

Guidelines for Type Approval
of Products for Marine Use
for EU Mutual Recognition
(Tenth Edition)

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ClassNK

Introduction

European Union requires the eleven classification societies recognized by the EU (hereafter described as EU ROs*) to mutually recognize the class certificates for materials, equipment and components issued by other EU ROs, in appropriate cases, in Article 10 of REGULATION (EC) No 391/2009**, which entered into force in June 2009 (hereafter described as EU Mutual Recognition).

In response to this requirement, the EU ROs agreed to apply EU Mutual Recognition in a phased manner and developed a common procedure for type approval and technical requirements for 11 items as the first phase from 1 January 2013, which were deemed to have relatively little effect on the safety of ships. Technical requirements were developed based on the most demanding and rigorous standards of all relevant rules of EU ROs, and the views of manufacturers of the items in question and the views of industry associations were also reflected during the finalization of the technical requirements. The EU ROs accept the application of EU Mutual Recognition for Tier 1 to Tier 10 items, which cover 82 items in total.

This guideline sets forth procedures for conducting Type Approval by ClassNK necessary for marine products covered by EU Mutual Recognition and the references to the technical requirements, based on procedures and technical requirements developed by EU ROs.

For application of EU Mutual Recognition to the products approved in accordance with this guideline (hereafter described as EU mutually recognized products), the following points are to be noted:

1. EU mutually recognized products are deemed equivalent as those approved by ClassNK in accordance with the relevant rules of the Society.
2. EU Mutual Recognition does not mandate the use of EU mutually recognized products. In cases where applicants do not intend to apply EU Mutual Recognition to their products, applicants are requested, just as previously, to install products on vessels registered with the Society in accordance with the Rules of the Society, i.e., the products installed onboard a ship registered to the Society need neither always to be approved in accordance with the guidelines of the Society nor be approved as EU mutually recognized products by other ROs.
3. For items that are not subject to Type Approval under the Rules of the Society (e.g. “Switches”, “LV Transformers”, “Electric Driven Motors < 50kW”), it is not necessary to obtain Type Approval to install them onboard a ship registered with the Society, as before.

As far as non-EU flagged vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS) (Commission Implementing Regulation (EU) No 1355/2014, Recital 25). EU Mutual Recognition is invalid for vessels flying the Japanese Flag. Therefore, products installed on board a Japanese flag vessel registered with the Society are to be approved by the Society in accordance with either the Rules of the Society or these guidelines and shall not be EU mutually recognized products approved by other societies.

*EU ROs: ABS (USA), BV (France), CCS (China), CRS (Croatia), DNV (Norway), IRS (India), KR (Korea), LR (UK), NK (Japan), PRS (Poland) and RINA (Italy)

** “REGULATION (EC) No 391/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 23 April 2009 on common rules and standards for ship inspection and survey organizations as amended by Commission Implementing Regulation (EU) No 1355/2014” Article 10

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Chapter 1 GENERAL

1.1 General

1.1.1 Application

These Guidelines apply to the testing and examination of materials, equipment components and similar items that may be accepted for mutual recognition of type approval in accordance with Article 10 of REGULATION (EC) No. 391/2009

Any changes of MR Technical Requirements (including those resulting from updates and changes to nationally or internationally recognised standards or IACS Unified Requirements) may be implemented based only on the amended rules of individual ROs. (note: Version of implemented IACS Unified Requirements at the time of application is to be used.)

1.1.2 Definitions

EU Mutually Recognized Type Approval described in these guidelines means type approval for mutual recognition by other EU ROs based on Design Evaluation and examination of production quality assurance of the subject items in accordance with 1.3 below.

1.1.3 Items and Technical Requirements

Items subject to these Guidelines are as listed in **Table 1.1**. For the technical requirements of each item, the current version of the technical requirements published by the EU RO MUTUAL RECOGNITION GROUP are to be applied. For items that are not listed in **Table 1.1** but whose technical requirements are published by the EU RO MUTUAL RECOGNITION GROUP, the published technical requirements are to be referred to.

Table 1.1 Items and Technical Requirements

Items	URL
(1) Circuit-Breakers (without Electronic Devices)	https://www.euomr.org/requirement/50
(2) Fuses	https://www.euomr.org/requirement/64
(3) Switches	https://www.euomr.org/requirement/35
(4) Contactors (without Electronic Devices)	https://www.euomr.org/requirement/55
(5) LV Transformers	https://www.euomr.org/requirement/66
(6) LV Enclosures & Boxes	https://www.euomr.org/requirement/65
(7) Electric Driven Motors	https://www.euomr.org/requirement/58
(8) Display Monitors, Video Screens, Terminals	https://www.euomr.org/requirement/16
(9) Mechanical Joints	https://www.euomr.org/requirement/22
(10) Resin Chocks	https://www.euomr.org/requirement/24
(11) Sensors	https://www.euomr.org/requirement/25
(12) Accumulated Battery	https://www.euomr.org/requirement/9
(13) Air Pipe Automatic Closing Device	https://www.euomr.org/requirement/46
(14) Cable Ties	https://www.euomr.org/requirement/15
(15) Class III Pipe Fittings (DY≤500 mm)	https://www.euomr.org/requirement/52
(16) Computers and Programmable Logic Controllers (PLCs)	https://www.euomr.org/requirement/53
(17) Electrical / Electronic Relays	https://www.euomr.org/requirement/60
(18) Expansion Joints	https://www.euomr.org/requirement/18
(19) Flameproof Luminaire (Lighting Fixture)	https://www.euomr.org/requirement/19
(20) Electric Cables – Heating Cables	https://www.euomr.org/requirement/17

(21) Plastic Piping Systems (Components)	https://www.euomr.org/requirement/67
(22) Spark Arresters	https://www.euomr.org/requirement/36
(23) Adjustable Steel Chocks	https://www.euomr.org/requirement/13
(24) Air Compressor	https://www.euomr.org/requirement/45
(25) Battery Chargers	https://www.euomr.org/requirement/14
(26) Boiler Remote Level Indicator	https://www.euomr.org/requirement/47
(27) Cable Trays and Ducts (Metallic)	https://www.euomr.org/requirement/49
(28) Cable Trays and Ducts (Glass Reinforced Plastic (GRP))	https://www.euomr.org/requirement/48
(29) Connecting Systems for Cable Repair (Cable Splices)	https://www.euomr.org/requirement/54
(30) Electrical Actuators for Valves	https://www.euomr.org/requirement/59
(31) Insulation Panels for Provisions Rooms and Chambers	https://www.euomr.org/requirement/20
(32) Pneumatic Actuators for Valves	https://www.euomr.org/requirement/68
(33) Solenoid Valve Assembly	https://www.euomr.org/requirement/37
(34) Stationary Lighting Fixtures, Flood-light Projectors	https://www.euomr.org/requirement/10
(35) Circuit Breakers with Electronic Devices	https://www.euomr.org/requirement/51
(36) Contactors with Electronic Devices	https://www.euomr.org/requirement/56
(37) Temperature Gauges and Transmitters	https://www.euomr.org/requirement/98
(38) Tachometer	https://www.euomr.org/requirement/26
(39) Thermal Insulation of Organic Foams for Piping	https://www.euomr.org/requirement/33
(40) Valves for Seawater Systems	https://www.euomr.org/requirement/12
(41) Valves for Freshwater systems	https://www.euomr.org/requirement/31
(42) Valves for Sanitary Systems	https://www.euomr.org/requirement/28
(43) Valves for Bilge Systems	https://www.euomr.org/requirement/27
(44) Valves for Lubricating Oil and Hydraulic Oil Systems	https://www.euomr.org/requirement/29
(45) Control and Protective Switching Devices	https://www.euomr.org/requirement/57
(46) Electro-pneumatic Level Transmitters (EPLT)	https://www.euomr.org/requirement/62
(47) Electronic Power Units for Valve Control	https://www.euomr.org/requirement/61
(48) Flow Gauges / Transmitters	https://www.euomr.org/requirement/63
(49) Level Gauges / Transmitters	https://www.euomr.org/requirement/21
(50) Pressure Gauges / Transmitters	https://www.euomr.org/requirement/69
(51) AC Semiconductor Controllers	https://www.euomr.org/requirement/11
(52) LV Soft Starters	https://www.euomr.org/requirement/38
(53) Pilot Devices	https://www.euomr.org/requirement/23
(54) Valves for Cargo Systems	https://www.euomr.org/requirement/32
(55) Valves for Fuel Oil Systems	https://www.euomr.org/requirement/30
(56) Anti-Acid Paints (Batteries' Storage Rooms)	https://www.euomr.org/requirement/70
(57) Electrical Insulation Mats	https://www.euomr.org/requirement/71
(58) Gaskets and Seals for Piping Systems	https://www.euomr.org/requirement/72
(59) Non-Metallic Gratings	https://www.euomr.org/requirement/73
(60) Touch Screen i.e. a Display Monitor or a Video Screen that is also an Input Device	https://www.euomr.org/requirement/74
(61) Valves - Boiler Water Systems (Class III)	https://www.euomr.org/requirement/75
(62) Valves - Steam Systems	https://www.euomr.org/requirement/76

(63) Differential Pressure Switches	https://www.euomr.org/requirement/78
(64) Dual Temperature and Pressure Switches	https://www.euomr.org/requirement/79
(65) Flow Switches	https://www.euomr.org/requirement/80
(66) Level Switches	https://www.euomr.org/requirement/81
(67) Position Switches	https://www.euomr.org/requirement/85
(68) Pressure Relief Valve in Class III Piping System	https://www.euomr.org/requirement/82
(69) Pressure Switches	https://www.euomr.org/requirement/83
(70) Temperature Switches	https://www.euomr.org/requirement/84
(71) Insulation Monitoring Devices (IMD)	https://www.euomr.org/requirement/86
(72) Wind Velocity and Direction Gauges for DP Systems	https://www.euomr.org/requirement/97
(73) Power Supply Units (< 5kVA)	https://www.euomr.org/requirement/93
(74) Vertical Surface Reference System for DP System	https://www.euomr.org/requirement/96
(75) Cable Glands	https://www.euomr.org/requirement/88
(76) Resilient Mountings of Machinery	https://www.euomr.org/requirement/94
(77) Corrosion-resistant Paints	https://www.euomr.org/requirement/89
(78) Electric Space Heating Equipment	https://www.euomr.org/requirement/91
(79) Strainers	https://www.euomr.org/requirement/95
(80) Electric Motor Starters other than Soft Starters	https://www.euomr.org/requirement/90
(81) Inverters	https://www.euomr.org/requirement/92
(82) Engine Order Telegraph	https://www.euomr.org/requirement/99

1.2 Application Procedures

1.2.1 Application Procedures

Applications are to be handled according to the following procedure.

- (1) The manufacturer, who intends to obtain EU Mutually Recognized Type Approval from the Society for any of the applicable items, is to submit an application “[Form-EU-MR-APP](#)” filled in with the name, type, rating, specification, use, applied standard, and other relevant details of the product with related documents, in triplicate, specified in **1.3.3(2)** and in the links listed in **Table 1.1** to the Society (Head Office or Branch Office in charge).
- (2) Documents specified in the links listed in **Table 1.1** are to be provided in English.

1.3 Design Evaluation and Production Quality Assurance

1.3.1 Examination Procedures

The Society is to carry out relevant examinations in accordance with the application described in **1.2** above as follows:

- (1) Design Evaluation
- (2) Production Quality Assurance

1.3.2 Design Evaluation

- (1) Engineering evaluation
 - (a) Applicable items to be granted EU Mutually Recognized Type Approval by the Society are required to comply with engineering evaluation requirements specified in the links listed in **Table 1.1** for each item.
 - (b) The certificate specified in section **1.4** is revoked when the applicable standard of the EU Mutually Recognized Type Approved item expires or changes.
- (2) Type Tests

- (a) Applicable items to be granted EU Mutually Recognized Type Approval by the Society are required to be tested in accordance with the type testing requirements specified in the links listed in **Table 1.1** for each item.
 - (b) The manufacturer is to submit test records, in triplicate, to the Society (Head Office or Branch Office in charge) as soon as possible after completion of the tests specified in (a) above.
 - (c) Type tests always to be witnessed by the Society surveyor. However, in such cases where the tests are conducted at a Nationally Accredited Laboratory, the presence of the Society surveyor may be omitted.
 - (d) The type tests to be conducted on the test specimen(s) selected from production line or at random from stock in the presence of a Society surveyor in accordance with the agreed type test program.
 - (e) Where the type tests are conducted at a Nationally Accredited Laboratory without the presence of the Society surveyor, the applicant to provide assurance to the Society surveyor selecting the test specimen(s), that the test specimen(s) to be sent to and tested at the Laboratory to be verified in accordance with an agreed procedure.
- (3) Document for Design Evaluation
- (a) Where the product meets the above (1) and (2), the Document for Design Evaluation will be issued to the applicant. The document includes the name and address of the applicant, details of the product, the conclusion of the examination, the conditions of its validity and the necessity date for identification of the approved product.
 - (b) The applicant must provide on request the Design Evaluation documents to each EU RO for which they want Mutual recognition.

1.3.3 Production Quality Assurance

(1) General

- (a) The manufacturer is required to be ISO 9001 certified by an accredited Certifying Organization or the equivalent.
- (b) The manufacturer is to conduct manufacturing of the product, final inspection and tests in accordance with approved procedures of quality control for manufacturing.
- (c) EU Mutually Recognized Type Approved items are to comply with the manufacturing requirements specified in the links listed in **Table 1.1** for each respective item.
- (d) The Certificates specified in section 1.4 are valid only so long as the certificates related to the quality control system are valid.

(2) Documents to be submitted

- (a) List of suppliers of materials and main components
- (b) Documents related to the quality control system and related certificates, including:
 - i) certificates of the quality control system and latest audit report issued by the Certifying Organization;
 - ii) detailed description of the means, process flow, and systematic operation used for manufacturing, quality control and quality assurance;
 - iii) inspections and tests, including their frequency, prior to, during, and after manufacturing;
 - iv) records regarding quality control such as inspection reports, test records, calibration records, defect and complaint records, staff qualification records and similar records; and
 - v) detailed description of the means used to monitor the required quality of products and measure achievement of effective operation of quality control.
- (c) Information related to the applicable item other than the above.

(3) Factory inspection

The Society is to carry out factory inspections to confirm whether the manufacturer can produce the applicable items for EU Mutually Recognized Type Approval continuously in accordance with the submitted documents, after completing the examination of the documents. After completion of the survey, the Society will inform the manufacturer of the results of this examination.

1.4 Certificates

1.4.1 Issuance of Certificates

Once the Society is satisfied with the results of the examination of the product design and quality assurance system used in the manufacturing process, it will issue a Certificate of approval for the product to the manufacturer. In addition, the Society will also put approval stamps on the test reports submitted in accordance with 1.3.2 and return them to the applicant through the local Branch Office.

1.4.2 Validity of Certificates

The term of approval will be valid for 5 years from the date when the item is accepted upon the examinations described in section 1.3 above. However, the period of validity may be shortened when the applicable standard of the EU Mutually Recognized Type Approved item expires or changes, or the certificates related to the quality control system expire, or the Certificate is revoked in accordance with section 1.8 below.

1.4.3 Renewal of Certificate

1 The manufacturer is to submit an application "[Form-EU-MR-APP](#)" to the Society (Branch Office in charge) for examination, in case they intend to renew the approval term of the Certificate of EU Mutually Recognized Type Approval. Examinations in this case are to be in accordance with the requirements specified in paragraph 1.5.1 and "Type testing requirement for certificate renewal" of the links listed in **Table 1.1**.

2 In case the item is accepted upon examination, the Society will issue a new Certificate with an extended validity date of another 5 years from the previous Certificate.

1.5 Annual Assessment

1.5.1 Annual Assessment

- (1) The manufacturer is required to undergo an annual assessment of the quality control system for manufacturing once per year. In this case, an application "[Form-EU-MR-APP-AA](#)" and the documents, in triplicate, specified in (2) are to be submitted to the Society (Branch Office in charge).
- (2) Documents to be submitted
 - (a) Documents related to the quality assurance of manufacturing and related to design examination;
 - (b) Records for quality control such as inspection reports, test records, calibration records, defect and complaint records, staff qualification records, and other similar records; and
 - (c) Other documents deemed necessary by the Society.
- (3) The Society may carry out factory inspection as part of an annual examination. In such case, it may be necessary to carry out tests in accordance with engineering evaluation requirements specified in the links listed in **Table 1.1** below for the respective item being covered.
- (4) The Society is to notify the applicant the results of the annual examination.

1.6 Changes in the Approved Materials, Constructions and Manufacturing Factory

1.6.1 Application of Change

The manufacturer is to submit an application "[Form-EU-MR-APP](#)" and related documents showing changed contents (the comparison of old and new contents is to be indicated as clearly as possible) and drawings, in triplicate, to the Society (Branch Office in charge). Tests and/or factory inspection may be required in case deemed necessary by the Society, depending on the contents of the change.

1.7 Confirmation Test

1.7.1 Testing

1 Approval tests and/or factory inspections are to be carried out whenever any of the following cases occurs:

- (1) when the tests specified in **1.6.1** above are carried out;
- (2) when questions arise regarding the construction, specifications or other aspects of the product from its use;
- (3) when questions arise on the level of quality assurance for manufacturing; or
- (4) when deemed necessary by the Society.

Tests are, in principle, to be carried out in the place of manufacture.

2 Content of the test and the inspection is to be decided for each case, depending on the purpose.

1.7.2 Submission of Certificate and Test Records

The manufacturer is to submit the last certificate and test records in triplicate to the Society (Branch Office in charge) after completion of approval tests and/or factory inspection as soon as possible.

1.7.3 Reissuance of the Certificate

The Society may, when satisfied with its examination of the approval tests and/or factory inspection of the manufacturing process, issue a certificate to replace the existing certificate, if necessary. In this case, the validity of the certificate is to remain unchanged, in principle.

1.8 Revocation of Certification

1.8.1 Notice of Revocation

When any of the following cases occurs, the Society is to notify the manufacturer of the revocation of Certification (through Branch Office in charge): In this case, the Society is to give notice of revocation including reasons therefor to all the other EU ROs.

- (1) when the results of annual examination or renewal examination for continued EU Mutually Recognized Type Approval are unsatisfactory;
- (2) when the item does not undergo the required annual examination specified in section **1.5** above, or
- (3) when a request of revocation is made by the manufacturer.

1.8.2 Return of Certificate

The manufacturer given notice of revocation specified in **1.8.1** is required to return the certificate for the relevant product as soon as possible.

1.9 Matters after EU Mutually Recognized Type Approval

1.9.1 Test for Each Product

- (1) The manufacturer is to prepare test records and carry out factory acceptance tests depending on the kind of product covered.
- (2) The manufacturer is to submit test records and documents related to the Approval as soon as possible, when requested by the Surveyor.

1.10 Marking

1.10.1 Marking

All EU Mutually Recognized Type Approved items are to be clearly marked with the following descriptions together with the mark indicating EU MR Type Approval in an appropriate manner, in principle:

- (1) Marking Requirements specified in the links listed in **Table 1.1** for each item
- (2) Name of manufacturer or alternative
- (3) Type number or code
- (4) Identification number

- (5) Year of manufacture
- (6) Particulars or ratings

1.11 Procedure of Transfer of Other RO Issued Mutual Recognition Type Approval Certificate

1.11.1 Applicable conditions

The transfer of an issued Mutual Recognition Type Approval Certificate from another EU RO is allowed only in the following cases.

- (1) The request for the transfer is made within the 5-year validity period of the Mutual Recognition Type Approval Certificate
- (2) The EU RO member which has issued the concerned EU Mutual Recognition Type Approval Certificate has been de-recognized from the EU RO Mutual Recognition Group.

1.11.2 Transfer Procedure

Manufacturer is to address a formal request in writing to the gaining EU RO and provide the following information:

- (1) Copy of EU Mutual Recognition Type Approval Certificate (all pages) issued by previous EU RO
- (2) Copy of EU MR Production Quality Assessment documents (all pages) issued by previous EU RO
- (3) Copy of EU MR Design Evaluation evidence with corresponding documentation
- (4) Copy of type tests reports endorsed by attending EU RO surveyor or issued by accredited laboratories
- (5) Quality management system certificate of compliance with ISO 9001 standard or industry equivalent
- (6) Copy of last audit report performed by previous EU RO
- (7) The organisation chart of the manufacturer
- (8) Information on changes foreseen in the organisation and / or production of the manufacturer, and/or product definition / specification, as relevant

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