

# **RULES FOR APPROVAL OF MANUFACTURERS AND SERVICE SUPPLIERS**

**Rules for Approval of Manufacturers and Service Suppliers  
2022 AMENDMENT NO.1**

Rule No.44      30 June 2022  
Resolved by Technical Committee on 26 January 2022

**ClassNK**  
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AMENDMENT TO THE RULES FOR APPROVAL OF MANUFACTURERS AND SERVICE SUPPLIERS

“Rules for approval of manufacturers and service suppliers” has been partly amended as follows:

**Part 1 GENERAL**

**Chapter 2 ASSESSMENT**

Section 2.3 have been amended as follows.

**2.3 Initial Assessments**

**1** In initial assessments, a manufacturing works or a service supplier will be assessed by the Society, based upon the results of a document examination and field examination as specified in the following:

~~2~~ Document examination

((1) is omitted.)

(2) For service suppliers intended to be approved under the Rules, one copy each of the following documents is to be submitted to the Society for examination to verify whether the quality system, etc. complies with the Rules.

((a) to (c) are omitted.)

(d) For categories of service suppliers that require ~~authorization~~ certification from manufacturers, manufacturer’s documentary evidence that the service supplier has been ~~authorized~~ certified or licensed to service the particular makes and models of equipment for which approval is sought are to be provided.

((e) to (m) are omitted.)

(n) Documentation verifying that operators, technicians, and inspectors engaged in the service being approved have acknowledged the code of conduct

~~(no)~~ Other documents deemed necessary by the Society

~~3~~ Field examinations

When the documents submitted for the Society review specified in ~~12~~ above are deemed satisfactory, a field examination is to be carried out according to the following (1) to (3):

(1) In the field examination, based on the documents that have been submitted and reviewed, the quality system, etc. of manufacturing works is investigated on site to confirm that the quality system, etc. is in conformity with the Rules.

(2) For manufacturing works to which **Chapter 4, Part 2** of the Rules applies, approval tests on the products intended to be approved are to be carried out with satisfactory results.

(3) Field examinations of service suppliers are to be as specified in the following (a) and (b):

(a) The supplier is to be assessed in order to ascertain that they are duly organised and managed in accordance with the submitted documents specified in ~~12~~ above; and

(b) It is to be verified that the supplier is capable of conducting the services for which approval/certification is sought.

## **Part 2 REQUIREMENTS FOR APPROVAL OF MANUFACTURERS**

### **Chapter 3 QUALITY SYSTEM REQUIREMENTS**

#### **3.2 Quality System Elements**

##### **3.2.7 Inspection and Testing Control**

Sub-paragraph -4(3) has been amended as follows.

#### **4 Inspection and testing required by the Rules of the Society**

- (1) In in-process and final inspection and testing of the products, all inspection and tests required by the Rules of the Society are to be included, and the inspection and testing methods as well as the evaluation criteria are subject to approval of the Society. The results of such inspection and tests are also to be confirmed by the Surveyors of the Society. On these occasions the Surveyors will be present at the inspection and tests considered necessary by the Society.
- (2) Necessary preparations are to be made for the inspection or tests as specified in **(1)** above, in case the Surveyor of the Society is present. On such an occasion, personnel who has full knowledge of the inspection or tests and can supervise these preparations is also to be present at the inspection or tests.
- (3) In cases where non-destructive ~~inspection~~ testing is required by the Rules of the Society, the operator is to have a qualification considered appropriate by the Society.

Paragraph 3.2.12 has been amended as follows.

##### **3.2.12 Training**

All personnel who are engaged in ~~the~~ activities which can affect quality of the products are to be properly trained. On such occasions, for persons~~nel~~ ~~who are~~ engaged in specific assigned tasks such as welding, non-destructive ~~inspection~~ testing, etc., special consideration is to be given to maintaining and improving their abilities through recognition of qualifications, etc.

# Part 3 REQUIREMENTS FOR APPROVAL OF SERVICE SUPPLIERS

## Chapter 1 GENERAL

### 1.1 General

Paragraph 1.1.1 has been amended as follows.

#### 1.1.1 Application

**1** This part applies to service suppliers listed as follows:  
(1) to (16) are omitted.)

(17) Firms engaged in Commissioning Testing of Ballast Water Management System (BWMS)

~~(17)~~ (18) Firms other than those listed in **(1)** to ~~**(16)**~~ **(17)** above

**2** Firms listed in ~~**-1(1)**~~ through ~~**(16)**~~ **(17)** are to comply with the requirements in this Part as well as the requirements in **Part 1**.

**3** Firms listed in ~~**-1(17)**~~ **(18)** are to comply with the requirements deemed appropriate by the Society as well as the requirements in **Part 1**.

**4** When S several servicing stations are owned by firms listed in ~~**-1(1)**~~ through ~~**(16)**~~ **(17)**, each station is to be assessed and approved, except as specified in **1.2.5-6** to ~~**-9**~~.

## **Chapter 11 FIRMS ENGAGED IN EXAMINATION OF THE BOW DOORS, STERN DOORS, SIDE DOORS AND INNER DOORS OF RO-RO SHIPS**

### **11.3 Operators and Supervisors**

#### **11.3.1 Qualifications**

Sub-paragraphs -1 and -2 have been amended as follows.

**1** Operators carrying out non-destructive ~~examinations~~ tests (~~NDET~~) are to be qualified to a recognised National or International Standard for the methods used.

**2** Supervisors carrying out ~~examinations~~ tests are to have the following competence and experience:

- (1) Supervisors ~~is~~ are to have had a minimum of two years of experience as operators/technicians/inspectors within the activity.
- (2) Supervisors ~~is~~ are to have a minimum two years related education from a technical school.

### **11.4 Equipment**

#### **11.4.1 Equipment**

Sub-paragraph -1(2) has been amended as follows.

**1** Suppliers engaged in the inspection of supporting securing and locking devices, as well as hinges and bearings are to possess the following equipment for use in said inspections:

- (1) Equipment for measuring clearances (i.e. feeler gauges, vernier calipers, micrometers).
- (2) Equipment for non-destructive ~~examination~~ tests (i.e. dye penetrant, magnetic particle inspection)

## **Chapter 16 FIRMS ENGAGED IN SURVEY USING REMOTE INSPECTION TECHNIQUES AS AN ALTERNATIVE MEANS FOR CLOSE-UP SURVEY OF THE STRUCTURE OF SHIPS AND MOBILE OFFSHORE UNITS**

### **16.3 Operators and Supervisors**

#### **16.3.1 Training Procedures**

Sub-paragraph (5) has been amended as follows.

The documented training procedures specified in **1.2.2** are to at least include information on ways to acquire knowledge about the following items:

((1) to (4) are omitted.)

- (5) Thickness measurements and non-destructive ~~examination~~ tests in accordance with a recognized National or International Industrial ~~NDET~~ Standard when these are part of the service.

Title of Chapter 17 has been amended as follows.

## **Chapter 17 FIRMS ENGAGED IN WATERTIGHT CABLE PENETRATION INSPECTION ON SHIPS AND MOBILE OFFSHORE UNITS**

### **17.1 General**

Paragraph 17.1.1 has been amended as follows.

#### **17.1.1 Application**

This chapter applies to firms engaged in the inspection of watertight cable penetrations (including penetrating cable types, dimensions, fill ration and insulation details, as applicable) on ships and mobile offshore units for compliance with the relevant approval certificates and product installation manuals made by manufacturers.

#### **17.1.2 Approval**

Sub-paragraph -2 has been amended as follows.

- 1** The procedures of this chapter apply equally to manufacturers or shipyards when they are acting as service suppliers.
- 2** Any service supplier engaged in the inspection of watertight cable penetrations is to be qualified in such inspections for each make and type of equipment for which they provide said service, and provide manufacturers with documentary evidence that they have been so authorised or certified in accordance with an established system for training and authorisation.
- 3** In cases where an equipment manufacturer is no longer in business or no longer provides technical support, service suppliers may be authorised for the equipment on the basis of prior authorisation for the equipment as well as their long-term experience and demonstrated expertise as an authorised service provider.

### **17.2 Quality Systems**

#### **17.2.1 Qualifications and Education, etc. for Personnel**

Sub-paragraph -2 has been amended as follows.

##### **1 Certification of personnel**

Personnel are to be trained and qualified in accordance with a recognised national, international or industry standard as applicable, or a manufacturer's established certification program. In either case, the certification program is to be based on the provisions of this chapter for each make and type of equipment for which service is to be provided.

##### **2 Education and training of personnel**

- (1) The education for initial certification of personnel is to be documented and address, as a minimum, the following **(a)** to **(d)**:
  - (a) procedures and instructions for the inspection of watertight cable penetrations;
  - (b) common problems found with the initial installation and in-service inspections of watertight cable penetrations;
  - (c) relevant rules and regulations, including international conventions; and

- (d) procedures for reporting on initial installation and in-service inspections of watertight cable penetrations in the watertight cable penetration register.
- (2) Education and training for personnel are to include practical technical training on actual inspection using the watertight cable penetrations for which the personnel are to be certified. The technical training is to include disassembly, reassembly and adjustment of the equipment. Classroom training is to be supplemented by field experience in the operations for which certification is necessary, under the supervision of an experienced senior certified person.
- 3** Initial certification and renewal of certification  
At the time of initial certification and at each renewal of certification, the supplier is to provide documentation to verify an individual's satisfactory completion of a competency assessment using the equipment for which the personnel are certified.
- 4** Training for renewal of certification  
The service supplier is to require refresher training as appropriate to renew the certification.

### **17.2.2 Requirements for firms**

Sub-paragraph -1(2) has been amended as follows.

- 1** The service supplier is to have access to the following **(1)** and **(2)**:
  - (1) manufacturer servicing manuals, servicing bulletins, instructions and training manuals as appropriate; and
  - (2) type approval certificates showing any conditions that may be appropriate during the installation or maintenance of the watertight cable penetration.
- 2** The service supplier is to have access to sufficient tools, in particular any specialized tools as needed, for work to be carried out on board ship.

### **17.3 Reporting**

Paragraph 17.3.1 has been amended as follows.

#### **17.3.1 Reporting**

On completion of inspection, the service supplier is to issue a report confirming the condition of the watertight cable penetration. In addition, the service supplier is to record the results of the inspection in the watertight cable penetration register.

Chapter 18 has been added as follows.

## **Chapter 18 FIRMS ENGAGED IN COMMISSIONING TESTING OF BALLAST WATER MANAGEMENT SYSTEM (BWMS)**

### **18.1 General**

#### **18.1.1 Application**

1 This chapter applies to firms engaged in the services specified in the following (1) and (2) during commissioning testing of ballast water management systems (hereinafter referred to as “BWMS”) for statutory purposes. Service suppliers are expected to be able to perform both the following services.

(1) Sampling and analysis of ballast water

(2) Verification of self-monitoring equipment

2 Attention is to be paid to complying with the applicable national regulations, if any.

#### **18.1.2 General Qualifications for Service Suppliers**

1 Service suppliers are to be familiar with BWMS operations (including features and limits of each treatment technology and self-monitoring parameters).

2 Service suppliers (including the laboratories conducting sample enumeration) are to be accredited to relevant standards such as ISO/IEC 17025 (as amended) or the equivalent, as applicable.

3 Service suppliers are (irrespective of 1.2.8-1) to be independent of BWMS manufacturers or suppliers (including shipyards).

4 Service suppliers may be required to present their confidential internal procedures for conducting the indicative testing to a Society surveyor.

5 Service suppliers are to have documents that prove the requirements for operators are satisfied in accordance with 18.3.1.

6 Commissioning testing of BWMS is to be performed by the operators qualified in accordance with 18.3.

### **18.2 Quality Systems**

#### **18.2.1 Work Procedures**

At least the items specified in the following (1) to (4) are to be included in work procedures in accordance with 1.2.4:

(1) procedures outlining how ballast water sampling and analysis is conducted with respect to each size class of organisms;

(2) procedures for assessment of BWMS correct operations;

(3) procedures for documenting and reporting BWMS correct operations; and

(4) operating procedures for equipment used for tests (including its calibration, adjustment and maintenance).

#### **18.2.2 Training Procedures**

At least the items specified in 18.3.1 are to be included in training procedures in accordance with 1.2.2.

### **18.2.3 Reference Documents**

Service suppliers are to have access to the documents listed in the following (1) to (8), as may be amended.

- (1) Res. MEPC.300(72)
- (2) Res. MEPC.173(58)
- (3) BWM.2/Circ.42/Rev.2
- (4) BWM.2/Circ.70/Rev.1
- (5) BWM.2/Circ.61
- (6) BWM.2/Circ.69
- (7) Res. MEPC.279(70)
- (8) Res. A.1120(30)

## **18.3 Operators**

### **18.3.1 Training and Qualifications**

1 Operators are to satisfy the following (1) to (3).

- (1) being able to demonstrate the knowledge in the use of different ballast water testing equipment for the purpose of assessing biological efficacy;
- (2) having documented evidence of sufficient engineering and biological knowledge to conduct the commissioning testing; and
- (3) having the knowledge of the documents referred to as **18.2.3(3)** and **(4)**.

2 In addition to -1 above, the operators who perform the analysis of ballast water as specified in **18.1.1(1)** are to satisfy the following (1) to (4):

- (1) be trained in the proper use of portable indicative analysis equipment (review of training records and/or interviews may be conducted to confirm the proper use of equipment during the testing);
- (2) be familiar with the design concepts of the sampling devices as per the document referred to as **18.2.3(2)** installed on the vessel's *BWMS* and well understanding the need for maintaining such sampling devices clean and free of contaminants and the importance of controlling the ballast water sample flow rates from them (to avoid organism mortality in the sample);
- (3) be familiar with the technologies utilized by the indicative sampling equipment and understanding water quality issues that are both conducive to successful use of the equipment and circumstances that could challenge the use of the equipment; and
- (4) be trained in the proper disposal procedures for water samples following the commissioning testing.

3 In addition to -1 above, the operators who perform the verification of self-monitoring parameters of the *BWMS* as specified in **18.1.1(2)** are to satisfy the following (1) to (3):

- (1) having the knowledge of *SDL* referred to in **2.1.1(21), Chapter 2, Part 1 of Rules for Ballast Water Management Installations**, self-monitoring parameters (such as flow rate, pressure, Total Residual Oxidants (*TRO*), *UV* intensity etc.) and how the *BWMS* notifies the operator in case it is operated outside its *SDL*. This knowledge is relevant for evaluating whether the self-monitoring equipment of the *BWMS* indicates correct operation of the *BWMS*;
- (2) in case the service suppliers are not present during ballasting operations, the service suppliers are to have knowledge of how to access the *BWMS* log to evaluate its proper operation during such operations; and
- (3) having a procedure and knowledge to assess the applicable self-monitoring parameters such as flow rate, pressure, Total Residual Oxidants (*TRO*), *UV* intensity etc) of the *BWMS*, taking into account its *SDL*.

## **18.4 Records and Reporting**

### **18.4.1 Records**

Service suppliers are to maintain a record of the following:

- (1) Operation of the *BWMS* during test period, including any recorded data or operator observations associated with the performance deviations, alarms or abnormal/unexpected operations; and
- (2) Applicable self-monitoring parameters

### **18.4.2 Reporting**

1 Service suppliers are to provide reports detailing the results of sampling and analysis of ballast water and assessment of self-monitoring parameters during commissioning testing.

2 Information and reference to the acceptance documents for the equipment used for the testing should be included in the report.

3 The format of the report is to be acceptable to Society and contain the following information as a minimum:

- (1) Manufacturer's name of the *BWMS*
- (2) Model name of the *BWMS*
- (3) *SDL* and the *BWMS* technology limiting operating conditions
- (4) Operation required (e.g., ballasting, de-ballast, circulation, one pass, in tank, etc)
- (5) Treatment rated capacity of the *BWMS* ( $m^3/h$ )
- (6) Relevant performance parameters (e.g. flow rate, pressure, Total Residual Oxidants (*TRO*), *UV* intensity, *UV* dose, or other relevant parameters)
- (7) Alarms developed during the testing
- (8) Installation location the *BWMS*
- (9) Type Approval issued by and Certificate No . of the *BWMS*
- (10) Installation date of the *BWMS*
- (11) Method used for the testing
- (12) Results of sample analysis (includes the record as specified in **18.4.1** and the raw data generated from the used testing equipment)
- (13) Flow rate of ballast pump and volume of ballast tanks, used for the testing
- (14) Comments/Notes (information on filter and other major components and process measurements etc.)

## EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 30 June 2022.