

GENERAL INFORMATION FOR THE RULES AND REGULATIONS FOR THE CLASSIFICATION OF SHIPS

JULY 2007

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General Information

1. The 2007 edition of the Rules and Regulations for the Classification of Ships is a complete reprint of the 2006 edition, consisting of 7 books.

Part 1	Regulations
	Rules for the Manufacture, Testing and Certification of Materials
Part 3	Ship Structures (General)
Part 4	Ship Structures (Ship Types)
Part 5	Main and Auxiliary Machinery
Part 6	Control, Electrical, Refrigeration and Fire
Part 7	Other Ship Types and Systems

2. A decimal notation system has been adopted throughout. Five sets of digits cover the divisions, i.e. Part, Chapter, Section, sub-Section and paragraph. The textual cross-referencing within the text is as follows, although the right hand digits may be added or omitted depending on the degree of precision required:
 - (a) In same Chapter, e.g. see 2.1.3 (i.e. down to paragraph).
 - (b) In same Part but different Chapter, e.g. see Ch 3,2.1 (i.e. down to sub-Section).
 - (c) In another Part, e.g. see Pt 2, Ch 1,3 (i.e. down to Section).

The cross-referencing for Figures and Tables is as follows:

 - (a) In same Chapter, e.g. as shown in Fig. 2.3.5 (i.e. Chapter, Section and Figure Number).
 - (b) In same Part but different Chapter, e.g. as shown in Fig. 2.3.5 in Chapter 2.
 - (c) In another Part, e.g. see Table 2.7.1 in Pt 3, Ch 2.

3. The primary changes from the 2006 edition of the Rules are identified in the Contents. The effective date of the indicated changes is 1 July 2007.

4. Until the next edition of the Rules and Regulations for the Classification of Ships is published, Rule change Notices and/or Corrigenda, as necessary, will be published on the LR Webstore — www.lr.org/Industries/Marine/Standards/Rules/ – and will be available for downloading free of charge. It is not intended at this time to publish hard copies of future Rule Notices to Existing Rules.

5. In this publication, a shortened version of the Notices has been reproduced listing all the paragraphs that have been altered since the last edition of the Rules. It is followed by a comprehensive Notice – summary of changes list of all books in the set, showing all the titles down to Section level.

Notice – Summary of Changes

Summary of Changes from the 2006 Rules

Effective Date 1 April 2006

<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
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Part 1

1	7	7.1(b)	General Regulations	Paragraph amended	1
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Part 4

7	1	1.1.1	General	Paragraph amended	1
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Effective Date 1 July 2006

<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
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Part 1

2	2	2.3.13	Character of classification and class notations	New paragraph added	3
2	2	2.3.13	Character of classification and class notations	Paragraph renumbered and text added	3
2	2	2.3.13 to 2.3.17	Character of classification and class notations	Paragraphs renumbered	3
2	3	3.5.14	Surveys – General	Paragraph amended	1
2	3	3.11.1	Surveys – General	New sub-Section added	1
3	1	1.5.1	General	Paragraph amended	1
3	1	1.5.2	General	Text added	1
3	1	1.5.3 & 1.5.4	General	Paragraphs amended	1
3	1	1.5.5	General	New paragraph added	1
3	1	1.5.5	General	Paragraph renumbered and amended	1
3	1	1.5.6	General	Paragraph renumbered	1
3	1	1.5.7	General	Paragraph renumbered and text added	1
3	1	1.5.8 to 1.5.11	General	Paragraphs renumbered	1
3	1	1.5.12 & 1.5.13	General	Paragraphs renumbered and amended	1
3	1	1.5.14	General	Paragraph renumbered	1
3	1	1.5.15	General	Paragraph renumbered and amended	1
3	1	1.5.16 to 1.5.19	General	Paragraphs renumbered	1
3	1	1.5.21 to 1.5.23	General	New paragraphs added	1
3	1	1.6.7 & 1.6.8	General	New paragraphs added	1
3	1	1.7.2	General	Paragraph amended	1
3	1	1.8.1 & 1.8.2	General	Paragraphs amended	1
3	2	2.2.1(a) & (b)	Annual Surveys – Hull and machinery requirements	Paragraph amended	1
3	2	2.2.2	Annual Surveys – Hull and machinery requirements	Paragraph rewritten	1
3	2	2.2.21	Annual Surveys – Hull and machinery requirements	Paragraph amended	1
3	2	2.2.22(p)	Annual Surveys – Hull and machinery requirements	Paragraph amended	1
3	2	2.2.23(u) & (v)	Annual Surveys – Hull and machinery requirements	Paragraph amended	1
3	2	2.2.26(b)	Annual Surveys – Hull and machinery requirements	Text added	1
3	2	2.2.27(e)	Annual Surveys – Hull and machinery requirements	Text added	1
3	3	3.2.2	Intermediate Surveys – Hull and machinery requirements	Paragraph amended	1

Notice – Summary of Changes

<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Part 1 (cont'd)					
3	3	3.2.4 to 3.2.6	Intermediate Surveys – Hull and machinery requirements	Paragraphs amended	1
3	3	3.2.11	Intermediate Surveys – Hull and machinery requirements	Paragraph deleted	1
3	3	3.2.12	Intermediate Surveys – Hull and machinery requirements	Paragraph renumbered and amended	1
3	3	3.2.13	Intermediate Surveys – Hull and machinery requirements	Paragraph renumbered	1
3	3	3.2.14	Intermediate Surveys – Hull and machinery requirements	Paragraph deleted	1
3	3	3.2.15 to 3.2.18	Intermediate Surveys – Hull and machinery requirements	Paragraph renumbered and amended	1
3	3	3.2.19	Intermediate Surveys – Hull and machinery requirements	Paragraph renumbered	1
3	3	3.2.20	Intermediate Surveys – Hull and machinery requirements	Paragraph renumbered and text added	1
3	3	3.2.21	Intermediate Surveys – Hull and machinery requirements	Paragraph renumbered and amended	1
3	3	3.2.22 & 3.2.23	Intermediate Surveys – Hull and machinery requirements	Paragraphs renumbered	1
3	3	Table 3.3.1	Intermediate Surveys – Hull and machinery requirements	Table amended	1
3	5	5.1.1	Special Survey – General – Hull requirements	Paragraph amended	1
3	5	5.1.5	Special Survey – General – Hull requirements	Text added	1
3	5	5.3.3	Special Survey – General – Hull requirements	Paragraph amended	1
3	5	5.3.4 & 5.3.5	Special Survey – General – Hull requirements	Paragraphs amended	1
3	5	5.3.11	Special Survey – General – Hull requirements	Paragraph amended	1
3	5	5.3.17	Special Survey – General v Hull requirements	Text added	1
3	5	5.3.20	Special Survey – General – Hull requirements	New paragraph added	1
3	5	5.4.4	Special Survey – General – Hull requirements	Paragraph amended	1
3	5	5.5.2	Special Survey – General – Hull requirements	Text added	1
3	5	5.6.1	Special Survey – General – Hull requirements	Text added	1
3	5	5.6.3	Special Survey – General – Hull requirements	Text added	1
3	5	Table 3.5.4	Special Survey – General – Hull requirements	Table amended	1
3	6	6.2.1(b)(vi)	Special Survey – Bulk Carriers – Hull requirements	Paragraph amended	1
3	6	6.3.1	Special Survey – Bulk Carriers – Hull requirements	Paragraph deleted	1
3	6	6.3.2	Special Survey – Bulk Carriers – Hull requirements	Paragraph renumbered and amended	1
3	6	6.6.2	Special Survey – Bulk Carriers – Hull requirements	New paragraph added	1
3	6	6.6.2	Special Survey – Bulk Carriers – Hull requirements	Paragraph renumbered	1
3	6	6.7.2	Special Survey – Bulk Carriers – Hull requirements	Text added	1
3	6	Tables 3.6.1 & 3.6.2	Special Survey – Bulk Carriers – Hull requirements	Tables amended	1

Notice – Summary of Changes

<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Part 1 (cont'd)					
3	7	7.2.1(b)(vi)	Special Survey – Oil Tankers (including ore/oil ships and ore/ bulk/oil ships) – Hull requirements	Paragraph amended	1
3	7	7.3.1	Special Survey – Oil Tankers (including ore/oil ships and ore/ bulk/oil ships) – Hull requirements	Paragraph deleted	1
3	7	7.3.2	Special Survey – Oil Tankers (including ore/oil ships and ore/ bulk/oil ships) – Hull requirements	Paragraph renumbered and amended	1
3	7	7.4.5	Special Survey – Oil Tankers (including ore/oil ships and ore/ bulk/oil ships) – Hull requirements	Paragraph deleted	1
3	7	7.4.6 to 7.4.9	Special Survey – Oil Tankers (including ore/oil ships and ore/ bulk/oil ships) – Hull requirements	Paragraphs renumbered	1
3	7	Table 3.7.1	Special Survey – Oil Tankers (including ore/oil ships and ore/ bulk/oil ships) – Hull requirements	Table amended	1
3	7	Table 3.7.6	Special Survey – Oil Tankers (including ore/oil ships and ore/ bulk/oil ships) – Hull requirements	Table amended	1
3	8	8.2.1(b)(vi)	Special Survey – Chemical tankers – Hull requirements	Paragraph amended	1
3	8	8.3.1	Special Survey – Chemical tankers – Hull requirements	Paragraph deleted	1
3	8	8.3.2	Special Survey – Chemical tankers – Hull requirements	Paragraph renumbered and amended	1
3	8	8.5.1	Special Survey – Chemical tankers – Hull requirements	Paragraph amended	1
3	8	8.7.2	Special Survey – Chemical tankers – Hull requirements	Paragraph amended	1
3	8	Table 3.8.1	Special Survey – Chemical tankers – Hull requirements	Table deleted	1
3	8	Table 3.8.2	Special Survey – Chemical tankers – Hull requirements	Table renumbered	1
3	8	Table 3.8.3	Special Survey – Chemical tankers – Hull requirements	Table renumbered & amended	1
3	8	Tables 3.8.4 to 3.8.7	Special Survey – Chemical tankers – Hull requirements	Tables renumbered	1
3	9	Table 3.9.2	Ships for liquefied gases	Table amended	1
3	17	17.4.4	Screwshafts, tube shafts and propellers	Paragraph amended	6
<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Part 3					
1	1	1.2.2	Rule application	New paragraph added	3
1	8	8.3.3(a)	Inspection, workmanship and testing procedures	Text added	3
1	8	Table 1.8.1	Inspection, workmanship and testing procedures	Table amended	3
2	1	1.1.3	Materials of construction	New paragraph added	3
2	2	Table 2.2.1	Fracture control	Table amended	3
3	1	1.1.3	General	New paragraph added	3
3	5	5.2.2	Design loading	Text added	3
3	5	Table 3.5.1	Design loading	Table amended	3
4	3	3.2.2	Application	New paragraph added	3
4	5	5.3.3(b) & (c)	Hull bending strength	Text added	3
4	5	5.4	Hull bending strength	Sub-Section deleted	3
4	5	5.5 to 5.10	Hull bending strength	Sub-Sections renumbered	3

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Part 3 (cont'd)					
4	8	8.2.5	Loading guidance information	Text added	3
4	8	8.2.6	Loading guidance information	Paragraph deleted	3
4	8	8.2.7 and 8.2.8	Loading guidance information	Paragraphs renumbered	3
4	8	8.3.4	Loading guidance information	Paragraph deleted	3
4	8	8.3.5 to 8.3.11	Loading guidance information	Paragraphs renumbered	3
5	1	1.1.4	General	New paragraph added	3
5	1	1.3.2	General	Text added	3
5	1	1.3.4	General	Text added	3
5	1	1.5.8(c)	General	Text added	3
5	2	2.1.1	Desk structure	Text added	3
5	2	Table 5.2.3	Desk structure	Table amended	3
5	3	3.1.1	Shell envelope plating	Text added	3
5	4	4.1.1	Shell envelope framing	Text added	3
5	5	5.2.2	Single and double bottom structure	Text added	3
5	5	5.3.1	Single and double bottom structure	Text added	3
6	1	1.1.4	General	New paragraph added	3
6	1	1.3.2 to 1.3.4	General	Text added	3
6	2	Table 6.2.3	Deck structure	Table amended	3
6	4	4.3.3	Shell envelope framing	Text added	3
7	1	1.1.3	General	New paragraph added	3
7	1	1.3.3	General	Text added	3
7	2	2.12	Deck Structure	Text added	3
8	1	1.1.5	General	New paragraph added	3
8	5	Table 8.5.1	Bulkwards, guard rails and other means for the protection of crew	Table amended	3
9	9	9.3	Lifting appliances and support arrangements	New sub-Section added	3
9	9	9.3	Lifting appliances and support arrangements	Sub-Section renumbered	3
9	9	9.2.3 and 9.2.4	Lifting appliances and support arrangements	Paragraphs renumbered	3
9	12	12.1.5	Strengthening for regular discharge by heavy grabs	New paragraph added	3
10	1	1.1.3	General	New paragraph added	3
10	2	Table 10.2.1	Welding	Table amended	3
10	5	5.2.13	Structural details	Text added	3
10	5	Table 10.5.1	Structural details	Table amended	3
10	5	Fig. 10.5.2	Structural details	Figure title amended	3
10	5	Table 10.5.2	Structural details	Table amended	3
10	5	Table 10.5.3	Structural details	Table amended	3
11	1	1.1.1	General	Text added	3
11	8	8.6.1	Side and stern doors and other shell openings	Text added	1
13	1	1.1.2	General	New paragraph added	3
13	7	Table 13.7.1	Equipment	Table amended	3
16	1	1.1.1	General	Paragraph amended	3
16	2	2.1.2(a)	Structural design assessment	Text added	3
16	3	3.1.1	Fatigue design assessment	Text added	3
16	4	4.1.2	Construction monitoring	New paragraph added	3
<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Part 4					
1	6	6.2.1	Shell envelope framing	Text added	3
7	1	1.4.4	General	New paragraph added	3
7	1	1.4.4	General	Paragraph renumbered	3

Notice – Summary of Changes

Effective Date 1 January 2007

<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Part 1					
3	1	1.6.5	General	Text added	4
3	1	1.6.6 & 1.6.7	General	New paragraphs added	4
3	1	1.6.6	General	Paragraph renumbered and amended	4
3	1	1.6.7 & 1.6.8	General	Paragraphs renumbered	4
3	1	1.6.10	General	Paragraph amended	6
3	1	1.6.11	General	New paragraph added	6
3	1	1.7.3	General	New paragraph added	6
3	1	1.7.3 to 1.7.8	General	Paragraphs renumbered	6
3	1	1.7.9	General	Paragraph renumbered and text added	6
3	1	1.7.10	General	Paragraph renumbered	6
3	2	2.2.25	Annual Surveys – Hull and machinery requirements	Text added	4
3	6	6.3.2	Special Survey – Bulk Carriers – Hull requirements	New paragraph added	6
3	6	6.4.8 & 6.4.9	Special Survey – Bulk Carriers – Hull requirements	New paragraphs added	4
3	7	7.3.2	Special Survey – Oil Tankers (including ore/oil ships and ore/bulk/oil ships) – Hull requirements	New paragraph added	6
3	8	8.3.2	Special Survey – Chemical tankers – Hull requirements	Paragraph rewritten	6
3	8	Table 3.8.1	Special Survey – Chemical tankers – Hull requirements	Table added	7
3	8	8.5.1	Special Survey – Chemical tankers – Hull requirements	Paragraph amended	7
3	8	8.7.2	Special Survey – Chemical tankers – Hull requirements	Reference amended	7
3	8	Tables 3.8.1 to 3.8.6	Special Survey – Chemical tankers – Hull requirements	Tables renumbered	7
3	9	9.1.3	Ships for liquefied gases	Paragraph amended	7
3	9	9.2.1	Ships for liquefied gases	Paragraph added	7
3	9	9.2.1	Ships for liquefied gases	Paragraph renumbered	7
3	9	9.2.2	Ships for liquefied gases	Paragraph renumbered and amended	7
3	9	9.2.3	Ships for liquefied gases	Paragraph renumbered	7
3	9	9.2.4	Ships for liquefied gases	Paragraph deleted	7
3	9	9.2.5	Ships for liquefied gases	Paragraph amended	7
3	9	9.2.6 & 9.2.7	Ships for liquefied gases	Paragraphs deleted	7
3	9	9.2.8	Ships for liquefied gases	Paragraph renumbered	7
3	9	9.2.9	Ships for liquefied gases	Paragraph renumbered and amended	7
3	9	9.2.10	Ships for liquefied gases	Paragraph renumbered	7
3	9	9.2.9 to 9.2.15	Ships for liquefied gases	Paragraphs added	7
3	9	9.3.1	Ships for liquefied gases	Paragraph amended	7
3	9	9.5.1	Ships for liquefied gases	Paragraph deleted	7
3	9	9.5.2 to 9.5.4	Ships for liquefied gases	Paragraphs renumbered	7
3	9	9.6.1	Ships for liquefied gases	Paragraph added	7
3	9	9.6.1 to 9.6.2	Ships for liquefied gases	Paragraphs renumbered and amended	7
3	9	9.7.2	Ships for liquefied gases	References amended	7
3	9	9.7.3	Ships for liquefied gases	Text added	7
3	9	9.7.4	Ships for liquefied gases	Paragraph amended	7
3	9	9.7.6	Ships for liquefied gases	Paragraph amended	7
3	9	9.7.8	Ships for liquefied gases	Reference amended	7
3	9	9.7.10	Ships for liquefied gases	Paragraph amended	7
3	9	9.10.5	Ships for liquefied gases	References amended	7
3	9	9.11	Ships for liquefied gases	Sub-Section added	7
3	9	9.11 & 9.12	Ships for liquefied gases	Sub-Sections renumbered	7
3	9	9.13	Ships for liquefied gases	Text added	7
3	9	9.2.8	Ships for liquefied gases	Paragraph renumbered	7
3	15	15.1.1	Boilers	Paragraph amended	4
3	15	15.1.2 & 15.1.3	Boilers	New paragraphs added	4

Notice – Summary of Changes

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Part 1 (cont'd)					
3	15	15.2.1	Boilers	Paragraph amended	4
3	15	15.2.2	Boilers	New paragraph added	4
3	15	15.2.2 to 15.2.4	Boilers	Paragraphs renumbered	4
3	15	15.2.5	Boilers	Paragraph renumbered and amended	4
<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Rules for Materials					
2	1	1.1.1	General requirements for testing	New paragraph added	5
2	1	1.1.1 to 1.1.4	General requirements for testing	Paragraphs renumbered	5
5	2	2.4.6	Forgings for ship and other structural applications	Paragraph amended	4
5	2	Table 5.2.1	Forgings for ship and other structural applications	Table amended	4
<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Part 3					
1	5	5.2.1 & 5.2.2	Information required	Text added	5
1	5	5.3.8	Information required	New paragraph added	5
9	6	6.1.5	Strengthening requirements for navigation in ice - Application of requirements	New paragraph added	5
9	6	6.1.5 & 6.1.6	Strengthening requirements for navigation in ice - Application of requirements	Paragraphs renumbered	5
9	9	Whole Section	Strengthening requirements for navigation in very light first-year ice conditions	New Section added	5
9	9 to 12	—	—	Sections renumbered	5
13	2	Table 13.2.4	Rudders	Table amended	4
13	7	7.5.6	Equipment	Paragraph amended	5
13	7	7.8	Equipment	Title amended	5
13	7	7.8.6	Equipment	Text added	5
13	7	7.10	Equipment	New sub-Section added	5
13	7	Table 13.7.3	Equipment	Table amended	5
13	7	Fig. 13.7.3	Equipment	Figure added	5
13	7	Tables 13.7.8 & 13.7.9	Equipment	Tables added	5
<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Part 4					
2	11	11.3	Miscellaneous openings	Title amended	5
2	11	11.3.2	Miscellaneous openings	Paragraph amended	5
2	11	Table 2.11.2	Miscellaneous openings	Table amended	5
7	14	14.1.2	Forecastles	Text added	4
9	1	1.2.21 & 1.2.22	General	New paragraphs added	5
9	1	1.4.3 & 1.4.4	General	Paragraphs amended	7
9	1	1.5.1	General	Text added	5

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<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
Part 5					
2	4	4.1.1	Construction and welded structures	Paragraph amended	2
2	6	6.1.4 to 6.1.7	Crankcase safety fitting	New paragraphs added	2
2	6	6.9	Crankcase safety fitting	New sub-Section added	2
2	13	Whole Section	Type testing procedure for crankcase explosion relief valves	New Section added	2
2	13	Whole Section	Electronically controlled engines	Existing Section renumbered	2
2	14	Whole Section	Type testing procedure for crankcase oil mist detection/ monitoring and alarm arrangements	New Section added	2
2	14	Whole Section	Alarms and safeguards for emergency diesel engine monitoring and alarm arrangements	Section renumbered	2
9	1	1.1.3	General	New paragraph added	5
9	1	1.1.3	General	Paragraph renumbered	5
9	3	-	Ice Class 1D and 1E	Title amended	5
9	3	3.1.1 & 3.1.2	Ice Class 1D and 1E	Text added	5
12	5	Table 12.5.3	Plastic pipes	Table amended	7
15	2	2.4.2 & 2.4.3	Piping systems for bilge, ballast, oil fuel, etc.	New paragraphs added	5
15	2	2.4.2 & 2.4.3	Piping systems for bilge, ballast, oil fuel, etc.	Paragraphs renumbered	5
15	2	2.6	Piping systems for bilge, ballast, oil fuel, etc.	New sub-Section added	5
17	7	7.3.4	Non-Destructive Examination	Paragraph amended	6
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Part 6					
2	13	13.1.1	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Paragraph amended	5
2	13	13.1.2	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Paragraph rewritten	5
2	13	13.2.2	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Text added	5
2	13	13.9.1	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Paragraph rewritten	5
2	13	13.9.2 to 13.9.14	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Paragraphs deleted	5
2	13	13.12.4	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Paragraph amended	5
2	13	13.13.1	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Paragraph amended	5
2	13	13.13.3	Electrical equipment for use in	New paragraph added	5
2	13	13.13.3 to 13.13.6	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Paragraphs renumbered	5

Notice – Summary of Changes

Effective Date 1 July 2007

<i>Ch</i>	<i>Section</i>	<i>Para</i>	<i>Section Title</i>	<i>Status</i>	<i>Notice</i>
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Part 1

3	1	1.5.15	General	Text added to the end	6
3	2	2.2.33	Annual Surveys – Hull and machinery requirements	New paragraph added	7
3	5	5.4.6	Special Survey – General – Hull requirements	New paragraph added	7
3	6	Table 3.6.1	Special Survey – Bulk Carriers – Hull requirements	Table amended	6
3	20	20.2.10	Refrigerated cargo instalations	Text added to end of paragraph	5

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Rules for Materials

10	1	1.7	Anchors	New sub-Section added	5
10	1	1.7 to 1.12	Anchors	Sub-Sections renumbered	5

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Part 3

1	5	5.2.2	Information required	Text added	5
3	5	Fig. 3.5.2	Design loading	Figure amended	5
4	5	5.3.5	Hull bending strength	Paragraph amended	7
4	5	Fig. 4.5.1	Hull bending strength	Figure added	7
4	5	5.3.7	Hull bending strength	Paragraph added	7
10	2	2.13.7 to 2.13.9	Welding	Paragraphs amended	5
11	9	9.2.1	Watertight doors in bulkheads below the freeboard deck	Paragraph amended	5
13	2	Table 13.2.6	Rudders	Table amended	5
13	7	7.3.1 to 7.3.5	Equipment	Paragraphs deleted	5
13	7	7.3.6	Equipment	Paragraph renumbered	5
13	7	7.7.4	Equipment	New paragraph added	5

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Part 4

1	9	Table 1.9.1	Bulkheads	Table amended	5
2	4	4.2.2	Shell envelope plating	New paragraph added	5
2	5	5.2.2	Shell envelope framing	Paragraph amended	5
2	5	5.2.3 & 5.2.4	Shell envelope framing	New paragraphs added	5
2	5	5.2.3	Shell envelope framing	Paragraph renumbered and text added	5
2	5	5.2.4 to 5.2.6	Shell envelope framing	Paragraphs renumbered	5
2	5	5.2.7	Shell envelope framing	Paragraph renumbered and amended	5
2	5	5.2.8	Shell envelope framing	Paragraph renumbered	5
2	7	Title	Peak, watertight and deep tank bulkheads	Title amended	5
2	7	7.1.2 & 7.1.3	Peak, watertight and deep tank bulkheads	New paragraphs added	5

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Part 5					
1	3	3.4.1	Operating conditions	New paragraph added	5
1	3	3.4.1 to 3.4.3	Operating conditions	Paragraphs renumbered	5
1	3	3.10	Operating conditions	New sub-Section added	5
1	4	4.4.2	Machinery room arrangements	Paragraph added	7
2	8	8.1.5	Starting arrangements and air compressors	New paragraph added	5
2	8	8.4.6	Starting arrangements and air compressors	New paragraph added	5
2	17	—	General requirements	New Section added	5
2	18	—	Program for trials of diesel engines to assess operational capability	New Section added	5
3	3	3.8.1	Design and construction	New paragraph added	5
3	3	3.8.1	Design and construction	Paragraph renumbered	5
3	3	3.8.3 to 3.8.6	Design and construction	New paragraphs added	5
4	4	4.10	Design and construction	New sub-Section added	5
6	3	3.12.1(c)	Design	Paragraph added	5
6	3	3.12.1(c) to (e)	Design	Paragraphs renumbered	5
6	3	3.12.3 & 3.12.4	Design	New paragraphs added	5
6	3	3.12.3 to 3.12.9	Design	Paragraphs renumbered	5
8	5	5.4.2	Shaft alignment	Paragraph amended	5
10	1	1.6.3 to 1.6.6	General requirements	New paragraphs added	7
10	1	1.12	General requirements	New sub-Section added	7
10	14	14.4.9	Construction	New paragraph added	5
12	2	2.8.1	Carbon and low alloy steels	Reference added	5
13	1	1.3.1	General requirements	Paragraph amended	7
14	3	3.1.1	Oil fuel burning arrangements	Paragraph amended	7
14	3	3.1.2 & 3.1.3	Oil fuel burning arrangements	Paragraphs deleted	7
14	3	3.1.2	Oil fuel burning arrangements	New paragraph added	7
14	3	3.1.4	Oil fuel burning arrangements	Paragraph renumbered	7
14	3	3.1.4 to 3.1.11	Oil fuel burning arrangements	New paragraphs added	7
14	3	3.7	Oil fuel burning arrangements	Sub-Section deleted	7
14	3	3.8 to 3.13	Oil fuel burning arrangements	Sub-Sections renumbered	7
15	1	Table 15.1.1	General requirements	Table amended	5
15	1	1.6.4	General requirements	Reference added	5
15	1	1.6.6	General requirements	New paragraph added	5
22	1	1.1.2	General requirements	Text added	5
22	1	1.1.3	General requirements	New paragraph added	5
22	1	1.1.3 to 1.1.5	General requirements	Paragraphs renumbered	5
22	2	2.1.1	Failure Mode and Effects Analysis (FMEA)	Text added	5
22	3	3.1.1	Machinery arrangements	Text added	5
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Part 6					
1	1	1.1.8	General requirements	New paragraph added	5
1	1	1.2.3	General requirements	Item added	5
1	2	2.5.8	Essential features for control, alarm and safety systems	Paragraph amended	5
1	2	2.8.1	Essential features for control, alarm and safety systems	Paragraph amended	5
1	2	2.9	Essential features for control, alarm and safety systems	New sub-Section added	5
1	2	2.9 to 2.12	Essential features for control, alarm and safety systems	Sub-Sections renumbered	5
1	2	2.9	Essential features for control, alarm and safety systems	Title renumbered	5
1	2	2.9.7	Essential features for control, alarm and safety systems	Paragraph renumbered and amended	5

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Part 6 (cont'd)					
1	2	2.9.18 & 2.9.19	Essential features for control, alarm and safety systems	Paragraphs renumbered and amended	5
1	3	3.5.1	Control and supervision of unattended machinery	Reference amended	7
1	3	3.5.3	Control and supervision of unattended machinery	New paragraph added	7
1	3	3.5.3	Control and supervision of unattended machinery	Paragraph renumbered and text added	7
1	3	3.5.4	Control and supervision of unattended machinery	Paragraph renumbered	7
1	3	3.5.6 to 3.5.9	Control and supervision of unattended machinery	New paragraphs added	7
1	3	Table 1.3.4	Control and supervision of unattended machinery	Table amended	7
1	3	3.6.1	Control and supervision of unattended machinery	Reference amended	7
1	3	3.6.2	Control and supervision of unattended machinery	Text added	7
1	3	3.6.4 to 3.6.8	Control and supervision of unattended machinery	New paragraphs added	7
1	3	Table 1.3.5	Control and supervision of unattended machinery	Table amended	7
1	3	Table 1.3.8	Control and supervision of unattended machinery	Table amended	5
1	3	Table 1.3.12	Control and supervision of unattended machinery	Table amended	5
1	3	3.15.6	Control and supervision of unattended machinery	Paragraph amended	5
2	1	1.2.8	General requirements	Paragraph amended	5
2	1	1.3.2	General requirements	Text added	5
2	1	1.5.11	General requirements	Paragraph amended	5
2	1	1.5.12 to 1.5.14	General requirements	New paragraphs added	5
2	1	1.7.4	General requirements	Text added	5
2	1	1.14.1	General requirements	Text added	5
2	1	1.15.1	General requirements	Paragraph amended	5
2	2	2.3.2	Main source of electrical power	Paragraph amended	5
2	3	3.2.12	Emergency source of electrical power	Paragraph amended	5
2	3	3.3.12	Emergency source of electrical power	Paragraph amended	5
2	6	6.1.6	System design – Protection	Paragraph amended	5
2	7	7.11.4	Switchgear and control gear assemblies	Paragraph amended	5
2	9	9.2.18	Converter equipment	Paragraph amended	5
2	9	9.3	Converter equipment	New sub-Section added	5
2	10	10.5.1	Electric cables and busbar trunking systems (busways)	Paragraph amended	5
2	10	10.5.3	Electric cables and busbar trunking systems (busways)	Paragraph amended	5
2	10	10.8.8	Electric cables and busbar trunking systems (busways)	Paragraph amended	5
2	11	11.3.10	Batteries	New paragraph added	5
2	11	11.7	Batteries	Sub-Section deleted	5
2	11	11.8	Batteries	Existing sub-Section renumbered	5
2	16	16.1.4	Fire safety systems	Paragraph amended	5
2	16	16.1.15	Fire safety systems	Text added	5
2	16	16.2.2	Fire safety systems	Text added	5
2	16	16.3	Fire safety systems	New sub-Section added	5
2	16	16.3 to 16.8	Fire safety systems	Sub-Sections renumbered	5
2	16	16.5	Fire safety systems	Sub-Section renumbered and amended	5
2	16	16.5.2 & 16.5.3	Fire safety systems	Paragraphs renumbered and amended	5

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Part 6 (cont'd)					
2	16	16.5.4	Fire safety systems	Paragraph renumbered	5
2	16	16.5.5 & 16.5.6	Fire safety systems	Paragraphs renumbered and amended	5
2	17	17.4.2	Crew and passenger emergency safety systems	Text added	5
2	18	18.2.1 & 18.2.2	Ship safety systems	Paragraphs renumbered	5
2	18	18.2.3 to 18.2.11	Ship safety systems	Paragraphs renumbered	5
3	1	1.6.1	General requirements	Text added	5
3	1	1.10	General requirements	Title amended	5
3	1	1.10.2	General requirements	New paragraph added	5
3	1	2.5.6 & 2.5.7	General requirements	New paragraphs added	5
3	2	Table 3.2.1	Design criteria	Table amended	5
3	2	Table 3.2.2	Design criteria	Table amended	5
3	3	3.2	Refrigerating machinery and refrigerant storage compartments	Title amended	5
3	3	3.2.1	Refrigerating machinery and refrigerant storage compartments	Paragraph amended	5
3	3	3.2.3	Refrigerating machinery and refrigerant storage compartments	Paragraph amended	5
3	3	3.2.4 to 3.2.7	Refrigerating machinery and refrigerant storage compartments	Paragraphs deleted	5
3	3	3.2.5 & 3.2.6	Refrigerating machinery and refrigerant storage compartments	New paragraphs added	5
3	3	3.2.8 & 3.2.9	Refrigerating machinery and refrigerant storage compartments	Paragraphs renumbered and amended	5
3	3	3.2.10	Refrigerating machinery and refrigerant storage compartments	Paragraph renumbered	5
3	3	3.2.11	Refrigerating machinery and refrigerant storage compartments	Paragraph renumbered and amended	5
3	3	3.3.3	Refrigerating machinery and refrigerant storage compartments	New paragraph added	5
3	3	3.3.3 to 3.3.6	Refrigerating machinery and refrigerant storage compartments	Paragraphs renumbered	5
3	3	3.4	Refrigerating machinery and refrigerant storage compartments	New sub-Section added	5
3	4	4.1.10	Refrigeration plant, pipes, valves and fittings	New paragraph added	5
3	4	4.11.2	Refrigeration plant, pipes, valves and fittings	Paragraph amended	5
3	4	4.11.6	Refrigeration plant, pipes, valves and fittings	Paragraph amended	5
3	4	4.15.3	Refrigeration plant, pipes, valves and fittings	Text added	5
3	4	4.15.7	Refrigeration plant, pipes, valves and fittings	Paragraph amended	5
3	4	4.15.10	Refrigeration plant, pipes, valves and fittings	Text added	5
3	4	4.15.17	Refrigeration plant, pipes, valves and fittings	Paragraph amended	5
3	4	4.15.18	Refrigeration plant, pipes, valves and fittings	Text added	5
3	4	4.15.22 to 4.15.24	Refrigeration plant, pipes, valves and fittings	New paragraphs added	5
3	4	4.16.2	Refrigeration plant, pipes, valves and fittings	Paragraph amended	5
3	5	5.1.5 & 5.1.6	Refrigerant detection systems	New paragraphs added	5
3	5	5.2.1	Refrigerant detection systems	Paragraph amended	5
3	5	5.2.3 & 5.2.4	Refrigerant detection systems	Paragraphs amended	5
3	5	5.2.5 & 5.2.6	Refrigerant detection systems	Paragraphs rewritten	5
3	8	8.1.4	Personnel safety equipment and systems	Paragraph amended	5
3	9	9.2.2	Refrigerated cargo spaces	Paragraph rewritten	5

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Part 7					
4	2	2.3.10	Class notation DP (CM)	Paragraph amended	5
9	1	1.2.1	General requirements	Item added	5
9	2	2.2.9 to 2.2.12	Physical conditions	New paragraphs added	5
9	2	2.4.2	Physical conditions	Text added	5
9	3	3.1.4	Workstations	Paragraph amended	5
9	3	3.1.7	Workstations	Paragraph amended	5
9	3	3.1.9	Workstations	New paragraph added	5
9	3	3.1.9 to 3.1.13	Workstations	Paragraphs renumbered	5
9	3	3.1.14	Workstations	Paragraph deleted	5
9	5	5.3.2	Integrated Bridge Navigation System – IBS notation	Paragraph amended	5
9	5	5.3.13	Integrated Bridge Navigation System – IBS notation	Paragraph amended	5
12	1	1.2.1	General	Text added	5
12	2	2.2.1 & 2.2.2	Centralized fire-control station	Text added	5
12	3	3.1.5(c)	Control and monitoring of active fire protection and fixed fire-extinguishing systems	Text added	5
12	3	3.3.2	Control and monitoring of active fire protection and fixed fire-extinguishing systems	Paragraph amended	5
14	-	-	Passenger and Crew Accommodation Comfort	New Chapter added	5

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Part 1					
2	Contents		Character of classification and class notations	Title amended	7
2	2	2.1.8(a)	Character of classification and class notations	Reference amended	3
2	2	2.5	Character of classification and class notations	Title amended	7
2	2	2.5.3	Character of classification and class notations	Paragraph amended	7
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Rules for Materials					
4	5	5.1.4	Castings for propellers	Table number amended	1
14	5	Table 14.5.5	Control of material quality for composite construction	Table amended	4
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Part 3					
1	6	6.1.1	Definitions	Paragraph amended	7
2	1	Table 2.1.1	Materials of construction	Table amended	3
2	1	Table 2.1.2	Materials of construction	Table amended	4
3	2	2.4.1	Rule structural concepts	Reference amended	3
4	5	5.1.1	Hull bending strength	References amended (three instances)	3
4	5	5.2.3(b)	Hull bending strength	Reference amended	3
4	5	5.5.4	Hull bending strength	Reference amended	3
4	5	5.6.1(b)	Hull bending strength	References amended	3
4	5	5.9.1	Hull bending strength	Reference amended	3
4	5	5.10.1	Hull bending strength	Reference amended	3
4	7	7.4.1	Hull buckling strength	Reference amended	3
4	8	8.2.4(e)	Loading guidance information	Reference amended	5
5	5	5.1.4	Single and double bottom structure	Reference amended	5
5	7	7.4.1	Forward deep tank structure	Reference amended	6
6	4	4.1.5	Shell envelope framing	Reference amended	5
6	5	5.1.3	Single and double bottom structure	Reference amended	5
8	5	5.3.1	Bulkheads, guard rails and other means for the protection of crew	Paragraph amended	4
9	7	7.7.4	Strengthening requirements for navigation in first-year ice conditions	Paragraph amended	4
9	8	8.5.2(a)	Strengthening requirements for navigation in multi-year ice conditions	Reference amended	3
9	8	8.5.2(b)	Strengthening requirements for navigation in multi-year ice conditions	References amended	3
9	12	12.1.3	Bottom strengthening for loading and unloading aground	Reference amended	5
9	12	12.3.1	Bottom strengthening for loading and unloading aground	Reference amended	5
9	12	12.4.1	Bottom strengthening for loading and unloading aground	Reference amended	5
10	4	4.2.1	Construction details for primary members	Reference amended	3
16	5.1	Title	Ship Event Analysis	Title amended	1

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Part 4					
1	4	Table 1.4.1	Deck structure	Reference amended	3
1	4	Table 1.4.3	Deck structure	Reference amended	3
1	5	Table 1.5.2	Shell envelope plating	Reference amended	3
1	5	Table 1.5.3	Shell envelope plating	Reference amended	3
1	5	5.1.2	Shell envelope plating	Reference amended	5
1	6	Table 1.6.1 (a)	Shell envelope framing	Reference amended	3
1	6	Table 1.6.1 (b)	Shell envelope framing	Reference amended	3
1	6	6.1.5	Shell envelope plating	Reference amended	5
1	7	7.1.4	Single bottom structure	Reference amended	5
1	8	8.2.6	Double bottom structure	Reference amended	5
2	5	5.2.3	Shell envelope framing	Reference amended	5
3	1	1.2.3 & 1.2.4	General	Text added	3
3	9	9.3.1	Escort operation, performance numeral and trials	Text added	3
4	1	1.2.2	General	Text added	3
5	6	6.1.1	Bottom strengthening for loading and unloading aground	Reference amended	5
7	1	1.4.3	General	Paragraph amended	4
7	2	2.2.3	Materials and protection	Reference amended	5
7	6	Table 7.6.1	Shell envelope framing	Table amended	1
7	7	7.2.1	Topside tank structure	Reference amended	1
7	7	7.2.1(b)	Topside tank structure	Reference amended	3
7	7	7.3.1	Topside tank structure	Reference amended	1
7	8	8.1.5	Double bottom structure	Reference amended	1
7	8	Table 7.8.1	Double bottom structure	Table amended	1
7	8	Table 7.8.1	Double bottom structure	Reference amended	3
7	8	Table 7.8.1	Double bottom structure	Reference amended	5
7	9	Table 7.9.1	Hopper side tank structure	Table amended	1
7	9	9.2.2	Hopper side tank structure	Reference amended	5
7	9	9.3.1	Hopper side tank structure	Reference amended	7
8	15	Table 8.15.2	Requirements for ships with large deck openings	Table amended	1
9	1	1.4.3 to 1.4.5	General	References amended	6
9	4	4.2.1	Hull envelope plating	References amended	3
9	4	5.2.1	Hull envelope plating	References amended	3
9	4	6.2.1	Hull envelope plating	Reference amended	3
9	9	9.3.8	Primary members supporting longitudinal framing	Reference amended	5
9	13	13.2.2	Access arrangements and closing appliances	Text added	1
10	1	1.1.2	General	Reference amended	5
12	17	17.2.1	Split hopper dedgers and barges	Reference amended	3
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Part 5					
2	13	13.5.1(a)	Type testing procedure for crankcase explosion relief valves	Reference amended	5
2	13	13.5.1(b)	Type testing procedure for crankcase explosion relief valves	Reference amended	5
2	13	13.5.1(c)	Type testing procedure for crankcase explosion relief valves	Reference amended	5
4	1	1.1.1	General requirements	Paragraph amended	4
12	5	Table 12.5.3	Plastics pipes	Table amended	4
13	1	1.3.1	General requirements	Reference amended	7
13	11	11.1.1	Ballast system	Reference amended	5
13	12	12.7.1	Air, overflow and surrounding pipes	Reference amended	7
14	3	3.12.1	Oil fuel burning arrangements	Reference amended	7
14	9	9.1.1	Hydraulic systems	Reference amended	7
14	11	11.1.2(a)	Multi-engined ships	Reference amended	7

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Part 5 (cont'd)					
15	3	3.5.2	Cargo handling system	Reference amended	5
19	5	Table 19.5.1	Electric power circuits, electric control circuits, monitoring and alarms	Table amended	3
23	6	6.6.5	Machinery design and construction requirements	Paragraph amended	3
23	8	8.1.6(a)	Control engineering arrangements	Reference amended	5
23	8	8.1.6(b)	Control engineering arrangements	Reference amended	5
23	8	8.1.7	Control engineering arrangements	Reference amended	5
23	8	8.2.6	Control engineering arrangements	Paragraph amended	1
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Part 6					
1	1	1.2.3	General requirements	Text added	3
1	1	1.2.5	General requirements	References amended	5
1	1	1.3.2	General requirements	References amended	5
1	2	2.2.5	Essential features for control, alarm and safety systems	Paragraph amended	3
1	2	2.2.7	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.3.1	Essential features for control, alarm and safety systems	Paragraph amended	3
1	2	2.8.8	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.9.1	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.9.2	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.9.5	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.9.6	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.10.1	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.10.3	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.11.1	Essential features for control, alarm and safety systems	Reference amended	3
1	2	2.11.1	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.12.1	Essential features for control, alarm and safety systems	Reference amended	5
1	2	2.12.7	Essential features for control, alarm and safety systems	Reference amended	5
1	3	Table 1.3.6	Control and supervision of unattended machinery	Table amended	7
1	6	6.1.2	Integrated computer control – ICC notation	Reference amended	5
1	6	6.2.1	Integrated computer control – ICC notation	Reference amended	5
1	6	6.2.3	Integrated computer control – ICC notation	Reference amended	5
1	6	6.3.1	Integrated computer control – ICC notation	Reference amended	5
1	7	7.1.1	Trials	Paragraph amended	3
2	1	1.2.11	General requirements	Reference amended	5
2	1	1.5.10	General requirements	Paragraph amended	4
2	1	1.7.3	General requirements	Paragraph amended	5
2	1	1.14.1	General requirements	Reference amended	5

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Part 6 (cont'd)					
2	2	2.2.1	Main source of electrical power	Paragraph amended	7
2	3	3.2.12	Emergency source of electrical power	Paragraph amended	4
2	6	6.1.1(b)	System design – Protection	Reference deleted	1
2	7	7.15.1	Switchgear and control gear assemblies	Paragraph amended	3
2	11	11.1.1	Batteries	Paragraph amended	3
2	13	13.9.9	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Paragraph amended	3
2	13	13.13.1	Electrical equipment for use in explosive gas atmospheres or in the presence of combustible dusts	Reference amended	5
2	16	16.5.3	Fire safety systems	Reference amended	5
2	16	16.5.4	Fire safety systems	Reference amended	5
2	16	16.5.5	Fire safety systems	Reference amended	5
3	3	3.2.1	Refrigerating machinery and refrigerant storage compartments	Reference amended	5
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Part 7					
4	2	2.4.1	Class notation DP(CM)	Reference amended	5
9	3	3.1.4	Workstations	References amended	5
9	3	3.1.7	Workstations	Reference amended	5
9	5	5.2.2	Integrated Bridge Navigation System – IBS notation	Reference amended	5
9	5	5.3.11	Integrated Bridge Navigation System – IBS notation	Reference amended	5
9	5	5.3.13	Integrated Bridge Navigation System – IBS notation	Reference amended	5
11	2	2.6.6	Environmental Protection (EP) class notation	Paragraph amended	5
11	2	2.6.9 and 2.6.12	Environmental Protection (EP) class notation	Paragraphs amended	5
11	3	3.2.2	Supplementary characters	Paragraph amended	5
11	3	3.2.3	Supplementary characters	New paragraph added	5
11	3	3.6.2	Supplementary characters	Paragraph amended	5
12	3	3.1.5	Control and monitoring of active fire protection and fixed fire-extinguishing systems	Reference amended	5

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