



Maritime and Coastguard Agency

## **Type Approval of Marine Equipment (UK Nominated Bodies)**

Notice to 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 supersedes Merchant Shipping Notice No.M.1645 and MGN 43. The following text is to be inserted in MSN 1688 - end of para 1, and MSN 1714 - end of para 3:*

*'In the case of a ship of a Member State of the European Union, the performance standards applicable to equipment installed on or after 1 January 1999 are specified in the Merchant Shipping (Marine Equipment) Regulations 1999, as they may be amended from time to time.'*

### **Summary**

This Notice covers equipment listed in Annex A.2 of Directives 96/98/EC and 98/85/EC where no detailed internationally agreed testing standards exist. This equipment will continue to be type approved by the Nominated Bodies until international standards are agreed.

This Notice advises about:-

- the delegation of marine equipment approvals by the MCA to the Nominated Bodies
- the appropriate tests and procedures to be used for future type approvals
- the categories of equipment for which approval has been delegated
- the retention by MCA of type approval of novel items

### **1 Introduction**

1.1 The Merchant Shipping (Marine Equipment) Regulations 1999 SI (1999 No. 1957) provide for the "type approval" of marine equipment, of a safety or pollution prevention nature, for use on board United Kingdom ships. This legislation implements the European Community (EC) Directive 96/98/EC of 20 December 1996 on Marine Equipment and 98/85/EC of 11 November 1998. Directive 98/85/EC contains an Annex A which amends Annex A of Council Directive 96/98/EC. After 30 April 1999, the testing standards in the amended Annex A must be used to obtain an EC type approval certificate. However, for equipment manufactured between 1 January 1999 and 30 April 1999, manufacturers may use the testing standards contained in Annex A of 96/98/EC.

1.2 *The equipment listed in this notice covers equipment listed in Annex A 2 of Directives 96/98/EC and 98/85/EC where no detailed internationally agreed testing standards exist. Such equipment will continue to be type approved by the Nominated Bodies to standards agreed with the MCA until international standards are agreed.*

1.3 Type approval of Annex A 1 Equipment must be conducted by an EC Notified Body. Details of Notified Bodies nominated by the UK are contained in MSN 1734.

1.4 Where equipment is of a novel nature or subject to significant design changes or the specifications or testing requirements are not considered to be sufficiently developed or experience of their usage is limited, the MCA will undertake the necessary approval procedure.

- 1.5 Procedures have been agreed with the bodies listed in the Annex which are nominated as "persons" (as referred to in the Merchant Shipping (Delegation of Type Approval) Regulations 1996) who may undertake the examination, testing and certification of the equipment listed in the Annex for which type approval is normally appropriate.
- 1.6 Existing MCA type approval certificates for equipment listed in the Annex to this notice will remain valid until their expiry date or until 31 December 2000, or until cancelled. Upon the expiry date of the certificate, manufacturers are advised to re-apply for renewal of their certificate to a Nominated Body. If requirements have not changed a new certificate will be issued. All new certificates of type approval will be valid for a period of up to 5 years.
- 1.7 Unless there is a change in the required standard, existing type approved equipment already fitted on board ship will continue to be accepted providing it operates satisfactorily. If it needs to be replaced, then it must be replaced with equipment for which a current type approval certificate is in force.
- 1.8 Equipment for new ships or for fitting on existing ships, where required to be type approved, should be type approved to the latest standards.

## 2 TYPE APPROVAL PROCEDURE

### 2.1 Application for Type Approval

- 2.2 A manufacturer or person wishing to gain type approval of equipment listed in this notice for use on UK ships should submit an application to a Nominated Body. The application should include:
  - .1 the name and address of the manufacturer and, if the application is lodged by an authorised representative, his name and address;
  - .2 a written declaration that the same or a similar application has not been lodged with another Nominated Body;
  - .3 the technical documentation stated in paragraph 3; and
  - .4 the applicant is to place at the disposal of the Nominated Body sufficient

specimens representative of the production envisaged. The Nominated Body may request further specimens if needed for carrying out the test programme.

- 2.3 The technical documentation is to enable conformity of the product with the requirements of the relevant regulations and test standards to be assessed. It is, as far as relevant for such an assessment, to cover the design, build standard, manufacture and functioning of the equipment.
- 2.4 Type approval tests are to be conducted at a United Kingdom Accreditation Services (UKAS) or equivalent national body accredited laboratory unless no such laboratory is available. In this instance an alternative laboratory recognised by the Nominated Body as offering suitable and satisfactory guarantees of technical and professional competence, quality procedures and autonomy with particular reference to the application of EN 45001 or ISO/IEC Guide 25 may be used.
- 2.5 The Nominated Body will:-
  - .1 examine the technical documentation and verify that the equipment has been manufactured in conformity with the technical documentation;
  - .2 agree with the applicant the location where the examination and necessary tests are to be carried out; and
  - .3 perform or have performed the appropriate examination and necessary tests to check whether the relevant requirements are complied with.
- 2.6 Where the equipment meets the provisions of the relevant applicable instruments and test and performance standards, the Nominated Body will issue a certificate of type approval to the applicant. The certificate will contain the name and address of the manufacturer, details of the equipment, conclusions of the examination, conditions for its validity and the necessary data for identification of the approved type.
- 2.7 A list of the relevant parts of the technical documentation including drawings and instructions will be annexed to the certificate and a copy kept by the Nominated Body.

- 2.8 If the manufacturer is refused a certificate of type approval, the Nominated Body will provide detailed reasons for such refusal.
- 2.9 The applicant must inform the Nominated Body that holds the technical documentation concerning the certificate of type approval of all modifications to the approved product which must receive additional approval where such changes may affect the conformity with the requirements or the prescribed conditions for use of the equipment. This additional approval will be given in the form of an addition to the original certificate of type approval.
- 2.10 Each Nominated Body shall communicate upon request to the MCA and other Nominated Bodies the relevant information concerning the certificates of type approval and additions issued and withdrawn.
- 2.11 The certificate of type approval and/or their additions and the annexes to the certificates will be kept at the disposal of the MCA and the other Nominated Bodies for the period specified in paragraph 2.12 and 2.13.
- 2.12 The manufacturer or his authorised representative is to keep with the technical documentation copies of certificates of type approval and their additions for a period of at least ten years after the last product has been manufactured.
- 2.13 The Nominated Body is to keep the technical documentation, other documentary evidence used to type approve the equipment and copies of certificates of type approval with their additions for a period of at least ten years after the issue of each certificate of type approval.
- 3 Technical documentation supplied by the Manufacturer to the Nominated Body**
- 3.1 The technical documentation must contain all relevant data or means used by the manufacturer to ensure that the equipment complies with the essential requirements relating to it.
- 3.2 The technical documentation must enable understanding of the design, manufacture and operation of the product and assessment of conformity with the relevant requirements.
- 3.3 The documentation shall contain so far as is relevant for assessment:-
- .1 a general description of the equipment;
  - .2 conceptual design and manufacturing drawings and schemes of components, and relevant supporting drawings;
  - .3 descriptions and explanations necessary for the understanding of the said drawings and schemes, including the operation of the equipment;
  - .4 results of design calculations made, impartial examinations carried out, etc;
  - .5 impartial test reports; and
  - .6 manuals for installation, use and maintenance.
- 3.4 Where appropriate, the design documentation must contain the following elements:-
- .1 attestations relating to the equipment incorporated in the appliance;
  - .2 attestations and certificates relating to the methods of manufacture and/or inspection and/or monitoring of the appliance; and
  - .3 any other document making it possible for the Nominated Body to improve its assessment.
- 3.5 On receipt of notification the Nominated Body will, in consultation with the manufacturer, agree on such particulars as may be required to enable him to undertake an assessment of the equipment and issue the relevant certificate of type approval.
- 4 Waiver**
- In consultation with the MCA, the Nominated Body may waive the requirement for any test specifically cited in a performance standard providing it is satisfied that the sample has met the criteria of a specification superior to that of the prescribed test.
- 5 Non-Compliance**
- If the equipment is not found to meet the

appropriate standard(s) the applicant will be notified, in writing, of the non-compliance.

## 6 Re-Submission

6.1 Where a submission has been rejected after completion of the type approval procedure by the Nominated Body, the manufacturer will be required to modify the equipment to take account of the reasons for non-compliance before making a new submission to the Nominated Body. In the manufacturer's application to the Notified Body he must include

- (a) the original examination and test results;
- (b) the detailed reasons provided by the Nominated Body for the previous refusal: and
- (c) details of all modifications made to the equipment since the previous application.

6.2 Upon receipt of the re-submission, together with the application form the Nominated Body will re-open the approval procedure.

## 7 Issue of Type Approval

7.1 Providing that the Notified Body is satisfied that the equipment complies in all respects with the specifications laid down by the MCA and subject to the provisions below, the Nominated Body will issue a certificate of type approval stating the terms and conditions of approval and period of validity which will be of up to 5 years.

7.2 A certificate of type approval refers only to equipment identical to that assessed. It is also a condition of issue of the certificate that a manufacturer shall consult with the Nominated Body prior to any alteration to the build standard of the equipment, hardware, software or firmware.

7.3 The Nominated Body may require further testing and assessment to be undertaken in the event of a modification, or series of modifications, being considered to constitute sufficient departure from the build standard of the equipment hardware, software or firmware for which the certificate of type approval was originally issued.

## 8 Information About Type Approvals

8.1

See new section 8.1 at page 6

8.2 For equipment not listed which is required to be type approved, please contact the Maritime and Coastguard Agency.

Maritime and Coastguard Agency  
Spring Place  
105 Commercial Road  
Southampton SO15 1EG  
Tel 01703 329186  
Fax 01703 329204

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**Amending Section 8 - Information About Type Approvals**  
**MSN 1735 (M+F) Amendment 1**

8.1 Information concerning Type Approved Marine Equipment and how to obtain type approval for equipment listed in the Appendices to the Annex can be obtained from:

Lloyd's Register of Shipping  
Statutory Department, MSG/STAT/TA  
71 Fenchurch Street  
London EC3M 4BS  
Tel: 0207 709 9166  
Fax: 0207 488 4796

QINETIQ Ltd  
Fort Cumberland Road  
Eastney  
Portsmouth PO4 9LR  
Tel: 023 9233 4503  
Fax: 023 9283 0017

ABS Europe Ltd  
ABS House  
1 Frying Pan Alley  
London E1 7HR  
Tel: 0207 247 3255  
Fax: 0207 247 3053

Germanischer Lloyd  
Branch Office UK  
Elm Court  
53 Elmcroft Road  
Orpington  
Kent BR6 OHZ  
Tel: 01689 891911  
Fax: 01689 891876

Bureau Veritas  
2nd Floor Tower Bridge Court  
224-226 Tower Bridge Road  
London SE1 2TX  
Tel: 0207 403 6266  
Fax: 0207 403 1590

OIS Department  
Det Norske Veritas  
Palace House  
3 Cathedral Street  
London SE1 9DE  
Tel: 0207 357 6080  
Fax: 0207 357 6048

Registro Italiano Navale (UK)  
14 Waterloo Place  
London  
SW1Y 4AR  
Tel: 0207 930 2950  
Fax: 0207 839 6099

Fire Appliances

Item Description
Non-portable and transportable fire extinguishers
Firemain and hydrants (components)
Fire blankets
Remote closing valves for oil fuels
Detectors of heat, smoke or flame
Nozzles for fixed pressure water-spraying fire-extinguishing systems for machinery spaces
Fixed Fire Detection and Alarm System (components)
Portable foam applicator units
Manual call points
Fixed pressure water spraying fire extinguishing system in cargo spaces
Compressed airline breathing apparatus
Paint lockers and flammable liquid lockers fire extinguishing system (components)
Galley exhaust duct fixed fire extinguishing system (components)
Helicopter deck fire extinguishing system (components)
C class divisions
Fixed low expansion foam extinguishing system for deck and machinery spaces (components)
Expansion foam for fixed fire extinguishing system for chemical tankers
Gaseous fuel systems used for domestic purposes (components)
Fixed CO2 system (components)
Sample extraction smoke detection system
Fire hose reels
Dual purpose type nozzles (spray/jet type)
Safety lamps & torches
Deck foam systems
Pressure Vacuum Valves (other than high velocity valves)
International Shore Connection
Cold Weather Starting of Generator Sets

Life-Saving Appliances

Item Description
Radar reflector for liferafts
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
Lifejacket material
Immersion suit materials
Float-free launching appliances for survival craft
Public Address and general alarm systems
Embarkation ladder
Non-SOLAS liferafts, rescue boats and inflatable boats
Foam buoyancy material
Glass fibre materials
Polyester resin
Lifejackets - inflatable (Adult/Child) to modified CAA specification - single compartment



Marine Engineering

Item Description
Fuel & lube oil flexible pipes in machinery spaces & couplings
Structural measuring equipment
Watertight Doors

Equipment Required under COLREG 72

Item Description
Navigation lights
Sound signal appliances

Navigation Equipment

Item Description
Auto-pilot (heading control system) for high speed craft
Transmitting heading device THD (GNSS method)
Daylight signalling lamp
Searchlight for high speed craft
Night vision equipment for high speed craft
Combined GPS/GLONASS - equipment
DGPS, DGLONASS - equipment
Integrated Navigation system
Radar target enhancer
Sound reception system
Magnetic compass for high speed craft
Track control system for high speed craft
Chart facilities for shipborne radar
Transmitting heading device THD (magnetic and gyroscopic methods)
Thrust indicator
Lateral thrust, pitch and mode indicators

**Marine-Pollution Prevention**

Item Description
On board NOx monitoring and recording devices
On board exhaust gas cleaning systems
Equivalent methods to reduce on board NOx emissions
Other technological methods to limit SOx emissions
Crude oil washing machines

**Radio-Communication Equipment**

Item Description
VHF EPIRB
Radio reserve sources of energy
Inmarsat-F SES
Distress Panel
Distress alarm or alert panel

**Bulk Carrier Safety Equipment**

Item Description
Loading instrument

Crew Accommodation

Item Description
Floor coverings
Sidescuttles and windows
Vacuum discharge piping systems
Thermostatic mixing valves
Plant used to produce drinking and/or fresh water