GUIDE FOR
VESSELS INTENDED TO CARRY COMPRESSED
NATURAL GASES IN BULK
APRIL 2005

Note: The Chapter/Section headings and references in the “Paragraph” column relate to the printed 2005 CNG Guide. Changes to Chapter 1 references noted in the “Comments” column are due to the publication of the consolidated ABS Rules for Conditions of Classification (Part 1), which resulted in the Sections of Chapter 1 of the CNG Guide being renumbered (for example, Section 3 is now Section 2). See Notice No. 4.

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<thead>
<tr>
<th>Page No.</th>
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<tbody>
<tr>
<td>v</td>
<td>TOC</td>
<td>Add new note below Chapter 1, as follows, “[See also separately published booklet ABS Rules for Conditions of Classification (Part 1)]”</td>
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<table>
<thead>
<tr>
<th>Chapter 1</th>
<th>Scope and Conditions of Classification</th>
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<tr>
<td>3</td>
<td>Foreword</td>
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<tr>
<td></td>
<td>Add new second paragraph, as follows, Thus, Chapter 1 of this Guide specifies only the unique requirements applicable to vessels intended to carry compressed natural gases in bulk. These supplemental requirements are always to be used with the aforementioned Rules for Conditions of Classification (Part 1).”</td>
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<thead>
<tr>
<th>Chapter Section 1</th>
<th>Scope and Conditions of Classification Classification Symbols and Notations</th>
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<tr>
<td>11</td>
<td>1-3/1 (now 1-2/1)</td>
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<tr>
<td></td>
<td>In first paragraph, reference “1-1-3/3 of the ABS Rules for Building and Classing Steel Vessels (Steel Vessel Rules)” to read “1-1-3/3 of the ABS Rules for Conditions of Classification (Part 1)”</td>
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<tr>
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<tr>
<td>17</td>
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<td></td>
<td>In first paragraph, reference “Section 1-1-7 of the Steel Vessel Rules” to read “Section 1-1-7 of the ABS Rules for Conditions of Classification (Part 1)”</td>
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<tr>
<td>18</td>
<td>1-6/xxix) (now 1-4/xxix)</td>
</tr>
<tr>
<td></td>
<td>Reference “Chapter 3, Section 2 of the ABS Guide for Building and Classing Facilities on Offshore Installations” to read “Chapter 3, Section 2 of the ABS Rules for Building and Classing Facilities on Offshore Installations”</td>
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<tr>
<td>19</td>
<td>1-6/xxi (now 1-4/xxi)</td>
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<td>Add Item xxii “Cargo Containment Survey Plan (see 17-2/1)”</td>
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<tr>
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</table>
| 59 | 2-2/2.3 | Reference “2-2/3” to read “Chapter 2, Section 4”.
| 5 | (Notice 2) | 3-A1/Table 1 | In second-to-last row (Distance to unprotected openings or margin line from WL, if applicable), acceptable tolerance to read “±5%/5 cm max”.
| 5 | (Notice 2) | 3-A1/Table 1 | Delete “2” from Notes, to read as follows:

"Notes:"

1. Deviation in % = [(base value – applicant’s value)/base value] × 100.

where the “base value” may be from the approved stability information or the results of master computer using an independent program.”
| 90 | 4-1/4 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 101 | 4-6/3 thru 6 | Renumber second instance of Subsection 4-6/3 as 4-6/4 and subsequent Subsections accordingly.
| 106 | 4-8/9 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 109 | 4-10 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 111 | 4-11 | In last line, “Bureau” to read “ABS”.

**Corrigenda/Editorials – 1 March 2018**

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| Chapter 6 Section 1 | Process Pressure Vessels and Liquid, Vapor and Pressure Piping Systems General | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 169 | 6-1/1 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 169 | 6-1/2 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 169 | 6-1/3 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| Chapter 6 Section 2 | Process Pressure Vessels and Liquid, Vapor and Pressure Piping Cargo and Process Piping | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 171 | 6-2/1 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| Chapter 6 Section 6 | Process Pressure Vessels and Liquid, Vapor and Pressure Piping Ship’s Cargo Hoses | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 181 | 6-6/2 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| Chapter 9 Section 1 | Cargo Tank, Cargo Handling, Cargo Process and Piping Overprotection and Vent System General | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 217 | 9-1/1 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| Chapter 9 Section 2 | Cargo Tank, CARGO Handling, Cargo Process and Piping Overprotection and Vent System Pressure relief Systems | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| Chapter 9 Section 4 | Cargo Tank, CARGO Handling, Cargo Process and Piping Overprotection and Vent System Size of Valves | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| Chapter 11 Section 1 | Electrical Installations General | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 239 | 11-1 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| Chapter 12 Section 1 | Fire Protection And Fire Extinction Fire Safety Requirements | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 245 | 12-1/2 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.

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<tr>
<td>Chapter 13</td>
<td>Section</td>
<td>1</td>
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</table>
| 259 | 13-1 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 261 | 13-1/9.3 | Reference “1-1-A3/5.3 of the ABS Rules for Building and Classing Steel Vessels” to read “1-1-A3/5.3 of the ABS Rules for Conditions of Classification (Part 1)”.

| Chapter 14 | Section | 1 | Instrumentation (Gauging, Gas Detection and Cargo Handling Controls) | General |
| 267 | 14-1 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.

| Chapter 15 | Section | 1 | Use of Cargo as Fuel | General |
| 283 | 15-1 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.
| 283 | 15-1/4 | Reference “ABS Guide for Propulsion Systems for LNG Carriers” to read “applicable sections of Part 5C, Chapter 8 of the Steel Vessel Rules”.

| Chapter 17 | Section | 1 | Surveys | Surveys During Construction, Installation and Commissioning |
| 303 | 17-1/1 | Delete “The documentation requirements for review are given in 3-1/3 of this Guide.”.
| 305 | 17-1/2.3.1(g) | Reference “ABS Guide for Shipbuilding and Repair Quality Standard for Hull Structures During Construction” to read “IACS Recommendation No. 47”.
| 305 | 17-1/2.4 | Renumber Subparagraph 3.7.2 as Subparagraph 2.4.2.
| 307 | 17-1/2.10.1 | Reference “ABS Guide for Building and Classing Facilities on Offshore Installations” to read “ABS Rules for Building and Classing Facilities on Offshore Installations”.

| Chapter 17 | Section | 2 | Surveys | Surveys After Construction and Maintenance of Class |
| 2 (Notice 7) | 17-2/1 | Delete second paragraph:
“The requirements of the ABS Rules for Survey After Construction (Part 7) are intended to define the general scope of required surveys. Because of the varied design concept for CNG carriers, it is not considered practicable to establish a firm schedule of requirements. The periodical surveys are to be carried out in accordance with the reviewed inspection plan to confirm the fitness of the CNG carrier for continued operation. The Inspection Plan should cover all surveys for the life of the CNG carrier.”
Add new Subsection 17-2/2:

## 2 Surveys After Construction

The requirements for Survey after Construction in this Guide refer to the following applicable Chapters of the independent booklet, *ABS Rules for Survey After Construction (Part 7)*:

- **CHAPTER 1** Conditions for Survey After Construction
- **CHAPTER 2** Survey Intervals
- **CHAPTER 3** Hull Surveys
- **CHAPTER 4** Drydocking Surveys
- **CHAPTER 5** Tailshaft Surveys
- **CHAPTER 6** Machinery Surveys
- **CHAPTER 7** Boiler Surveys
- **CHAPTER 8** Shipboard Automatic and Remote-control Systems
- **CHAPTER 9** Survey Requirements for Additional Systems and Services

**APPENDIX**


Reference “17-2/3.3.1iv)” to read “17-2/3.3.1iv)”.

Reference “ABS *Facilities Guide” to read “ABS *Facilities Rules”.

Reference “the ABS *Guide for the Class Notation Tailshaft Condition Monitoring (TCM)” to read “4-3-2/13 of the *Steel Vessel Rules”.

Reference “the ABS *Guide for the Class Notation Tailshaft Condition Monitoring (TCM)” to read “4-3-2/13 of the *Steel Vessel Rules”.

Reference “Chapter 3, Section 2” to read “17-2/1.3).”