



# CIRCULAR

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To : All Surveyors and whom it may concern

No : 2017-4-E

Date : 2017.7.28

<b>Subject</b>	<b>9.102 Notice for Amendments to the KR Technical Rules (Rules and Guidance for Part 1)</b>
<b>Application</b>	<b>1 August 2017 (Date of which application for survey is submitted)</b>

1. Please be informed that the partial amendments have been made to the "Rules for the Classification of Steel Ships and Guidance Relating to the Rules for the Classification of Steel Ships, Pt.1, as below and you are kindly requested to apply the amendments on the relevant works.
2. Furthermore, please be informed that the amendments will be included in 2018 edition on KR Technical Rules which will be published in the first half of 2018.

= Below =

- 1) To reflect the revision of the Instruction for the Classification Survey, in the process of "Classification Survey of ships classed by other Societies"(TOC) for Passenger Ships and Fishing vessel, the procedure pertaining to "TOC" shall be applied. But survey items are to be in accordance with Classification Survey after Construction.
- 2) To reflect an item recommended by Ministry of Oceans and Fisheries during audit.
- 3) To establish qualification requirements for service supplier of vibration measurement due to the development of Guidance for Noise and Vibration.

Attachments: Amended Rules and Guidance for Part 1 --- 1 copy. (The End)

Kim Chang-wook

Executive Vice President, Technical Division

<Attachments>

# Amended Rules for the Classification of Steel Ships

## Part 1 Classification and Surveys



Present	Amendment
<p style="text-align: center;"><b>CHAPTER 1 CLASSIFICATION</b></p> <p style="text-align: center;"><b>Section 1 ~ Section 3 &lt;Omitted&gt;</b></p> <p style="text-align: center;"><b>Section 4 Classification Survey after Construction</b></p> <p><b>401. Classification Survey after Construction</b></p> <p>In the Classification Survey after Construction, the actual scantlings of main parts of the ship are to be measured in addition to such examinations of the construction, materials, workmanship and actual conditions of hull, machinery, outfittings and equipment as required for the Special Survey corresponding to the ship's age in order to ascertain that they meet the relevant requirements in the Rules. <b>[See Guidance]</b></p> <p><b>402. Submission of plans</b></p> <p>In the Classification Survey after Construction, plans and documents as may be required for Classification Survey during Construction are to be submitted. If plans cannot be obtained, facilities are to be given for the Surveyor to take the necessary informations from the ship. <b>[See Guidance]</b></p> <p><b>403. Classification Survey of ships classed by other Societies</b></p> <p><u>When a ship holding class with any Society which is subject to verification of compliance with QSCS(Quality System Certification Scheme) of IACS is intended for classification, plans and documents to be submitted and survey items, etc. are to be in accordance with the Guidance relating to the Rules. <b>[See Guidance]</b></u></p> <p>&lt;Omitted&gt;</p>	<p style="text-align: center;"><b>CHAPTER 1 CLASSIFICATION</b></p> <p style="text-align: center;"><b>Section 1 ~ Section 3 &lt;Omitted&gt;</b></p> <p style="text-align: center;"><b>Section 4 Classification Survey after Construction</b></p> <p><b>401. Classification Survey after Construction</b></p> <p>In the Classification Survey after Construction, the actual scantlings of main parts of the ship are to be measured in addition to such examinations of the construction, materials, workmanship and actual conditions of hull, machinery, outfittings and equipment as required for the Special Survey corresponding to the ship's age in order to ascertain that they meet the relevant requirements in the Rules. <b>[See Guidance]</b></p> <p><b>402. Submission of plans</b></p> <p>In the Classification Survey after Construction, plans and documents as may be required for Classification Survey during Construction are to be submitted. If plans cannot be obtained, facilities are to be given for the Surveyor to take the necessary informations from the ship. <b>[See Guidance]</b></p> <p><b>403. Classification Survey of ships classed by other Societies or <a href="#">TOC(Transfer of Classification) (2017)</a></b></p> <p>When a ship holding class with any Society which is subject to verification of compliance with QSCS(Quality System Certification Scheme) of IACS is intended for classification, plans and documents to be submitted and survey items, etc. are to be in accordance with the Guidance relating to the Rules. <u>In case of Passenger Ships and Fishing Vessels, the procedures pertaining to "TOC" shall be applied. But survey items are to be in accordance with 401. Classification Survey after Construction.</u></p> <p><b>[See Guidance]</b> &lt;hereinafter the same as current Guidelines&gt;</p>

# Amended Guidance for the Classification of Steel Ships

## Part 1 Classification and Surveys



Present	Amendment
<p style="text-align: center;"><b>CHAPTER 1 CLASSIFICATION</b></p> <p style="text-align: center;"><b>Section 1 ~ Section 3 &lt;Omitted&gt;</b></p> <p style="text-align: center;"><b>Section 4 Classification Survey after Construction</b></p> <p><b>401. Classification Survey after Construction</b></p> <p>1. ~ 2. &lt;omitted&gt;</p> <p>3. In application to <b>401.</b> of the Rules, "as required for the Special Survey" means to carry out the relevant survey of Special Survey including thickness measurements, Docking Survey, Surveys of Propeller Shaft and Stern Tube Shaft, Etc., Boiler Survey of which is to be based on the age and type of the vessel.</p> <p>4. The Society may request further examinations, tests and measurements, including but not limited to material testing, non-destructive testing, hydraulic and hydrostatic tests and sea trial.</p> <p>5. Where the vessel has, during any portion of the five years prior to the request for classification being received, been previously classed by:</p> <p>(1) the Society, or</p> <p>(2) a Society subject to verification of compliance with QSCS(Quality System Certification Scheme) of IACS at the time it classed the vessel</p> <p>then survey requirements may be specially considered but are not to be less than those required by <b>403.</b> of the Guidance.</p> <p>&lt;added&gt;</p> <p>&lt;omitted&gt;</p>	<p style="text-align: center;"><b>CHAPTER 1 CLASSIFICATION</b></p> <p style="text-align: center;"><b>Section 1 ~ Section 3 &lt;Omitted&gt;</b></p> <p style="text-align: center;"><b>Section 4 Classification Survey after Construction</b></p> <p><b>401. Classification Survey after Construction</b></p> <p>1. ~ 2. &lt;the same as current Guidelines&gt;</p> <p>3. In application to <b>401.</b> of the Rules, "as required for the Special Survey" means to carry out the relevant survey of Special Survey including thickness measurements, Docking Survey, Surveys of Propeller Shaft and Stern Tube Shaft, Etc., Boiler Survey of which is to be based on the age and type of the vessel.</p> <p>4. The Society may request further examinations, tests and measurements, including but not limited to material testing, non-destructive testing, hydraulic and hydrostatic tests and sea trial.</p> <p>5. Where the vessel has, during any portion of the five years prior to the request for classification being received, been previously classed by:</p> <p>(1) the Society, or</p> <p>(2) a Society subject to verification of compliance with QSCS(Quality System Certification Scheme) of IACS at the time it classed the vessel</p> <p>then survey requirements may be specially considered but are not to be less than those required by <b>403.</b> of the Guidance.</p> <p><u><a href="#">6. In the case of Passenger Ships and Fishing Vessels that are transferred from other IACS, the survey items apply above Paragraph 1, 2, 3 and 4 only. (2017)</a></u></p> <p>&lt;hereinafter the same as current Guidelines&gt;</p>

Present	Amendment
<p><b>403. Classification Survey of ships classed by other classes</b></p> <p>&lt;omitted&gt;</p> <p><b>4. Classification Survey</b></p> <p>&lt;omitted&gt;</p> <p>(1) When a ship is classed by the Society as a results of transfer of class</p> <p>(A) Notwithstanding the records indicating that all surveys are up-to-date, a Classification Survey is to be held as minimum technical requirements by the Society, the extent of which is to be based on the age of the vessel and the losing Society's class status as follows: However, the Society is to request, if necessary, more strict surveys than the following requirements according to the condition of ship.</p> <p>(a) Hull Classification Survey</p> <p>&lt;omitted&gt;</p> <p>(viii) In the context of applying (iv) and (v) above, if a dry-docking of the vessel is not due at the time of Classification Survey of ships classed by other classes, consideration can be given to carrying out an underwater examination in lieu of dry-docking. But, for fishing vessels with Korean flag, which exceed 20 years of age, and 100 gross tonnage, docking survey is to be carried out in lieu of In-water Survey. (2016)</p> <p>&lt;omitted&gt;</p>	<p><b>403. Classification Survey of ships classed by other classes <u>or TOC(Transfer of Classification) (2017)</u></b></p> <p>&lt;omitted&gt;</p> <p><b>4. Classification Survey</b></p> <p>&lt;omitted&gt;</p> <p>(1) When a ship is classed by the Society as a results of transfer of class</p> <p>(A) Notwithstanding the records indicating that all surveys are up-to-date, a Classification Survey is to be held as minimum technical requirements by the Society, the extent of which is to be based on the age of the vessel and the losing Society's class status as follows: However, the Society is to request, if necessary, more strict surveys than the following requirements according to the condition of ship.</p> <p>(a) Hull Classification Survey</p> <p>&lt;hereinafter the same as current Guidelines&gt;</p> <p>(viii) In the context of applying (iv) and (v) above, if a dry-docking of the vessel is not due at the time of Classification Survey of ships classed by other classes, consideration can be given to carrying out an underwater examination in lieu of dry-docking. <u>(2017) But, for fishing vessels with Korean flag, which exceed 20 years of age, and 100 gross tonnage, docking survey is to be carried out in lieu of In-water Survey. (2016)</u></p> <p>&lt;hereinafter the same as current Guidelines&gt;</p>

Present	Amendment
<p style="text-align: center;"><b>CHAPTER 2 PERIODICAL AND OTHER SURVEYS</b></p> <p style="text-align: center;"><b>Section 18 Special Requirements for Ships Subject to Korean Ship Safety Act or Fishing Vessels Act</b></p> <p><b>1801. Special requirements for ships subject to Korean Ship Safety Act (2017)</b></p> <ol style="list-style-type: none"> <li>1. In application to <b>301.</b>(Due range of Intermediate Survey) <b>3</b> and <b>401.</b>(Due range of Special Survey) <b>4</b> and <b>5</b> of the Rules, ships specified in <b>1801. 3</b> of the Rules are not to be applied.</li> <li>2. In application to <b>303.</b>(Machinery, electrical installations and additional installations of Intermediate Survey) <b>3</b> and <b>502.</b>(Requirement of Special Survey(Machinery, electrical installations and additional installations)) <b>2</b>, the due date of examinations/overhauling survey for internal combustion engines, which are installed on ships engaged on domestic voyage only, is to be in accordance with the relevant requirements of <i>Korean Ship Safety Act</i>.</li> <li>3. The Docking Survey for ships operating in the inland waters only is able to be substituted by In-water Survey except when the Docking Survey is to be carried out in conjunction with the Special Survey, but not 3 times continuously in case of passenger ships.</li> <li>4. In application to <b>1801. 2</b> of the Rules, the measurement record is to give names and signatures of operators including <a href="#">name of the company</a>, measurement equipment, listing of electrical installations being measured, readings, checking of the effectiveness of measurement equipment(calibration records, etc.) and signature of the chief engineer, etc. (2017)</li> <li>5. &lt;omitted&gt; ↓</li> </ol>	<p style="text-align: center;"><b>CHAPTER 2 PERIODICAL AND OTHER SURVEYS</b></p> <p style="text-align: center;"><b>Section 18 Special Requirements for Ships Subject to Korean Ship Safety Act or Fishing Vessels Act</b></p> <p><b>1801. Special requirements for ships subject to Korean Ship Safety Act (2017)</b></p> <ol style="list-style-type: none"> <li>1. In application to <b>301.</b>(Due range of Intermediate Survey) <b>3</b> and <b>401.</b>(Due range of Special Survey) <b>4</b> and <b>5</b> of the Rules, ships specified in <b>1801. 3</b> of the Rules are not to be applied.</li> <li>2. In application to <b>303.</b>(Machinery, electrical installations and additional installations of Intermediate Survey) <b>3</b> and <b>502.</b>(Requirement of Special Survey(Machinery, electrical installations and additional installations)) <b>2</b>, the due date of examinations/overhauling survey for internal combustion engines, which are installed on ships engaged on domestic voyage only, is to be in accordance with the relevant requirements of <i>Korean Ship Safety Act</i>.</li> <li>3. The Docking Survey for ships operating in the inland waters only is able to be substituted by In-water Survey except when the Docking Survey is to be carried out in conjunction with the Special Survey, but not 3 times continuously in case of passenger ships.</li> <li>4. In application to <b>1801. 2</b> of the Rules, the measurement record is to give names and signatures of operators including <a href="#">name and stamp of the company</a>, measurement equipment, listing of electrical installations being measured, readings, checking of the effectiveness of measurement equipment(calibration records, etc.) and signature of the chief engineer, etc. (2017)</li> <li>5. &lt;same as the present Guidance&gt; ↓</li> </ol>

Current	Amendment
<p style="text-align: center;"><b>Annex 1-11 Procedural Requirements for Service Suppliers</b></p> <p>1. ~ 3. &lt;omitted&gt;</p> <p><b>4. Application</b></p> <p>(1) This procedure applies to the approval of the following categories of service suppliers:  (A) ~ (F) &lt;Omitted&gt;  (G) Other service firms  &lt;hereinafter the same as current Guidance&gt;</p> <p><b>Appendix 1-11-1 Special Requirements for Various Categories of Service Supplier</b></p> <p>1. ~ 6. &lt;omitted&gt;</p> <p><b>7. Other service firms</b></p> <p>Where the supplier providing the service other than <b>Par 1</b> through <b>Par 6</b> wishes to obtain approval of the Society, other specified requirements are to be applied.</p> <p>&lt;omitted&gt;</p>	<p style="text-align: center;"><b>Annex 1-11 Procedural Requirements for Service Suppliers</b></p> <p>1. ~ 3. &lt;omitted&gt;</p> <p><b>4. Application</b></p> <p>(1) This <a href="#">procedure</a> applies to the approval of <a href="#">service suppliers of the following categories: (2017)</a>  (A) ~ (F) &lt;Same as current Guidelines&gt;  (G) <a href="#">Firms engaged in vibration measurement in relation to habitability of ship (2017)</a>  (H) Other service firms  &lt;hereinafter the same as current Guidelines&gt;</p> <p><b>Appendix 1-11-1 Special Requirements <a href="#">by Each Service Supplier of Various Categories (2017)</a></b></p> <p>1. ~ 6. &lt;the same as current Guidelines&gt;</p> <p><b><a href="#">7. Firms engaged in vibration measurement in relation to habitability of ship (2017)</a></b></p> <p><a href="#">7.1 Extent of engagement</a>  <a href="#">Vibration measurement related to habitability of a Ship</a></p> <p><a href="#">7.2 Supervisor</a></p> <p><a href="#">7.2.1 The responsible supervisor shall be qualified in accordance with general requirements for a supplier and shall;</a>  (1) <a href="#">be certified by a recognized national or international NDT standards (e.g. Level II of ISO 9712 as amended, EN 473 as amended or equivalent standards); or</a>  (2) <a href="#">have supervising experiences for at least one year and performing experiences for at least two years of vibration measurements onboard.</a></p>



Current	Amendment
	<p><u>7.2.2 The responsible supervisor shall have sufficient knowledge of ship structure and equipment, measurement, and analysis of vibration in accordance with ISO 20283-5 to verify that test procedures are compliant with the required test conditions.</u></p> <p><u>7.3 Operator</u></p> <p><u>7.3.1 The operator shall;</u></p> <p><u>(1) be certified by a recognized national or international NDT standards(e.g. Level I of ISO 9712 as amended, EN 473 as amended or equivalent standards); or</u></p> <p><u>(2) have at least one year of experience (including participation in minimum five different vibration measurements) as an assistant to perform the measurement.</u></p> <p><u>7.3.2 The operator shall have sufficient knowledge in the field of vibration, vibration measurement and handling of measurement equipment.</u></p> <p><u>7.3.3 The operator shall have adequate knowledge of ship structures and equipment.</u></p> <p><u>7.4 Reference documents</u></p> <p><u>The supplier shall have access to the following reference documents:</u></p> <p><u>(1) <b>ISO 20283-5;2016</b> (Mechanical vibration - Measurement of vibration on ships - Part 5 : Guidelines for measurement, evaluation and reporting of vibration with respect to habitability on passenger and merchant ships)</u></p> <p><u>(2) <b>KR-GC-21-E</b>(Guidance for noise and vibration)</u></p> <p><u>7.5 Equipment</u></p> <p><u>7.5.1 The equipment to be used shall be verified in accordance with the applicable measurement standards. It shall be demonstrated to the Surveyor that it is fit for the intended purpose.</u></p> <p><u>7.5.2 Vibration measurement related to habitability of ship shall be taken by using a proper instrument to ISO 8041 as amended.</u></p> <p><u>7.5.3 Portable calibrator shall comply with national or international standards.</u></p> <p><u>7.5.4 Calibration of vibration transducers and portable calibrators shall be conducted at least every two years(or more frequently if specified by manufacturer) at an accredited Testing and Calibration Laboratory in accordance with ISO 17025 as amended.</u></p>

Present	Amendment
	<p><u>7.6 Procedures and Guidelines</u></p> <p><u>The supplier shall have the documented work procedures and testing guidelines containing at least the following;</u></p> <ol style="list-style-type: none"> <li><u>(1) Test preparation</u></li> <li><u>(2) Selection and identification of measurement location</u></li> <li><u>(3) Surface preparation</u></li> <li><u>(4) Calibration check</u></li> <li><u>(5) Test method</u></li> <li><u>(6) Equipment handling</u></li> <li><u>(7) Report preparation and content</u></li> <li><u>(8) Method for handling previous results if subsequent calibration shows instruments to be out of tolerance.</u></li> </ol> <p><u>7.7 Report</u></p> <p><u>The report shall contain the following but not limited to;</u></p> <ol style="list-style-type: none"> <li><u>(1) Type of ship, gross tonnage and dimensions</u></li> <li><u>(2) Operating condition of main engine, shaft speed(rpm) and setting of controllable pitch propeller</u></li> <li><u>(3) Operating condition of auxiliary engine and auxiliary machinery</u></li> <li><u>(4) Loading condition of ship(mean draft and trim)</u></li> <li><u>(5) Test location, draft, water depth, weather and sea state</u></li> <li><u>(6) Measuring instruments(Type and manufacturer etc.)</u></li> <li><u>(7) Names and affiliation of the persons carrying out the measurement</u></li> <li><u>(8) Measurement spaces and locations</u></li> <li><u>(9) Measurement result</u></li> <li><u>(10) Measuring direction at each measuring location (x, y, z direction)</u></li> </ol> <p><b>8. Other service firms (2017)</b></p> <p>Where the supplier providing the service other than <b>Par 1</b> through <b>Par 7</b> wishes to obtain the approval of the Society, other specified requirements are to be applied.</p> <p>&lt;hereinafter the same as current Guidelines&gt;</p>