

**PART II RULES FOR THE CONSTRUCTION
AND CLASSIFICATION OF SHIPS
IDENTIFIED BY THEIR MISSION**

**INTERNATIONAL CODE FOR THE
CONSTRUCTION AND EQUIPMENT OF SHIPS
CARRYING LIQUEFIED GASES IN BULK, 2006, AS
AMENDED**

TITLE 34 LIQUEFIED GAS CARRIER

PREAMBLE

CHAPTER A PREAMBLE

CHAPTER CONTENTS

A1. PREAMBLE

A1. PREAMBLE

101. The present Title 34 is a transcription of the **International Code for The Construction and Equipment of Ships Carrying Liquefied Gases in Bulk, 1983, as amended 1990, 1992, 1994, 1996, 2006.**

- a. The Code has been divided into Sections numbered according to the RBNA Rules (Part I, Title 01, Section 1, Chapter D) and procedures, but the original item numbers of the Code have been maintained immediately to the side of the RBNA item numbers.
- b. The term “Code” has been replaced by “Rules”.
- c. The term “Administration” has been replaced by RBNA except when “Administration” means the Port or Maritime Authority.
- d. This Preamble presents the correspondence between the Code Sections and the RBNA Sections, Chapters and Subchapter.
- e. That correspondence is given in Table T.A1.101.1 below.
- f. Texts which have originated from IMO, RBNA or IACS interpretations have been written in *italics as shown below*:

Example:

903. **IMO's interpretation (MSC/Circ.406/Rev.1) items B1.708 (2.7.8) and B1.801 (2.8.1):**
Longitudinal extent of damage to superstructure. The longitudinal extent of damage to superstructure in the instance of side damage to a machinery space aft under paragraph B1.801 (2.8.1) should be the same as the longitudinal extent.

End of example

- g. Texts which are taken from the Code have been marked by a line at the right side of the text as shown below:

Example

100. 1.1 Application

101. 1.1.1 The present Rules applies to ships regardless of their size, including those of less than 500 gross tonnage, engaged in carriage of liquefied gases having a vapour pressure.

End of example

102. Although some chapters, such as chapter 18 of the Code, are operational they have been maintained so as not to disrupt the text of the Code.

TABLE T.A1.101.1 – CORRESPONDENCE BETWEEN THE CODE SECTIONS AND CHAPTERS AND RBNA CHAPTERS, SUBCHAPTERS AND TOPICS

Code Section	Code Chapter	RBNA Section	RBNA Chapter	RBNA Subchapter	RBNA Topic	Description			
1		1	A	A.1		GENERAL			
	1.1				100	Application			
	1.2				200	Hazards			
	1.3				300	Definitions			
	1.4				400	Equivalents			
	1.5				500	Surveys and Certification			
2			1	B	B1		SHP SURVIVAL CAPABILITY AND LOCATION OF CARGO TANKS		
	2.1					100	General		
	2.2					200	Freeboard and intact stability		
	2.3					300	Shipside discharges below the freeboard deck		
	2.4					400	Conditions of loading		
	2.5					500	Damage assumptions		
	2.6					600	Location of cargo tanks		
	2.7					700	Flooding assumptions		
	2.8					800	Standard of damage		
	2.9					900	Survival requirements		
3				1	C	C1		SHIP ARRANGEMENTS	
	3.1						100	Segregation of the cargo area	
	3.2	200					Accommodation, service and machinery spaces and control stations		
	3.3	300					Cargo pump room and cargo compressor room		
	3.4	400					Cargo control items		
	3.5	500					Access to spaces in the cargo area		
	3.6	600					Air locks		
	3.7	700					Bilge, ballast and fuel oil arrangements		
	3.8	800	Bow or stern loading and unloading arrangements						
	4		6				A	A1	
4.1		100			General				
4.2		200			Definitions				
4.3		300			Design loads				
4.4		400			Structural analysis				
4.5		500			Allowable stresses and corrosion allowances				
4.6		600			Supports				
					A2			CARGO CONTAINMENT - <i>barriers and materials</i>	
4.7		100				Secondary barrier			
4.8		200		Insulation					
4.9		300		Materials					
				6	B	B1			CARGO CONTAINMENT - <i>Construction and testing</i>
4.10		100						Construction and testing	
					6	C		C1	

	4.11				100	Stress relieving
	4.12				200	Guidance formulae for acceleration components
	4.13				300	Stress categories
5		6	D	D1		PROCESS PRESSURE VESSELS AND LIQUID, VAPOUR AND PRESSURE PIPING SYSTEMS
	5.1				100	General
	5.2				200	Cargo and process piping
	5.3				300	Type tests on piping components
	5.4				400	Piping fabrication and joining details
	5.5				500	Testing of piping
	5.6				600	Cargo system valving requirements
	5.7				700	Ship cargo hoses
	5.8				800	Cargo transfer methods
	5.9				900	Vapour return connections
Code Section	Code Chapter	RBNA Section	RBNA Chapter	RBNA Subchapter	RBNA Topic	Description
6		2	A	A1		MATERIALS OF CONSTRUCTION
	6.1				100	General
	6.2				200	Material and requirements
	6.3				300	Welding and non-destructive testing
7		6	E	E1		CARGO PRESSURE / TEMPERATURE CONTROL
	7.1				100	General
	7.2				200	Refrigeration systems
8		6	F	F1		CARGO TANK VENTING SYSTEMS
	8.1				100	General
	8.2				200	Pressure relief systems
	8.3				300	Additional pressure relieving system for liquid level control
	8.4				400	Vacuum protection systems
	8.5				500	Size of valves
9		6	G	G1		ENVIRONMENTAL CONTROL
	9.1				100	Environmental control within cargo tanks and cargo piping systems
	9.2				200	Environmental control within the hold spaces (cargo containment systems other than type C independent tanks)
	9.3				300	Environmental control of spaces surrounding type C independent tanks
	9.4				400	Inerting
	9.5				500	Inert gas production on board
10		7	A	A1		ELECTRICAL INSTALLATIONS
	10.1				100	General
11		3	A	A1		FIRE PROTECTION AND FIRE EXTINCTION
	11.1				100	Fire safety requirements
	11.2				200	Fire water main equipment
	11.3				300	Water spray system
	11.4				400	Dry chemical powder fire-extinguishing system
	11.5				500	Cargo compressor and pump rooms
	11.6				600	Fire-fighter's outfit
12		3	B	B1		MECHANICAL VENTILATION IN THE CARGO AREA

	12.1				100	Spaces required to be entered during normal cargo handling operations			
	12.2				200	Spaces not normally entered			
13		6	H	H1		ENVIRONMENTAL CONTROL			
	13.1				100	General			
	13.2				200	Level indicators for cargo tanks			
	13.3				300	Overflow control			
	13.4				400	Pressure gauges			
	13.5				500	Temperature indicating devices			
	13.6				600	Gas detection requirements			
14		3	C	C1		PERSONNEL PROTECTION			
	14.1				100	Protective equipment			
	14.2				200	Safety equipment			
	14.3				300	First-aid equipment			
	14.4				400	Personnel protection requirements for individual products			
15		6	I	I1		FILLING LIMITS FOR CARGO TANKS			
	15.1				100	General			
	15.2				200	Information to be provided to the master			
	15.3				300	Application			
16		5	A	A1		USE OF CARGO AS FUEL			
	16.1				100	General			
	16.2				200	Arrangement of machinery spaces of category A			
	16.3				300	Gas fuel supply			
	16.4				400	Gas make-up plant and related storage tanks			
	16.5				500	Special requirements for main boilers			
	16.6				600	Special requirements for gas-fired internal combustion engines and gas-fired turbines			
17		ANNEX I	A	A1		SPECIAL REQUIEREMENTS – <i>Equipment and systems</i>			
	17.1				100	General			
	17.2				200	Materials of construction			
	17.3				300	Independent tanks			
	17.4				400	Refrigerated systems			
	17.5				500	Deck cargo piping			
	17.6				600	Exclusion of air from vapour spaces			
	17.7				700	Moisture control			
	17.8				800	Inhibition			
	17.9				900	Permanently installed toxic gas detectors			
				B	B1		SPECIAL REQUIREMENTS – <i>Protections</i>		
	17.10		100			Flame screens on vent outlets			
	17.11		200			Maximum allowable quantity of cargo per tank			
	17.12		300			Submerged electric cargo pumps			
									SPECIAL REQUIREMENTS – <i>Requirement for certain products I</i>
	17.13		100			Ammonia			
	17.14		200			Chlorine			
	17.15		300			Diethyl ether and vinyl ethyl ether			
	17.16		400			Ethylene oxide			
	17.17		500			Isopropylamine and monoethylamine			
17.18	600	Methyl acetylene-propadiene							

						mixtures
	17.19				700	Nitrogen
	17.20				800	Propylene oxide and mixtures of ethylene oxide – propylene oxide with ethylene oxide content of not more than 30% by weight
	17.21				900	Vinyl chloride
			C	C1		SPECIAL REQUIREMENTS – <i>Mixed C4 cargoes</i>
	17.22				100	Mixed C4 cargoes
18		ANNEX II	A	A1		OPERATING REQUIREMENTS
	18.1				100	Cargo information
	18.2				200	Compatibility
	18.3				300	Personnel training
	18.4				400	Entry into spaces
	18.5				500	Carriage of cargo at low temperature
	18.6				600	Protective equipment
	18.7				700	Systems and controls
	18.8				800	Cargo transfer operations
19		ANNEX III	A	A1		SUMMARY OF MINIMUM REQUIREMENTS
	19.1				100	Explanatory notes to the summary of minimum requirements
	19.2				200	Products

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