STEEL VESSELS
2006

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Page No.	Paragraph	Comments
Part 2 Rules for Materials and Welding Appendix 1 List of Destructive and Nondestructive Tests Required in Part 2, Chapters 1, 2 and 3, and Responsibility for Verifying		
264	2-A1	Under "2-3-10 Ductile (Nodular) Iron Castings", references "2-3-10/1.3" and "2-3-10/1.7" to read "2-3-10/11" and "2-3-10/7", respectively.
264	2-A1	Under "2-3-11 Gray-iron Castings", reference "2-3-11/3" to read "2-3-11/13".

Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Appendix 4 Buckling Strength of Longitudinal Strength Members		
62	3-2-A4/3.3.2	Definition of calculated compressive stress to read "σ_a =…"

Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 11 Superstructures and Deckhouses		
145	3-2-11/11.7	Revise to read: **"11.7 Material** ***(1999)*** In general, the construction of helicopter decks is to be of steel or other material with equivalent ability to retain structural capacity in a fire. If the helicopter deck forms the deckhead of a deckhouse or superstructure, it is to be insulated to A-60 class standard. Aluminum alloys may be used for helicopter decks above deckhouses, provided the following conditions are complied with: *i)* There are to be no openings in the exterior bulkheads directly below the helicopter deck *ii)* All windows in the lower exterior bulkheads are to be fitted with steel shutters."

Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 15 Protection of Deck Openings		
179	3-2-15/3.3.1	After second equation, add new equation as follows: "*For a position 1 hatchway located at least one superstructure standard height higher than the freeboard deck:* $p = 3.5 - 1.5x\dfrac{(100 - L_{f1})}{76}$ kN/m^2 (tf/m^2, Ltf/ft^2)"

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Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 15 Protection of Deck Openings		
180	3-2-15/3.3.1	After definition of L_f, add definition of L_{f1} as follows: "L_{f1} = freeboard length, in m (ft), as defined in 3-1-1/3.3, but is not to be taken as greater than 150 m (325 ft) and less than 90 m (295 ft)"
Part 4 Vessel Systems and Machinery Chapter 1 General Section 1 Classification of Machinery		
13	4-1-1/Table 3	In row 4, PQA column to read "NA".
Part 4 Vessel Systems and Machinery Chapter 2 Prime Movers Section 1 Diesel Engines		
59	4-2-1/15.7	Revise first sentence to read "Engines driving essential auxiliaries or generators, other than propulsion generators are to be subjected to an operational test for at least 4 hours.".
Part 4 Vessel Systems and Machinery Chapter 3 Propulsion and Maneuvering Machinery Section 1 Appendix 1 – Rating of Cylindrical and Bevel Gears		
132	4-3-1A1/3	After row for α_t add definition "α_{vt} transverse pressure angle of virtual cylindrical gear degrees".
132	4-3-1A1/3	After row for β_b add definition "β_{vb} helix angle at base circle degrees".
132	4-3-1A1/3	Symbol "α_{tw}" to read "α_{wt}".
133	4-3-1A1/5	In eighth equation, "inv α_{tw}" to read "inv α_{wt}".
135	4-3-1A1/7	After definition for tan β_{bm} add definition "$\beta_{vb} = \arcsin(\sin\beta_m \cdot \cos\alpha_n)$".
135	4-3-1A1/7	Under geometrical definitions, in equation for R_m, "R" to read "R_e".
135	4-3-1A1/7	Under outer transverse module, first term in equation for m_{et} to read "$\frac{d_{e2}}{z_2}$".
135	4-3-1A1/7	Delete "Normal module at mid-facewidth:".
136	4-3-1A1/7	Under transverse pressure angle of virtual cylindrical gear, "α_{tw}" to read "α_{vt}" (2 places).
137	4-3-1A1/7	In sixth line, "outer addendum" to read "outer dedendum".
137	4-3-1A1/7	Symbol for "transverse contact ratio" to read "$\varepsilon_{v\alpha}$".
137	4-3-1A1/7	Under length of the middle line of contact, "ℓ_{vb}" to read "ℓ_{bm}".
141	4-3-1A1/15.3.1	Equation for d_{m1}, d_{m2} to read "$\frac{d_{a1,a2} + d_{f1,f2}}{2}$".
147	4-3-1A1/15.3.5	Under Cylindrical Gears, "$K_{v(N=1.15)}$" to read "$K_{v(N=1.5)}$".

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Part 4 Vessel Systems and Machinery Chapter 3 Propulsion and Maneuvering Machinery Section 1 Appendix 1 – Rating of Cylindrical and Bevel Gears		
154	4-3-1A1/19.1	Second equation for $K_{H\alpha}$ to read: "$K_{H\alpha} = K_{F\alpha} = \frac{\varepsilon_\gamma}{2} \cdot \left[0.9 + 0.4 \cdot \frac{C_\gamma \cdot (f_{pbe} - y_a) \cdot b}{F_{tH}} \right]$ for $\varepsilon_\gamma \le 2$".
158	4-3-1A1/21.7	In equation for Z_H for cylindrical gears, "α_{tw}" to read "α_{wt}" (2 places).
170	4-3-1A1/23.5.3	Equation "$\gamma_a = \left(\frac{0.5 \cdot \pi + 2 \cdot x_{hm} \cdot \tan \alpha_n}{z_{vn}} + inv\alpha_n - inv\alpha_{an} \right) \cdot \frac{180}{\pi}$" to read "$\gamma_a = \left(\frac{0.5 \cdot \pi + 2 \cdot (x_{hm} \cdot \tan \alpha_n + x_{sm})}{z_{vn}} + inv\alpha_n - inv\alpha_{an} \right)$".
188	4-3-1A1/Figure 4	Dimensions "R" and "h_{a2}" to read "R_{e2}" and "h_{ae2}", respectively.
Part 4 Vessel Systems and Machinery Chapter 3 Propulsion and Maneuvering Machinery Section 3 Propellers		
228	4-3-3/5.13.2	In equation for s, "t" to read "T".
228	4-3-3/5.13.2	Revise last sentence to read "See 4-3-3/5.1 for f and 4-3-3/5.3 for W and T.".
Part 4 Vessel Systems and Machinery Chapter 4 Boilers, Pressure Vessels and Fired Equipment Section 1 Boilers and Pressure Vessels and Fired Equipment		
296	4-4-1/9.3.3	In last line, reference "4-6-2/5.13" to read "4-6-2/5.15".
Part 4 Vessel Systems and Machinery Chapter 6 Piping Systems Section 1 General Provisions		
362	4-6-1/Table 2	In Note 4, reference "4-6-2/5.13" to read "4-6-2/5.15".
362	4-6-1/Table 2	In Note 5, reference "4-6-2/5.7.4" to read "4-6-2/5.9".
362	4-6-1/Table 2	Add new Note label "(5)" in the "Design approval" column for Pipe fittings Class I, II.
362	4-6-1/Table 2	Revise Note 5 to read "Design of flexible hoses and mechanical pipe joints is to be approved in each case. See 4-6-2/5.7 and 4-6-2/5.9, respectively.".
Part 4 Vessel Systems and Machinery Chapter 6 Piping Systems Section 2 Metallic Piping		
382	4-6-2/ 5.9.2(e)v)2b	In last paragraph, reference "4-6-2/5.9(e)iv)" to read "4-6-2/5.9.2(e)iv)".
385	4-6-2/5.11.1	In last line, reference "4-6-2/5.13" to read "4-6-2/5.15".
386	4-6-2/5.17	In second line, reference "4-6-2/5.13" to read "4-6-2/5.15".
388	4-6-2/9.6	In first line, reference "4-6-2/5.5.6" to read "4-6-2/5.9".
388	4-6-2/9.7.3i)	In second bullet, reference "4-6-2/5.9.3(a)" to read "4-6-2/5.11.3(a)".
390	4-6-2/9.13.2iii)	In last line, reference "4-6-2/5.9.3(a)" to read "4-6-2/5.11.3(a)".
397	4-6-2/Table 7	In Row E, reference "4-6-2/5.13" to read "4-6-2/5.15".

Page No.	Paragraph	Comments
Part 4 Vessel Systems and Machinery Chapter 6 Piping Systems Section 4 Ship Piping Systems and Tanks		
443	4-6-4/Table 2	Add new Note 1 to read "This arrangement applies, provided the propulsion and essential systems support rapid fuel changeover and are capable of operating in all normal operating conditions at sea with both types of fuels (MDO and HFO).". Add Note label "(1)" in first column of "Dual-fuel vessels (HFO + MDO)" row.
446	4-6-4/13.7.1(b)	In third line, reference "4-6-2/5.13" to read "4-6-2/5.15".
446	4-6-4/13.7.1(c)	Reference "4-6-2/5.7.1" to read "4-6-2/5.7".
446	4-6-4/13.7.2	In second line of first paragraph, references "4-6-2/5.9" and "4-6-2/5.11" to read "4-6-2/5.11" and "4-6-2/5.13", respectively.
446	4-6-4/13.7.2	In last line of second paragraph, reference "4-6-2/5.9.2" to read "4-6-2/5.11.2".
449	4-6-4/15.1.5	In fifth line, "fuel oil piping systems" to read "lubricating oil piping systems".

Part 4 Vessel Systems and Machinery Chapter 6 Piping Systems Section 5 Piping Systems for Internal Combustion Engines		
460	4-6-5/7.3.3	In second line, reference "4-6-2/5.13" to read "4-6-2/5.15" and in last line, reference "4-6-2/5.7.2" to read "4-6-2/5.8.1".
465	4-6-5/9.7.1	In second line, reference "4-6-2/5.13" to read "4-6-2/5.15".

Part 4 Vessel Systems and Machinery Chapter 6 Piping Systems Section 6 Piping Systems for Steam Plants		
470	4-6-6/3.3.1(b)	In second line, reference "4-6-2/5.13" to read "4-6-2/5.15".
470	4-6-6/3.3.2	In second line, references "4-6-2/5.9" and "4-6-2/5.11" to read "4-6-2/5.11" and "4-6-2/5.13", respectively.
477	4-6-6/5.11.3	In second line, reference "4-6-2/5.13" to read "4-6-2/5.15".
484	4-6-6/11.7.3	Reference "4-6-2/5.7.2" to read "4-6-2/5.8".

Part 4 Vessel Systems and Machinery Chapter 6 Piping Systems Section 7 Other Piping Systems		
486	4-6-7/Table 1	In row for hoses, reference "4-6-2/5.7.3(b)" to read "4-6-2/5.7.3(c)".
486	4-6-7/Table 1	In row for molded expansion joint of composite construction, reference "4-6-2/5.7.2(b)" to read "4-6-2/5.8.1" (3 places).
487	4-6-7/3.5.3	In second line, references "4-6-2/5.9" and "4-6-2/5.11" to read "4-6-2/5.11" and "4-6-2/5.13", respectively.
488	4-6-7/5.3.2	In second line, reference "4-6-2/5.13" to read "4-6-2/5.15".
493	4-6-7/9.13.3	In last bullet, references "5-10-4/3.11.1" and "5-10-4/3.11.2" to read "5-10-4/3.9.1" and "5-10-4/3.9.2", respectively.

Page No.	Paragraph	Comments
Part 4 Vessel Systems and Machinery Chapter 8 Electrical Systems Section 1 General Provisions		
560	4-8-1/5.1.3	Revise last paragraph to read "Reference may be made to IEC Publication 61363-1 Electrical Installations of Ships and Mobile and Fixed Offshore Units – Part 1: Procedures for Calculating Short-Circuit Currents in Three-Phase A.C."
Part 4 Vessel Systems and Machinery Chapter 9 Remote Propulsion Control and Automation Section 3 ACC Notation		
698	4-9-3/15.5.1	In second line, reference "4-7-2/1.15" to read "4-7-2/1.13.1".
Part 4 Vessel Systems and Machinery Chapter 9 Remote Propulsion Control and Automation Section 4 ACCU Notation		
708	4-9-4/21.5.1	In second line, reference "4-7-2/1.15" to read "4-7-2/1.13.1".
Part 5 Specific Vessel Types Chapter 1 Vessels Intended to Carry Oil in Bulk (150 meters (492 feet) or more in Length) Appendix 1 Guide for Fatigue Strength Assessment of Tankers		
204	5-1-A1/1.9	In second paragraph, reference "5-1-A3/13" to read "5-1-A1/13".
Part 5 Specific Vessel Types Chapter 8 Vessels Intended to Carry Liquefied Gases in Bulk Section 1 General		
943	5-8-1/1.1.1	Add new second paragraph to read as follows: "For Liquefied Gas Carriers intended to carry liquefied natural gas, of which the methane content is more than 80%, the specific class notation of ✠ **A1 Liquefied Natural Gas Carrier** is to be assigned.".
Part 5 Specific Vessel Types Chapter 8 Vessels Intended to Carry Liquefied Gases in Bulk Section 6 Materials of Construction		
1035	5-8-6/1.3 (ABS)	In title, "5-8-5/1.3" to read "5-8-6/1.3".
Part 7 Rules for Survey After Construction Chapter 3 Hull Surveys Section 2 Vessels for Unrestricted Service		
58	7-3-2/3.17.1	Title to read "Piping Systems on Weather Decks".
60	7-3-2/3.18.1	Title to read "Piping Systems on Weather Decks".
Part 7 Rules for Survey After Construction Appendix Section 4 Guide for Hull Thickness Measurement		
301	7-A-4/Table 1	In note 9, "column 2" to read "column 4".
301	7-A-4/Table 1	In note 10, "column 1 and 2" to read "columns 1, 2 or 3".