



**CCS Rule Change Notice For:**  
**RULES FOR CLASSIFICATION OF SEA-GOING STEEL**  
**SHIPS**

**Version: 2020. RCN No.1**  
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**Beijing**

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**PART ONE**

## **Brief Introduction**

1. Incorporation of URZ20 (Rev.2 May 2019), replacing "Recommendations" with "Conditions of Class", will be implemented from July 1, 2020.
2. The requirement of "single supplier approval" is introduced in the procedural requirements for service suppliers.

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### **CHAPTER 5 SURVEYS AFTER CONSTRUCTION**

Appendix 8 PROCEDURAL REQUIREMENTS FOR SERVICE SUPPLIERS

Appendix 16 GUIDELINES FOR SURVEY OF PLANNED MAINTENANCE SCHEME (PMS) FOR MACHINERY

## CHAPTER 5 SURVEYS AFTER CONSTRUCTION

### Appendix 8 PROCEDURAL REQUIREMENTS FOR SERVICE SUPPLIERS

#### 4. Application

4.2 Where the results of the following service providers are used by a Surveyor of CCS in making decisions affecting classification services then that service provider must be approved ([including single approval](#)) and verified by CCS.

- Firms engaged in thickness measurements on ships or mobile offshore units except:
  - (1) non-ESP ships less than 500 gross tonnage, and
  - (2) all fishing vessels.
- Firms carrying out in-water survey on ships and mobile offshore units by diver or Remotely Operated Vehicle (ROV).
- Firms engaged in tightness testing of closing appliances such as hatches, doors etc., with ultrasonic equipment.
- Firms engaged in survey using Remote Inspection Techniques (RIT) as an alternative means for Close-up Survey of the structure of ships and mobile offshore units.

### Appendix 16 GUIDELINES FOR SURVEY OF PLANNED MAINTENANCE SCHEME (PMS) FOR MACHINERY<sup>①</sup>

#### 3 Survey Requirements

##### 3.4 Damage and repair survey

3.4.3 In the case of overdue ~~outstanding recommendations~~ [conditions of class](#) or a record of unrepaired damage which would affect the PMS, the relevant items are to be kept out of the PMS, i.e. subject to the inspection by the Surveyor until such ~~outstanding recommendations~~ [conditions of class](#) are fulfilled.

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<sup>①</sup> [This revision is to be implemented on or after 1 July 2020.](#)

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**PART THREE**

## **Brief Introduction**

1、 The revised requirements of M52 Rev.2 were introduced. This revision is to be uniformly implemented on or after 1 January 2021.

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# CHAPTER 11 SHAFTING AND PROPELLERS

## Section 2 SHAFTING

### 11.2.5 Stern tubes and bearings<sup>①</sup>

11.2.5.1 The length of the bearing in the stern bush next to and supporting the propellers is to be as follows:

(1) For water lubricated bearings, the length of the bearing is not to be less than 4 times the rule calculated diameter for the screwshaft in way of the bearing. For water lubricated synthetic materials, if the design and materials of bearings comply with CCS provisions as demonstrated by tests, the length of the bearings may be appropriately reduced, but not less than 2 times the rule diameter of the shaft in way of the bearing. Synthetic materials of water lubricated stern tube bearings are to be type approved.

(2) For bearings which are white-metal lined and oil lubricated, the length of the bearing is not to be less than twice the rule calculated diameter for the screwshaft in way of the bearing. If the normal bearing pressure is less than 0.8 MPa as determined by static bearing reaction calculation taking into account shaft and propeller weight, the length of the bearings may be appropriately reduced. However, the minimum length is to be not less than 1.5 times the actual diameter.

(3) For bearings of synthetic rubber, reinforced resin or plastics materials which are approved for use as oil lubricated stern bush bearings, the length of the bearing is to be not less than twice the rule diameter of the shaft in way of the bearing. If the normal bearing pressure is less than 0.6 MPa as determined by static bearing reaction calculation taking into account shaft and propeller weight, the length of the bearings may be appropriately reduced. However, the minimum length is to be not less than 1.5 times the actual diameter. [Synthetic materials for application as oil lubricated stern tube bearings are to be Type Approved.](#)

Where the material has proven satisfactory testing and operating experience, consideration may be given to an increased bearing pressure.

[\(4\) The length of a grease lubricated bearing is to be not less than 4.0 times the rule diameter of the shaft in way of the bearing.](#)

~~(4)~~ (5) For bearings which are lined with other materials or lubricated by other methods, background for adopting its bearing length is to be provided, e.g. test results such as expansion characteristics and bearing capability of bearing material or service experience.

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<sup>①</sup> [These revised requirements are to be uniformly implemented on or after 1<sup>st</sup> July 2021.](#)