STEEL VESSELS UNDER 90 METERS (295 FEET) IN LENGTH
2006

CORRIGENDA/EDITORIALS – 24 February 2006
CORRIGENDA/EDITORIALS – 1 June 2006
CORRIGENDA/EDITORIALS – 1 November 2006
CORRIGENDA/EDITORIALS – 29 January 2007
CORRIGENDA/EDITORIALS – 12 April 2007
CORRIGENDA/EDITORIALS – 1 July 2007
CORRIGENDA/EDITORIALS – 30 January 2008
CORRIGENDA/EDITORIALS – 31 March 2008
CORRIGENDA/EDITORIALS – 1 July 2008
CORRIGENDA/EDITORIALS – 1 October 2008
CORRIGENDA/EDITORIALS – 9 February 2009
CORRIGENDA/EDITORIALS – 1 July 2009
CORRIGENDA/EDITORIALS – 12 November 2009
CORRIGENDA/EDITORIALS – 1 July 2010

Note: *The Part/Chapter/Section headings and references in the "Paragraph" column relate to the printed 2006 Under 90m Rules. Changes to Part 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 Part 1 of the Under 90m Rules being renumbered (for example, Section 1-1-3 is now Section 1-1-2). See Notice No. 7.*

Page No.	Paragraph	Comments
Table of Contents		
iii	Foreword	Add new second paragraph, as follows, "Thus, this supplement specifies only the unique requirements applicable to steel vessels under 90 meters (295 feet0 in length. This supplement is always to be used with the aforementioned *Rules for Conditions of Classification (Part 1)*.".
v	TOC	Add new note below Section 4, as follows, "[See also separately published booklet ABS *Rules for Conditions of Classification (Part 1)*]".

Part 1 Conditions of Classification **Chapter 1 Scope and Conditions of Classification** **Section 4 Rules for Classification**		
17	1-1-4/1.3	Reference "1-1-4/3" to read "1-1-4/3 of the ABS *Rules for Conditions of Classification (Part 1)*".

Part 1 Conditions of Classification **Chapter 1 Scope and Conditions of Classification** **Section 7 Submission of Plans**		
28	1-1-7/5	Reference "1-1-5/3 or 1-1-5/5" to read "1-1-5/3 or 1-1-5/5 of the ABS *Rules for Conditions of Classification (Part 1)*".

Page No.	Paragraph	Comments
Part 3 Hull Construction and Equipment Chapter 1 General Section 1 Definitions		
5	3-1-1/17.1	Reference "1-1-3/1" to read "1-1-3/1 of the ABS *Rules for Conditions of Classification (Part 1)*".
5	3-1-1/17.3	Reference "1-1-3/7" to read "1-1-3/7 of the ABS *Rules for Conditions of Classification (Part 1)*".

Part 3 Hull Construction and Equipment Chapter 1 General Section 2 General Requirements		
9	3-1-2/5.5	Revise first paragraph to read "…the length of each member, ℓ, may be measured at a point 25% of the extent of the bracket beyond the toe of the bracket, as shown in 3-1-2/Figure 1, when a reduction of the span is so permitted in each section. The minimum overlap...".

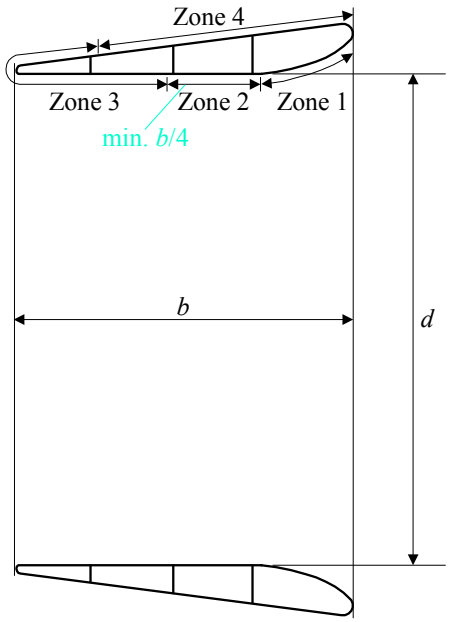
Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 3 Deck Plating		
49	3-2-3/7	In definition of a, delete ", and, in general, the larger wheel imprint dimension".
49	3-2-3/7	In definition of b, delete ", and, in general, the lesser wheel imprint dimension".

Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 6 Beams, Deck Girders, Deck Transverses and Pillars		
2 (Notice 2)	3-2-6/1.6.2(a)i)	Add new Note 2 as follows: *Notes:* 1 Side projected area including maximum stacks of deck cargoes is to be taken into account for assessment of lateral wind forces, arrangements of tug boats and selection of mooring lines. 2 Where the tabular breaking strength exceeds 490 kN (50,000 kgf, 110,200 lbf), the breaking strength of individual mooring line may be reduced with corresponding increase of number of the mooring lines, provided that the total breaking load of all lines aboard the vessel is not less than the total loads as specified in 3-5-1/Table 2. The number of mooring lines is not less than 6 and no one line is to have a strength less than 490 kN. (See also 3-5-1/17 and 3-5-1/19.7)

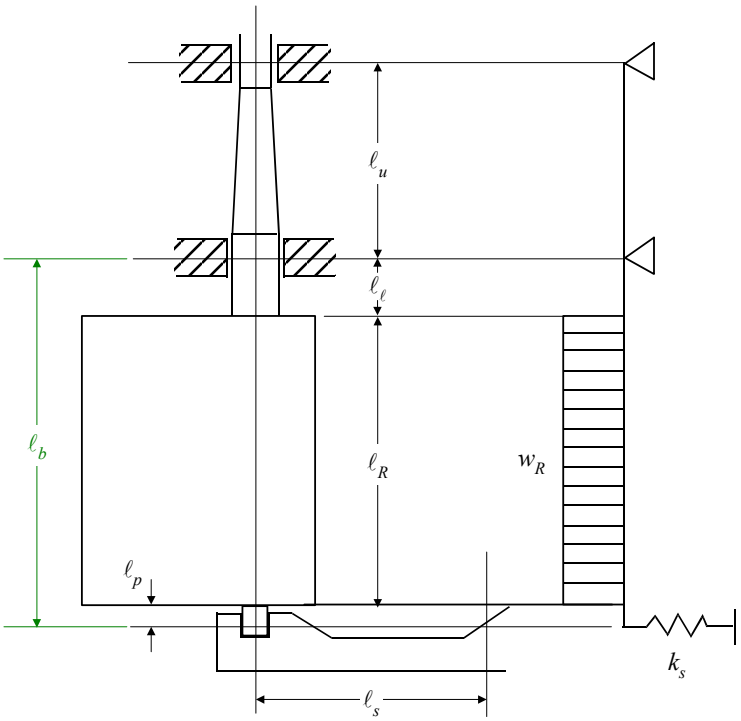
Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 7 Watertight Bulkheads and Doors		
91	3-2-7/7.1.1	Revise sixth sentence as follows, "For vessels less than 80 m (262.4 ft) in length (L_f as defined in 3-1-1/3.3)…".
91	3-2-7/7.1.1	Revise seventh sentence as follows, "…for vessels less than 80 m (262.4 ft) in length, L_f, in way of…".

Page No.	Paragraph	Comments
Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 9 Superstructures and Deckhouses		
99	3-2-9/Table 1	In third row of first column, "Protected" to read "Unprotected".
103	3-2-9/11.1	Reference "Section 1-1-5 and 4-5-1/7" to read "Section 1-1-5 of the ABS *Rules for Conditions of Classification (Part 1)* and 4-5-1/7 of these Rules".
104	3-2-9/11.7	Revise to read: **"11.7 Aluminum Decks** Aluminum 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 decks. *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 10 Keels, Stems, Stern Frames and Shaft Struts		
112	3-2-10/17.3.1	In first line and equation, "I" to read "$I_{x\text{-}x}$".
112	3-2-10/17.3.1	In equation for I and in definition, "d" to read "D".
113	3-2-10/17.3.2	In first line and equation, "SM" to read "$SM_{x\text{-}x}$".
113	3-2-10/17.3.2	In equation for SM and in definition, "d" to read "D".
113	3-2-10/17.5.1	In first line and equation, "I" to read "$I_{x\text{-}x}$".
113	3-2-10/17.5.1	In equation for I and in definition, "d" to read "D".
113	3-2-10/17.5.2	In first line and equation, "SM" to read "$SM_{x\text{-}x}$".
113	3-2-10/17.5.2	In equation for SM and in definition, "d" to read "D".
3 (Notice 10)	3-2-10/Table 4	Equations for b_2 to read: "$b_2 = \left(\frac{t_o}{\sqrt{K_n}} + 5\right) \times 10^{-1}$ mm or $b_2 = \left(\frac{t_o}{\sqrt{K_n}} + 0.2\right) \times 10^{-1}$ in."
4 (Notice 10)	3-2-10/19.7	In definition of n, "0.004" to read "0.0012".

Page No.	Paragraph	Comments
Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 10 Keels, Stems, Stern Frames and Shaft Struts		
4 (Notice 10)	3-2-10/Figure 3	Add "min. $b/4$", as follows: 

Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 11 Rudders		
8 (Notice 10)	3-2-11/Figure 2	Reference "3-2-14/3.3" to read "3-2-11/3.3" (2 places) and reference "3-2-14/5.5" to read "3-2-11/5.5" (1 place).
123	3-2-11/15.5.2	Equation for P_n for bearing force at neck bearing to read: "$P_u\left(1+\frac{\ell_u}{\ell_b}\right)+\frac{C_R}{\ell_b}\left(\frac{\ell_r}{2}+\ell_p\right)$".
123	3-2-11/15.5.2	Add definitions of ℓ_b, ℓ_p and ℓ_ℓ after equation for P_n for bearing force at neck bearing, as follows: "where ℓ_b = distance between the center of neck bearing support and the center of shoepiece support (see 3-2-11/7.5.2) = $\ell_p + \ell_r + \ell_\ell$ ℓ_p = distance between bottom of rudder blade and center of support of neck bearing ℓ_ℓ = distance between top of rudder blade and center of support of neck bearing"
123	3-2-11/17.1.1	In definition of A_b, "$1.2d$" to read "$1.2d_\ell$".

Page No.	Paragraph	Comments
Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Appendix 2 Guidelines for Calculating Bending Moment and Shear Force in Rudders and Rudder Stocks		
130	3-2-A2/Figure 2	Add dimension "ℓ_b" as follows: 

Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 12 Protection of Deck Openings		
132	3-2-12/5.3.1	After equation for p, add new equation as follows: "*For a position 1 hatchway located at least one superstructure standard height higher than the freeboard deck:* $p = 3.3 - 1.3x\dfrac{(90 - L_{f1})}{66}$ kN/m^2 (tf/m^2, Ltf/ft^2)"
132	3-2-12/5.3.1	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 90 m (295 ft) and less than 24 m (80 ft)"
133	3-2-12/7.3	Equation for t in US units to read "$t = 0.0006L + 0.27$ in.".

Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 14 Bulwarks, Rails, Freeing Ports, Portlights, Windows, Ventilators, Tank Vents and Overflows		
172	3-2-14/11.1	Revise to read: "Ventilators are to comply with the requirements of 3-2-14/11.3. Tank vents and overflows are to comply with the requirements in 3-2-14/11.5. In addition, for those located on the fore deck of vessels with length, L, (as defined in 3-1-1/3.1) between 80 meters (263 feet) and 90 meters (295 feet), the requirements given in 3-2-14/11.7 are to be complied with."
173	3-2-14/11.5	Revise to read: "Tank vents and overflows are to be in accordance with the requirements of 4-4-3/9 and 4-4-3/11 of these Rules and, where applicable, the requirements given below in 3-2-14/11.7"

Page No.	Paragraph	Comments
Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 14 Bulwarks, Rails, Freeing Ports, Portlights, Windows, Ventilators, Tank Vents and Overflows		
173	3-2-14/11.7.1	Revise to read: "The requirements of this paragraph apply to all ventilators, tank vents and overflows located on the exposed fore deck within the forward 0.25*L* on vessels with length, *L*, (as defined in 3-1-1/3.1) between 80 meters (263 feet) and 90 meters (295 feet) and where the height of the exposed deck in way of the item is less than 0.1*L* or 22 meters (72 ft) above the summer load waterline, whichever is the lesser."

Part 3 Hull Construction and Equipment Chapter 2 Hull Structures and Arrangements Section 16 Weld Design		
187-189	3-2-16/Table 1	In heading "Spacing of Welds *S*", "mm" to read "in." (3 places).

Part 3 Hull Construction and Equipment Chapter 3 Subdivision and Stability Section 1 General Requirements		
193	3-3-1/3.1	In bullet, reference "IMO Resolution A167/A206 with A562" to read "IMO Code on Intact Stability".
193	3-3-1/3.3	In first bullet, reference "Regulation II-1/4 through 8" to read "Regulation II-1/4 through 8-1".
193	3-3-1/3.3	In fifth bullet, reference "Regulation II-1/25-1 through 25-8" to read "Regulation II-1/4 through 7-3".

Part 3 Hull Construction and Equipment Chapter 3 Subdivision and Stability Appendix 1 Intact Stability of Tankers During Liquid Transfer Operations		
195	3-3-A1/3.3	Reference "IMO Resolution A.749 (18), the Intact Stability Code" to read "the IMO Code on Intact Stability".

Part 3 Hull Construction and Equipment Chapter 5 Equipment Section 1 Anchoring, Mooring and Towing Equipment		
215	3-5-1/7.3	Reference "1-1-3/7" to read "1-1-3/7 of the ABS *Rules for Conditions of Classification (Part 1)*".
218	3-5-1/ 13.3.2(b)ii)	Equation for F_i to read "$F_i = (F_{xi}^2 + F_{yi}^2)^{0.5}$" ("–" to be "+").
7 (Notice 2)	3-5-1/19.7	Add new Note after last bullet item, as follows: *Note:* Where the arrangements and details of deck fittings and their supporting structures are designed based on the mooring arrangements as permitted in Note 2 of 3-2-6/1.6.2(a)i), the arrangement of mooring lines showing number of lines together with the breaking strength of each mooring line are to be clearly indicated on the plan.

Part 4 Vessel Systems and Machinery Chapter 1 General Section 1 Conditions of Classification of Machinery		
4	4-1-1/3.3	In first paragraph, reference "1-1-4/7.7.3" to read "1-1-4/7.7.3 of the ABS *Rules for Conditions of Classification (Part 1)*".
4	4-1-1/3.3	In first paragraph, reference "1-1-4/7.7.2" to read "1-1-4/7.7.2 of the above-referenced Part 1".
4	4-1-1/3.3	In second paragraph, reference "Appendix 1-1-A3 of the *Rules for Building and Classing Steel Vessels*" to read "Appendix 1-1-A3 of the ABS *Rules for Conditions of Classification (Part 1)*".

Page No.	Paragraph	Comments
Part 4 Vessel Systems and Machinery Chapter 1 General Section 1 Conditions of Classification of Machinery		
5	4-1-1/7	Reference "Section 1-1-7" to read "Section 1-1-4 of the Supplement to the ABS *Rules for Conditions of Classification (Part 1)*".
6	4-1-1/7.5	Reference "4-4-6/3.3.2" to read "4-4-6/3".

Part 4 Vessel Systems and Machinery Chapter 2 Prime Movers Section 1 Internal Combustion Engines and Reduction Gears		
24	4-2-1/13.9.3	Reference "4-6-2/5.17" to read "4-6-2/5.19".

Part 4 Vessel Systems and Machinery Chapter 3 Propulsion and Maneuvering Machinery Section 1 Propulsion Shafting		
31	4-3-1/3	Reference "Section 1-1-7" to read "4-1-1/7.19".
32	4-3-1/5.3	Revise title and add new text as follows: **5.3 Material Tests** 5.3.1 General Materials for all torque-transmitting parts, including shafts, clutches, couplings, coupling bolts and keys are to be tested in the presence of the Surveyor. The materials are to meet the specifications of 2-3-7/5. 2-3-7/7 and 2-3-8/1 of the ABS *Rules for Materials and Welding (Part 2)* or other specifications approved in connection with the design. 5.3.2 Alternative Test Requirements Materials for shafting, couplings and coupling bolts transmitting 373 kW (500 HP) or less will be accepted based on the manufacturer's certified mill tests and hardness check witnessed by the Surveyor. Bolts manufactured to a recognized standard and used as coupling bolts will not require material testing.

Part 4 Vessel Systems and Machinery Chapter 3 Propulsion and Maneuvering Machinery Section 2 Propellers		
41	4-3-2/5	Reference "Section 1-1-7" to read "4-1-1/7.15".
42	4-3-2/9.1	Relocate definitions of S, $t_{0.25}$, K_1, H, hp, HP, R, N, $P_{0.25}$, $P_{0.7}$, W, a, D, K, C_s, C_n, I_o, a_s, U_f, T, f, and w to 4-3-2/9.1.1. In 4-3-2/9.1.2, add definitions of $t_{0.35}$, K_2, $P_{0.35}$, and W, and "H, R, N, $P_{0.7}$, a, D, K, C_s, C_n, f, and w are as defined in 4-3-2/9.1.1." Add "H, R, N, $P_{0.7}$, a, D, K, C_s, C_n, f, and w are as defined in 4-3-2/9.1.1" to 4-3-2/9.1.3.
42	4-3-2/9.1.3	Add definition of $t_{0.35}$ after definition of C to read "$t_{0.35}$ = required thickness at the 0.35 radius, in mm (in.)".
46	4-3-2/11.5.2	In definition of Y, units "kgf/m^2" to read "kgf/mm^2".
47	4-3-2/13.1	In equations for s, "t^2" to read "T^2" and in last line, "t" to read "T".
47	4-3-2/13.1	In equations for s, "T^2" to read "$t_{0.35}^2$" and in last line, "T" to read "$t_{0.35}$".

Page No.	Paragraph	Comments
Part 4 Vessel Systems and Machinery Chapter 3 Propulsion and Maneuvering Machinery Section 3 Steering Gear		
58	4-3-3/3.3	In first line of first paragraph, reference "4-3-3/3.3" to read "4-3-3/3.1".
58	4-3-3/3.3	In second line of fourth paragraph, "152.4 mm" to read "150 mm".

Part 4 Vessel Systems and Machinery Chapter 4 Pumps and Piping Systems Section 1 General		
90	4-4-1/9.7	Reference "1-1-A3/1 of the *Rules for Building and Classing Steel Vessels*" to read "1-1-A3/1 of the ABS *Rules for Conditions of Classification (Part 1)*".

Part 4 Vessel Systems and Machinery Chapter 4 Pumps and Piping Systems Section 2 Pumps, Pipes, Valves and Fittings		
99	4-4-2/Table 1	In "-29°C (120°F) to 334°C (650°F)" column of "2-3-12/5.1 (Gr. 3) Seamless Carbon Steel", "0.55" to read "10.55".
9 (Notice 2)	4-4-2/7.9	In first and second paragraphs, reference "1-1-A3/5.3 and 1-1-A3/5.5 of the *Rules for Building and Classing Steel Vessels*" to read "1-1-A3/5.3 and 1-1-A3/5.5 of the ABS *Rules for Conditions of Classification (Part 1)*".
10 (Notice 2)	4-4-2/7.9	In third paragraph, reference "1-1-A3/5.3, 1-1-A3/5.5 of the *Rules for Building and Classing Steel Vessels*" to read "1-1-A3/5.3, 1-1-A3/5.5 of the ABS *Rules for Conditions of Classification (Part 1)*".
11 (Notice 2)	4-4-2/Table 3	In third line, reference "4-4-2/7.5.2" to read "4-4-2/7.5.3".
116	4-4-2/21.3	In first line, "location of sea chests is" to read "locations of sea chests are".
118	4-4-2/23.7	Reference "4-4-2/23.1" to read "4-4-2/23.3".

Part 4 Vessel Systems and Machinery Chapter 4 Pumps and Piping Systems Section 3 Bilge and Ballast Systems and Tanks		
123	4-4-3/9.5	Revise last sentence of first paragraph to read "For vessels with length, *L*, (as defined in 3-1-1/3.1) between 80 meters (263 feet) and 90 meters (295 feet), the minimum diameter of vent pipes on the fore deck is not to be less than 65 mm [see 3-2-14/11.7.3(b)]."
7 (Notice 8)	4-4-3/9.9.3(c)ii)	In second line, "2.776 to 3.937 mil" to read "2.756 to 3.937 mil".
8 (Notice 8)	4-4-3/9.9.3(d)i)	In second line of first bullet, "12.19 ft/min" to read "13.12 ft/min".
8 (Notice 8)	4-4-3/9.9.3(d)i)	In last paragraph, "13.42×10^{-2} gal/inch" to read "1.312×10^{-2} gal/inch".
9 (Notice 8)	4-4-3/ 9.9.3(d)ii)b)	In second paragraph, "(350 kg (771.62 lb)" to read "3430 N (350 kgf, 770 lbf)".

Page No.	Paragraph	Comments
Part 4 Vessel Systems and Machinery Chapter 4 Pumps and Piping Systems Section 4 Fuel Oil and Lubricating Oil Systems and Tanks		
128	4-4-4/1.1.3	Revise to read: "Vessels of 500 gross tonnage and above with the keel laid or in similar stage of construction on or after 1 July 1998 are to meet the following requirements of *i)*, *ii)*, and *iii)* *i)* The vent pipes for fuel oil service and settling tanks which directly serve the engines are to be located and arranged and/or suitably protected from mechanical damage in order to minimize the possibility of being broken and allowing the ingress of seawater splashes or rainwater into the above mentioned tanks. At least two fuel oil service tanks are to be provided and the capacity with one service tank unavailable is to be sufficient for at least eight hours operation of the propulsion plant at maximum continuous rating and the generator plant (excluding emergency generator) at the normal sea load. *ii)* Where the propulsion plant and auxiliary machinery are supplied by different service tanks or where more than one type of fuel is used onboard the vessel, the number and capacity of the fuel oil service tanks is to be sufficient such that the propulsion plant, including all auxiliary machinery vital for propulsion, and the generator plant have both a main fuel oil supply and a back-up fuel oil supply. The capacity of the tanks with one service tank unavailable is to be sufficient to provide the machinery it serves with enough fuel oil for at least eight hours operation, as required above. *iii)* Alternatives equivalent to the above arrangements will be considered. A service tank is a fuel tank which contains only fuel of a quality ready for use, that is, fuel of a grade and quality that meets the specification required by the equipment manufacturer. A service tank is to be declared as such and is not to be used for any other purpose.".
128	4-4-4/1.7	In second line, "spill piping" to read "spill (return) piping".
128	4-4-4/1.7	In third line, "effect" to read "affect".

Part 4 Vessel Systems and Machinery Chapter 4 Pumps and Piping Systems Section 7 Cargo Systems		
145	4-4-7/5.15	In first line, reference "Regulation II-2/59 of SOLAS 1974, as amended" to read "Regulation II-2/4.5.3 of SOLAS 1974, as amended".

Part 4 Vessel Systems and Machinery Chapter 5 Fire Extinguishing Systems Section 1 All Vessels		
164	4-5-1/11.3	Reference "4-5-1/9" to read "4-5-1/11.1i)".

Page No.	Paragraph	Comments
Part 4 Vessel Systems and Machinery Chapter 5 Fire Extinguishing Systems Section 2 Requirements for Vessel 500 Gross Tons and Over		
172	4-5-2/11.3	Revise to read "In addition to the applicable requirements of the Rules, fixed carbon dioxide fire extinguishing systems are to be in accordance with Chapter II-2, Regulations 10.4.2 and 10.4.3 of the International Convention for the Safety of Life at Sea (SOLAS) 1974 and Amendments in force, and Chapter 1.4 and Chapter 5 of the International Code for Fire Safety Systems. Fixed, low pressure carbon-dioxide systems are to be in accordance with 4-7-3/3.5 of the ABS *Rules for Building and Classing Steel Vessels*".
172	4-5-2/11.5.1	In addition to the applicable requirements of the Rules, fixed, high expansion foam systems are to be in accordance with Chapter 6.2.1 and Chapter 6.2.2 of the International Code for Fire Safety Systems. Foam concentrates are to be of an approved type.* * *Note:* Reference is made to the International Maritime Organization MSC/Circular 670 "Guidelines for the Performance and Testing Criteria, and Surveys of High-Expansion Foam Concentrates for Fixed Fire-Extinguishing Systems." "
172	4-5-2/11.5.2	Low expansion foam systems may be fitted in addition to the required fixed fire extinguishing system. In addition to the applicable requirements of the Rules, fixed low expansion foam systems are to be in accordance with Chapter 6.2.1 and Chapter 6.2.3 of the International Code for Fire Safety Systems. Foam concentrates are to be of an approved type.** * *Note:* Reference is made to the International Maritime Organization MSC/Circular 582 "Guidelines for the Performance and Testing Criteria, and Surveys of Low-Expansion Foam Concentrates for Fixed Fire-Extinguishing Systems." "
173	4-5-2/11.7	Revise to read "In addition to the requirements of the Rules, fixed water spraying systems are to be in accordance with Chapter 7 of the International Code for Fire Safety Systems.".
174	4-5-2/21	Revise to read "Any required fixed fire detection and fire alarm system is to meet the requirements in Chapter 9 of the International Code for Fire Safety Systems.".
174	4-5-2/23	Revise to read "Any required fixed sample extraction smoke detection system is to meet the requirements in Chapter 10 of the International Code for Fire Safety Systems.".
175	4-5-2/25.1	Reference "Regulation II-2/52" to read "Regulation II-2/7.5.5 and Regulation II-2/10.6.2".

Part 4 Vessel Systems and Machinery Chapter 6 Electrical Installations Section 1 General		
194	4-6-1/17.3.1i)	Delete "and is located outside of the machinery space(s)."

Part 4 Vessel Systems and Machinery Chapter 6 Electrical Installations Section 2 Shipboard Systems		
206	4-6-2/5.5.4	In last line of first paragraph, reference "4-6-2/3.9.5" to read "4-6-2/5.9.5".

Page No.	Paragraph	Comments
Part 4 Chapter 6 Section 3	Machinery and Systems Electrical Installations Shipboard Installation	
227	4-6-3/1.5	In first bullet, "list" to read "list/booklet".
228	4-6-3/1.5	Revise last paragraph to read: "When the selection of the equipment has been finalized, a list/booklet identifying all equipment in the hazardous areas, their method of protection (flameproof, intrinsically safe, etc.), rating (flammable gas group and temperature class), manufacturer's name, model number and evidence of certification is to be submitted for review. A copy of this list/booklet is to be maintained onboard for future reference. See 4-6-3/11.1.4."
228	4-6-3/3.1.1(b)	Title to read "Equipment in Areas Protected by Local Fixed Pressure Water-Spraying or Local Water-mist Fire Extinguishing Systems in Machinery Spaces".
246	4-6-3/11.7.1(b)	In second line, "ducts" to read "openings on the open deck".

Part 4 Chapter 6 Section 4	Vessel Systems and Machinery Electrical Installations Machinery and Equipment	
266	4-6-4/7.19.2	In last line, "within a period of at least 10 hours" to read "in not more than 10 hours".
270	4-6-4/13.1.1	In first bullet, "1,973 circ. mils" to read "1,973.5 circ. mils.".
270	4-6-4/13.1.1	In second bullet, "986.5 circ. mils" to read "986.8 circ. mils.".
270	4-6-4/13.1.1	In third bullet, "986.5 circ. mils" to read "986.8 circ. mils.".
270	4-6-4/13.1.1	In fourth bullet, "0.375 mm^2" to read "0.35 mm^2" and "739.9 circ. mils" to read "690.8 circ. mils.".
274	4-6-4/Table 3	Values in the following rows of Columns F and H to read: *Item No* / *F* / *H* 1: 90, 90 / 115, 115 2 a): 75, 90 / 95, 115 b): 75, 90 / 95, 115 c): 75, 90 / 95, 115 4 a): 90, 90 / 115, 115 5: 90 / 115 8: 90 / 115 9: 80 / 90 (4) Rows 3, 4b), 6 and 7 remain unchanged.

Page No.	Paragraph	Comments
Part 4 Vessel Systems and Machinery Chapter 6 Electrical Installations Section 5 Specialized Installations		
295	4-6-5/3.17.8(f)	Revise to read: "*3.17.8(f) Nameplates.* Nameplates of corrosion-resistant material are to be provided in an accessible position of the electric coupling and are to contain the following typical details: • Manufacturer's name, serial number and frame designation • Rated output and type of rating • Ambient temperature range • Rated voltage, speed and temperature rise • Rated exciter voltage and current"
298	4-6-5/7.1	Delete references "4-6-4/7.19.2(d)" and "4-6-4/7.19.2(3)".
300	4-6-5/Table 1	Delete 4-6-5/Table 1.

Part 4 Vessel Systems and Machinery Chapter 6 Electrical Installations Section 6 Specialized Vessels and Services		
311	4-6-6/7.3.1	Reference "Regulation II-2/3.16 of SOLAS 74 as amended" to read "Regulation II-2/3.12 of SOLAS 1974 as amended".

Part 4 Vessel Systems and Machinery Chapter 7 Shipboard Automatic or Remote Control and Monitoring Systems Section 1 General		
322	4-7-1/5.39	Reference "Appendix 1-1-A3 of the *Rules for Building and Classing Steel Vessels*" to read "Appendix 1-1-A3 of the ABS *Rules for Conditions of Classification (Part 1)*".

Part 4 Vessel Systems and Machinery Chapter 7 Shipboard Automatic or Remote Control and Monitoring Systems Section 2 General Systems Design and Arrangement Requirements		
337	4-7-2/Table 1	In last column of item 13, "stimulate" to read "simulate".
338	4-7-2/Table 1	In last column of item 14, "stimulate" to read "simulate".

Part 4 Vessel Systems and Machinery Chapter 7 Shipboard Automatic or Remote Control and Monitoring Systems Section 4 Vessels Classed with ACCU Notation		
346	4-7-4/3.9.3	In first paragraph, reference "1-1-A3/5.3 (AQS)/(RQS) or 1-1-A3/5.5 (PQA) of the of the *Rules for Building and Classing Steel Vessels*" to read "1-1-A3/5.3 (AQS)/(RQS) or 1-1-A3/5.5 (PQA) of the of the ABS *Rules for Conditions of Classification (Part 1)*".
346	4-7-4/3.9.3	In second paragraph, reference "1-1-A3/5.3 (RQS) of the *Rules for Building and Classing Steel Vessels*" to read "1-1-A3/5.3 (RQS) of the ABS *Rules for Conditions of Classification (Part 1)*".
346	4-7-4/3.9.3	In third paragraph, reference "1-1-A3/5.7.1(a) of the *Rules for Building and Classing Steel Vessels*" to read "1-1-A3/5.7.1(a) of the above-referenced Part 1".
346	4-7-4/3.9.3	In fourth paragraph, reference "1-1-A3/5.7.2 and 1-1-A3/5.7.4 of the *Rules for Building and Classing Steel Vessels*" to read "1-1-A3/5.7.2 and 1-1-A3/5.7.4 of the ABS *Rules for Conditions of Classification (Part 1)*".

Page No.	Paragraph	Comments
Part 4 Vessel Systems and Machinery Chapter 7 Shipboard Automatic or Remote Control and Monitoring Systems Section 4 Vessels Classed with ACCU Notation		
358	4-7-4/Table 4A	For Item B7, delete "(2, 6)" in Remarks column and add after "…mist – high".
361	4-7-4/Table 4B	For Item B4, delete "(3, 6)" in Remarks column and add after "…or equivalent device".
367	4-7-4/Table 7	For Item D1, delete "(2)" in Remarks column and add after "Oil mist concentration – high".

Part 5 Specialized Vessels and Services Chapter 8 Vessels Intended for Towing Section 1 General		
3	5-8-1/3.1	Reference "1-1-3/3" to read "1-1-3/3 of the ABS *Rules for Conditions of Classification (Part 1)*".
4	5-8-1/7	Reference "1-1-7/1" to read "1-1-4/1 of the Supplement to the ABS *Rules for Conditions of Classification (Part 1)*".

Part 5 Specialized Vessels and Services Chapter 8 Vessels Intended for Towing Section 5 Equipment		
11	Section 5-8-5	Reference "1-1-3/11" to read "1-1-3/11 of the ABS *Rules for Conditions of Classification (Part 1)*".

Part 5 Specialized Vessels and Services Chapter 9 Fire Fighting Vessels Section 1 General		
25	5-9-1/1	Reference "1-1-3/3" to read "1-1-3/3 of the ABS *Rules for Conditions of Classification (Part 1)*".

Part 5 Specialized Vessels and Services Chapter 9 Fire Fighting Vessels Section 2 Plans and Calculations		
27	5-9-2/1	Reference "Section 1-1-7" to read "Section 1-1-4 of the Supplement to the ABS *Rules for Conditions of Classification (Part 1)*" and "4-1-1/7" to read "4-1-1/7 of these Rules".

Part 5 Specialized Vessels and Services Chapter 10 Vessels Intended for Support Services to Offshore Installations Section 1 General		
45	5-10-1/3	Reference "1-1-3/3" to read "1-1-3/3 of the ABS *Rules for Conditions of Classification (Part 1)*".
45	5-10-1/5	Reference "1-1-7/1" to read "1-1-4/1 of the Supplement to the ABS *Rules for Conditions of Classification (Part 1)*".

Part 5 Specialized Vessels and Services Chapter 10 Vessels Intended for Support Services to Offshore Installations Section 4 Anchor Handling		
53	5-10-4/3	Reference "ABS *Guide for Certification of Cranes*" to read "Chapter 2, "Guide for Certification of Cranes", of the ABS *Guide for Certification of Lifting Appliances*".

Part 5 Specialized Vessels and Services Chapter 10 Vessels Intended for Support Services to Offshore Installations Section 6 Carriage of Limited Amounts of Hazardous and Noxious Liquid Substances		
57	Section 5-10-6	Add "as amended by IMO Resolutions MSC.236(82) and MEPC.158(55)" to end of first sentence.

Page No.	Paragraph	Comments
Part 5 Specialized Vessels and Services Chapter 10 Vessels Intended for Support Services to Offshore Installations Appendix 2 Damage Stability Guidelines for Offshore Support Vessels		
64	5-10-A2/5iii)	Reference "5-10-A2/5i), 5-10-A2/5ii), 5-10-A2/5iii) and 5-10-A2/5iv)" to read "5-10-A2/5i)".

Part 5 Specialized Vessels and Services Chapter 11 Oil Recovery Vessels Section 1 General		
69	5-11-1/Note	Note before Subsection 5-11-1/1 to read "The requirements of these Rules are applicable to vessels intended for recovery of oils of varying flash points. For vessels 500 gross tons and above intended for unrestricted service, the additional requirements of 5-11-3/5.3.4 and 5-11-5/3.5 also apply.".
69	5-11-1/1.1	Reference "1-1-3/3" to read "1-1-3/3 of the ABS *Rules for Conditions of Classification (Part 1)*".
69	5-11-1/1.3	Reference "1-1-3/3" to read "1-1-3/3 of the ABS *Rules for Conditions of Classification (Part 1)*".
69	5-11-1/3	Reference "Section 1-1-7" to read "Section 1-1-4 of the Supplement to the ABS *Rules for Conditions of Classification (Part 1)*" and "4-1-1/7" to read "4-1-1/7 of these Rules".

Part 5 Specialized Vessels and Services Chapter 12 Safety Standby Service Vessels Section 1 General		
87	5-12-1/1	Reference "1-1-3/3" to read "1-1-3/3 of the ABS *Rules for Conditions of Classification (Part 1)*".
87	5-12-1/3	Reference "Section 1-1-7" to read "Section 1-1-4 of the Supplement to the ABS *Rules for Conditions of Classification (Part 1)*" and "4-1-1/7" to read "4-1-1/7 of these Rules".

Part 5 Specialized Vessels and Services Chapter 13 Escort Vessels Section 1 General		
109	5-13-1/3	Reference "1-1-3/3" to read "1-1-3/3 of the ABS *Rules for Conditions of Classification (Part 1)*".

Part 5 Specialized Vessels and Services Chapter 13 Escort Vessels Section 2 Plans and Data		
111	5-13-2/1	Reference "Section 1-1-7" to read "Section 1-1-4 of the Supplement to the ABS *Rules for Conditions of Classification (Part 1)*".

Part 5 Specialized Vessels and Services Chapter 13 Escort Vessels Section 7 Vessel Design		
122	5-13-7/13	Reference "1-1-3/11" to read "1-1-3/11 of the ABS *Rules for Conditions of Classification (Part 1)*".

Part 5 Specialized Vessels and Services Chapter 14 Fishing Vessels Section 1 General		
131	5-14-1/1	Reference "1-1-3/3" to read "1-1-3/3 of the ABS *Rules for Conditions of Classification (Part 1)*".

Page No.	Paragraph	Comments
Part 5 Specialized Vessels and Services Chapter 14 Fishing Vessels Section 1 General		
132	5-14-1/9	Reference "Section 1-1-7" to read "Section 1-1-4 of the Supplement to the ABS *Rules for Conditions of Classification (Part 1)*" and "4-1-1/7" to read "4-1-1/7 of these Rules".

Part 5 Specialized Vessels and Services Chapter 14 Fishing Vessels Section 5 Machinery Equipment and Systems		
160	5-14-5/7	In fifth line, "water spry" to read "water spray".
160	5-14-5/7.1 and 7.3	Delete the following Paragraphs 5-14-5/7.1 and 7.3: **"7.1 Surveys After Construction** The surveys after construction, including gaugings, are to be carried out in accordance with the latest edition of the publication ABS *Rules for Surveys After Construction (Part 7)*. **7.3 Thickness Gauging** Thickness gauging is to be carried out in accordance with 7-3-2/5.1.14(a)."

Notices and General Information		
1	-----	Revise Item 1 of the Introduction, as follows: 1. "The year 2006 edition of the *Rules for Building and Classing Steel Vessels Under 90 meters (295 feet) in Length* is a complete reprint of the 2001 edition, consisting of the eight (8) booklets as shown in Table 1. With regard to three booklets, Part 1, Part 2, and Part 7:: a) The purpose of the generic title ABS *Rules for Conditions of Classification (Part 1)* is to reflect the expanded contents of PART 1, as a result of including consolidated requirements for "Classification" applicable to all types of and sizes of vessels, barges and specific shipboard arrangements/ systems, etc., except for those in offshore service, as specified in the Foreword to Part 1. Additional specific requirements are contained in Part 1 of these *Rules for Building and Classing Steel Vessels Under 90 meters (295 feet) in Length* b) The purpose of the generic title ABS *Rules for Materials and Welding* of PART 2 is to emphasize the common applicability of the requirements to ABS-classed vessels, other marine structures and their associated machinery, and thereby make PART 2 more readily a common "PART" of various ABS Rules and Guides, as appropriate. c) The purpose of the generic title ABS *Rules for Survey After Construction (Part 7)* is to reflect the expanded contents of PART 7, as a result of including consolidated requirements for "Surveys After Construction" applicable to all types and sizes of vessels, barges and specific shipboard arrangements/ systems, etc., as specified in Part 7, Chapter 1, Section 1."

Page No.	Paragraph	Comments
Notices and General Information		
2	Table 1	Revise Table 1 and add new Note, as follows:

Notices and General Information		2006
Part 1:	Rules for Conditions of Classification*	2008
Part 1:	Conditions of Classification (Supplement to the ABS *Rules for Conditions of Classification*)*	2006
Part 2:	Rules for Materials and Welding Rules for Testing and Certification of Materials Rules for Welding and Fabrication	2006
Part 3:	Hull Construction and Equipment	2006
Part 4:	Vessel Systems and Machinery	2006
Part 5:	Specialized Vessels and Services Chapter 8 Vessels Intended for Towing Chapter 9 Fire Fighting Vessels Chapter 10 Vessels Intended for Support Services to Offshore Installations Chapter 11 Oil Recovery Vessels Chapter 12 Safety Standby Service Vessels Chapter 13 Escort Vessels Chapter 14 Fishing Vessels	2006
Part 7:	Rules for Surveys After Construction	2006

Note: The requirements for conditions of classification are contained in the separate, generic ABS *Rules for Conditions of Classification (Part 1)*. Additional specific requirements are contained in Part 1 of these Rules.