must contain details of the product, manufacturer and date granted.

1. Life-saving appliances

No items currently listed in this section

"Public address & general emergency alarm system (when used as fire alarm device item UK/3.53 in Annex 1 shall apply): **item moved to UK/1.44a and UK/1.44b in Annex 1 of this Notice by MSN 1874 amendment 7.**

2. Marine pollution prevention

Item designation	International regulation, as amended, where "type approval" is required	International regulation as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
1	2	3	4

Equipment using other equivalent methods to reduce NOx emissions	Annex VI Reg 4	Annex VI Reg 4	
Equipment using other technological methods to limit SOx emissions	IMO MEPC.176(58) (Revised MARPOL Annex VI Reg 4) IMO Res MEPC.184(59)	IMO MEPC.176(58) (Revised MARPOL Annex VI Reg 4)	
On board NOx analysers using a measurement method other than the direct measurement and monitoring method of NOx technical code 2008	IMO MEPC.176(58) (Revised MARPOL Annex VI Reg 4)	IMO MEPC.176(58) (Revised MARPOL Annex VI Reg 4)	
BWMS	Regulation D-3 of the International Convention for the Control and Management of Ships' Ballast Water and Sediments, 2004 (As Amended).	IMO MEPC.300(72) Annex 5 (Adopted 13 April 2018)	Testing specifications and methods – Part 2,3,4, 5 and 6 of the Annex to the BWMS Code
BWMS which use active substances	Regulation D-3 of the International Convention for the Control and Management of Ships' Ballast Water and Sediments, 2004 (As Amended).	IMO MEPC.300(72) Annex 5, BWMS Code, MEPC.169(57) BWM.2/Circ.37 BWM.2/Circ.13	As above with the addition of MEPC.169(57): Procedure for approval of ballast water management systems that make use of active substances (G9)

3. Fire protection equipment

Item designation	Regulation SOLAS 74 as amended where “type approval” is required	Regulations of SOLAS 74 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
1	2	3	4
Electric safety lamp	Reg II-2/10 Reg X/3 IMO Res MSC.98(73) FSS Code 3	Reg II-2/10 IMO MSC 36(63) 1994 HSC code 7 IMO MSC 97(73) 2000 HSC code 7 IMO Res MSC 98(73) FSS Code 7	IEC 60079 series
Protective clothing resistant to chemical attack	Reg II-2/19	Reg II-2/19 IMO MSC 36(63) (1994 HSC Code) 7 IMO MSC 97(73) (2000 HSC Code) 7	EN 943-1(2002) incl. AC (2005) EN 943-2 (2002) EN ISO 6529 (2001) EN ISO 6530 (2005) EN 14605 (2005) incl. A1(2009) IMO MSC/Circ.1120
Paint lockers and flammable liquid lockers fire	Reg II-2/10	Reg II-2/10 IMO MSC.1/Circ.1239	

Item designation	Regulation SOLAS 74 as amended where “type approval” is required	Regulations of SOLAS 74 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
extinguishing system components			
Portable foam applicator units	Reg II-2/10 Reg II-2/20 Reg X/3	Reg II-2/10 Reg II-2/20 IMO MSC 36(63) (1994 HSC Code) 7 IMO MSC 97(73) (2000 HSC Code) 7 IMO MSC 98(73) (FSS Code) 7 IMO MSC.1/Circ.1239 IMO MSC.1/Circ.1313	
Gaseous fuel systems used for domestic purposes (components)	Reg II-2/4	Reg II-2/4 IMO MSC.1/Circ.1276	
Fixed gas fire extinguishing systems (CO2) components	Reg II-2/10 Reg X/3	Reg II-2/10 Reg II-2/20 IMO MSC 36(63) (1994 HSC Code) 7 IMO MSC 97(73) (2000 HSC Code) 7 IMO Res MSC 98(73) (FSS Code) 5 IMO MSC.1/Circ.1313 IMO MSC.1/Circ.1318	Electrical automatic control and delay devices: EN 12094-1 (2003) Non-electrical automatic control and delay devices: EN 12094-2 (2003) Manual triggering and stop devices: EN 12094-3 (2003) Container valve assemblies and their actuators: EN 12094-4 (2004) High and low pressure selector valves and their actuators: EN 12094-5 (2006) Non-electrical disable devices: EN 12094-6 (2006) Nozzles for CO2 systems: EN 12094-7 (2000) incl. A1 (2005) Connectors: EN 12094-8 (2006) Pressure gauges and switches: EN 12094-10 (2003)

Item designation	Regulation SOLAS 74 as amended where “type approval” is required	Regulations of SOLAS 74 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
			Mechanical weighing devices: EN 12094-11 (2003) Check valves and non-return valves: EN 12094-13 (2001) incl. AC (2002) Odorizing devices for CO2 low pressure systems: EN 12094-16 (2003)
Water spraying hand operated system	Reg II-2/10 Reg II-2/19	Reg II-2/10 Reg II-2/19	
Lithium-ion battery storage and charging container	REG Yacht Code 2024 Part A	REG Yacht Code 2024 Part A	MGN 681 amendment 1 fire safety and storage of small electric powered craft on yachts – (MGN 681 Currently being updated to amendment 1)

4. Navigation equipment

Notes applicable to section 4: Navigation equipment

Columns 2 and 3: References to SOLAS Chapter V are to SOLAS 1974 as amended by MSC 73 and entering into force on 1 July 2002.

Column 4: IEC 61162 series refer to the following reference standards for maritime navigation and radiocommunication equipment and systems – Digital interfaces:

IEC 61162-1 Ed.4.0(2010-11) – Part 1: Single talker and multiple listeners

IEC 61162-2 Ed.1.0 (1998-09) – Part 2: Single talker and multiple listeners, high-speed transmission

IEC 61162-3 Ed.1.1 consol. With am1 (2010-11) – Part 3: Serial data instrument network

IEC 61162-3 Ed.1.0 (2008-05) – Part 3: Serial data instrument network

IEC 61162-3-am1 Ed.1.0 (2010-06) Amendment 1 – Part 3: Serial data instrument network

IEC 61162-450 Ed.1.0 (2011-06) – Part 450: Multiple talkers and multiple listeners – ethernet connection

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

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

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

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

EN 61162-3 am1 Ed.1.0 (2010) Amendment 1 – Part 3: Serial data instrument network

EN 61162-450 (2018) – Part 450: Multiple talkers and multiple listeners – ethernet connection

Item designation	Regulation SOLAS 74 as amended where “type approval” is required	Regulations of SOLAS 74 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
1	2	3	4
Combined GPS/GLONASS equipment	Reg V/18 Reg X/3 IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code)	Reg V/19 IMO Res A.694(17) IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code) IMO Res MSC.115(73) IMO Res MSC.191(79)	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) EN 61108-1 (2003) EN 61108-2 (1998) EN 61162 series EN 62288 (2008) Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008) IEC 61108-1 (2003) IEC 61108-2 (1998) IEC 61162 series IEC 62288 Ed.1.0 (2008)
Track control system (working at ship's speed from 30 knots and above)	Reg X/3 IMO MSC 36(63) (1994 HSC Code) IMO Res MSC 97(73) – (2000 HSC Code)	IMO Res A.694(17) IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code) IMO Res MSC.191(79)	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) EN 61162 series EN 62288 (2008) Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008) IEC 61162 series IEC 62288 Ed.1.0 (2008)
Thrust indicator	Reg V/18 Reg X/3 IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code)	Reg V/19 IMO Res A.694(17) IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code) IMO Res MSC.191(79)	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) EN 61162 series EN 62288 (2008) Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008) IEC 61162 series IEC 62288 Ed.1.0 (2008)
Lateral thrust, pitch and mode indicators	Reg V/18 Reg X/3 IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code)	Reg V/19 IMO Res A.694(17) IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code) IMO Res MSC.191(79)	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) EN 61162 series EN 62288 (2008) Or:

Item designation	Regulation SOLAS 74 as amended where “type approval” is required	Regulations of SOLAS 74 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
			IEC 60945 (2002) incl. IEC 60945 corr.1 (2008) IEC 61162 series IEC 62288 Ed.1.0 (2008)
Bridge Equipment and Systems, their Arrangement and Integration (BES)	Reg V/18 Reg X/3 IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code)	Reg V/19 IMO Res. A.694(17) IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code) IMO Res. MSC.191(79) IMO SN.1/Circ.288	EN 60945 (2002) including IEC 60945 Corr. 1 (2008) EN 611662 series IEC 62288 (2008) Or: IEC 60945 (2002) including IEC 60945 Corr. 1 (2008) IEC 61162 Series IEC 62288 Ed. 1.0 (2008)
Equipment with long range identification and tracking (LRIT) capability	Reg V/19-1	Reg V/19-1 IMO Res A.694(17) IMO Res A.813(19) IMO Res MSC.202(81) IMO Res MSC.211(81) IMO Res MSC 263(84) MSC.1/Circ.1307	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) EN 61162 series Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008) IEC 61162 series

5. Radiocommunication equipment

Notes applicable to section 5:

Radiocommunication equipment. Column 4:

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

IEC 61162-1 Ed.4.0(2010-11) – Part 1: Single talker and multiple listeners

IEC 61162-2 Ed.1.0 (1998-09) – Part 2: Single talker and multiple listeners, high-speed transmission

IEC 61162-3 Ed.1.1 consol. With am1 (2010-11) – Part 3: Serial data instrument network

IEC 61162-3 Ed.1.0 (2008-05) Amendment 1 – Part 3: Serial data instrument network

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

IEC 61162-450 Ed.1.0 (2011-06) – Part 450: Multiple talkers and multiple listeners – ethernet connection

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

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

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

EN 61162-3 (2008) – Part 3: Serial data instrument network
 EN 61162-3 am1 (2010) Amendment 1 – Part 3: Serial data instrument network
 EN 61162-450 (2018) – Part 450: Multiple talkers and multiple listeners – ethernet connection

Item designation	Regulation SOLAS 74 as amended where “type approval” is required	Regulations of SOLAS 74 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
1	2	3	4
VHF EPIRB	Reg IV/14 Reg X/3 IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code)	Reg IV/8 IMO Res A.662(16) IMO Res A.694(17) IMO Res A.805(19) IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code) ITU-R M.489-2 (10/95) ITU-R M.693 (06/90)	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008)
Radio reserve source of energy	REG IV/14 REG X/3 IMO MSC 36(63) 1994 HSC code IMO MSC 97(73) 2000 HSC code	REG IV/13 IMO Res A.694(17) IMO MSC 36(63) 1994 HSC code IMO MSC 97(73) 2000 HSC code IMO COMSAR Circ.16 IMO COMSAR Circ.32	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008)
Distress panel	Reg IV/14 Reg X/3 IMO MSC 36(63) – (1994 HSC Code) IMO MSC 97(73) – (2000 HSC Code)	Reg IV/6 IMO Res A.694(17) IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code) IMO MSC/Circ.862 IMO COMSAR Circ.32	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008)
Distress alarm or alert panel	Reg IV/14 Reg X/3 IMO MSC 36(63) – (1994 HSC Code) IMO MSC 97(73) – (2000 HSC Code)	Reg IV/6 IMO Res A.694(17) IMO MSC 36(63) (1994 HSC Code) IMO MSC 97(73) (2000 HSC Code) IMO MSC/Circ.862 IMO COMSAR Circ.32	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008)
Ship security alert system		Reg XI-2/6 IMO Res A.694(17) IMO Res MSC 147(77) IMO MSC/Circ.1072	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) EN 61162 series Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008) IEC 61162 series

6. Equipment required under COLREG 72

Item designation	Regulation COLREG 72 as amended where “type approval” is required	Regulations of COLREG 72 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
1	2	3	4
Sound signal appliances	COLREG 72 Annex III/3	COLREG 72 Annex III/3 IMO Res A.694(17)	EN 60945 (2002) incl. IEC 60945 corr.1 (2008) Whistles – COLREG 72 Annex III/1 (performance) Bells or Gongs – COLREG 72 Annex III/2 (performance) Or: IEC 60945 (2002) incl. IEC 60945 corr.1 (2008) Whistles – COLREG 72 Annex III/1 (performance) Bells or Gongs – COLREG 72 Annex III/2 (performance)

7. Bulk carrier safety equipment

Item designation	Regulation SOLAS 74 as amended where “type approval” is required	Regulations of SOLAS 74 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
1	2	3	4
Loading instrument	Reg XII/11 1997 SOLAS Conference Res.5	Reg XII/11 1997 SOLAS Conference Res.5	IMO MSC.1/Circ.1229

8. SOLAS Chapter II-1 equipment

Item designation	Regulation SOLAS 74 as amended where “type approval” is required	Regulations of SOLAS 74 as amended and relevant resolutions and circulars of the IMO as applicable	Testing standards
1	2	3	4

Cold weather starting of generator sets (starting devices)	Reg II-1/44 Reg X/3	Reg II-1/44 MSC 36(63)(1994 HSC Code) 12 MSC 97(73)(2000 HSC Code) 12	
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9. Other equipment requiring type approval

Other – life-saving appliances

Item designation
Lifeboat equipment (oars, knives, matches, torches, electrical equipment etc.)
LSA gas inflation system
LSA Miscellaneous equipment (emergency life-line etc.)
Lifeboat manual pumps
Emergency equipment lockers
Sea anchors
Survival craft first aid kits
Survival craft rations and water
Non-SOLAS liferafts, rescue boats and inflatable boats
Float free arrangements for Search and Rescue Transponder (SART)
Equipment requiring approval in accordance with SI 2020 No.501 – The Merchant Shipping (Life-Saving Appliances and Arrangements) Regulations but not specified in Annex 1 of this notice
Equipment requiring approval in accordance with SI 2020 No.501 – The Merchant Shipping (Life-Saving Appliances and Arrangements) Regulations but not specified in Annex 1 of this notice

Other – Marine pollution prevention equipment

Item designation
Crude oil washing machines

Other – Fire protection equipment

Item designation
Hydrants (components)
Fire blankets
Equipment requiring approval in accordance with SI 1998 No.1011 – The Merchant Shipping (Fire protection: Small ships) Regulations but not specified in Annex 1 of this notice
Equipment requiring approval in accordance with SI 2003 No.2950 – The Merchant Shipping (Fire protection) Regulations but not specified in Annex 1 of this notice
Equipment requiring approval in accordance with SI 2023 No.568 – The Merchant Shipping (Fire protection) Regulations but not specified in Annex 1 of this notice
Lithium-Ion Battery storage and charging containers and boxes for use on large yachts – MGN 681 Amendment 1 and REG Yacht Code part A section 14.1

Other – Crew accommodation equipment

Item designation
Vacuum discharge piping systems
Thermostatic mixing valves
Plant used to produce drinking water and/or fresh water