



RULES CHANGE NOTICE No.1

October 2022

Part 5 Offshore Technology

Volume I

RULES FOR CLASSIFICATION AND SURVEYS

Consolidated Edition 2022

Biro Klasifikasi Indonesia

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Foreword

This Rules Change Notices (RCN) No. 1 provide amendment to the Rules for Classification and Surveys (Pt.5, Vol.I) along with effective date from which these changes are applicable.

Amendments to the preceding edition are marked by strikethrough, red color, and expanded text. These new additions and amendments are to be read in conjunction with the requirements given in the 2022 Consolidated Edition of the Rules.

The summary of current amendments for each section including the implementation date are indicated in ***Table 1 - Amendments Incorporates in This Notice.***

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Any quires or comments concerning these Rules are welcomed through communication with BKI Head Office.

Rules Changes Notice No. 1 – October 2022

Table 1 – Amendments Incorporates in This Notice

These amendments will come into force as indicated in the Table

Paragraph	Title/Subject	Status/Remark
Section 1 – Classification		
<i>The amendments are effective from 1 January 2023</i>		
1.B	Definitions and Abbreviation	
1.B.1.27	Single Point Mooring (SPM)	To add a definition
1.B.1.28	Provisional Certificate	To add a definition
1.G	Classification Procedures	
1.G.2.1.1	Application for Existing SPM	Corrigenda
1.G.2.1.1.2.2.1	-	To add requirements related to extension of dry docking or bottom survey when using method 3) for admission to class.
1.G.2.1.1.2.4	-	To add new requirement related to discrepancies between the submitted documents and actual condition of the SPM are found during admission to class survey.
1.G.2.1.1.3	Condition for the issuance of Provisional Certificate of Class	Deleted and Corrigenda

Section 1 Classification

B. Definitions and Abbreviation

1. Definition

No	Item	Definition
27	Single Point Mooring (SPM)	A system which permits a vessel to weathervane while the vessel is moored to a fixed or floating structure anchored to the seabed by a rigid or an articulated structural system or by catenary spread mooring. Examples of such system are CALM, SALM, tower mooring, etc.
28	Provisional Certificate of Class	Provisional Certificate of Class is the certificate issued immediately upon completion of the survey of the unit/installation while the report of the classification surveys is processed by the BKI to issuing its full term Class Certificate.

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G. Classification Procedures

2. Classification of unit or installation after construction (in service)

2.1 Application for Floating Offshore Structures

Application for the Classification of units or installations or special equipment not constructed under the supervision of BKI or for readmission to Class are to be formally addressed to BKI's Head Office, using the form provided by BKI.

The application for Classification will be processed differently depending on whether the unit or installation is:

- classed with a QSCS Class Society, or
- not classed with a QSCS Class Society

For detail the requirements of units or installations classed with a QSCS Class Society or not classed with a QSCS Class Society can be seen in [Rules for Classification and Surveys \(Pt.1, Vol. I\), Section 2.D](#), as far as applicable.

2.1.1 Application for Existing **Single Point Mooring (SPM)**

.1 Documentation to be submitted

The following particulars and/or drawings are to be submitted:

- 1) Main plans:
 - General arrangement.
 - An arrangement plan of watertight compartment, including the location, type and disposition of watertight and weather tight closures.
 - Structural arrangement showing shell plating, framing, bulkheads, flats, main and bracing members, joint details as applicable.
 - Corrosion control arrangements.
 - Bilge, sounding and venting arrangements, (if applicable).
 - Turntable structure arrangements.
 - Electrical system one line diagrams.
 - Location of fire safety equipment, (if applicable).
 - Mooring arrangement.
 - Mooring components including anchor legs, associated hardware, hawser(s), and hawser load deflection characteristics.
 - Foundations for mooring components, industrial equipment, etc. showing attachments to hull structure.
 - Anchoring system showing the size of anchor, holding capacity of piles, pile sizes, and capacity, etc.
 - Pipe Line End Manifold (PLEM) as applicable.
 - SPM main bearing.
 - Cargo or product swivel including swivel driving mechanism, swivel bearings, and electrical swivel details.
 - Product or cargo system piping schematic drawing, (if applicable).

- Floating and under buoy hoses/flexible risers, (if applicable).
- Navigation aids.
- Plans for conducting underwater inspections in lieu of dry docking.

2) The required information as mentioned below are provided in documents submitted:

- Number of lines
- Type of line segments
- Dimensions
- Material specifications
- Weight in air and sea waters
- Line length from fairlead to anchor point of individual segments
- Characteristic strength
- Anchor pattern
- Anchor type
- Horizontal distance between fairleads and anchor point and/or initial pretensions
- Position of buoyancy elements, and net buoyancy
- Position of weight elements and weight in air and seawater
- Anchor design including anchor size weight and material specifications.
- Site Condition Data:
- Data on subjects including the following in accordance with [Rules for Single Point Mooring \(Pt.5, Vol.IX\), Sec. 3, A.](#)
 - Environmental conditions of wind, waves, current, marine growth, seiche, tide, visibility, temperature, and ice.
 - Water depth, at berth and throughout the manoeuvring area, bottom soil conditions, and sub-surface hazards.

3) Calculation:

In general, where applicable, the following calculations are to be submitted:

- Stability calculations in accordance with [Rules for Single Point Mooring \(Pt.5, Vol.IX\), Sec. 3, C.6](#)
- Mooring and anchorage in accordance with [Rules for Single Point Mooring \(Pt.5, Vol.IX\), Sec. 3, D](#)
 - Strength Analysis
 - Fatigue Analysis, if required

Calculations when submitted are to be footnoted indicating references.

4) Information Booklet and Maintenance

Alternative technical data may be accepted by BKI in lieu of specific items of the listed documentation not available at the time of the transfer of class. All document above are to be submitted in electronic format.

BKI reserves right to request additional information and particulars to be submitted.

.2 Class Entry Survey

.2.1 For SPM have Class with a QSCS Class Society.

A Class entry survey is to be carried out by BKI, the minimum extent of which is to be based on the age, type and the losing Society's class status of the installation.

.2.2 For SPM have not Class.

A Class entry survey is to be carried out by BKI, the minimum extent of which is to be based on the age and type of the installation. The scope of class entry survey is follows to the scope of Class Renewal Survey in accordance with [Rules for Single Point Mooring \(Pt.5, Vol. IX\), Sec. 5.B.4.](#)

.2.2.1 For admission class, all items for dry docking survey in [Rules for Single Point Mooring \(Pt.5, Vol. IX\), Sec. 5.B.2](#) should be examined by attending the Surveyor. The examination method for dry docking survey can be used one of the items below:

1) Dry docking

For SPM hull or buoy should be removed from installation to shipyard for examination.

2) Bottom Survey

For SPM hull or buoy should be removed from installation to examination out of water. Examination on barge may be accepted or equivalent method.

3) Underwater Survey

Underwater survey may be accepted for examination in site, with provided the following requirements are satisfied:

- The underwater inspection procedures are to be submitted for review by Surveyor prior to execution of the underwater survey.
- The maintenance procedures² are to be submitted for review by BKI HO prior to execution of the underwater survey.
- Divers carrying out the underwater inspection are to be suitably qualified.
- The condition of the SPM found during the underwater survey is to be acceptable.

If any item of SPM hull or buoy cannot be examined during underwater survey, the applicant should provide the local structure strength analysis in accordance with [Rules for Single Point Mooring \(Pt.5, Vol. IX\), Sec. 3, C.4.](#) The analysis should be submitted and approved by BKI HO.

Method 3) is applied only for extended the dry docking or bottom survey until ~~maximum of 1~~ **one** year in special circumstances where agreed to by BKI HO. **Dry docking or bottom survey may be extended for more than one year but not exceed five years on an individual case basis, if the following documents³ can be provided:**

- **Class certificate of dry docking from previous class or**
- **Previous supervision reports of dry docking where the examinations items are according to [Rules for Single Point Mooring \(Pt.5, Vol. VI\) Sec.5, B.2](#) and have been reviewed and accepted by BKI prior to performing underwater survey.**

.2.2.2 Material grade for mooring chains should be in accordance with [Rules for Materials \(Pt.1, Vol. V\), Sec. 13, C.](#) If the material grade from the actual condition is different with requirement of the Rules, then the minimum material grade of KI-K3 can be considered to be accepted if the calculation of strength and

² Maintenance Procedure should be including maintenance schedule of underwater part of SPM hull or buoy.

³ **Documents is dated not more than five years prior to admission to class.**

fatigue mooring analysis required in 2.1.1.1.3) has been reviewed and with satisfying BKI for current operation condition³⁴.

.2.3 BKI may request further examinations, tests and measurements, including but not limited to material testing, non-destructive testing, hydraulic and hydrostatic tests.

.2.4 If during admission to class survey discrepancies between the submitted documents and actual condition of the SPM are found, BKI will use actual conditions for reference. The documents are to be revised to reflect the actual conditions and resubmitted to BKI.

.3 Condition for the issuance of Provisional Certificate of Class

~~.3.1 Prior to issuing a Provisional Certificate of Class, BKI is to obtain a written request for classing the installation from the owner.~~

.3.1 BKI is not to issue a Provisional Certificate of Class or other documents for enabling the installation under its classification until:

- 1) until all required surveys as required in 2.1.1.2 have been completed;
- 2) until the appraisal of the plans listed in 2.1.1.1, as required by BKI to verify compliance with its applicable class Rules, has been carried out;

Where issues remain outstanding, BKI may impose a recommendation for a limited time period in accordance with Section 3, I.A.3.6.

.4 Certificate of Class

.4.1 Upon satisfactory review of the survey reports, BKI issues to the Owner the Certificate of Class valid for the whole period of class, provided that the conditions in 2.1.1.1 to 2.1.1.3 are met. The certificate indicates the class notations.

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³⁴ Only for SPM which operate in Indonesia Area