

Regulation

ON TYPE APPROVAL REQUIREMENTS FOR MARITIME EQUIPMENT

Issued in Helsinki on 22 August 2002

The Finnish Communications Regulatory Authority has, by virtue of Paragraph 2 of Section 24 of the Radio Act of 16 November 2001 (1015/2001), prescribed as follows:

Section 1

Scope of Application

This Regulation is applied to radio equipment, which conformity is confirmed as maritime equipment as referred to in paragraph 1, subparagraph 2 in the Section 24 of the Radio Act.

Section 2

Type Approval Requirements

Radio equipment, which conformity is confirmed as maritime equipment, shall conform as to its construction and performance with the type approval requirements referred to in the Annex of this Regulation.

Section 3

Entry into Force and Transition Provision

This Regulation shall enter into force on 22 August 2002 and remain valid until further notice.

Directive of the European Commission 1996/98/EU (31996L0098); OJ Nr L 46, 17.2.1997, page 25, and as amended by the Directives of the Commission 1998/85/EU (31998L0085); OJ Nr L 315, 25.11.1998, page 14 and 2001/53/EU (32001L0053); OJ Nr 204, 28.7.2001, page 1.

With this Regulation, Telecommunications Administration Centre Regulation issued on 5 July 1999 (TAC 5/1999 M) on type approval requirements for maritime equipment under the directive Nr 96/98/EU and its amendment Nr 98/85/EU is repealed.

Radar equipment of high-speed craft, which has been manufactured in Finland before 17 February 2002, and which type approval requirements in force on 9 of July 2001 have been confirmed to be fulfilled, may be placed on the market until 17 February 2004 although it does not fulfil the type approval requirements mentioned in the Annex of this Regulation.

Section 4

Information and publication

This Regulation is included in the Series of Regulations issued by the Finnish Communications Regulatory Authority and it can be obtained from the Customer Service Office of FICORA:

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THE TYPE APPROVAL REQUIREMENTS FOR MARITIME EQUIPMENT

The following abbreviations are used in this Regulation:

IMO	International Maritime Organisation
MSC	Maritime Safety Committee of IMO
ITU	International Telecommunications Union
ITU-R	Radio Communication Sector of ITU
EN	European Norm
ETS	European Telecommunications Standard
IEC	International Electrotechnical Commission
SOLAS 74	International Convention for the Safety of Life at Sea as amended
ISO	International Organization for Standardization
ICAO	International Civil Aviation Organization

If two sets of testing standards, separated by word "or", are indicated in the column "Testing Standards" of paragraph 1.2. Radio Communications Equipment, each set alone fulfils all the testing requirements to meet IMO performance standards. Thus the testing of an item based on either of the sets is sufficient to demonstrate compliance with the requirements of the relevant international instruments.

ITU Recommendations cited in these type approval requirements are those referred to in the international Conventions and relevant Resolutions and Circulars of the IMO.

Chapter 1

Radio Equipment for which detailed Testing Standards already exist in international instruments

In addition to testing standards specifically mentioned, a number of provisions, which must be checked during type-examination (type approval) as referred to in modules for conformity assessment concerning radio equipment of this Chapter, are to be found in the applicable requirements of the international Conventions and relevant Resolutions and Circulars of the IMO.

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.

For the purpose of identifying correctly the relevant standards, the test reports and the appropriate type-approval certificates shall specify the applied standard and its version as identified in the column.

When applying testing standard EN/IEC 61162 to radio equipment of this chapter it shall be verified that testing standard of relevant product is according to applicable part to testing standard EN/IEC 61162.

1.1 Navigation Equipment

Item Designation	Applicable Regulations of SOLAS 74 - as amended, and the relevant Resolutions and Circulars of the IMO and Recommendations of ITU-R.	Testing Standards
Radar equipment	Regulation V/12 (g), V/12 (h), IMO Resolution A.278 (VIII), IMO Resolution A.477 (XII), as amended by IMO Resolution MSC.64 (67), Annex 4, IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177- (10/97)	EN 60936-1 (2000), EN 60945 (1997), EN 61162 or IEC 60936-1 (2000), IEC 60945 (1996), IEC 61162
Loran-C equipment	Regulation V/12 (p), IMO Resolution MSC.36 (63) 13.6 (1994 HSC Code), IMO Resolution A.694 (17), IMO Resolution A.818 (19)	EN 61075 (1993), EN 60945 (1997) EN 61162 or IEC 61075 (1991), IEC 60945 (1996), IEC 61162
Chayka equipment	Regulation V/12 (p), IMO Resolution MSC.36 (63) 13.6 (1994 HSC Code), IMO Resolution A.818 (19), IMO Resolution A.694 (17)	EN 61075 (1993), EN 60945 (1997), EN 61162 or IEC 61075 (1991), IEC 60945(1996), IEC 61162
GPS equipment	Regulation V/12 (p), IMO Resolution MSC.36 (63) 13.6 (1994 HSC Code), IMO Resolution A.819 (19), IMO Resolution A.694 (17)	EN 61108-1 (1996), EN 61162 or IEC 61108-1 (1994), IEC 61162
GLONASS equipment	Regulation V/12 (p), IMO Resolution MSC.36 (63) 13.6 (1994 HSC Code), IMO Resolution MSC.53 (66), IMO Resolution A.694 (17)	EN 61108-2 (1998), EN 61162 or IEC 61108-2 (1998), IEC 60945 (1996), IEC 61162
9 GHz SAR transponder (SART)	Regulation III/6.2.2, Regulation IV/7.1.3, IMO Resolution MSC.36 (63) 8.2.1.2 (1994 HSC Code), IMO Resolution A.530 (13), IMO Resolution A.802 (19), IMO Resolution A.694 (17), ITU-R M.628-3 (11/93)	EN 61097-1 (1993), EN 60945 (1997) or IEC 61097-1 (1992), IEC 60945 (1996)
Radar of high speed Craft "New item"	IMO Resolution MSC.36 (63) 13.5 (1994 HSC Code), IMO Resolution A.278 (8), IMO Resolution A.820 (19), IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-1 (10/97)	EN 60936-2 (1999), EN 61162 or IEC 60936-2 (1998), IEC 61162

1.2 Radio Communications Equipment

In case of conflicting requirements between IMO MSC/Circ. 862 and the product testing standards, the IMO MSC/Circ. 862 shall be applied.

Item Designation	Applicable Regulations of SOLAS 74 - as amended, and the relevant Resolutions and Circulars of the IMO and Recommendations of ITU-R.	Testing Standards
VHF-radio installation capable of transmitting and receiving DSC and radiotelephony	Regulation IV/7.1.1, IMO Resolution MSC.36 (63) 14.6.1.1 (1994 HSC Code), IMO Resolution A.385 (X), IMO Resolution A.524 (13), IMO Resolution A.803 (19), as amended by IMO Resolution MSC.68 (68), Annex 1, IMO Resolution A.694 (17), ITU-R M.489-2 (10/95), ITU-R M. 493-9 (10/97), ITU-R M.541-8 (10/97), ITU-R M.689-2 (11/93), IMO MSC/Circ. 862	ETS 300 162-1 (2000-12), EN 300 338 (V1.2.1 1999.04), EN 300 828 (V1.1.1 1998-03), IMO MSC/Circ. 862, EN 61162 or IEC 61097-3 (1994), IEC 61097-7 (1996), IEC 60945 (1996), IMO MSC/Circ. 862, IEC 61162
VHF DSC watch-keeping receiver	Regulation IV/7.1.2, IMO Resolution MSC.36 (63) 14.6.1.2 (1994 HSC Code), IMO Resolution A.803 (19), IMO Resolution MSC.68 (68), Annex 1, IMO Resolution A.694 (17), ITU-R M.489-2 (10/95), ITU-R M.493-9 (10/97), ITU-R M.541-8 (10/97)	EN 300 338 (V1.2.1 1999-04), EN 301 033 (V1.1.1 1998-08), EN 300 828 (V1.1.1 1998-03), EN 60945 (1997) or IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 60945 (1996)
NAVTEX receiver	Regulation IV/7.1.4, IMO Resolution MSC.36 (63) 14.6.1.4 (1994 HSC Code), IMO Resolution A.525 (13), IMO Resolution A.694 (17), ITU-R M 540-2 (06/90), ITU-R M.625-3 (10/95)	ETS 300 065 V1.1.3 (2001-5), EN 301 011 V1.1.1 (1998-09) or IEC 61097-6 (1995), IEC 60945 (1996)
EGC receiver	Regulation IV/7.1.5, IMO Resolution MSC.36 (63) 14.6.1.5 (1994 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.664 (16), IMO Resolution A.694 (17)	ETS 300 460 Ed. 1 (1997-11) + A1 (1997-11), EN 300 829 V1.1.1 (1998-03) or IEC 61097-4 (1994), IEC 60945 (1996)
HF marine safety information (MSI) (HF NBDP receiver)	Regulation IV/7.1.5, IMO Resolution MSC.36 (63) 14.6.1.5 (1994 HSC Code), IMO Resolution A.699 (17), IMO Resolution A.700 (17), IMO Resolution A.806 (19), IMO Resolution A.694 (17), 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)	ETS 300 067 Ed.1 (1992-09) + A1 (1998-09), EN 60945 (1997), EN 61162 or IEC 61097-11 (2000), EN 61162
406 MHz EPIRB (COSPAS-SARSAT)	Regulation IV/7.1.6, IMO Resolution MSC.36 (63) 14.6.1.6 (1994 HSC Code), IMO Resolution A.662 (16), IMO Resolution A.696 (17), IMO Resolution A.810 (19), as amended by	ETS 300 066 V 1.3.1 (2001-01), EN 60945 (1997), MSC/Circ. 862 (1) or IEC 61097-2 (1994),

Item Designation	Applicable Regulations of SOLAS 74 - as amended, and the relevant Resolutions and Circulars of the IMO and Recommendations of ITU-R.	Testing Standards
	IMO Resolution MSC.56 (66), IMO Resolution A.694 (17), ITU-R M.633-1 (06/90), ITU-R M.690-1 (10/95), MO MSC/Circ. 862	IEC 60945 (1996), MSC/Circ. 862
L-band EPIRB (INMARSAT)	Regulation IV/7.1.6, IMO Resolution MSC.36 (63) 14.6.1.6 (1994 HSC Code), IMO Resolution A.662 (16), IMO Resolution A.812 (19), IMO Resolution A.694 (17), ITU-R M.632-3 (02/97), ITU-R M.690-1 (10/95), IMO MSC/ Circ. 862	ETS 300 372 Ed.1 (1996-05), EN 60945 (1997), MSC/Circ. 862 (1) or IEC 61097-5 (1997), MSC/Circ. 862
MF radio installation capable of transmitting and receiving DSC and radiotelephony (2)	Regulation IV/9.1.1, IV/10.1.2, IMO Resolution MSC.36 (63) 14.8.1.1 (1994 HSC Code), IMO Resolution A.804 (19), as amended by IMO Resolution MSC.68 (68), Annex 2, IMO Resolution A.694 (17), ITU-R M.1173 (10/95), ITU-R M.493-9 (10/97), ITU-R M.541-8 (10/97)	ETS 300 338 V1.2.1 (1999-04), ETS 300 373 ed.1 (1995-08) + A1 (1997-08), EN 60945 (1997) MSC/Circ. 862, EN 61162 or IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 60945 (1996), MSC/Circ. 862, IEC 61162
MF radiotelephone DSC watch-keeping receiver	Regulation IV/9.1.2, IV/10.1.3, IMO Resolution MSC.36 (63) 14.8.1.2 (1994 HSC Code), IMO Resolution A.804 (19), as amended by IMO Resolution MSC.68 (68), Annex 2, IMO Resolution A.694 (17), ITU-R M.493-9 (10/97), ITU-R M.541-8 (10/97), ITU-R M.1173 (10/95)	EN 301 033 V1.1.1 (1998-08), ETS 300 338 V1.2.1 (1999-04), EN 60945 (1997) or IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 60945 (1996)
Inmarsat-B SES	Regulation IV/10.1.1, IMO Resolution MSC.36 (63) 14.9.1.1 (1994 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.694 (17), IMO MSC/Circ. 862	IEC 61097-10 (1999), MSC/Circ. 862
Inmarsat-C SES	Regulation IV/10.1.1, IMO Resolution MSC.36 (63) 14.9.1.1 (1994 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.664 (16) (3), IMO Resolution A.807 (19), as amended by IMO Resolution MSC.68 (68), Annex 4, IMO Resolution A.694 (17), IMO MSC/Circ.862	ETS 300 460 ed.1 (1996-05) + A1 (1997-11), EN 300 829 V1.1.1 (1998-03), EN 61162, MSC Circ. 862 or IEC 61097-4 (1994), IEC 60945 (1996), IEC 61162, MSC/Circ. 862
MF/HF radio installation capable of transmitting and receiving DSC, NBDP and radiotelephony (4)	Regulation IV/10.2.1, IMO Resolution MSC.36 (63) 14.9.2.1 (1994 HSC Code), IMO Resolution A.806 (19), as amended by IMO Resolution MSC.68 (68), Annex 3, IMO Resolution A.694 (17),	ETS 300 373 ed.1 (1995-08) + A 1 (1997-08), EN 300 338 V1.2.1 (1999-04), ETS 300 067 Ed.1 (1992-09) + A1 (1998-09), EN 60945 (1997), EN 61162, MSC/Circ. 862

Item Designation	Applicable Regulations of SOLAS 74 - as amended, and the relevant Resolutions and Circulars of the IMO and Recommendations of ITU-R.	Testing Standards
	ITU-R M.476-5 (10/95), ITU-R M.491-1 (07/86), ITU-R M.492-6 (10/95), ITU-R M.493-9 (10/97), ITU-R M.541-8 (10/97), ITU-R M.625-3 (10/95), ITU-R M.1173 (10/95), IMO MSC/Circ. 862	or IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 61097-11 (2000), IEC 60945 (1996), IEC 61162, MSC/Circ. 862
Radiotelephone MF/HF DSC watch-keeping receiver	Regulation IV/10.2.2, IMO Resolution MSC.36 (63) 14.9.2.2 (1994 HSC Code), IMO Resolution A.806 (19), as amended by IMO Resolution MSC.68 (68), Annex 3, IMO Resolution A.694 (17), ITU-R M.493-9 (10/97), ITU-R M.541-8 (10/97).	EN 301 033 V1.1.1 (1998-08), ETS 300 338 V1.2.1 (1999-04), EN 60945 (1997) or IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 60945 (1996)
Aeronautical two way VHF radio telephone apparatus	Regulation IV/7.5, IMO Resolution MSC.36 (63) (1994 HSC Code), IMO Resolution MSC.80 (70), Annex 1 and 2, IMO Resolution A.694 (17), ICAO Convention, Annex 10, Radio Regulations	EN 301 688 V1.1.1 (2000-07), EN 60945 (1997) or EN 301 688 V1.1.1 (2000-07), IEC 60945(1996)
Portable survival craft two-way VHF radiotelephone apparatus	Regulation III/6.2.1, IMO Resolution MSC.36 (63) (1994 HSC Code), IMO Resolution A.809 (19), Annex 1, IMO Resolution A.694 (17), ITU-R M.489-2 (10/95), ITU-R M.542.1 (07/82)	ETS 300 225 Ed 3 (1998-01), EN 300 828 V1.1.1 (1998-03), EN 60945 (1997) or IEC 61097-12 (1996), IEC 60945 (1996)
Integrated survival craft two-way VHF radiotelephone apparatus	Regulation III/6.2.1, IMO Resolution MSC.36 (63) (1994 HSC Code), IMO Resolution A.809 (19), Annex 2, IMO Resolution A.694 (17), ITU-R M.489-2 (10/95)	EN 301 466 (2000-11), EN 60945 (1997) or EN 301 466 (2000-11), IEC 60945 (1997)

⁽¹⁾ IMO MSC/Circ. 862 is applicable only to the optional remote activation device, not to the EPIRB itself.

⁽²⁾ In the line with IMO and ITU Decisions, the requirements for the two-tone alarm generator and transmission on H3E are no longer applicable in the testing standards.

⁽³⁾ Applicable only, if the Inmarsat C SES comprises the EGC-functions.

⁽⁴⁾ In the line with IMO and ITU Decisions the requirements for the two-tone alarm generator and transmission on A3H are no longer applicable in the testing standards.

Chapter 2

Radio Equipment, for which no detailed Testing Standards exist in international instruments**2.1 Navigation Equipment**

References to SOLAS, Chapter V, in this paragraph are to SOLAS 1974 Agreement, as amended by IMO MSC 73 and entered into force on 1 July 2002.

Item Designation	Applicable Regulations of SOLAS 74 - as amended, and the relevant Resolutions and Circulars of the IMO and Recommendations of ITU-R.	Testing Standards
Combined GPS/GLONASS equipment	Regulation V/19.2.1.6, IMO Resolution MSC.97 (73) 13.6 (2000 HSC Code), IMO Resolution MSC.74 (69), Annex 1, IMO Resolution A.694 (17)	Future EN 61108-3, EN 60945 (1997), EN 61162 or Future IEC 61108-3, IEC 60945 (1996), IEC 61162
DGPS/DGLONASS equipment	Regulation V/19.2.1.6, IMO Resolution MSC.97 (73) 13.6 (2000 HSC Code), IMO Resolution MSC.64 (67), Annex 2, IMO Resolution A.694 (17)	Future EN 61108-4, EN 60945 (1997), EN 61162 or Future IEC 61108-4, IEC 60945 (1996), IEC 61162
Universal AIS equipment	Regulation V/2.4, IMO Resolution MSC.74 (69), Annex 3, IMO Resolution MSC.97 (73) 13.15 (2000 HSC Code), IMO Resolution A.694 (17), ITU-R M.1371-1 (10/00)	Future EN 61993-2, EN 60945 (1997), EN 61162 or Future IEC 61993-2, IEC 60945 (1996), IEC 61162

2.2 Radio Communications Equipment

Item Designation	Applicable Regulations of SOLAS 74 - as amended, and the relevant Resolutions and Circulars of the IMO and Recommendations of ITU-R.	Testing Standards
VHF EPIRB	Regulation IV/8.3, IMO Resolution MSC.97 (73) 14.8.3 (2000 HSC Code), IMO Resolution A.662 (16), IMO Resolution A.805 (19), IMO Resolution A.694 (17), ITU-R M.489-2 (10/95), ITU-R M.693 (06/90)	EN 60945 (1997) or IEC 60945 (1996)
SES	Regulation IV/10.1.1, IMO Resolution MSC.97 (73) 14.10.1 (2000 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.808 (19), IMO Resolution A.694 (17), IMO MSC/Circ. 862	Future IEC 61097-13, IMO MSC/Circ. 862