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MINISTRY OF TRANSPORT AND COMMUNICATIONS
DEPARTMENT OF MARINE ADMINISTRATION

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Date: 22th January 2018

Directive (7/2018)

Type Approval of Marine Equipment

Applicable to: All Ship - Owners, ship Operators, Flag State Surveyors, Recognized Organizations, Masters and Officers of Myanmar Flagged Ships, Equipment Manufacturers in Myanmar

Reference:

(a) SOLAS 1974, as amended

1 The Department of Marine Administration circulates this directive in the exercise of the power conferred by Section 294(B), paragraph (b) of the Myanmar Merchant Shipping Act 1923, as amended.

2 This directive applies to Myanmar flagged ships engaged on International voyages complying with requirements of SOLAS 1974, as amended.

3 The Guidance and Standards for the Type Approval of Marine Equipment under SOLAS 1974, as amended under Chapter III, IV and V for safe operation of the ships are set out by the Department of Marine Administration to fulfill the relevant requirements of the above-mentioned reference.

Maung Maung Oo
Director General
Department of Marine Administration



Department of Marine Administration
Ministry of Transport and Communications
Republic of the Union of Myanmar

GUIDANCE AND STANDARD FOR THE TYPE APPROVAL OF MARINE EQUIPMENT

2018



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Introduction

1 This Guidance for Type approval for Marine equipment applies to all Myanmar flagged ships engaged on International voyages complying with the requirements of SOLAS 1974, as amended.

2 The Department of Marine Administration (DMA) will accept equipment approvals granted by another State that is a Party to the applicable convention or Recognized Organization (RO) on behalf of the Department of Marine Administration or other Party to the applicable convention; provided that the approvals are fully in accordance with convention requirements and other IMO guidelines.

3 The DMA will accept equipment approved under the European Union Marine Equipment Directive (MED).

4 Records of all activities relating to the referenced regulations shall be retained on board for inspection by Department of Marine Administration Surveyors, Recognized Organization Surveyors/ Auditors and Port State Control Officers.

5 The International Maritime Organization (IMO) conventions often require that shipboard equipment be to the satisfaction of the Administration or in compliance with a specified IMO standard, specification, or guide line. In many instances, equipment that is accepted by the classification society (Recognized Organization) as part of the vessel classification process will automatically satisfy these requirements.

6 The performance standard set out in this Guidance may be subject to amendments from time to time and any amendments will be circulated through Directive or Guideline.

7 This Guidance for the performance standard is here with set out by the Department of Marine Administration stated in the Directive 7/2018 on 22nd January 2018.

Part I.
EVALUATION, TESTING AND APPROVAL OF LIFESAVING
APPLIANCES AND ARRANGEMENT

The purpose of this Guidance is to specify requirement as regard to life saving appliances and arrangements provided on Myanmar flagged ships for compliance of Chapter III, SOLAS.

All life saving appliances and arrangement shall be evaluated, tested and approved by Recognized Organizations acting on-behalf of Government of the Republic of the union of Myanmar not inferior to recommendation adopted by IMO as follows;

- i. Resolution MSC.81 (70) – Revised Recommendation on Testing of Life-Saving Appliances, as amended by MSC.200 (80), MSC.226 (82), MSC.274 (85), MSC.295 (87), MSC.321 (89), MSC.323 (89), MSC.378 (93)
- ii. MSC/Circular.809 – Recommendation for Canopied Reversible Liferrafts, Automatically Self-Righting Liferrafts and Fast Rescue Boats, Including Testing, on Ro-Ro Passenger Ships
- iii. MSC/Circular.1006 – Guidelines on Fire Test Procedures for Acceptance of Fire – Retardant Materials for the Construction of Lifeboats
- iv. MSC/Circular.810 – Recommendation on Means of Rescue on Ro- Ro Passenger Ships
- v. IMO Resolution A.520 (13) – Code of practice for the evaluation, testing and acceptance of prototype novel life-saving appliances and arrangements
- vi. IMO Resolution A.752 (18) - Guidelines for the Evaluation, Testing and Application of Low-Location Lighting on Passenger Ships

Life Saving Appliances Approved by competence authorities in accordance with the respective resolutions as listed above are accepted for Myanmar Flagged Ships.

Part II.
PERFORMANCE STANDARD OF RADIO COMMUNICATIONS EQUIPMENT

Type Approved of Global Maritime Distress Safety Signals equipment required under Regulation 14, Chapter IV of SOLAS 74/78 for Myanmar flagged Ships.

Radio communications equipment which complied with performance standard not inferior to the performance standard adopted by International Maritime Organization is accepted to be installed on-board Myanmar Flagged Ships.

All radio communications equipment shall be evaluated, tested and approved by Recognized Organizations acting on-behalf of Government of the Republic of the union of Myanmar not inferior to recommendation adopted by IMO as follows;

Resolution A.525 (13): Performance standards for narrow-band direct-printing telegraph equipment for there caption of navigation a land meteorological warnings and urgent information to ships.

Resolution A.694 (17): General requirements for ship borne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids.

Resolution A.808 (19): Performance standards for ship earth stations capable of two-way communications and resolution A.570(14): Type approval of ship earth stations and MSC.130(75): Performance standards for Immersed ship earth stations capable of two-way communications.

Resolution A.803 (19): Performance standards for ship borne VHF radio installations capable of voice communication and digitals elective calling, as amended, and resolution MSC.68 (68), annex1 (valid for equipment installed on or after 1 January 2000).

Resolution A.804 (19): Performance standards for ship borne MF radio installations capable of voice communication and digitals elective calling, as amended, and resolution MSC.68(68), annex 2 (valid for equipment installed on or after 1 January 2000).

Resolution A.806 (19): Performance standards for ship borne MF/HF radio installations capable of voice communication, narrow-band direct-printing and digital selective calling, as amended, and resolution MSC.68(68), annex 3 (valid for equipment installed on or after 1 January 2000).

Resolution A.810(19): Performance standards for float-free satellite emergency position-indicating radio beacons (EPIRBs) operating on 406MHz and MSC.120(74): Adoption of amendments to performance standards for float-free satellite emergency position-indicating radio beacons (EPIRBs) operating on 406MHz (resolutionA.810(19)) (see also Assembly resolution A.696(17): Type approval of satellite emergency position-indicating radio beacons (EPIRBs) operating in the COSPAS-SARSAT system).

Resolution A.802(19): Performance standards for survival craft radar transponders for use in search and rescue operations.

Resolution A.805(19): Performance standards for float-free VHF emergency position-indicating radio beacons.

Resolution A.807(19): Performance standards for Immersed-C ship earth stations capable of transmitting and receiving direct-printing communications, as amended, and resolution MSC.68(68), annex 3 (valid for equipment installed on or after 1 January 2000), and resolution A.570(14): Type approval of ship earth stations.

Resolution A.664(16): Performance standards for enhanced group call equipment.

Resolution A.812(19): Performance standards for float-free satellite emergency position-indicating radio beacons operating through the geo stationary Immersed satellite system on 1.6 GHz.

Resolution A.662(16): Performance standards for float-free release and activation arrangements for emergency radio equipment.

Resolution A.699(17): System performance standard for the promulgation and co-ordination of maritime safety information using high-frequency narrow-band direct printing.

Resolution MSC.148(77): Adoption of the revised performance standards for narrow-band direct-printing telegraph equipment for the reception of navigational and meteorological warnings and urgent information to ships (NAVTEX).

Resolution A.811(19): Performance standards for a ship borne integrated radio communication system (IRCS) when used in the GDMSS.

Resolution MSC.80(70), annex 1: Performance standards for on-scene (are nautical) two-way portable VHF radio telephone apparatus.

IMO Resolution A.694(17)- General Requirements for Ship borne Radio Equipment Forming Part of the Global Maritime Distress and Safety System (GMDSS) and for Electronic Navigational Aids

IMO Resolution A.813(19)- General Requirements for Electro magnetic Compatibility (EMC) for all Electrical and Electronic Ships Equipment

MSC/Circular. 862- Clarifications of Certain Requirements in IMO Performance Standards for GMDSS Equipment

IMO Resolution A.702(17)- Radio Maintenance Guide lines for the Global Maritime Distress and Safety System (GMDSS) Related to Sea Areas A3 and A4

Part III.
APPROVAL, SURVEYS AND PERFORMANCE STANDARDS OF
NAVIGATIONAL SYSTEMS AND EQUIPMENT AND VOYAGE
DATA RECORDER

Type approved for navigational systems and equipment and voyage data recorder required under Regulation 18, Chapter V of SOLAS 74/78 installed onboard of Myanmar Flagged ships.

NAVIGATIONAL SYSTEMS AND EQUIPMENT AND VOYAGE DATA RECORDER which complied with performance standard not inferior to the performance standard adopted by International Maritime Organization is accepted to be installed on-board Myanmar Flagged Ships.

All navigation systems and equipment and voyage data recorder shall be evaluated, tested and approved by Recognized Organizations acting on-behalf of Government of the Republic of the union of Myanmar not inferior to recommendation adopted by IMO as follows;

Resolution A.694(17): Recommend actions on general requirements for ship borne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational Aids.

Resolution A.424 (XI): Recommendation on performance standards for gyro-compasses
Resolution MSC.64 (67), annex 4: Recommendation on performance standards for radar equipment.

Resolution A. 823(19): Performance standards for automatic radar plotting aids.

Resolution A.817(19), as amended by resolutions MSC.64(67), annex 5 and MSC.86(70), annex 4, as appropriate: Recommendation on performance standards for electronic chart display and information systems (ECDIS);

Resolution A. 529(13): Recommendation on accuracy standards for navigation.

Resolution A.818(19): Recommendation on performance standards for ship borne Loran-C and Chaka receivers.

Resolution A.819(19)) as amended by resolution MSC.112(73): Recommendation on performance standards for ship borne global positioning system receiver equipment.

Resolution MSC.53 (66)) as amended by resolution MSC. 113(73): Recommendation on performance standards for ship borne GLONASS receiver equipment.

Resolution MSC.64(67), annex 2, as amended by resolution MSC.114(73): Recommendation on performance standards for ship borne DGPS and DGLONASS maritime radio beacon receiver equipment.

Resolution MSC.74(69), annex 1, as amended by resolution MSC.115(73): Recommendation on performance standards for combined GPS/GLONASS receiver equipment.

Resolution MSC.64(67), annex 3: Recommendation on performance standards for heading control systems.

Resolution MSC.74(69), annex 2: Recommendation on performance standards for track control systems.

Resolution MSC.74(69), annex 3: Recommendation on performance standards for a universal ship borne automatic identification system (AIS)

Resolution A. 224(VII), as amended by resolution MSC.74(69), annex 4: Recommendation on performance standards for echo-sounding equipment.

Resolution A.824(19), as amended by resolution MSC.96(72): Recommendation on performance standards for devices to indicate speed and distance.

Resolution A.526 (13): Performance standards for rate-of-turn indicators.

Resolution A. 575(14): Recommendation on unification of performance standards for navigational equipment.

Resolution A. 343(IX): Recommendation on methods of measuring noise level at listening posts
Resolution A.384(X): Recommendation on performance standards for radar reflectors.

Resolution A.382(X): Recommendation on performance standards for magnetic compasses
Resolution MSC.95(72): Recommendation on performance standards for day light signaling lamps.

Resolution MSC.86(70), annex 1: Recommendation on performance standards for sound reception systems.

Resolution MSC.86 (70), annex 2: Recommendation on performance standards for marine transmitting magnetic heading devices (TMHDs)

Resolution A.861(20): Recommendation on performance standards for voyage data recorders (VDRs)

Resolution MSC.116(73): Recommendations on performance standards for marine transmitting heading devices (THDs)

Resolution MSC.163 (78) - Performance Standards for Ship borne Simplified Voyage Data Recorders (S-VDRs)

Resolution MSC.210(81) - Performance Standards and Functional Requirements for the Long- range Identification and Tracking of Ships.

Resolution MSC.333(90) - Recommendation on performance standards for voyage data recorders (VDRs)

Resolution MSC.214(81) - Amendments to the performance standards for voyage data recorders (VDRs) and for Ship borne Simplified Voyage Data Recorders (S-VDRs)

Resolution MSC.232(82) - Revised performance standards for electronic chart display and information systems (ECDIS)

Resolution MSC.214(81) - Performance standards for a Bridge Navigational Watch Alarm System (BNWAS)

Resolution MSC.303 (87) - Performance standards for Bridge Alert Management.

Resolution MSC.191 (79) - Recommendation on performance Presentation of Navigation-Related Information on ship borne Navigational Displays

Part IV.
THE STANDARD OPERATING PROCEDURE FOR TYPE APPROVAL OF
MARINE EQUIPMENT

1. Standard Operating Procedure for Type Approval of Marine Equipment

1.1 Policy

To ensure marine equipment using on board are manufactured and tested in accordance with the requirements of relevant IMO Instruments and International Standards especially SOLAS 1974, as amended Chapter III, IV and V for the safe operation of the ships.

1.2 Purpose

To provide the information and requirements related to the type approval for stringent compliance with and uniform application of the procedure.

1.3 Responsibilities

1.3.1 The **Ship owners** are responsible for the supply or installation of all navigational equipment, radio communication equipment, life saving appliances and arrangement, which are approved or accepted by the Department of Marine Administration (DMA).

1.3.2 The **Notified Body** is responsible for the entire process of type approval for Mariner Equipment on behalf of the DMA.

1.4 Appointment of Notified Body and Acceptance & Recognition

1.4.1 Appointment of Notified Body

In case when there is a marine equipment manufacture in Myanmar, the DMA will appoint one of the Recognized Organizations to act on his behalf and will bring it to the attention of all parties concerned by Directive and/or Guidance and Standards for Type Approval.

1.4.2. Acceptance & Recognition for Type Approval of Mariner Equipment

The DMA accepts and recognizes the manufacturers, checked or inspected and approved by the Recognized Organizations, the other IACS members and the other SOLAS Contracting Governments provided that all navigational and radio communication equipment complied with the relevant performance standard adopted by International Maritime Organization (IMO) and all life saving appliances and arrangement are evaluated, tested and approved in accordance with the relevant recommendation adopted by IMO.

1.5 List of Notified Bodies

The list is attached to the Annex1 of Guidance and Standards for Type Approval of Marine Equipment. It will be updated whenever the changes take place.

1.6 List of Recognized Organizations

The list is attached to the Annex 2 of Guidance and Standards for Type Approval of Marine Equipment. It will be updated whenever the changes take place.

1.7 Reference

1.7.1 SOLAS 1974, as amended

1.8 Records

1.8.1 The documents related to the appointment of Notified Body (if any).

1.8.2 The copy of type approval certificate for critical equipment of Myanmar flagged ships.
The records shall be retained for a minimum period of (5) years.

ANNEX 1

List of Notified Bodies

Nil

ANNEX 2

List of Recognized Organizations

The following Recognized Organization may undertake type approval of the product or production range of equipment.

1. Nippon Kanji Kyokai (Class NK)
2. Lloyd's Register (LR)
3. American Bureau of Shipping (ABS)
4. Bureau Veritas (BV Class)
5. Korean Register of Shipping (KR)
6. China Classification Society