



Record of Approved Cargo Ship Safety Equipment

This record must be kept on board at all times and be available for inspection by a nominated surveyor or recognised organisation

Record no:

9625231/03

Page 1 of 34

To meet the provisions of the International Convention for the Safety of Life at Sea, 1974, and amendments thereto including July 2002;

Name of ship HOOGVLIET	Signal letters PCRO	IMO number 9625231	Yard number 9414	Gross Tonnage 2597
Port of registry ROTTERDAM	Flag Netherlands	Date keel laid 14/12/2010		

Class

✱ 100 A1, ✱ LMC, UMS, Ice 1E, Descriptive Note: ShipRight IHM, ShipRight (SCM), ShipRight ACS(B)

Builders Damen Shipyards Bergum	Names of any known sister ships HARINGVLIET	Previous name and flag N/A
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Type of ship

General Cargo

Name and address of owners, managers or managing agents

Owner: Beheersmaatschappij ms Hoogvliet BV, Debuyssysstraat 2, 3161 WD Rhoon (The Netherlands)

Registered length (m) 84.99	Overall length (m) 88.60	B.P. length (m) 84.99	Maximum breadth (m) 12.67
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Engine manufacturer Caterpillar Motoren GmbH & Co KG, Kiel (Germany)	Total number 1
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Model type Mak 8M20C	Power output (kW) 1520
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Auxiliaries 1 x Sisu Diesel, type 74CTAG-4	Output (kW) 182
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Main boilers - type N/A	Total number 0
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Auxiliary boilers - type 1 x hotwaterboiler, IVAR SUPERAC 230	Total number 1
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The total number of persons provided for by life saving appliances is 10 and no more, viz. (10 crew and 0 special personnel)

Number		Persons	Type of Lifeboat
0	Lifeboats on portside capable of accommodating	0	-----
0	Lifeboats on starboard side capable of accommodating	0	-----
0	Motor lifeboats (included in the total lifeboats shown above)		
0	Free-fall lifeboats capable of accommodating	0	-----
1	Rescue boats (not included* in the total lifeboats shown above) capable of accommodating	6	
0	Liferafts for which approved launching appliances are required capable of accommodating	0	
2	Liferafts for which approved launching appliances are not required capable of accommodating	20	
0	Liferafts stowed forward / aft* capable of accommodating	0	

Required	Provided	
8	8	Lifebuoys
14	14	Lifejackets
14	14	Immersion suits
0	0	Thermal protective aids (excluding these provided for lifeboat/raft and rescue boat equipment, i.e. sections 3.7.45, 3.12.32 and 3.19.17)

* Delete as appropriate

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	1.1	Fire Control Plans (Ch II-2/15.2.4)	
Yes	1.1.1	To be in national language state language	English
Yes	1.1.2	If national language is not English or French then state translation language	Dutch
Yes	1.1.3	Duplicate set of fire plans stored outside deckhouse	
Yes	1.1.4	Symbols in accordance with the Recommendations of the Organisation	
	1.2	Muster List and Emergency Instructions (Ch III/8 & 37)	
Yes	1.2.1	Muster list including manning of fire parties and emergency procedures in a language understood by the ship's complement are posted in several parts of the ship, particularly;	
Yes	1.2.2	In the crew's quarters	
Yes	1.2.3	In the engine room	
Yes	1.2.4	On the navigating bridge	
	1.3	Nautical Publications (Ch V/27 & 19)	
Yes	1.3.1	Adequate and up-to-date charts, sailing directions, lists of lights, notices to mariners, tide tables and other nautical publications necessary for the intended voyage are provided to the master's satisfaction.	
Yes	1.3.2	ECDIS is used instead of paper charts	
Yes	1.3.3	Backup for ECDIS is available (can be paper charts)	
Yes	1.3.4	Electronic Nautical Publications Are Carried	
Yes	1.3.5	Backup for Electronic nautical Publications	
	1.4	International Code of Signals & IAMSAR Manual (Ch V/21) and Life Saving Signals Table (Ch V/29)	
Yes	1.4.1	Copy of current edition of the International Code of Signals is provided.	
Yes	1.4.2	Illustrated table of life saving signals provided	
Yes	1.4.3	Copy of the IAMSAR Manual is provided.	
	1.5	Training Manual (Ch III/35 and Ch II-2/15.2.3 & 16))	
Yes	1.5.1	Training manuals containing instructions and information in easily understood terms which illustrate the use of lifesaving appliances and methods of survival are provided on the ship.	
Yes	1.5.2	Training manuals for fire safety practice provided (II-2/15.2.3)	
Yes	1.5.3	Fire safety operational booklet provided (II-2/16) may be combined with 1.5.2 above.	
	1.6	Instructions for Onboard Maintenance and Operational Readiness (Ch III/36 and II-2/14)	
Yes	1.6.1	Instructions for onboard maintenance of life-saving appliances, illustrated where possible are provided.(Ch III/36)	
Yes	1.6.2	Maintenance plan for fire safety measures provided, may be computer based (Ch II-2/14)	
	1.7	Operating Instructions (Ch III/9)	
Yes	1.7.1	Poster or signs are provided on or in the vicinity of survival craft and their launching controls which illustrate their use.	
	1.8	Additional Information	
		Item Number	Comment
Yes	1.9	Record of inspections, maintenance work and repairs of accommodation ladders and gangways	

Section 2.0: Safety of Navigation (Chapter V/19)

	2.1	Shipborne Navigational Equipment	Manufacturer	Type	Serial Number
	2.1.1	Standard magnetic compass	Lilley & Gillie	MK2000 SR4	129900135
	2.1.2	Steering magnetic compass, OR display at steering position	Lilley & Gillie -	P1920 GS720	12P1920001 124720032
	2.1.3	Means of communication between standard compass and normal navigational control position	Portable VHF (GMDSS)	Sailor SP3520	---
	2.1.4	Means of taking bearings through 360° (Pelorous or compass bearing device)	Lilley & Gillie	Azimuth Mirror/Circ.	119011118
	2.1.5	Magnetic compass table of residual deviation (means of correcting heading & bearing to true)	Provided	-	-
	2.1.6	Spare magnetic compass	Lilley & Gillie	MK2000 SR4	129900136
	2.1.7	Gyro compass	Raytheon Anschütz GmbH	Digital Gyro STD22	400381300383 0
	2.1.7.1	Gyro compass bearing repeater	Raytheon Anschütz GmbH	BST2223	700329300015 3
	2.1.7.2	Heading or track control system	Raytheon Anschütz GmbH	NP5300	400340900011 0
	2.1.7.3	Transmitting Heading Device (THD)	N/A	-	-
	2.1.8	Heading information at emergency steering position	Raytheon Anschütz GmbH	BST1028	400276900014 1
	2.1.9	Radar number one, (state band in 'type' column)	Raytheon Anschütz GmbH	BST8820 (X-band)	400308800011 0
	2.1.10	Radar number two, (state band in 'type' column)	Raytheon Anschütz GmbH	BST8820 (X-band)	400308800011 1
	2.1.11	Radar plotting facilities/Electronic plotting aid (EPA)	Provided on radars	-	-
	2.1.12	Automatic radar plotting aid (ARPA)	Provided on radars	-	-
	2.1.12.1	Automatic Tracking Aid (ATA)	Provided on radars	-	-
	2.1.12.2	Second Automatic Tracking Aid	Provided on radars	-	-
	2.1.12.3.1	Automatic Identification System (AIS)	Saab	R5 Solid Ais System	-
	2.1.12.3.2	Long-range identification and tracking system (LRIT) fitted to the GMDSS equipment	Sailor	6110 Mini-C	4TT0944EA3B E
	2.1.12.3.3	Long-range identification and tracking system (LRIT) provided as non-GMDSS equipment	N/A	-	-
	2.1.12.4.1	Voyage Data Recorder (VDR)	N/A	-	-
	2.1.12.4.2	Simplified Voyage Data Recorder (S-VDR)	N/A	-	-
	2.1.13	Echo sounder	Furuno	FE-700	2260-5473

Section 2.0: Safety of Navigation (Chapter V/19) (Continued)						
		Shipborne Navigational Equipment		Manufacturer	Type	Serial Number
	2.1.14	Speed and distance indicator		Furuno	DS-80	13504
	2.1.14.1	Speed and distance measuring device (over the ground in the forward and athwartships direction)		N/A	-	-
	2.1.15	Rudder angle indicator		Van der Velden Radio Holland	Panorama Sigma 500	--- 1211
	2.1.16	Propeller revolution counter		Noris	Analog	-
	2.1.17	Propeller pitch and mode indicator		Berg Propulsion	Analog	-
	2.1.18	Rate of turn indicator		Radio Holland	Sigma 500	1211
	2.1.19	Telephone to emergency steering position		Alphatronic (Panasonic)	Alphaconnect 48	-
	2.1.20	Electronic Chart Display and Information System (ECDIS)		Transas	Navisailor 4000	TAGGE1025307
	2.1.20.1	Electronic ECDIS back-up or 2nd ECDIS		Transas	Navisailor 4000	TAGH1011256
	2.1.21	Bridge navigational watch alarm system (BNWAS)		Marble	MS-421B	MBL20121429 MS-42/B
	2.1.22	Receiver for a global navigation satellite system (GNSS) or terrestrial radionavigation system		Furuno	--	--
	2.2	Head/Track Control System (Autopilot) (Ch V/19)				
Yes	2.2.1	Is the system provided with an emergency source of power?				
Yes	2.2.2	Where a system is fitted, clear instructions are provided at the control console on change-over procedure from automatic to manual steering and vice-versa				
Yes	2.2.3	Is the system fitted with an off-course alarm?				
	2.3	Steering Gear (Ch V/26)				
Yes	2.3.1	Simple operating instructions with a block diagram showing the change-over procedure for remote steering gear control systems and steering gear power units are permanently displayed on the navigating bridge and in the steering gear compartment				
	2.4	Signalling Apparatus (Ch V/19 and revised Collision Regulations 1972)				
		Apparatus	Number of units	Manufacturer	Type/Description	Serial number
	2.4.1	Daylight signalling lamps	1	IBAK Kiel	NHS 200H BG	5026916
		Source of power			Main and Battery	
	2.4.2	Forecastle bell	1		300mm Brass	
	2.4.3	Gong (with striker)	N/A		-	-
	2.4.4	Ship's whistle	1	Kockum Sonics AB	Electro Tyfon MT150-130	-
	2.4.5	3 black ball shapes	3		Folding Canvas	
						Wheelhouse
						Wheelhouse
						Forecastle Deck
						-
						Topdeck
						Wheelhouse
						Wheelhouse
						Foreship

Section 2.0: Safety of Navigation (Chapter V/19) (Continued)							
	2.4.6	1 black diamond shape	1		Folding Canvas		Wheelhouse
	2.4.7	Cylindrical shape (if applicable)	N/A		---		---
Yes	2.4.8	If only one electrically powered whistle is fitted it is provided with both main and emergency power supply?					
	2.5	Navigation Lights (Revised Collision Regulations 1972)					
	2.5.1	Application of revised Collision Regulations 1972 as amended to July 2002 The following information may be obtained from plans, if available.					
	2.5.2	Horizontal distance in metres	Foremast light abaft top of stem	6.42	Between foremast and mainmast lights (m)	80.0	
	2.5.3	Vertical height of Foremast light & Mainmast light in metres above waterline in condition of maximum trim by stern	Foremast light	14.46	Mainmast lights	17.80	
	2.5.4	Vertical height in metres above uppermost continuous deck	Sidelights	8.150	Foremast light	12.00	Mainmast light 16.50
		Light	Power type	Miles Range	Two tier type?	Power Source (Ch II-I/41 & 43)	
	2.5.5	Fore masthead (225°, white)	Electric	6	Yes	Main and Emergency	
	2.5.6	Main masthead (225°, white)	Electric	6	Yes	Main and Emergency	
	2.5.7	Port side (112.5°, red)	Electric	3	Yes	Main and Emergency	
	2.5.8	Starboard side (112.5°, green)	Electric	3	Yes	Main and Emergency	
	2.5.9	Stern (135°, white)	Electric	3	Yes	Main and Emergency	
	2.5.10	Towing (135°, yellow)	-----	0	-----	-----	
	2.5.11	Anchor (1) (360°, white)	Electric	3	Yes	Main and Emergency	
	2.5.12	Anchor (2) (360°, white)	Electric	3	Yes	Main and Emergency	
	2.5.13	NUC (1) (red)	Electric	3	Yes	Main	
	2.5.14	NUC (2) (red)	Electric	3	Yes	Main and Emergency	
	2.5.15	RAM (white)	-----	0	-----	-----	
Yes	2.5.16	At least one complete set of spare bulbs is provided					
Yes	2.5.17	Sidelights fitted with inboard screens painted matt black					
Yes	2.5.18	Do the positions of the navigation lights comply with 1972 Collision Regulations?					
	2.6	Pilot transfer arrangements (Ch V/23)					
Yes	2.6.1	State whether bulwark ladder, hinged rail section or inward-opening shipside pilot door.				Hinged Rail Section	
Yes	2.6.2	Man ropes provided for embarkation and disembarkation of pilots with provisions for adequate overside lighting at night					
	2.6.3	Lifebuoy with light and a heaving line located close by are provided.					
	2.6.4	Pilot ladder (Ch V/23)	Make	PTR Holland BV		Standard to which approved	IMO Res.A889(21)
			Number	1		Date of Installation	30 January 2013
			Length (m)				
Yes	2.6.4.1	All pilot ladders clearly identified with tags or other permanent marking so as to enable identification of each appliance for the purposes of survey, inspection and record keeping. A record kept on the ship as to the date the identified ladder is placed into service and any repairs effected.					
	2.6.5	Pilot ladder winch reels (if provided) (Ch V/23)	Make	N/A		Standard to which approved	---
			Number	---		Date of Installation	---

Section 2.0: Safety of Navigation (Chapter V/23)							
N/A	2.6.6	Pilot transfer arrangements (Ch V/23) - Accommodation Ladder(s) and Winches					
	2.6.6.1	The ladder(s) meet applicable international standards (such as ISO 5488:1979, <i>Shipbuilding - accommodation ladders</i>) and/or national standards and/or other requirements recognized by the Administration					
	2.6.6.2	Make		Standard to which approved			
		Material of construction		Position			
		Number		Length (m)			
N/A	2.6.6.3	Ladder(s) are sited within the parallel body length of the ship and, as far as is practicable, within the mid-ship half length of the ship.					
N/A	2.6.6.4	Each ladder is clearly marked at each end with a plate showing the restrictions on the safe operation and loading					
N/A	2.6.6.5	Winches (if provided)	Make		Source of power		
			Material of falls		Construction		
			Number		Length (m)		Diameter (mm)
N/A	2.7	Means of Embarkation and Disembarkation (Ch II-1/3-9) - Accommodation Ladder(s) and Winches					
	2.7.1	The ladder(s) meet applicable international standards (such as ISO 5488:1979, <i>Shipbuilding - accommodation ladders</i>) and/or national standards and/or other requirements recognized by the Administration					
	2.7.2	Make		Standard to which approved			
		Material of construction		Position			
		Number		Length (m)			
N/A	2.7.3	Ladder(s) are sited clear of the working area and are not placed where cargo or other suspended loads may pass overhead.					
N/A	2.7.4	Adequate lighting is provided to illuminate the ladder(s), the position on deck where persons embark or disembark and the controls of the arrangement.					
N/A	2.7.5	A lifebuoy equipped with a self-igniting light and a buoyant lifeline is available					
N/A	2.7.6	The length of the accommodation ladder is adequate					
N/A	2.7.7	Direct access is provided between the head of the ladder and the ship's deck by a platform securely guarded by handrails and adequate handholds. The ladder is securely attached to the ship to prevent overturning.					
N/A	2.7.8	Where the height of the embarkation/disembarkation deck exceeds 20 m above the waterline, alternative means of providing safe access to the ship or supplementary means of safe access to the bottom platform of the accommodation ladder have been accepted.					
N/A	2.7.9	Each ladder is clearly marked at each end with a plate showing the restrictions on the safe operation and loading					
N/A	2.7.10	A safety net is provided					
N/A	2.7.11	Winches (if provided) (Ch II-1/3-9)	Make		Source of power		
			Material of falls		Construction		
			Number		Length (m)		Diameter (mm)

Section 2.0: Safety of Navigation (Chapter V/23) (Continued)

N/A	2.8	Means of Embarkation and Disembarkation (Ch II-1/3-9) – Gangways, including wharf ladders			
	2.8.1	The gangway(s) meet applicable international standards (such as ISO 7061:1993, <i>Shipbuilding – aluminium shore gangways for seagoing vessels</i>) and/or national standards and/or other requirements recognized by the Administration			
	2.8.2	Make	De Toekomst	Standard to which approved	NEN-EN 7061
		Material of construction	Aluminium	Position	SB + PS Aftship
		Number	1	Length (m)	7.0 meter
		Design angles of inclination (max/min)	30		
Yes	2.8.3	Gangway(s) are sited clear of the working area and are not placed where cargo or other suspended loads may pass overhead.			
Yes	2.8.4	Adequate lighting is provided to illuminate the ladder(s), the position on deck where persons embark or disembark and the controls of the arrangement.			
Yes	2.8.5	A lifebuoy equipped with a self-igniting light and a buoyant lifeline is available			
Yes	2.8.6	The intended angle of operation is within acceptable design limits			
Yes	2.8.7	Where secured to a ship's guardrail, the guardrail has been designed for that purpose.			
Yes	2.8.8	Where positioned through an open section of bulwark or railings, any remaining gaps are adequately fenced.			
Yes	2.8.9	Each ladder is clearly marked at each end with a plate showing the restrictions on the safe operation and loading			
Yes	2.8.10	A safety net is provided			

Record no:

9625231/03

Page 8 of 34

Section 2.0: Safety of Navigation (Chapter V) (Continued)

2.9	Additional Information	
	Item number	Comment
	2.1	One (1) (D)GPS Receiver Make: Saab Type: R4 S/N: 129381
	2.1	One (1) INMARSAT-C Installation (SSAS) Make: Sailor Type: 6110 Mini-C S/N: 4TT094897D21 / 12120972
	2.1	One (1) INMARSAT-C Installation (LRIT) Make: Sailor Type: 6110 Mini-C S/N: 4TT094DD6840 / 12120965
	2.1	One (1) printer for INMARSAT-C Installation (LRIT) Make: Sailor Type: H1252B/TT-3608A S/N: 80602310
	2.1	One (1) NAVTEX Receiver Make: Furuno Type: NX700 S/N: 85272931
	2.1	One (1) Riverpilot Make: Radio Holland Type: Sigma 500 S/N: 1211

Section 3.0: Life-Saving Appliances

	3.1	Rockets and Signals (Ch III/6 & 18 & LSA Code)				
	3.1.1	Line throwing appliances with 4 rockets and lines		Wheelhouse		
	3.1.2	12 parachute distress signals		Wheelhouse		
	3.1.3	Additional rockets and signals if provided		N/A		
	3.2	Communications	Make	Type	Serial Number	Location
	3.2.1	Two-way VHF radio telephone apparatus (minimum of 3)*	Thrane & Thrane	SP3520	80599455	Wheelhouse
			Thrane & Thrane	SP3520	80582291	Wheelhouse
			Thrane & Thrane	SP3520	80597301	Wheelhouse
	3.2.2	Search and rescue locating device (AIS/SART or SART) (minimum of 2) (If vessel has a freefall lifeboat one to be stowed within it)	Mc Murdo	S4 Rescue SART	54/12-42236	Wheelhouse
			Mc Murdo	S4 Rescue SART	54/12-42174	Wheelhouse
	*For cargo ships of 300grt and upwards but less than 500grt at least 1 search and rescue locating device (AIS/SART or SART) and 2 two-way VHF radiotelephone apparatus shall be provided					
Yes	3.2.3	On board means are provided for two-way communications between emergency control stations, muster and embarkation stations and strategic positions on the ship				
	3.3	Survival craft, muster, launching and embarkation arrangement, launching station, stowage of survival craft and rescue boat (Ch. III/11, 12, 13, 14, 16, 17 and LSA Code)				
Yes	3.3.1	Muster station provided close to embarkation station				
Yes	3.3.2	Muster and embarkation station, survival craft and rescue boat launching appliance, area of water into which survival craft and rescue boats are launched, provided with adequate lighting				
Yes	3.3.3	Lighting also supplied from emergency source of power				
Yes	3.3.4	a Muster and embarkation stations are arranged to enable stretcher cases to be placed in survival craft				
Yes		b An embarkation ladder in single length from the deck to the lightest seagoing waterline under unfavourable trim and list, is provided at each launching station, or				
N/A		c one at every two adjacent launching sites				
Yes	3.3.5	Launching station arranged to be clear of propeller and steeply overhanging portions of the hull.				
Yes	3.3.6	Survival craft and rescue boats are stowed so that they and their arrangement will not interfere with each other.				
Yes	3.3.7	Means are provided for preventing discharge of water into survival craft				
N/A	3.3.8	If there is a danger of the survival craft being damaged by ship's stabiliser fins, are means provided to bring the fins aboard using an emergency source of power				
N/A	3.3.9	A stabiliser fin position indicator is provided on navigation bridge				
Yes	3.3.10	Only one type of release mechanism, used for similar survival craft.				
Yes	3.3.11	Means are provided for holding survival craft against the ship's side.				
N/A	3.3.12	Indicate the maximum angle of trim and list against which survival craft can be launched if greater than 10° and 20° respectively (Tankers, chemical tankers and gas carriers).				

Section 3.0: Life-Saving Appliances (Continued)

	3.4	Location of Survival Craft and Rescue Boats				
		State positions of lifeboats, liferafts, and rescue boats in the table below. (Number each boat or raft from forward, odd numbers starboard side, even numbers port side)				
		Type	Boat/Raft Number	Location		
				Deck	Position	
	3.4.1	Dedicated Rescue Boat	1	Boatd.	Boatdeck PS	
	3.4.2	Liferaft	1	Boatd.	Boatdeck SB	
	3.4.3	Liferaft	2	Boatd.	Boatdeck PS	
	3.4.4	----				
	3.4.5	----				
3.4.6	----					
3.4.7	----					
3.4.8	----					
N/A	3.5	Lifeboats (Ch III/31)	No. 1	No. 2	No. 3	No. 4
	3.5.1	Capacity - number of persons	N/A	N/A	N/A	N/A
	3.5.2	Weight - fully loaded and equipped	---	---	---	---
	3.5.3	Material of boat	---	---	---	---
	3.5.4	Length (m)	---	---	---	---
	3.5.5	Breadth (m)	---	---	---	---
	3.5.6	Depth (m)	---	---	---	---
	3.5.7	Cubic capacity (m)	---	---	---	---
	3.5.8	Free-fall	---	---	---	---
	3.5.9	Enclosure type				
	3.5.10	Propulsion type				
	3.5.11	Self-righting	---	---	---	---
	3.5.12	With external fire-protection	---	---	---	---
	3.5.13	With self-contained air supply system	---	---	---	---
	3.5.14	Manufacturer	---	---	---	---
	3.5.15	Model/type	---	---	---	---
	3.5.16	Serial Number				
	3.5.17	Approval authority	---	---	---	---
	3.5.18	Is the lifeboat used as a rescue boat?	---	---	---	---
	3.5.19	Capacity (number of persons) if less than the above when used as a rescue boat	---	---	---	---
	3.5.20	Simultaneous release mechanism for releasing lower fall blocks from lifting hooks is fitted.				
		On-load release mechanism complies with LSA Code as amended by MSC.320(89)				----
		Release Hook Model/Type	---	Manufacturer	---	
		Serial Numbers	---	---	---	---
			---	---	---	---

Section 3.0: Life-Saving Appliances (Continued)								
N/A	3.5.20.1	(a) Able to operate when the lifeboat is waterborne or there is no load on the hooks, and						
N/A	3.5.20.2	(b) with a load on the hooks of 1.1 times the mass of the boat when loaded with its full complement of persons and equipment						
N/A	3.5.20.3	The 'on load' capability is adequately protected against accidental or premature release						
N/A	3.6	Lifeboat Launching Appliances (LSA Code)						
	3.6.1	Launch track and recovery arrangement provided for free-fall lifeboat.						
	3.6.2	Davits	Maker	---				
		Type	---		SWL (kg)	---		
	3.6.3	Winches	Maker	---				
		Serial Number	---		SWL (kg)	---		
	3.6.4	Falls (P)	Length (m)	---	Diameter (mm)	---	Breaking Load (kg)	---
		Corrosion resistant	---			Rotation resistant	---	
		Falls (S)	Length (m)	---	Diameter (mm)	---	Breaking Load (kg)	---
		Corrosion resistant	---			Rotation resistant	---	
		Falls Construction	Material	---				
		Core type	---	Number of wires per strand	---	Number of Strands	---	
	3.6.5	Means of launching lifeboats		---				
		Maximum number of persons on board the fully equipped lifeboat that the launching appliance is capable of recovering					---	
	N/A	3.6.6	The launching appliance operator on the ship is able to observe survival craft at all times during launching and recovery.					

Section 3.0: Life-Saving Appliances (Continued)

	3.7	Each lifeboat is equipped as shown below (LSA Code)	Boat No.1	Boat No.2	Boat No.3	Boat No.4
	3.7.1	Number of persons the boat is certified to carry	N/A	N/A	N/A	N/A
	3.7.2	Rowing oars (Except Freefall boats)	---	---	---	---
	3.7.3	Steering oar if applicable	---	---	---	---
	3.7.4	Thole pin and crutch permanently attached or equivalent arrangement, one for each oar. (Except freefall boats).	---	---	---	---
	3.7.5	Plugs with chain attached, one for each drain valve	---	---	---	---
	3.7.6	Number of automatic drain valves fitted.	---	---	---	---
	3.7.7	Rudder (attached) with tiller	---	---	---	---
	3.7.8	Lifeline becketed around the outside of the boat or suitable handholds	---	---	---	---
	3.7.9	Bilge pumps manually operated (1) or automatic self bailing	---	---	---	---
	3.7.10	Lockers for small items of equipment.	---	---	---	---
	3.7.11	Painter (1) secured to stem (with release device able to be released under tension for davit launched boats) painter (1) secured forward	---	---	---	---
	3.7.12	Painters (2) of at least 15m in length (freefall lifeboats only)	---	---	---	---
	3.7.13	Boat hooks (2)	---	---	---	---
	3.7.14	Food rations of approved type in airtight receptacles stowed in watertight containers totalling not less than 10 000kJ per person.	---	---	---	---
	3.7.15	Freshwater, 3 litres or 6 pints per person in a watertight receptacle	---	---	---	---
	3.7.16	Desalting apparatus, which may replace 1l per person or 2l if reverse osmosis type.	---	---	---	---
	3.7.17	Parachute signals, red (4)	---	---	---	---
	3.7.18	Hand flares, red (6)	---	---	---	---
	3.7.19	Buoyant smoke signals, orange (2)	---	---	---	---
	3.7.20	Baler, buoyant (1)	---	---	---	---
	3.7.21	Buckets with lanyard (2)	---	---	---	---
	3.7.22	Hatchets with lanyard, one at each end of boat (2)	---	---	---	---
	3.7.23	Compass in binnacle, efficiently luminized or illuminated at steering position	---	---	---	---
	3.7.24	Sea anchor (1) with shock resistant hawser and a tripping line	---	---	---	---
	3.7.25	Dipper, rust proof with lanyard (1)	---	---	---	---
	3.7.26	Graduated drinking vessel, rust proof (1)	---	---	---	---
	3.7.27	First aid outfit, approved type in watertight case (1)	---	---	---	---
	3.7.28	Electric torch, waterproof, suitable for morse code signalling (1), with spare set of batteries and spare bulb in waterproof container.	---	---	---	---
	3.7.29	Daylight signalling mirror (1)	---	---	---	---
	3.7.30	Jack-knife attached to boat with lanyard (1)	---	---	---	---
	3.7.31	Whistle or equivalent sound signal (1)	---	---	---	---
	3.7.32	Fishing tackle (1 set)	---	---	---	---
	3.7.33	Lifesaving signals on a waterproof card or in a waterproof container	---	---	---	---
	3.7.34	Short ladder or other means of climbing into upright boat from the water	---	---	---	---
	3.7.35	Skates or fenders (and skids if required) to facilitate launching against adverse list	---	---	---	---
	3.7.36	Hand holds on underside of hull (only required on non self-righting lifeboats.	---	---	---	---
	3.7.37	A survival manual	---	---	---	---
	3.7.38	Six doses for anti-seasickness medicine per person	---	---	---	---

Section 3.0: Life-Saving Appliances (Continued)

3.7	Each lifeboat is equipped as shown below (continued)	Boat No.1	Boat No.2	Boat No.3	Boat No.4
3.7.39	One sea-sickness bag per person	N/A	N/A	N/A	N/A
3.7.40	Tin openers (3)	---	---	---	---
3.7.41	Buoyant rescue quoits (2) attached to not less than 30m of buoyant line	---	---	---	---
3.7.42	Searchlight (1)	---	---	---	---
3.7.43	Efficient radar reflector	---	---	---	---
3.7.44	Search and rescue locating device (AIS/SART or SART)	---	---	---	---
3.7.45	Thermal protective aids (for 10% or 2 persons whichever is the greater)	---	---	---	---
3.7.46	Manually controlled internal and external lamps able to be operated for at least 12 hours	---	---	---	---
3.7.47	Sufficient tools for minor adjustments to the engine and its accessories	---	---	---	---
3.7.48	A safety belt fitted to each seating position (totally enclosed lifeboats only)	---	---	---	---
3.7.49	If the antenna of fixed two-way VHF radiotelephone is separately mounted, arrangements are provided for it to be secured effectively in its operating position	---	---	---	---
3.8	Additional requirements for open lifeboats				
3.8.1	Bilge keel or rails	---	---	---	---
3.8.2	Grablines gunwale to gunwale (2 minimum)	---	---	---	---
3.8.3	Light buoyant heaving lines (2)	---	---	---	---
3.8.4	Mast with galvanised wire stays and orange sail (not required for motor or mechanically propelled boats)	---	---	---	---
3.8.5	Cover, highly visible, for protecting occupants	---	---	---	---
3.8.6	Lamp with sufficient oil for 12 hours	---	---	---	---
3.8.7	Matches in watertight container	---	---	---	---
3.8.8	Storm oil 4.5 litres (1 gallon)	---	---	---	---
3.8.9	Storm oil container, for attaching to sea anchor	---	---	---	---
3.8.10	Bowsing tackles to hold boat against ship's side	---	---	---	---
3.8.11	Number of rowing thwarts	---	---	---	---
3.9	Additional Requirements For Partially Enclosed Lifeboats if Vessel Trades on Restricted Service (Ch III/42)				
3.9.1	An effective means of bailing, or fitted with automatic self-bailing arrangements	---	---	---	---
3.9.2	A permanently attached foldable rigid anti-exposure cover in way of open part of boat	---	---	---	---
3.9.3	Foldable cover is provided with means of collecting water	---	---	---	---
3.10	Motor Details				
3.10.1	Engine type, diesel	---	---	---	---
3.10.2	Engine power (kW)	---	---	---	---
3.10.3	Starting system with two independent rechargeable energy sources	---	---	---	---
3.10.4	Speed ahead in smooth water fully loaded (knots)	---	---	---	---
3.10.5	Fuel capacity sufficient for 24 hours running, litres	---	---	---	---
3.10.6	Fire extinguisher, portable, suitable for oil fires	---	---	---	---
3.10.7	Propeller guard is provided	---	---	---	---
3.10.8	Exhaust pipe is provided with means to prevent ingress of water to engine	---	---	---	---
3.10.9	Engine transmission and accessories are enclosed in the fire retardant casing	---	---	---	---
3.10.10	Means are provided for recharging engine starting, radio (if provided) and searchlight batteries	---	---	---	---
3.10.11	Water resistant instructions for starting and operating the engines are provided	---	---	---	---

Section 3.0: Life-Saving Appliances (Continued)

3.11	Marking of Boats (LSA Code)	Boat No.1	Boat No.2	Boat No.3	Boat No.4
3.11.1	Dimensions and/or number of persons it is permitted to carry permanently marked thereon	N/A	N/A	N/A	N/A
3.11.2	Name and port of registry of the ship to which the lifeboat belongs painted on each side of the bow	---	---	---	---
3.11.3	It is possible to identify the ship to which the lifeboat belongs and the number of the lifeboat from above	---	---	---	---
3.12	Rigid Liferaft Equipment	Raft No.1	Raft No.2	Raft No.3	Raft No.4
3.12.1	Number of persons the liferaft is certified to carry	0	0	0	0
3.12.2	Painter attached (1) length not less than 10 m plus the distance from the stowed position to the waterline in the lightest seagoing condition or 15 m whichever is the greater.	0	0	0	0
3.12.3	Lifeline around outside of liferaft provided	---	---	---	---
3.12.4	Lifeline around inside of liferaft provided	---	---	---	---
3.12.5	Sea anchors (1 permanently attached and 1 spare) with shock resistant hawser and tripping line	0	0	0	0
3.12.6	Buoyant battery light attached to lanyard (1)	0	0	0	0
3.12.7	Food ration totalling not less than 10 000 kJ for each person	---	---	---	---
3.12.8	Fresh water in watertight receptacles. (1.5 litres per person)	---	---	---	---
3.12.8.1	Desalting apparatus, which may replace 0.5 l per person or 1l per person if reverse osmosis type.	---	---	---	---
3.12.9	Anti-seasickness medicine, 6 doses per person	---	---	---	---
3.12.10	One seasickness bag for each person the raft is certified to carry	---	---	---	---
3.12.11	Buoyant paddles (2)	---	---	---	---
3.12.12	First Aid outfit, approved type in waterproof case (1)	---	---	---	---
3.12.13	Parachute signals (4)	---	---	---	---
3.12.14	Buoyant smoke signals (2)	---	---	---	---
3.12.15	Hand flares, red (6)	---	---	---	---
3.12.16	Buoyant rescue quito with 30m (100ft) buoyant line attached (1)	---	---	---	---
3.12.17	Knife, 1 for rafts carrying not more than 12 persons carried, 2 if 13 or more persons carried	---	---	---	---
3.12.18	Bailer, 1 for rafts carrying not more than 12 persons carried, 2 if 13 or more persons carried	---	---	---	---
3.12.19	Sponges (2)	---	---	---	---
3.12.20	Tin openers (3)	---	---	---	---
3.12.21	Graduated drinking vessel, rustproof (1)	---	---	---	---
3.12.22	Electric torch, waterproof, suitable for Morse code signalling (1), with spare set of batteries and spare bulb in watertight case	---	---	---	---
3.12.23	Daylight signalling mirror (1), with instructions	---	---	---	---
3.12.24	Signalling whistle or sound signal (1)	---	---	---	---
3.12.25	Fishing tackle (1)	---	---	---	---
3.12.26	Survival instructions provided	---	---	---	---
3.12.27	Lifesaving signals, illustrated table on waterproof card or in a waterproof container (1)	---	---	---	---
3.12.28	Radar location by efficient radar reflector	---	---	---	---
3.12.29	Location by search and rescue locating device (AIS/SART or SART) stowed in liferaft	---	---	---	---
3.12.30	Instructions for immediate action	---	---	---	---
3.12.31	Manually operated internal and external lamp visible at a distance of at least 2 miles for not less than 12 hours	---	---	---	---
3.12.32	Thermal protective aids for 10% of persons carried or 2 persons, whichever is greater.	---	---	---	---

Section 3.0: Life-Saving Appliances (Continued)

N/A	3.13	Marking of Rigid Liferafts (LSA Code)			
N/A	3.13.1	Name and port of registry of the ship to which it belongs			
N/A	3.13.2	Maker's name or trademark			
N/A	3.13.3	Serial number of the raft			
N/A	3.13.4	Name of the approval authority			
N/A	3.13.5	The number of persons it is certified to accommodate at each entrance			
N/A	3.13.6	SOLAS "A" pack			
N/A	3.13.7	Length of Painter	State actual length (m)		
N/A	3.13.8	Launching instructions			
N/A	3.13.9	Maximum permitted stowage height			
		State maximum permitted stowage height above waterline (m)			
		State actual stowage height (m)			
	3.14	Inflatable Liferafts excluding any additional lifecraft stowed forward or aft for compliance with Regulation 26.3.2 (ChIII/31 and LSA Code)			
	3.14.1	Raft No.	Makers Name	Maker's Type Designation	Extended servicing type?
		1	Viking Life Saving Equipment	10DK+	No
		No. of Persons	Approval Authority	Davit Launched	Transferable Side to Side
		10	MED0575	No	Yes
					Stowed at deck
					A deck
	3.14.2	Raft No.	Makers Name	Maker's Type Designation	Extended servicing type?
		2	Viking Life Saving Equipment	10DK+	No
		No. of Persons	Approval Authority	Davit Launched	Transferable Side to Side
		10	MED0575	No	Yes
					Stowed at deck
					A Deck
	3.14.3	Raft No.	Makers Name	Maker's Type Designation	Extended servicing type?
		---	---	---	
		No. of Persons	Approval Authority	Davit Launched	Transferable Side to Side
		---	---	---	Stowed at deck
	3.14.4	Raft No.	Makers Name	Maker's Type Designation	Extended servicing type?
		---	---	---	
		No. of Persons	Approval Authority	Davit Launched	Transferable Side to Side
		---	---	---	Stowed at deck
	3.14.5	Raft No.	Makers Name	Maker's Type Designation	Extended servicing type?
		---	---	---	
		No. of Persons	Approval Authority	Davit Launched	Transferable Side to Side
		---	---	---	Stowed at deck
	3.14.6	Raft No.	Makers Name	Maker's Type Designation	Extended servicing type?
		---	---	---	
		No. of Persons	Approval Authority	Davit Launched	Transferable Side to Side
		---	---	---	Stowed at deck

Section 3.0: Life-Saving Appliances (Continued)

	3.14.7	Raft No.	Makers Name			Maker's Type Designation		Extended servicing type?			
		---	---			---					
		No. of Persons	Approval Authority	Davit Launched		Transferable Side to Side		Stowed at deck			
		---	---	---		---					
	3.14.8	Raft No.	Makers Name			Maker's Type Designation		Extended servicing type?			
		---	---			---					
		No. of Persons	Approval Authority	Davit Launched		Transferable Side to Side		Stowed at deck			
		---	---	---		---					
	3.15	Additional Liferaft Forward or Aft (Ch III/31.1.4)									
		Raft No.	Makers Name		Makers Type Designation		No. of Persons	Approval Authority	Location		
		3.15.1	---	---		---		0	---	---	
		3.15.2	---	---		---		0	---	---	
Yes Yes Yes N/A	3.16	Liferaft Launching Arrangements (LSA Code)									
	3.16.1	Each liferaft stowed with its painter permanently attached to the ship									
	3.16.2	Each liferaft stowed able to float free from the ship (except rafts fitted to comply with Reg. III/31.1.4)									
	3.16.3	If stowed lashed, is each liferaft lashing fitted with hydrostatic release (Not applicable to rafts carried for compliance with Reg. III/31.1.4)									
	3.16.4	If liferaft is davit launched is the automatic release hook able to operate in the 'on load' condition (LSA Code VI/6.1.5)									
	3.16.5	Davit Type	---	Manufacturer	---		SWL (kg)				
	3.16.6	Automatic Release Hook Model/ Type			Manufacturer						
		Serial Number			Additional info						
Yes Yes Yes Yes Yes Yes Yes	3.17	Marking of inflatable liferaft containers (LSA Code)									
	3.17.1	Maker's name or trademark									
	3.17.2	Serial number									
	3.17.3	Name of the approval authority									
	3.17.4	Type of emergency pack enclosed									
	3.17.5	Launching instructions									
	3.17.6	Length of painter									
		State actual length					36				
	3.17.7	Maximum permitted stowage height									
		State maximum permitted stowage height above waterline (m)					25				
State actual stowage height above waterline (m)					5						
	3.18	Rescue Boat (LSA Code) (Number of persons and weight full load should be that for which rescue boat is certified)									
		Boat No.	Maker & Type	Material	Serial No.	No. of Persons	Weight Fully	Internal Buoyancy	Approval Authority		
	3.18.1	1	RB 400	GRP	14085	6	930	Foam	MED 0736		
	3.18.2										

Section 3.0: Life-Saving Appliances (Continued)

3.19 Rescue Boat Equipment - General Requirements				Boat No.1	Boat No.2
3.19.1	Sufficient oars or paddles to make headway in calm sea			Yes	---
3.19.2	Thole pins, crutches or equivalent for each oar			Yes	---
3.19.3	Thole pins or crutches attached by lanyard or chain			Yes	---
3.19.4	Buoyant baler (1)			1	0
3.19.5	Binnacle containing an efficient luminous compass (1)			1	0
3.19.6	Sea anchor with tripping line at least 10m in length (1)			1	0
3.19.7	Painter of sufficient length and strength at fore end (1)			1	0
3.19.8	Buoyant line not less than 50m in length of sufficient strength to tow a liferaft (1)			1	0
3.19.9	Waterproof electric torch for message signalling (1)			1	0
3.19.10	Spare set of batteries and bulb in watertight container (1)			1	0
3.19.11	Whistle or equivalent sound signal (1)			1	0
3.19.12	First Aid kit in watertight case (1)			1	0
3.19.13	Buoyant quoits attached to line at least 30m in length (m) (1)			1	0
3.19.14	A searchlight able to efficiently illuminate a light coloured object at night which has a width of 18m at a distance of 180m			Yes	---
3.19.15	A searchlight able to operate continuously for at least 3 hours			Yes	---
3.19.16	Radar location by efficient radar reflector			Yes	---
3.19.17	Thermal protective aids for at least 10% of complement or 2 persons, whichever is the greater			2	0
3.20	Additional Requirements for Rigid Rescue Boats				
3.20.1	Boat hook (1)			1	0
3.20.2	Bucket (1)			1	0
3.20.3	Knife (1), or hatchet (1)			1	0
3.21	Additional Requirements for Inflatable Rescue Boats				
3.21.1	Buoyant safety knife (1)			0	0
3.21.2	Sponges (2)			0	0
3.21.3	Efficient manually operated bellows or pump (1)			0	0
3.21.4	Puncture repair kit in a suitable container (1)			0	0
3.21.5	Safety boat hook (1)			0	0
3.22	Launching and Recovery Arrangement for Rescue Boat Launching appliance (LSA Code)				
3.22.1	Crane	Maker	N/A		
	Type	N/A		SWL (kg)	N/A
3.22.2	Davits	Maker	Global Davit GmbH		
	Type	Rms 10 / 3.5		SWL (kg)	1000
3.22.3	Winch	Maker	Global Davit GmbH		
	Type	02E.30.01		SWL (kg)	1000

Section 3.0: Life-Saving Appliances (Continued)

Yes	3.22.4	Falls	Length (m)	20	Diameter	10 mm	Breaking load	84,4 kN	
			Corrosion resistant		Yes	Rotation resistant		Yes	
			Material	Galvanized Steel					
			Core type	Python Classis	Number of wires per strand	245	Number of Strands	35	
Yes	3.22.5	The rescue boat is able to be recovered from the water with its full complement of persons and equipment at a speed of at least 0.3m/sec							
Yes	3.22.6	The rescue boat is able to be launched with the parent vessel moving ahead at 5 knots.							
No	3.22.7	Foul weather recovery strops SWL (kg) (SOLAS Ch. III/17.5).							
	3.22.8	On-load release mechanism for releasing lower fall blocks from lifting hooks is fitted.							
		On-load release mechanism complies with LSA Code as amended by MSC.320(89)							
		Release Hook Mechanism Type		Manufacturer					
		Serial Number							
	3.23	Rescue Boat Engine							
		Details	Type of engine	Outboard 15 FHM		Manufacturer	Yamaha		
		Serial number	-	Power (kW)	11	Fuel tank capacity	25		
Yes	3.24	Marking of Rescue Boat (LSA Code Ch. IV/4.4.9 & V/5.1.1.1)							
Yes	3.24.1	Dimensions and/or number of persons it is certified to carry permanently marked thereon							
Yes	3.24.2	Name and port of registry of the ship to which the rescue boat belongs painted on each side of the bow							
Yes	3.24.3	Is the rescue boat marked so that, from above, the ship to which it belongs can be identified							
	3.25	Lifeboat / Liferaft Emarkation Arrangements (LSA Code, Ch. VI)							
		Embarkation ladder or alternative means?	Number	Length	Location				
					Deck	Position (frame, ship side)			
	3.26	Other Life Saving Appliances (Ch III/7 and LSA Code Ch II)							
		Item	Number	Make	Type	Location			
	3.26.1	Life jackets with whistle and light (for vessels with Keel Laying Date on/or after 1 July 2010 should also have releasable buoyant line and lifting loop)	10	Besto	SOLAS 2010 Adult 43+kg	Cabins			
	Additional	For persons on watch	2	Besto	SOLAS 2010 Adult 43+kg	Wheelhouse			
			2	Besto	SOLAS 2010 Adult 43+kg	Engineroom			
		For remote survival craft stations	0						
	If required, for children	0							
	If the adult lifejackets are not designed to fit persons weighing up to 140 kg and with a chest girth of up to 1,750 mm, suitable accessories to allow it to be secured to such persons	0							

Section 3.0: Life-Saving Appliances (Continued)

Yes	3.26.2	Lifebuoys with lights and smoke signals and capable of quick release from navigation bridge		2	Majoni Plastic BV	Besto Buoy 4.5 kg	Bridgewings
	3.26.3	Lifebuoys with self-igniting lights only		2	Majoni Plastic BV	Besto Buoy 2.5 kg	Boatdeck SB + PS
	3.26.4	Lifebuoys with buoyant lifeline of length not less than twice the height from the stowed position to the lightest seagoing waterline or 30m, whichever is greater		2	Majoni Plastic BV	Besto Buoy 2.5 kg	Maindeck SB + PS
	3.26.5	Lifebuoys without attachments		2	Majoni Plastic BV	Besto Buoy 2.5 kg	Forecastle
	3.26.6	Immersion suits		10	International Safety Products Ltd.	Intrepid Marine MK1	Cabins
	Additional	For persons on watch		2	International Safety Products Ltd.	Intrepid Marine MK1	Wheelhouse
		For remote watch or work stations		2	International Safety Products Ltd.	Intrepid Marine MK1	Engine Room
	3.26.7	Anti-exposure suits (Ch III/7.3 and LSA 2.4)					
	3.26.8	Thermal protective aids (excluding those provided for lifeboat/raft equipment, ie 3.7.45, 3.12.32 and 3.19.17)		0			
		Thermal protective aids are not required after the first SE Survey held on or after 1 July 2006, when the amended requirements for immersion suits entered into force.					
	3.26.9	All survival craft, lifebuoys and lifejackets are fitted with retro-reflective material					
	3.27	Additional Information					
		Item Number	Comment				

Section 4.0: Fire Extinguishing Arrangements (Ch II-2/10)

N/A	4.1	Pumps, Fire Main, Hydrants, Hoses, Etc. (Ch.II-2/10)						
		Fire pumps and fire main (Ch II-2/10.2.2 & FSS Code Ch.12)						
		Fire Pump	ID No	Capacity (m ³ /hr)	Prime Mover	Location	Remote controlled from bridge and fire station, if any	Capable of maintaining permanent pressurisation of fire main
	4.1.1	Bilge, Fire and GS	1	42	Electric	Engineroom	Yes	No
	4.1.2	Bilge, Fire and GS	2	42	Electric	Engineroom	No	No
	4.1.3	Emergency	3	40	Electric	Bowthruster room	No	No
	4.1.4							
	4.1.5							
	4.1.6							
	4.1.7	No	Diesel driven	Means of starting				
				Fuel tank capacity (litres)				
		Yes	Electrically driven	Source of emergency power		Main / Emergency		
				Location of emergency power		Emergency Generator room		
	4.1.8	Fire main diameter (mm) 100						
	4.1.9	Location of machinery space fire main riser isolating valve(s) Tweendeck Accommodation, Store Storedeck Fwd						
4.1.10	Location of fire main isolating valve(s) on tank deck (tankers only) N/A							
4.1.11	Relief valves fitted if pumps capable of developing pressure exceeding the design pressure of service pipe							
4.1.12	Relief valve locations N/A							
	4.2	Hydrants (Ch II-2/10.2.1.5)						
		Location	Number	Diameter (mm)	Type of Coupling			
	4.2.1	Machinery spaces	2	50	Storz			
	4.2.2	Accommodation	1	50	Storz			
	4.2.3	Weather decks	9	50	Storz			
	4.2.4	Forecastle Store	1	50	Storz			
	4.2.5							
	4.2.6							
	4.2.7							
	4.3	Hoses and Nozzles (Ch II-2/10.2.3.3)						
		Location	Number	Hose Dia (mm)	Length (m)	Material	Spray/Jet Nozzle with shut-off	
	4.3.1	Machinery spaces	2	50	10	Synthetic	Both	
	4.3.2	Accommodation	2	50	10	Synthetic	Both	
	4.3.3	Weather decks	5	50	20	Synthetic	Both	
	4.3.4	Forecastle Store	1	50	20	Synthetic	Both	
	4.3.5							
	4.3.6							
	4.4	Sand Boxes and Scoops, if provided (Ch II-2/10.5.1.2.3)						
	4.4.1	Total Number	0	Location(s)				
	4.5	International Shore Connection (Ch II-2/10.2.1.7 and FSS Code Ch.2)						
	4.5.1	Total Number	1	Location(s)		SOS Locker Maindeck SB		

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)

4.6	Fire Extinguishers (Ch II-2/10.3 & FSS Code Ch.4)									
	Item	Location	Number	Type	Capacity	No. of Spare Charges or Duplicate Extinguisher				
4.6.1	Portable extinguishers (Weight not more than 23kg)	Accomodation	4	Dry Powder	6 kg	4				
		Engineroom	2	Dry Powder	6 kg	3				
		Wheelhouse	1	Dry Powder	6 kg	1				
		Steering Gear Room	1	Dry Powder	6 kg	1				
		Hold Entrance	2	Dry Powder	6 kg	2				
		Bowthruster Room	1	Dry Powder	6 kg	1				
		Deck Locker	1	Dry Powder	6 kg	2				
		Emergency Generator	1	Dry Powder	6 kg	0				
		Forecastle / Storedeck	1	Dry Powder	6 kg	0				
		Galley	1	Dry Powder	6 kg	0				
		Wheelhouse	1	CO2	5 kg	1				
		Engineroom	1	CO2	5 kg	1				
4.6.2	Portable foam applicator units	Engineroom	1	Foam Applicator	20 ltr	1				
4.6.3	Non-portable extinguishers	Engineroom	1	Dry Powder	50 kg	1				
4.7	Fireman's Outfits (Ch II-2/10.1 & FSS Code Ch.3)									
4.7.1	Firemans outfit									
	ID No	Location	Protection Suit	Boots	Gloves	Rigid Helmet	Safety Lamp	Axe	Lifeline	Safety Belt
	1	Forecastle Store	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	2	Deck Locker	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
			----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----
4.7.2	Self-contained breathing apparatus									
	ID No	Location	Type	Manufacturer		Capacity (Litres)	Function Period (Min)	Spare Cylinders		
	1	Forecastle Store	PAS3000	Dreager Safety		1800	45	2		
	2	Deck Locker	PAS3000	Dreager Safety		1800	45	2		

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)

N/A	4.7.3	*Alternatively approved recharging facilities provided with at least one spare cylinder per self-contained breathing apparatus fitted					
	4.7.4	Fire-fighter's communication - explosion-proof type or intrinsically safe two-way portable radiotelephones (SOLAS reg. II-2/ 10.10.4)					
		Number	Location	Type	Manufacturer	Safety rating	Approval Authority
4.8	Smoke Helmet or Smoke Mask with Air Pump and Hose (pre-July 2002 built vessels only)						
	Number	Serial No	Make	Location			
4.8.1	Emergency Escape Breathing Devices (EEBD's) (II-2/13.3.4 & FSS Code Ch.3)						
	Number	Make	Location (Accommodation or Engine Room)				
	2	Ocenco M-20.2	Engineroom				
	2	Ocenco M-20.2	Accommodation Tweendeck				
	1	Ocenco M-20.2	Voiddeck (spare)				
	1	Ocenco M-20.2	Messroom (training)				

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)

4.9	Fixed Fire Extinguishing and Protection Systems									
	Space Protected	CO ₂	Halon	Fixed Foam	Fixed Pressure Water Spray	Automatic Sprinkler System	Dry Powder	Inert Gas System	Others	Fixed Local Application Systems
	Engineroom	X	-	-	-	-	-	-	-	-
	Hold	X	-	-	-	-	-	-	-	-
	Paintstore	-	-	-	-	-	-	-	X	-
	Galley Hood	X	-	-	-	-	-	-	-	-
4.10	Details of Fixed Fire Extinguishing and Protection Systems									
4.10.1	CO ₂ System(s) (Ch II-2/10.4 & FSS Code Ch. 5)									
	Space Protected	Storage Containers			Location of Remote Control Station	Type of Audible Alarm	Location Operating Instructions Posted			
		No.	Capacity Each (kg)	Location						
	Engineroom	5	45	CO2 Room SB Aft	CO2 room SB Aft	Sirene	Yes			
	Hold	53	54	CO2 Room Foreship	SOS Locker	Sirene	yes			

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)									
N/A	4.11	If no Fixed Fire Extinguishing System is Fitted in Cargo Spaces (Ch II-2/10.7.1.4) The following must apply:							
	4.11.1	(a) hatch covers are of steel							
	4.11.2	(b) effective means are provided for closing all ventilators and other openings leading to holds							
	4.11.3	(c) the ship is constructed and solely intended for carrying ore, coal, grain, unseasoned timber and non combustible cargo which are considered to constitute a low fire risk.							
	4.11.4	(d) ventilator fans can be stopped and doorways, ventilators and all other openings can be closed from outside the space concerned.							
N/A	4.11.5	(e) Exemption issued by flag administration/Lloyd's Register Group with cargo list							
N/A	4.12	Halogenated Systems (Halon) (pre-2002 SOLAS Ch. II-2/5.3) or Other Gas Systems (FSS Code Ch. 5.2.4)							
		Space Protected	Storage Containers			Location	Type of Audible Alarm	A/M*	Location Where Operating Instructions are Posted
		Gas Type	No.	Capacity Each (kg)					
		N/A	-----						

	* Indicate automatic (A) or manual (M) release of system (Secondary systems are permitted to be fitted with automatic release)								
N/A	4.12.1	Automatic stop for all ventilation fans serving the protected space is provided							
N/A	4.13	Fixed Foam System(s) (Ch II-2/10.4, 10.5, 10.8 and 10.9 & FSS Code Ch.6 and 14)							
		Details		Space Protected					
				Engine/ Boiler Room		Cargo Area Deck/ Cargo Space		Cargo Pump Room	
	4.13.1	Foam	Type						
	Manufacturer								
	Quantity								
	Application rate								
	Concentration ratio, or Expansion ratio								
	4.13.2	Pump	Type						
	Location								
	Capacity (m ³ /hr)								
	Location of controls								
	4.13.3	Location of foam tank							
	4.13.4	Location of controls							
	N/A	4.13.5	Manufacturer's service instruction manual is provided						

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)

N/A N/A	4.13.6	Means of Supply	Foam generators	Details	Machinery Spaces	Cargo Spaces	Cargo Pump Room	
	4.13.7		Monitors on tank deck	Manufacturer				
				Type				
				Capacity				
				Number				
				4.13.8	Applicators	Details	Machinery Spaces	Tank Deck
	Manufacturer							
	Type							
	Number							
	4.13.9		Hydrants	Number				
	4.13.10		Hoses	Number				
	4.13.11		Isolating valves are fitted immediately forward of deck monitors					
	4.13.12		Fire main and deck foam main are combined systems					
	4.14		Fixed Pressure Water Spraying System(s) (Ch.II-2/10.4 & FSS Code Ch.7)					
Space Protected	Pumps*	Location	Capacity (m ³ /hr)	Nozzle Type and Make	Application Rate	Location of Remote Control Station		
4.14.1	*For electrically driven pumps state source of emergency power							
	Location of emergency power source							

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)

N/A	4.15	Automatic Sprinkler, Fire Detection and Fire Alarm System (Ch.II-2/10.6 & FSS Code Ch.8) See also method IIC					
		Space Protected	Automatic Independent Power Pump		Sources of Power	Section Plan and Instructions Provided	Location of Stop Valves
			Location	Capacity (m ³ /hr)			
	*For electrically driven pumps state source of emergency power						
	4.15.1	Location of emergency power source					
	4.15.2	Fresh water tank capacity (m ³)					
	4.15.3	Sprinkler Head Type			Manufacturer	No. of Spares	
4.15.4	Location of automatic audible and visual alarms for each section of sprinklers						
4.15.5	Location of section isolating stop valves						
4.15.6	Section isolating stop valves are fitted with means of locking						
4.15.7	Location of cross-connection valve to firemain						

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)				
	4.16	Inert Gas System (Ch.II-2/4.5.5 & FSS Code Ch.15)		
N/A	4.16.1	Deadweight of ship		
	4.16.2	Type of system		
	4.16.3	Date of installation of system		
	4.16.4	Operational and service manual provided		
	4.17	General Requirements for all Inert Gas Systems		
N/A	4.17.1	Is the system capable of producing a gas delivery rate 25% in excess of the maximum rated capacity of the cargo pumps?		
	4.17.2	Gas scrubber location		
	4.17.3	Gas blowers, number fitted and location		
	4.17.4	Gas regulating valve location		
	4.17.5	Deck waterseal location		
	4.17.6	Other non-return devices, type and location		
	4.17.7	Means of isolating each cargo tank		
N/A	4.17.8	Combination carriers only: are blank flanges provided?		
N/A	4.17.9	Ventilation arrangements – are satisfactory arrangements provided?		
N/A	4.17.10	Purging arrangements – are satisfactory means required?		
	4.17.11	Pressure vacuum devices, number and location		
N/A	4.17.12	Are satisfactory means provided for continuously indicating the inert gas temperature and pressure at discharge side of blower when operating?		
N/A	4.17.13	Are instrumentation and alarms provided as per manual?		
N/A	4.17.14	Ullage system – is a closed system fitted?		
		Gas Concentration Measurement Instrument	Total Number	Make
	4.17.15	Portable explosion meters		
	4.17.16	Portable oxygen level meters		
N/A	4.17.17	Means to measure oxygen and flammable gases in double hull space. fixed/portable		
N/A	4.17.18	Double hull space fitted with suitable connections in the supply of inert gas		
N/A	4.17.18.1	If permanent connection is means provided to prevent hydrocarbons entering the double hull space.		
N/A	4.17.18.2	If not permanent connection, are appropriate means provided for connection to the inert gas system.		
	4.18	Additional Requirements – Flue Gas Systems Only		
	4.18.1	Flue gas isolating valves, number and location		
	4.19	Additional Requirements – Gas Generators and Gas Turbine Systems		
	4.19.1	Fuel oil pumps, number and location		
	4.20	Gas Warning System on Combination Carriers (Ch.II-2/4.5.4.2)		
N/A		Approved fixed gas warning system in:		
N/A		Cargo pumprooms		
N/A		Pipe ducts		
N/A		Cofferdams adjacent to slop tanks		

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)									
	4.21	Dry Powder System(s) (IGC Code Ch. 11)							
		Protected Spaces	Storage Containers			No. of Hoses	No. of Monitors	Type of Audible Alarm	Location of Remote Control Station
			No.	Capacity of Each (kg)	Location				
	4.22	Galley Exhaust Protective System (Ch II-2/9.7.5.2.1)							
		Type of System	No. of Cylinders	Capacity (kg)	Location of Controls		Location of Exhaust Fan Shut-Off Control(s)		
		CO2	1	4.5 kg	Steering Gear Room		Galley Entrance		
	4.23	Galley Deep Fat Cooking Equipment Protection System (Ch II-2/10.6.4)							
		Type of System	No. of Cylinders	Capacity (kg)	Location of Controls		Alarm For Indicating Operation		
		N/A							
	4.24	Fixed local application systems (Ch II-2/10.5.6.3)							
		Area Protected	Supply from Storage Containers/Tanks/Firemain System		Control Location		Visual and Audible Alarm	A/M*	
		N/A							
* Indicate automatic (A) or manual (M) release of system (Both required for periodically unattended machinery spaces)									

Section 4.0: Fire Extinguishing Arrangements (Ch II-2) (Continued)

	4.25	Additional Information	
		Item Number	Comment
		4.3.4	One (1) spare hose and nozzle (d=50mm, L=20m) provided in voidspace (voiddeck);
		4.6.1	Two (2) dry powder extinguishers provided at entrance to cargo hold acc. SOLAS Ch.II-2, Reg.19;
		4.7	Two (2) additional self-contained breathing apparatus provided for dangerous cargo;
		4.7	Two (2) sets (including spare cylinder) stored in forecandlestore and decklocker PS Boatdeck
		4.9	Paintstore waterspray can be connected to the fire main with fire hose;
		4.10	Smoke detection system for cargo hold provided. Smoke detection panel in CO2 room and in wheelhouse;
		4.10.1	CO2 system operation for cargo hold in SOS locker and locally in CO2 room foreship;
		4.5.1	Shore Connection can be connected to each fire hydrant;

Section 5.0: Fire Protection, Fire Detection and Alarm Systems

Yes	5.1	Method of Fire Protection and Alarm Systems in Accommodation and Service Areas (Ch II-2/9.2.3 and 7.5.5)			
	5.1.1	Method IC	Fixed fire detection and fire alarm system of approved type to provide smoke detection and manually operated call points in all corridors, stairways and escape routes within accommodation spaces.		
	N/A	5.1.2	Method IIC	Automatic sprinkler, fire detection and fire alarm system of an approved type to protect accommodation spaces, galleys and other service spaces, except spaces which afford no substantial fire risk such as void spaces, sanitary spaces, etc. In addition to the system(s) required for method Ic above	
N/A	5.1.3	Method IIIC	Fixed fire detection and fire alarm system of an approved type to detect the presence of fire in all the accommodation spaces and service spaces, except spaces which afford no substantial fire risk such as void spaces, sanitary spaces etc.		
	5.2	Fire Detection and Fire Alarm Systems (Ch II-2/7 and FSS Code Ch. 9) (see also 4.15)			
		(See Approved Fire Control Plan for locations of detectors and alarms)			
	5.2.1	Fire Detector Make	Type	Number	Space(s) Covered
		Apollo	Smoke	9	Engineroom
		Apollo	Smoke	7	Accommodation
		Apollo	Smoke	1	AC Room
		Apollo	Smoke	1	Steering Gearroom
		Apollo	Smoke	1	Laundry
		Apollo	Heat	4	Galley/ Mess/ Wheelhouse/ Engineroom
		Apollo	Smoke	1	Emergency Generatorroom

Section 5.0: Fire Protection, Fire Detection and Alarm Systems (Continued)					
	5.2.2	Fire Alarm Make	Type	Number	Space(s) Covered
		Eltek Fire & Safety (by Thorn Security Ltd.)	T1018	1	All as per described in section 5.2.1
Yes	5.2.3	Control panel location	Wheelhouse		
	5.2.4	Indicator unit(s) location(s)	Wheelhouse, First Office day- and bedroom, Captain's day- and bedroom, Engineer day- and bedroom, Messroom		
	5.2.5	Visual and audible signal at control panel from fault in power supply or electric circuits			
	5.2.6	Fire and/or general alarm (audible) automatically activated throughout accommodation, service spaces, control stations and machinery spaces if response to a fire signal is not acknowledged within 2 minutes.			
	5.2.7	Manually operated fire alarm call points located throughout accommodation spaces, service spaces and control stations.			
	5.2.8	Suitable instructions and components spares for testing and maintenance provided.			
N/A	5.2.9	Automatic release arrangements for self-closing fire doors provided at the control panel.			
	5.3	General Alarm (Ch III/50)			
	5.3.1	Means of abandon ship warning	General Alarm		
	5.3.2	Location of control(s)	Wheelhouse Navigation Desk		
	5.4	Protection of Cargo Pump - Rooms (Ch II-2/4.5.10.1)			
	5.4.1	Temperature of Sensing Devices (Ch II-2/4.5.10.1.1)			
		Location	Make	Type	Number
		Casings of Cargo	N/A		
		Casings of Ballast	N/A		
		Casings of Stripping Pumps	N/A		
		Bearings	N/A		
		Bulkhead Shaft Glands	N/A		
	5.4.2	Automatic/Continuous Audible & Visual Alarm (Ch II-2/4.5.10.1.1)			
		Alarm Make	Type	Number	Space(s) Affected
		N/A			-----
	N/A			-----	

Section 5.0: Fire Protection, Fire Detection and Alarm Systems (Continued)						
N/A	5.4.3	Lighting (Except Emergency Lighting) Interlocked with ventilation (Ch II-2/4.5.10.1.2)				
	5.4.4	Continuous monitoring system for hydrocarbon gas (Ch II-2/4.5.10.1.3)				
		Item	Number	Location	Make	Space(s) Affected
		Sampling points				
		Detector heads				
		Continuous Audible & Visual Alarm (greater than or equal to 10% LFL)				
	5.4.5	Bilge level monitoring devices & alarms (Ch II-2/4.5.10.1.4)				
		Monitoring Devices	Type	Make	Number	Location
		Alarm	Type	Make	Number	Space(s) Affected
N/A	5.5	Gas measurement and detection system (Ch II-2/4.5.7)				
	5.5.1	Portable instrument (Ch II-2/4.5.7.1 and 4.5.7.2)				
		Type	Total number			
		Oxygen and spare				
		Flammable gases and spare				
		Is calibration equipment provided for each type of instrument? Yes/No				
	5.5.2	Arrangements for gas measurement in double-hull spaces and double bottom spaces (Ch II-2/4.5.7.2)				
		Type sampling lines	Location of sampling points		Materials	
		Permanent gas sampling line				
		Flexible gas sampling hoses				
		Are the fixed sampling lines and portable instruments compatible? Yes/No				
	5.5.3	Arrangements for fixed hydrocarbon gas detection systems in double-hull and double bottom spaces of oil tankers (Ch II-2/4.5.7.3 / FSS Code Ch 16)				
		Spaces adjacent to cargo tanks	Fixed hydrocarbon gas detection system		Constant operative inerting system	
		Ballast tanks				
		Void spaces				
		Forepeak				
		Any other tank or space				
Location of central gas analysis unit						
Is there a combined fixed hydrocarbon gas detection system as required by Ch II-2/4.5.7.3 and gas detection system as required by Ch II-2/4.5.10 ?			Yes/No			
5.6	Enclosed space entry portable atmosphere testing instruments (SOLAS Ch XI-1/7)					
5.6.1	Number	Maker/Type	Detected Gases	Location		
5.6.2	Suitable means provided for the calibration of all such instruments?					
5.7	Additional Information					
	Item Number	Comment				

Section 6.0: Emergency Control/Special Arrangements in Machinery and Accommodation Spaces (Ch II-2/5, 8 & 9)

Yes Yes N/A N/A N/A	6.1	Means for stopping ventilation fans and pumps and shutting off oil fuel suction pipes			
		Equipment		Means	Locations
	6.1.1	Ventilation Fans	Accommodation	Electric	Wheelhouse
	6.1.2		Machinery spaces	Electric	SOS Locker Main Deck SB and Accomodation near Guest Cabin
	6.1.3	Oil fuel units		Electric	SOS Locker Main Deck SB
	6.1.4	Oil fuel transfer pump		Electric	SOS Locker Main Deck SB
	6.1.5	Boiler fans		Quick Closing (Pull Wire)	Aft of funnel on Boatdeck
	6.1.6	Oil fuel and lubricating oil tank valves		Quick Closing (Hydraulic)	SOS Locker Main Deck SB
	6.1.7	Other (specify) Galley Fan (Hood)		Electric	Galley Entrance
		The following are able to be closed from outside the space concerned:			
	6.1.8	Ventilator dampers			
	6.1.9	Funnel openings			
	6.1.10	Skylights			
	6.1.11	Doorways			
	6.1.12	Tunnel door			
	6.2	Additional Information			
		Item Number	Comment		

Section 7.0: Emergency Electric Power (Ch II-1/43, 44)

Section 7.1: Emergency Electric Power (ENR 1/ 10/ 11)	7.1	Emergency electric power			
	7.1.1	Source of Power		Rating or Capacity	If Generator Means of Starting
		Emergency Generator		120 kVA	Electric: dual Batteries
		Location	Emergency Generator Room		
	7.1.2	Services supplied Essential Services as Specified in SOLAS			
	7.1.3	Location of emergency switch board		Emergency Generator Room	
7.2	Additional Information				
	Item Number	Comment			

Section 8.0: Special Arrangements For Certain Ships					
Yes Yes Yes	8.1	Periodically unattended machinery space (Ch II-2/7.3 & 7.4)			
	8.1.1	Fire detection and fire alarm system fitted			
	8.1.2	Audible and visual alarm fitted on the navigation bridge			
	8.1.3	Audible and visual alarm fitted in the engineer officer's office			
	8.1.4	Location where a responsible crew member is on duty			
	8.1.5	Location of remote controls for sea inlets, discharges below the waterline or bilge injection where installed in periodically unattended machinery space			
N/A	8.2	RO-RO Cargo Spaces (Ch II-2/20) (And other cargo spaces intended for the carriage of motor vehicles with fuel in their tanks for their own propulsion)			
N/A	8.2.1	Fire detection and the fire alarm system fitted			
N/A	8.2.2	Fire extinguishing arrangements provided			
-----	8.2.3	Special drainage/pumping system provided or relevant stability information contained in Stability Book approved			
		Date	---	By	---
N/A	8.2.4	Means provided to prevent blockage of drainage			
N/A	8.2.5	Portable extinguishers at each access			
N/A	8.2.6	Each Ro-Ro cargo space provided with at least 3 water fog applicators and 2 portable foam applicators			
N/A	8.2.7	Power ventilation system fitted			
		Number of air changes per hour			
N/A	8.2.8	Indication of loss of ventilating capacity at the navigation bridge			
	8.2.9	Position of ventilation shut-down and closing arrangements in case of fire			
	8.2.10	Number of portable gas detection units			
	8.3	RO-RO Cargo Spaces (Ch II-2/20-1) - Requirements for vehicle carriers carrying motor vehicles with compressed hydrogen or natural gas in their tanks for their own propulsion as cargo			
-----	8.3.1	At least two portable gas detectors provided, which are certified safe type for use in the explosive gas and air mixture.			
-----	8.3.2	Spaces are intended for carriage of motor vehicles with compressed natural gas in their tanks for their own propulsion as cargo.			
-----	8.3.3	Spaces are intended for carriage of motor vehicles with hydrogen in their tanks for their own propulsion as cargo.			
	8.4	Firefighting for ships designed to carry containers on or above the weather deck (Ch II-2/10.7.3)			
		Item	Number	Type	Manufacturer
		Water mist lance			
		Mobile water monitors			
	8.5	Ships with helicopter facilities (Ch II-2/18)			
-----	8.5.1	The ship is fitted with special facilities for helicopters.			
-----	8.5.2	Helicopters land or conduct winching operations on an occasional or emergency basis (Ch II-2/18.2.2).			
	8.5.3	Helicopter overall length (m)			
	8.5.4	Portable extinguishers (Ch II-2/18.5.1)			
		Item	Location	Number	Manufacturer/type
		Dry powder			
		CO ₂			
	8.5.5	Foam application system (II-2/18.5.1.5)			
		Location	Means of supply		Discharge rate
					Operating period

[illegible]