Onboard Routine Maintenance Check Sheet





February 2009

Our Mission

The mission of ABS is to serve the public interest as well as the needs of our clients by promoting the security of life, property and the natural environment primarily through the development and verification of standards for the design, construction and operational maintenance of marine-related facilities.

Quality & Environmental Policy

It is the policy of the American Bureau of Shipping to be responsive to the individual and collective needs of our clients as well as those of the public at large, to provide quality services in support of our mission, and to provide our services consistent with international standards developed to avoid, reduce or control pollution to the environment.

All of our client commitments, supporting actions, and services delivered must be recognized as expressions of Quality. We pledge to monitor our performance as an on-going activity and to strive for continuous improvement.

We commit to operate consistent with applicable environmental legislation and regulations and to provide a framework for establishing and reviewing environmental objectives and targets.





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Disclaimer

Use of this check sheet is neither a classification nor a statutory requirement. This check sheet is provided to owners to use in drafting and refining their own operation and maintenance procedures. This check sheet has not been developed for any particular ship or type of ship. As it is based on observations during surveys, inspections and audits, the checklist may include items which do not apply to a particular ship and may omit items which do apply.

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INTRODUCTION

ABS is committed to promoting the security of life at sea, of property and of the natural environment. It believes that an important element in achieving these goals is a well designed and effectively implemented ship maintenance system. A sound maintenance program not only helps address safety, environmental and operational concerns, but it is a sensible investment in a valuable asset, the ship. With this in mind, the information supplied in the attached check sheet is intended to assist our clients in fulfilling their commitments to their crews, ships and the general public.

The attached check sheet has been developed as an aid for crewmembers to use when carrying out normal routine maintenance for their ship. Completion of the check sheet is not a requirement of class, nor required by any flag or port State authority. It is merely a tool that may be used by the crew as reference for items that may be overlooked during routine maintenance.

If any item on the check sheet is not in satisfactory condition, then the crew should take appropriate steps to remedy the condition. However, if the condition is detected while the vessel is on passage and it cannot be rectified prior to entering port, we suggest to our clients that they notify their owner, ABS, their flag State, and the port State of the ship's next port of call; request attendance by ABS; and make a notation in the ship's logbook of any action taken.

Additionally, our clients should be aware that Port State Control empowers a State to verify the condition and acceptability of a foreign vessel using its ports. A port State inspection can identify sub-standard items or procedures on the ship and the inspector may detain the ship until the specified defects are rectified.

SYNOPSIS OF FINDINGS FROM ROUTINE SURVEYS, INSPECTIONS AND AUDITS

Statutory Certificates, Overdue Surveys

Surveyors, auditors and inspectors routinely review a vessel's documentation (certificates) to verify that they have been endorsed for all required surveys during the intervals mandated by the various conventions or class requirements. Surveys must be completed within the required survey interval for the statutory documents to remain current.

Cargo Ship Safety Radio Surveys

Common findings recorded in this category relate to main radiotelegraph transmission and reception equipment. In some cases, the power output of transmitters has been found to be below an acceptable level, causing a reduction in the range of transmissions. Faults observed in receiving equipment include unsatisfactory reception. Typical examples of other findings in this category are deteriorated aerials; broken aerial insulators; improperly rigged aerials for very high frequency equipment; inoperable automatic alarms; defective speakers; and faulty emergency power sources.

Cargo Ship Safety Equipment Surveys

1. Lifesaving Appliances

Properly functioning lifesaving appliances are key elements of ship safety. Routine crew examinations and proper maintenance can identify or remedy potential problems, such as structural defects in lifeboats, inoperative lifeboat engines or flemming gear, missing or inoperative lights on lifebuoys and lifejackets, excessively worn lifting hooks in lifeboats, missing retro-reflective tape from equipment, badly corroded engine mounts in lifeboats, missing safety equipment from lifeboats, unsatisfactory "float-free" arrangement on liferafts and inoperative lifeboat launching systems.

2. Firefighting Equipment

It is of utmost importance that the firefighting equipment be properly examined, maintained and ready for immediate use at all times. Unfortunately, there are many firefighting findings (related to the detection, extinction or risk of fire) observed during surveys and audits including: missing or holed fire hoses; missing fire hose nozzles; defective breathing apparatus; excessive oil accumulation in machinery spaces bilges; broken fire detectors; missing, poorly maintained or uncharged fire extinguishers; holed or softpatched fire mains; missing or broken fire station cabinet handles and hinges, wrenches and hydrant handwheels; unmarked, broken or inoperative fire dampers; unprepared fire and emergency crews; valves and fittings related to IGS in disrepair; CO₂ cylinder room being used for storage; paints stored in machinery spaces instead of in a dedicated paint locker; heavy accumulation of grease in galley exhaust ventilation trunking; seized machinery space skylights; frozen or holed funnel dampers; and engine room ventilators.

3. Navigation Equipment

During surveys and audits, the types of findings include out-of-date, uncorrected or missing charts for the intended voyages; inaccurately calibrated magnetic compasses; faulty radio direction finders, echo depth sounders, radar's, gyro repeaters, and navigation lights; outdated Tide Tables, List of Lights and Sailing Directions, etc.; and copies of regulations (e.g., SOLAS, MARPOL, ITU etc.) not on board.

Cargo Ship Safety Construction Surveys

The following findings deal mainly with steering gear and mooring arrangement requirements. Other findings, which relate to structural items, are discussed under class surveys, hull (below): steering control system malfunctioning; officers not knowledgeable about emergency steering procedures; communications in emergency steering room not working; anchor chains, windlasses, wire ropes and mooring lines in a deteriorated physical condition and potentially dangerous; defective guards on winches and windlasses; and missing anchors and chain.

Housekeeping and Fire Safety, Documentation, Manning, Accommodations

1. Manning

The STCW Convention requires that ships have properly trained and qualified crews. These elements of manning are important because the safety of a ship, its crew, its passengers and cargo and the protection of the marine environment depend to a large extent on the training, experience and competence of the crew. The majority of findings in this category relate to the minimum international standards for certificates issued under the STCW Convention. Each flag State is responsible for establishing the appropriate levels of the manning aboard ships under its jurisdiction and for issuing each ship with a safety-manning certificate. Findings in each category include navigational watches stood by uncertified officers, incorrectly endorsed officers' certificates for the ship they are serving aboard (e.g. oil tankers, gas carriers and chemical tankers), key officers not in attendence and manning exceeding the numbers listed on the Cargo Ship Safety Equipment Certificate.

2. Documentation

Statutory certificates are issued to ships in accordance with the various international conventions. Surveyors, auditors and inspectors have found findings related to a vessel's certificates including expired certificates, overdue annual or intermediate surveys, and improperly issued or missing certificates after a vessel has changed flag from one State to another.

3. Accommodations, Provisions and Working Spaces

Examples of findings pertaining to the crew accommodations include: infestation by cockroaches; blocked drains; dirty hospitals and bathrooms; leaking toilet piping; missing shower nozzles and controls; broken or inoperable sinks and toilets; crew members living in hospital spaces; doors to accommodations not closing adequately; and broken light fixtures and switches. As far as provisions are concerned, the findings usually relate to poor standards of cleanliness. Other findings included in this category are deteriorated insulation in galleys that poses a potential health hazard; ineffective or inoperative refrigeration machinery for cooling storerooms; and insufficient food for the intended voyage. Finally, as far as working spaces are concerned, findings include lack of adequate lighting and ventilation as well as defective or missing guards to protect the operator from the moving parts of machinery.

MARPOL Surveys

Careful attention should be paid to pollution prevention measures on board as well as maintaining accurate records for the handling of oil and other pollutants. Penalties can be severe for an owner and any responsible crewmembers if a vessel fails to comply with the regulations. Findings noted during surveys and audits include: missing oil record keeping book or entries not up to date; poorly maintained, misoperating or inoperative equipment for separating oil from water including oil-content monitoring devices; sludge tank connected directly overboard; and missing or unposted pollution placard.

Load Line Surveys

Surveyors have recorded findings where ventilators, air pipes, watertight doors and hatchways had deteriorated sufficiently to warrant repairs. These findings could have been avoided by adequate maintenance performed prior to surveyor attendance. Other findings in this category include: cargo hatch cover securing devices missing or inoperable; sounding pipe caps missing; air pipes holed; securing devices on weathertight and watertight doors missing; holed cargo hatch covers; non-sealing weathertight doors; corroded manhole covers; and unsafe rails at the side of the ship. Other findings associated with the Load Line Convention are discussed under classification surveys, hull (below).

Classification Surveys

1. Hull

The findings include damage and deterioration of the hull, including items such as distorted bulbous bow plating and side shell plating deformations; damaged gangways, accommodation ladders, exposed walkways/platforms, and pilot ladders; corroded cable trays and trunks; faulty closing appliances; seriously wasted, holed, cracked or fractured side frames, transverse deck beams, deck plating, and watertight bulkheads in the chain locker, forecastle storage space, and engine room; holed vent pipes/closure heads; holed or damaged hatches; weathertight doors not sealing; overdue special hull surveys; and corroded access ladders to cargo holds or tanks.

2. Machinery

Surveys that have identified poorly maintained engine rooms list findings such as excessive oil in bilges and throughout the engine room. Other findings in this category include inoperable remote controls on boiler safety valves; defective fuel-oil valves on main and auxiliary engines; improperly adjusted steering gear; accumulation of water leaking on auxiliary engines; frozen or inoperable sea water inlet valves; defective generators; defective and leaky fuel-oil pumps and poorly maintained air compressors (resulting in the shortage of starting air for the main engine); leaky or wasted hydraulic lines servicing deck machinery and cargo hatches; and leaky engine exhaust piping.

3. Cargo Gear

Findings noted during surveys have included: absence of identification marks on hooks, blocks, and shackles and other small items of equipment; unavailable documentation attesting to examinations and testing certification; excessively corroded winch bed plates; and winch drums and brakes posing a danger and requiring repairs.



I. CERTIFICATES & DOCUMENTATION						
Certificate	Expiry Date	Date of Last Survey*/ Endorsement	Comments			
Class Certificate		AS REN				
Certificate of Registry						
Radio Station License						
Safety Radio Certificate		PER/REN				
Safety Equipment Certificate		MAS INT/PER/REN				
Safety Construction Certificate		MAS INT/REN				
Oil Pollution Prevention (IOPP)		MAS				
MARPOL Annex I		INT/REN				
Carriage of Dangerous		MAS				
Chemicals in Bulk (BCH or IBC		INT				
Code)		REN				
Carriage of Liguefied Gases in		MAS				
Bulk (GC or IGC Code)		INT/REN				
Carriage of Noxious Liquid		MAS				
Substances in Bulk (NLS)		INT/REN				
Sewage Pollution Prevention		REN				
Air Pollution Prevention		MAS				
MARPOL Annex VI		INT/REN				
AFS (Anti-fouling system)						
Certificate						
Carriage of Dangerous Goods		REN				
Exemption Certificate (if any)		N/A				
Load Line Certificate		AS/REN				
Tonnage Certificate						
Document of Compliance (ISM						
Code) copy with annual						
endorsement						
Safety Management Certificate		INT REN				
Ship Security Certificate		INT/REN				
5 Year Service Lifeboat/Rescue						
Boat Launching Devices						
5 Year Service Lifeboat On Load						
Release Gear						
Has the Annual Thorough Exam						
been carried out?						
Certificate of Service: Liferafts,						
Inflatable Lifejackets, Marine						
Evacuation System, and						
Inflatable Rescue Boat						
Does the vessel have proper						
certification for the types of						
cargo it is carrying per						
applicable conventions and/or						
codes?						
*Survey Abbreviations Defined						
AS - Annual Survey						
INT - Intermediate Survey						
MAS - Mandatory Annual Survey	/					
PER - Periodical Survey						
REN - Renewal Survey						

This checklist is solely a guidance tool for the use of the ship's master and crew during routine maintenance and housekeeping on the ship. **Completion of this checklist is not a requirement for class.**



II. PERSONNEL CERTIFICATES & DOCUMENTATION							
Ce	ertificate	Issue Date	Expiry Date	Comments			
Minimum Saf	e Manning						
Certificates							
Cortificator	Master						
for Masters,	Chief Engineer						
	Officers/Ratings						
Difficers and Patings	Engineers						
raungs	GMDSS Persons						
Continuous S	ynopsis Record						
(CSR)							
Crew Medica	l Certificates						

III. MANUALS & DOCUMENTS FOR ALL VESSELS							
Title		Approved By	Document Language	Crew Language	Comments		
Stability Information	n (Trim and						
Stability Booklet)							
Fire Control Plans							
Firefighting System	s and Op.						
Training Manual (cr	ew mess/						
cabin) and SOLAS	training						
manuals							
Firefighting System	s						
Maintenance Plan							
Shipboard Oil Pollu	tion						
Emergency Plan (S	OPEP)						
Title		Properly	Recorded	Com	nents		
Oil Record Book, Pa	art I						
Garbage Managem	ent Plan and						
Record Book							
Log Book							
Lifesaving Applianc	es						
Instructions for On-	Board						
Maintenance							
Title	Issued by	Examined by	Last Endorsement	Com	nents		
Cargo Gear		ACG					

IV. MANUALS & DOCUMENTS FOR TANKERS & CHEMICAL CARRIERS						
Title	Approved By	Document Language	Crew Language	Comments		
Operation Manual						
Oil Record Book, Part I and II						
Oil Discharge Manual						
Record of Oil Discharge						
Crude Oil Washing Manual						
	For Ch	emical Carriers				
P & A Manual						
Title	Properly	y Recorded	Com	ments		
Cargo Record Book						

MANUALS & DOCUMENTS FOR VESSELS CARRYING NOXIOUS LIQUID SUBSTANCES								
Title	Title Approved By Document Language Crew Language Comments							
Shipboard Marine Pollution								
Emergency Plan (SMPEP-NLS)								



VI. MANUALS & DOCUMENTS FOR LNG/LPG CARRIERS							
Title	Approved By	Document Language	Crew Language	Comments			
Operation Manual							
VII. MANUALS & DOCUMEN	TS FOR VESSELS C	ARRYING GRAIN					
Title	Issued By	Expiry Date	Crew Language	Comments			
Grain Loading Manual							
Certificate			Comn	nents			
Grain Loading Certificate							
VIII. MANUALS & DOCUMENTS FOR SPECIFIC TYPES OF VESSELS							

litle	
Enhanced Survey Report Files	
and Supporting Documents	
(ESP, ESDC Vessels)	
Damage Control Plan (dry cargo	
vessels constructed on or after	
1 Feb 1992)	
Cargo Securing Manual	
Bulk Carrier Booklet per SOLAS	
VI/7	
Previous Port State Control	
Inspection Results	
Loading Instrument/Computer	
(Required bulk carriers L>150m)	

IX. NAUTICAL PUBLICATIONS, INTERNATIONAL CONVENTION DOCUMENTS & FLAG ADMINISTRATION PUBLICATIONS

Q	uery	OK**	FIX	N/A	Comments
Charts (conventional paper	Up-to date w/latest				
charts)	corrections?				
Electronic Chart Display and	Up-to date w/latest				
Information System (ECDIS)	corrections?				
Sailing Directions	Up-to-date (latest editions)?				
List of Lights	Up-to-date (latest editions)?				
Notice to Mariners	Up-to-date (latest editions)?				
Tide Tables	Up-to-date (latest editions)?				
Int'l Code of Signals	Up-to-date (latest editions)?				
Illustrated Table of	Lip to date (latest editions)?				
Lifesaving Signals	op-to-date (latest editions)?				
Volume III of International					
Aeronautical and Maritime					
Search and Rescue Manual					
(IAMSAR)					
	SOLAS?				
IMO Convention	Collision Regs?				
Publications	MARPOL 73/78?				
(required on board)	Load Line?				
	STCW?				
Flag Administration Laws/Circulars	Up-to-date (latest editions)?				
Shipmaster's Medical Guide	Current?				
Other Publications Required for Voyage	As required?				

***"OK" as used as a column heading throughout this document is defined as "SATISFACTORY" or "IN COMPLIANCE" with the referenced Rules/Regulations as applicable.



X. RADIO INSTALLATION					
	Query	OK**	FIX	N/A	Comments
HF installa	ation function confirmed?				
MF installa	ation function confirmed?				
MF/HF ins	tallation function confirmed?				
IMARSAT	function confirmed?				
NAVTEX r	eceiver function confirmed?				
	Function in self test mode confirmed?				
	Validity of battery verified?				
Satellite	Certificate of annual test by Certified Radio				
EPIRB	Technician verified?				
	Expiry Date free float sensor service date				
	not >12 months verified?				
	Main source satisfactory?				
Dowor	Emergency satisfactory?				
Sources	Reserve source - batteries, verify acid (Sp				
Sources	gr), liquid level, terminal voltage				
	satisfactory?				
Antenna	No damage/missing parts?				
Antenna	Masts/brackets not wasted?				
Tools and	spares full complement available?				
Maintenan	ce records verified?				
Radio log	with proper entries verified?				
Clock ope	rates satisfactorily?				
Lighting no	ormal and emergency effective?				
Are call sig	gn, ship station ID and other applicable codes				
clearly ma	rked?				
Operation	and service manuals verified on board?				
Has a qua	lified Radio Technician inspected the radio				
equipment	t in the past year?				
Is the radio	o station license still valid?				
Are correct	t number of radar transponders on board?				
GMDSS	Radio personnel have valid Certificates?				
CINECC	Required number of operators on board?				
Is battery	room marked properly and "No Smoking" sign				
posted as	applicable?				
Is all rada	working properly?				

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XI. LIF	ESAVING EQUIPMENT				
Inflatable	Liferafts	OK	FIX	N/A	Comments
Serviced e	every 12 months along with hydrostatic				
release ur	nits except if extension authorized by Flag				
State?					
Container	stenciled with maker's name, serial number,				
last servic	e date, number of persons, launching				
instruction	s, length of painter, etc.?				
	Condition of stowage cradle?				
	Are the liferaft painters and hydrostatic				
	releases properly connected via a weak				
1:6	IIIIK /				
Literali	Emparkation ladder condition?				
Slowage	their designated stations and available to				
	float free?				
	Are launching instructions posted at liferaft				
	stations?				
l ifeboats	/Rescue Boats	ОК	FIX	N/A	Comments
External/in	nternal condition hull material and framing	UN	1 1/		
satisfactor	v (no visible wastage, doublers/				
reinforcem	nents fitted, fractures/holes noted)?				
Are side b	enches/thwarts, clutch holes, gunwales in				
satisfactor	v condition with no rot or wastage (including				
flooring, h	ull)?				
Each seat	ing position is clearly indicated?				
Are lifeboa	ats intended for launching down sides of				
vessel fitte	ed with skates/fenders in satisfactory				
condition?					
Is the lifeb	oat stern frame, rudder, stock, tiller and				
associated	d fittings in satisfactory condition?				
Except in	way of rudder/propeller are suitable				
handholds	provided or is buoyant line properly				
becketed a	around the outside of lifeboats above				
waterline	within reach of person in water?				
Are grab r	alls on underside of non-self-righting lifeboats				
In satisfac	tory condition? (Note: Handholds are to be				
	will bleak away lasteriers.)				
and moun	ting arrangements? Are suction/ discharge				
hoses in s	atisfactory condition with no tears/rot and is				
	rationally tested to confirm it is working				
properly?					
Are bilges	in lifeboats clean and free of water and/or oil				
or debris?					
Are water	containers in satisfactory condition?				
Is there su	Ifficient drinking water in lifeboat? Means				
should be	provided for collecting rainwater.				
Administra	ation may require manual powered				
desalinato	r.				
Are sea pa	ainter lines correctly attached using toggle pin				
and ready	tor immediate use? (Note: Painter should not				
be lashed	to deck.) Is toggle pin in satisfactory				
condition?					
is the num	the marked in clear a supercost is approved to				
carry clear	ny marked in clear permanent characters?				
is the nam	of how in block conitol lottors?				
Cauli Side	or now in nour capital letters?				



Lifeboats/Rescue Boats (Continued)	OK	FIX	N/A	Comments
Are the means of identifying the ship to which lifeboat				
belongs and the number of the lifeboat marked in a				
way that they are visible from above?				
Are lifeboats frapping lines, lifelines, manropes and rail				
lashings in satisfactory condition?				
Are inventory-required lifeboat equipment and				
provisions verified on board and loose equipment				
lashed to the boat (food medicine first aid etc.)?				
Are expiry dates of provisions, pyrotechnics and				
nortable fire extinguishers current?				
Are food/equipment lockers dry and watertight?				
Are cap/plugs attached with lanvard/chain provided for				
lifeboat automatic drains (open when boat not				
waterborne) clearly marked and operating				
satisfactorily?				
Salisiacionity?				
Are the medoal engine and clutch tested and do they				
operate satisfactorily in the anead and astern modes				
and can propeller disengage from the engine?				
Are the fuel tank and engine cover in satisfactory				
condition with no wastage/corrosion and is the fuel				
tank full?				
Are the lifeboat engine, foundation and exhaust pipe in				
satisfactory condition?				
Is lifeboat hand propelling equipment (if fitted)				
operating satisfactorily?				
Are lifeboat oars in satisfactory condition?				
Are oar locks/crutches secured with keeper chains?				
Are boat hooks and support plate in satisfactory				
condition?				
Is sea anchor with shock resistant hawser and tripping				
line (optional) present in satisfactory condition?				
Are buoyancy tanks in satisfactory condition?				
Are proper fire extinguishers on the lifeboats?				
If the boat has a cover, is the cover and its support in				
satisfactory condition?				
If the hoat has a sail, are the sail and its support in				
satisfactory condition?				
Is lifeboat compass bowl filled with liquid, card free to				
retate markings logible operating properly and				
doviation chocked?				
Upy a the rigid servers of analoged lifeboots and the				
lave the figure covers of enclosed lifeboals and the				
closing analycements for entrances been examined				
difu iouriu Salisiaciory?				
Have the safety belts for totally enclosed medicals				
been examined and found satisfactory?				
For air-cooled engines on partially/totally enclosed				
lifeboats, have ducting systems and manually-				
operated dampers been examined and tested and				
found satisfactory?				
For lifeboats with a self-contained air support system,				
nas the system, including visual indicators to indicate				
the air supply, been examined and found satisfactory?				
For fire-protected lifeboats that have water spray fire				
protection systems, have the self-priming motors,				
piping systems and nozzles, seawater intake, and the				
arrangements for enabling the system to be flushed				
with freshwater been examined and found				
satisfactory?				



Lifeboats/Rescue Boats (Continued)	OK	FIX	N/A	Comments
For rescue boats, have the weathertight stowage				
lockers for small equipment been examined and found				
satisfactory?				
Are water-resistant instructions for starting/operating				
the engines provided in a conspicuous place?				
Have the starter batteries and the means for				
recharging all batteries for all engine and searchlights				
been examined, tested and found satisfactory?				
Are lifeboat davits in satisfactory condition, including				
hand cranks, winches, sheaves, brakes, wheels,				
blocks and other associated fittings?				
Are lifeboats correctly stowed in davit?				
Is free fall lifeboat properly secured in its davit?				
Have lifeboats been lowered and drills satisfactorily				
completed (every 3 months) per regulations?				
Has the Annual Thorough Exam been carried out?				Date last done:
Have davit limit switches been tested and found				
satisfactory?				
Have launching devices/releasing gears been tested				
and found operating properly releasing all hooks				
simultaneously when boat is in the water?				
Has it been confirmed that on-load release gear have				Date last done:
been overhauled and tested at intervals not exceeding				
5 years?				
Have lifeboat falls been turned end-for-end at intervals				Date last done:
not more than 30 months as required? (Log the date.)				
Have lifeboat fails been renewed at intervals not				Date last done:
exceeding 5 years?				
they been tested?				
Liney been lested?				Date last done:
intervals not exceeding 5 years?				Date last dolle.
Is tricing pennant/connector in satisfactory condition				
and is tricing permant the proper length?				
Are embarkation ladders for lifeboats in satisfactory				
condition?				
Are embarkation lights working properly and able to				
illuminate the water? Is embarkation station in				
satisfactory condition (gates, handrails, etc.)?				
Are the embarkation lights on the emergency circuit?				
Are launching instructions displayed near stations				
under emergency lights?				
Is the raised access deck to lifeboats in satisfactory				
condition?				
Are embarkation areas free from unauthorized gear?				
Is only one type of releasing gear used for similar				
survival craft?				
Are the release mechanisms clearly marked in a				
contrasting color?				
For rescue boats, has the means for towing been				
examined and found satisfactory?				



XII. NAVIGATION EQUIPMENT						
	Query	OK	FIX	N/A	Comments	
Is the crew ca	apable of operating NAVTEX and are					
safety messa	ges available for review?					
Is a Voyage I	Data Recorder fitted and annual					
performance	test certificate of compliance on board?					
Is echo depth	sounder working properly with paper					
and Ink suppl	IEC ?					
IS 9 GHZ rada	ar fitted with display indicating range and					
If yossal GT	A second with 3 GHz or second					
9 GHz radar	with display indicating range and					
bearings with	input from the heading device?					
Is Electronic	Plotting Aid fitted to plot targets for					
collision avoi	dance with input from the heading					
device? If ves	ssel GT \ge 3K, is a second auto tracking					
aid fitted?						
Is a speed ar	nd distance measuring device available to					
indicate spee	d and distance through the water with					
input from he	ading device?					
	Is it visible to heimsman at main steering station?					
Gyro Compass	Are gyro repeaters with bearing devices with 360° visibility all satisfactory?					
•	Is gyro repeater at the emergency					
	steering position working?					
	Is it visible to helmsman at main steering position?					
	Is a means of communication between					
	standard compass and main steering					
	position provided?					
Magnetic Compass	Is compass properly adjusted and liquid free of bubbles?					
	Is spare compass interchangeable with					
	in-service compass and liquid free of					
	bubbles?					
	Is table or curve of compass deviation					
Emorgonov	(calibrated annually) provided?					
Steering	a magnetic of gyro repeater visible at emergency steering location?					
Position						
Heading	Is the communication system with main					
Indicators	steering position working properly?					
	Is automatic radar plotting aid capable of					
	auto plotting range and bearing of at					
All Ships	least 20 targets at once?					
GT ≥ 10K	Is vessel fitted with heading or track					
	control system to automatically control					
	track?					
	Is it fitted with rate of turn indicator?					
	Is it fitted with a speed and distance					
	measuring device indicating speed and					
31 2 30N	distance over ground forward and					
	athwartships?					
Are displays	for rudder angle, propeller revolutions,					
thrust, pitch a	and operational mode indicators visible at					
main steering	ງອເລແບກ?		1			



XII. NAVIGATION EQUIPMENT (Continued)						
	Query	OK	FIX	N/A	Comments	
If Electronic C (ECDIS) fitted provided?	Chart Display and Information System I, is it working with back-up paper charts					
Is receiver for	Global Satellite Navigation System fitted					
and working?						
Is totally enclo	osed bridge fitted with sound reception					
system to det	ect sound signals and direction?					
Is the Automa programmed	tic Identification System (AIS) with correct vessel particulars?					
Are the integr	ated bridge systems, if fitted, arranged					
with a failure	alarm for each system and back-up					
power so that	failure of one system does not disable					
others?						
Is a daylight s	ignal lamp or other means not dependent					
on ship's pow	er supply provided and working					
satistactorily?						
Are navigation lights working property, in satisfactory						
Are the pilot ladder and embarkation arrangement in						
satisfactory co	adder and embarkation analygement in					
be painted.)						
	Is it Type Approved by Administration?					
Mashawiaal	Is efficient hand gear provided in event					
Rilot Hoist	of power failure?					
FIIOLFIOISC	Is it securely attached to ship structure?					
	Is protected stowage position provided?					
Pilot Ladder	Are 2 manropes of diameter ≥ 28mm					
Equipment	secured to ship?					
(ready for	Is lifebuoy with self-igniting light					
immediate	provided?					
use)	Is a heaving line provided?					
	Tested within 12 hours of departure?					
Steering	Are instructions for change over for					
Gear	remote steering gear control and					
	steering gear power units displayed on bridge and steering gear apage?					
le there a our	onuge and steering year space?					
signale availa	ble on the bridge?					
Are all proper	training manuals present and current?					
rie all proper	training manuals present and cullent?					

XIII. LIFES	AVING APPLIANCES				
	Query	OK	FIX	N/A	Comments
Are at least 3	two-way VHF radiotelephones provided?				
	Is at least 1 fitted on each side of ship?				
	If free-fall lifeboat is fitted, is 1 stowed on				
Padar	lifeboat with other located in vicinity of				
Transpondor	navigation bridge?				
Transponder	Are available (battery valid) for				
	immediate transfer to any survival craft				
	or stored in each survival craft?				
Are fire/emerg	gency drills being held as required and				
being logged properly?					
Does general	emergency signal comply with SOLAS				
1974 as amer	nded?				



XIII. LIFESAVING APPLIANCES (Continued)					
	Query	OK	FIX	N/A	Comments
Are immersion	suits/anti-exposure suits provided for				
each member of rescue boat crew or person assigned to					
marine evacua	tion system party in satisfactory condition,				
stored properly	and ready for immediate use?				
Are thermal pro	ptective aids provided for persons not				
provided with in	mmersion suits? (Note: Not applicable if				
totally enclose	l lifeboats accommodate all on board.)				
	Is the proper number fitted port and				
	starboard for rapid release with one at				
	stern?				
	Is one each side fitted only with buoyant				
	30m meline or 2 times the height from				
	Are at least half number fitted with solf				
Lifebuove	aniting lights Are 2 fitted with self				
Cargo Shin	activating smoke canable of quick				
(Quantities)	release from navigation bridge and of				
No vs VsL	sufficient mass to operate such quick				
<u>110: 10: 10: E</u>	release arrangement or 4kg (whichever				
L<100m (8)	is greater)?				
L<150m (10)	Have self-igniting lights been tested and				
L<200m (12)	batteries examined for expiration dates?				
L≥200m (14)	(Note: For tankers, lights are to be				
	electric battery type.)				
	Are lifebuoy stowage brackets in				
	satisfactory condition? Can lifebuoys be				
	rapidly cast loose and not permanently				
	secured in any way?				
	Is each marked with vessel name and				
	port registry in block capital letters?				
	Are sufficient numbers provided for				
	every person on board and are they				
	property slowed and location plainly				
	Additional numbers provided for persons				
Lifejackets	on watch (bridge and engine room) and				
	in satisfactory condition?				
	In satisfactory condition with all				
	attachments (whistles, lights (on/off				
	switch if flashing), retro-reflective tape)?				
Is all emergend	cy lighting working correctly including				
machinery spa	ce, accommodation, bridge, control				
stations, outsic	le passages?				
Are emergency	escape routes indicated, satisfactorily				
lighted and cle	ar of obstructions?				
Is line-throwing	apparatus in satisfactory condition				
including four p	projectiles (with valid dates) capable of				
reaching distar	nce of 230m?				
Are all emerge	ncy lighting batteries charged from				
emergency sw	itchboard in satisfactory condition?				



QueryOKFIXN/ACommentsPermanently posted in accommodation space?accommodation space?accommodation space?accommodation space?Duplicate set permanently stored in highly visible weathertight enclosure outside deck house (P & S)?accommodation space?accommodation space?Verticate set permanently stored in highly visible weathertight enclosure outside deck house (P & S)?accommodation space?accommodation space?Verticate set permanently stored in highly visible weathertight enclosure outside deck house (P & S)?accommodation space?accommodation space?Firefighting Systems Equipment Maintenance and OperationReadily available in accessible location under one cover?accommodation space?accommodation space?Is manual in language understood by crew?accommodation space?accommodation space?accommodation space?	XIV. FIREFIGHTING EQUIPMENT							
Fire Control Permanently posted in accommodation space? Duplicate set permanently stored in highly visible weathertight enclosure outside deck house (P & S)? Are plans in language understood by crew? Up-to-date plans utilizing latest IMO A654, A952 symbols? Firefighting Systems Equipment Maintenance and Operation Is manual in language understood by crew?		Query	OK	FIX	N/A	Comments		
Fire Control accommodation space?		Permanently posted in						
Fire Control Duplicate set permanently stored in highly visible weathertight enclosure outside deck house (P & S)? Are plans in language understood by crew? Up-to-date plans utilizing latest IMO A654, A952 symbols? Firefighting Systems Equipment Maintenance and Operation Is manual in language understood by crew?		accommodation space?						
Fire Control Plans highly visible weathertight enclosure outside deck house (P & S)? Are plans in language understood by crew? Are plans in language understood by crew? Up-to-date plans utilizing latest IMO A654, A952 symbols? A654, A952 symbols? Firefighting Systems Readily available in accessible location under one cover? Equipment Maintenance and Operation Is manual in language understood by crew?		Duplicate set permanently stored in						
Outside deck house (P & S)? Are plans in language understood by crew? Up-to-date plans utilizing latest IMO A654, A952 symbols? Firefighting Systems Equipment Maintenance and Operation Is manual in language understood by crew?	Fire Control	highly visible weathertight enclosure						
Are plans in language understood by crew? Image: Are plans in language understood by crew? Up-to-date plans utilizing latest IMO A654, A952 symbols? A654, A952 symbols? Firefighting Systems Readily available in accessible location under one cover? Equipment Maintenance and Operation Is manual in language understood by crew?	Plans	outside deck house (P & S)?						
crew? Up-to-date plans utilizing latest IMO A654, A952 symbols? Firefighting Readily available in accessible location under one cover? Equipment Is manual in language understood by crew?	1 10113	Are plans in language understood by						
Up-to-date plans utilizing latest IMO A654, A952 symbols? Firefighting Readily available in accessible Systems location under one cover? Equipment Is manual in language understood by crew?		crew?						
Firefighting Readily available in accessible Systems location under one cover? Equipment Is manual in language understood by crew?		Up-to-date plans utilizing latest IMO A654, A952 symbols?						
Systems location under one cover? Equipment Maintenance and Operation Is manual in language understood by crew?	Firefighting	Readily available in accessible						
Equipment Maintenance and Operation Is manual in language understood by crew?	Systems	location under one cover?						
Maintenance and Operation Is manual in language understood by	Equipment							
and Operation crew?	Maintenance	Is manual in language understood by						
	and Operation	crew?						
Instruction	Instruction							
Manual	Manual							
"A" Class insulation on decks and		"A" Class insulation on decks and						
Structural Fire bulkneads found in good condition?	Structural Fire	bulkheads found in good condition?						
Protection All penetrations of "A" Class	Protection	All penetrations of "A" Class						
Dukneads satisfactory?	Have fire cores	DUIKNEAUS Satisfactory?						
Have life screen doors been lested and are sen-		hold back backs?						
Have the means of control for opening and closing	Have the mean	noid back nooks?						
skylights (no glass papels used), closure of all opening	skylights (no gla	s of control for opening and closing						
in funnels (which normally allow exhaust ventilation)	in funnels (which	h normally allow exhaust ventilation)						
and closure of ventilators' dampers been examined	and closure of y	ventilators' dampers been examined						
and tested and found satisfactory?	and tested and	found satisfactory?						
Operate easily and positions OPEN		Operate easily and positions OPEN						
and CLOSED clearly marked?		and CLOSED clearly marked?						
Is internal access to dampers		Is internal access to dampers						
provided as required for periodic		provided as required for periodic						
inspection?		inspection?						
Have fire dampers been internally		Have fire dampers been internally						
Eine Democra examined and proven structurally		examined and proven structurally						
sound for following spaces:	Fire Dampers	sound for following spaces:						
Cargo Holds?		Cargo Holds?						
Machinery/Pump Room Spaces?		Machinery/Pump Room Spaces?						
Accommodation Spaces?		Accommodation Spaces?						
Control Stations?		Control Stations?						
Galley Spaces?		Galley Spaces?						
Other Spaces?		Other Spaces?						
No leaks or excessive wastage		No leaks or excessive wastage						
Fire Main found?	Fire Main	found?						
Piping No doublers, clamps or soft patches	Piping	No doublers, clamps or soft patches						
on piping including supports found?		on piping including supports found?						
	Relief and							
Isolation Found to operate satisfactorily?	Isolation	Found to operate satisfactorily?						
Valves	valves	Are they leasted as noted an Fire						
Are they located as holed on Fire		Are they located as noted on FIFe						
Fire Stations	Fire Stations	Are conspicuously marked and						
painted in red colors?		painted in red colors?						



XIV. FIREFIGHTING EQUIPMENT (Continued)						
	Query	OK	FIX	N/A	Comments	
Hydrants	Are all hydrants and couplings of required sizes in satisfactory condition?					
Fire Hoses	Are required numbers/lengths per Fire Control Plans, on board and in satisfactory condition and of a non- perishable material? Is each fire hose, together with any necessary fittings and tools, kept					
	ready for use in a conspicuous position near water service hydrants or connections?					
Nozzles	Are required numbers of dual-purpose nozzles incorporating a shut off on board and in satisfactory condition (including gaskets)?					
Have the intern its gasket, 4 bo examined and f	ational shore connection(s), including Its and nuts, and 8 washers been found satisfactory?					
Are facilities pro either side of th and tested (usin make a connect	by b					
Main Fire	Operate satisfactorily? Deliver required pressure?					
1 unipo	Remote start tested (if applicable)?					
	Able to take adequate sea suction?					
	Prime mover satisfactory? Operating instructions posted?					
Emergency Fire Pump	Have the ventilation arrangements to the space containing the independent source of power for the emergency fire pump been examined and tested and found satisfactory? Are required numbers per Fire Control Plan properly located in					
Portable Fire Extinguishers (CO ₂ , dry	accommodation spaces, service spaces, engine room, navigation bridge and radio room?					
powder, foam, water)	Have they been serviced at intervals as specified by Flag Administration?					
	Are required spare charges or additional extinguishers on board?					
Portable	Are inductor type toam nozzle, 20 liter portable tank and 1 spare tank satisfactory?					
Foam	Has hose connection to fire main been tested and found satisfactory?					
Applicators	Has foam concentrate been tested and replaced as specified by Flag Administration?					



XIV. FIREFIGHTING EQUIPMENT (Continued)						
	Query	OK	FIX	N/A	Comments	
Foam Type	Are required numbers of Type Approved units fitted per Fire Control Plan properly located in machinery spaces containing oil fired boilers or fuel oil units?					
(Capacity 135 Liters)	Is reel-mounted hose in good condition and able to reach entire space protected?					
	Have they been serviced at intervals and foam replaced as specified by Flag Administration?					
Foam Type Extinguisher (Capacity 45 Liters)	Are the required numbers of Type Approved units fitted per Fire Control Plan properly located in machinery spaces containing internal combustion machinery or steam turbines or enclosed steam engines?					
Fixed Fire	Are distribution pipes and nozzles satisfactory without excessive corrosion?					
Extinguishing Systems in Machinery and Cargo Spaces (CO ₂ , foam, water spray)	Is distribution piping periodically blown through to confirm no blockages?					
	Are CO ₂ cylinders weighed and serviced as specified by Flag Administration?					
Note: Storage space access	Administration requirements? Is CO ₂ release alarm periodically					
door to open outward.	Is foam liquid tested at intervals specified by Flag Administration and is Test Certificate available on board?					
Fire Detection and Alarm Systems	Have scheduled inspections and tests been carried out?					
F. O. Tank Quick Acting Shut Off Valves (Capacity >500L)	Is satisfactory operation of remote closing arrangements confirmed?					
Have 2 means of stopping forced transfer pumps, been examined	of control, 1 outside space, for and induced draught fans, oil fuel oil fuel unit pumps, and similar pumps and tested and found satisfactory?					
Fuel Supply Isolation to Multiple Engines	Are means provided in good order and operational?					



XIV. FIREFIGHTING EQUIPMENT (Continued)						
	Query	OK	FIX	N/A	Comments	
	Are required numbers of sets on board? Cargo Ship - 2 sets Tanker - 4 sets					
Fireman's	Are protective clothing, boots,					
Outfit	lamps and axes in good condition?					
	Are 2 spare changes provided for each unit? Are storage locations clearly marked and indicated on Fire Control Plan?					
Paint Locker Fire Protection	Are fixed CO ₂ , dry powder, or water spray system or portable extinguisher, if approved by Flag Administration, serviced?					
Inert Gas System (Tankers DWT>20K)	Is the system including piping, PV valves, branch lines, deck water seal and loop arrangement and associated equipment in satisfactory condition?					
Gas Measurement (Tankers)	Are portable oxygen meter and flammable gas detector calibrated with set of spares?					
Emergency Lighting	Is the lighting in machinery spaces, accommodation, navigation bridge, control stations and passageways satisfactory?					
Means of Escape	Are escape routes free of obstructions and provided with emergency lighting?					
Emergency Escape Breathing	Positioned in accommodation and machinery spaces as required by Flag Administration and shown on the Fire Control Plan?					
Devices	with manufacturer's recommendations?					
Deep-Fat Cooking	Is extinguishing system serviced and controls clearly labeled?					
Equipment Fire Extinguishing System	Is alarm and auto shut off electrical supply working?					
	Is lighting/ventilation interlock working?					
Cargo Pump Room	Are continuous hydrocarbon monitoring system and alarms working?					
Protection	Is pump shaft gland monitoring and alarm system working?					
	is blige level monitoring and alarm system working?					



XIV. FIREFIG	XIV. FIREFIGHTING EQUIPMENT (Continued)								
	Query	OK	FIX	N/A	Comments				
Helicopter Facilities	Are structure, firefighting appliances, refueling and operation and training manuals in accordance with approved plans?								
Where there is direct access from the machinery space containing the emergency fire pump and its source of power, have the arrangements for access been examined and tested and found satisfactory?									
Are oxygen/acetylene cylinders properly stored? (Note: They should not be stored in crew's quarters, engine room or in the paint locker.)									

XV. SAFETY CONSTRUCTION ITEMS						
	Query	OK	FIX	N/A	Comments	
Is the steering	gear control system operating properly,					
including all ala	irms?					
Are officers kno	wledgeable in the emergency steering					
procedures?						
Is the insulation	n reading normal for steering gear					
motors?						
Is communicati	on equipment between the bridge/					
steering gear c	ompartment working properly?					
Have required	arrival and departure tests been carried					
out (testing ste	ering, general alarms, whistle, etc.)?					
Are electric out	lets and fixtures in crew cabins in					
satisfactory cor	ndition in accordance with International					
Labor Organiza	ation requirements?					
Do doors to ac	commodation spaces close properly?					
	Are level alarms (audible and visual) in					
	each cargo hold operating properly at 2					
	alarm points 0.5M and not >2M above					
	tank top and protected from damage?					
Water Level	Are level alarms (audible and visual)					
Detectors	operating properly at alarm point 10% of					
(ESP Bulk	tank capacity in any ballast tank located					
Carriers Only)	forward of collision bulkhead?					
SOLAS XII/12	Are level alarms (audible and visual) in					
	each dry or void space any part of which					
	is extending forward of the forward most					
	hold operating properly at alarm point					
	0.1M above the deck?					
Dewatering	Are forepeak tank, Bosn's store and					
Arrangement	f'oc'sle space able to be drained by					
(ESP Bulk	pumps or eductors that can be operated					
Carriers Only)	from navigation bridge or engine control					
SOLAS XII/13	room without traversing exposed decks?					
	Are emergency towing arrangements					
_	fitted to both ends of the tanker capable					
Emergency	of rapid deployment without main power					
Towing	on vessel? (Note: Applies only to tankers					
Arrangements	with date of construction from 1 July					
(Tankers	2002. Tankers with prior construction					
DWT≥20K)	date subject to Flag Administration					
	requirements.)					
	Is at least one pre-rigged?					



XV. SAFETY CONSTRUCTION ITEMS (Continued)						
	Query	OK	FIX	N/A	Comments	
	Are all external high-pressure fuel oil					
	delivery lines between pumps and					
Fuel Oil	injectors fully jacketed with collection					
Arrangements	system and alarm? (Note: Engine					
Vessels Built Refere						
	Are all surfaces with temperatures					
1 duly 1000	above 220°C subject to fuel oil					
	contact properly insulated?					
XVI. MARIN	E POLLUTION PREVENTION ITEMS					
Is approved SC	DPEP/SMPEP-NLS/SMPEP up-to-date					
and in working	language of Master and officers?					
Do transfer pro	cedures contain instructions for					
reporting oil dis	charges (or hazardous cargoes) into					
the sea?						
Is the Oil Reco	rd Book in the latest format and filled					
out properly ba	sed on actual operations and using					
ls the 15 ppm a	ues?					
is the 15 ppm alarm including auto stop operating satisfactorily?						
For 15 ppm bild	ne alarm under MEPC 107(49) does					
the recording d	evice contain records for at least 18					
months?						
Is there a calibi	ration certificate for the 15 ppm bilge					
alarm provided	al every renewal survey? Has the					
manufacturer o	r persons authorized by the					
manufacturer a	ccording to the manufacturers					
instructions at i	ntervals not exceeding 5 years?					
Are bilge and a	ludgo nump arrangomento in					
compliance wit	h MARPOL regulations?					
Is the automatic	c stopping device for the oily water					
separator work	ing properly?					
•	There are no overboard discharge					
Oily Water	by-pass fittings installed?					
Separator (OWS)/	Are all associated gauges, piping					
	and valves in satisfactory condition?					
Oil Filtering	Are filters changed as necessary?					
⊢quipment	Are they properly installed in					
	accordance with approved plans?					
Sludge Pump	Is operation confirmed satisfactory?					
Standard	Is available port and starboard					
Connection	sides?					



XVI	. MARINI	E POLLUTION PREVENTION ITEMS (Continue	ed)		
	Oil	Are manual and auto means of discharge working?				
	Monitor (ODM)	Have alarms, indicators/meters and recorders been tested? Are spare consumables provided?				
ers	Oil/Mator	Is unit Type Approved?				
Tanke	Interface Detector	Is unit operating satisfactorily?				
	Crude Oil	Is system arranged as outlined in Operations and Equipment Manual?				
	System	Are piping, pumps, valves and deck machines free of leaks?				
ls a	separate C	argo Record Book being used for				
Annex II (NLS) cargoes?						
The sludge tank does not have a direct connection						
overboard.						
Gai Mai	rbage nagement	Are pollution placards displayed?				

XVII. LOAD LINE ITEMS					
	Query	OK	FIX	N/A	Comments
Is the "Record of	Conditions of Load Line Assignment"				
on board with no	substantial modifications carried out?				
Are load line ma	rks on side of vessel clearly visible				
and in accordance	ce with the Load Line Certificate? Are				
draft marks also	clearly visible?				
Is stability inform	ation provided and in a language				
understandable	to the officers and crew?				
Are railings and	catwalks in satisfactory condition?				
	Are coamings including deck				
	connections, stiffeners and stay and				
	brackets in satisfactory condition?				
	Are mechanically-operated steel				
	hatch cover plating, stiffeners, cross				
Cargo Hatches	joints, gaskets, cleats, and dogs in				
and Covers	satisfactory condition?				
	Are portable wood or steel hatch				
	covers, portable beams, carriers and				
	securing devices, steel pontoons,				
	tarpaulins, cleats, battens and				
	wedges structurally sound and				
	weathertight?				
A	Are gaskets and clamping devices in				
ACCESS	satisfactory condition?				
Hatches	Are natch coamings in satisfactory				
	condition?				
is the superstruc	ture end buikneads structure sound				
with corrosion ne	Are they effectively we atherticat?				
	Are the seekete and elemping				
	Are the gaskets and clamping				
Weathertight	devices operable from both sides in				
Doors	Satisfiable y contaition?				
	is the sill height ≤380mm (15 m).) In bulkboads at onds of onclosed				Lesser height may be allowed if
	superstructures?				freeboard is increased.
	superstructures?				



XVII. LOAD LINE ITEMS					
	Query	OK	FIX	N/A	Comments
	Are they provided with weathertight enclosures?				
Machinery	Are Fiddley openings fitted with steel				
Space	weathertight covers? Are gaskets				
Openings	and securing devices in satisfactory				
	condition?				
Miscellaneous	Are manholes and flush scuttles				
Openings	closed by substantial weathertight				
Freeboard and	covers?	ļ			
Superstructure	Are they permanently secured unless				
Decks	secured by closely spaced bolts?	<u> </u>			
	Are coamings >900mm height supported?				
Ventilators	If required, is weathertight cover				
	permanently attached or stowed				
	nearby?	<u> </u>			
	Is minimum neight above freeboard				Lesser height may be allowed if
	deck \geq 760mm, on superstructure				freeboard is increased.
Air Pipes	Is there an automatic_type means of				
	closing that is weathertight?				
	Have closing devices been opened				
	and examined in accordance with				
	class requirements?	<u> </u>			
Cargo Ports	Are they fitted with watertight doors				
and Similar	with daskets and securing devices?				
Openings	with gaskets and seconing devices :	Ļ			
	Is each automatic non-return valve				
Scupper, Inlets	with positive means of closure from				
and Discharges	above freeboard deck in satisfactory				
	contaition? (Note: Material should be				
	Ear spaces below freeboard deck				
	are they fitted with efficient				
Sidescuttles	watertight hinges inside deadlights?				
	Are glasses in good condition and				
	made of approved material?				
	Are they free of obstructions to allow				
Freeing Ports	rapid draining and protected by rails				
-	or bars 230mm apart?				
	Are guardrails and bulwarks				
	(minimum height 1m) on exposed				
	freeboard and superstructure decks				
Protection	in good condition?				
of Crew	Are guardrails, litelines, gangways	1			
	or under-deck passageways in good				
	order and free of obstructions or				
	uamage?	I.		1	



XVIII. CLASSIFICATION AND OTHER SURVEYS								
Survey Due Dates	Next Due Date	Date Last Surveyed	Comments					
Annual Hull Survey								
Annual Machinery Survey								
Intermediate Survey								
Special/Continuous Hull Survey								
Special/Continuous Machinery Survey								
Drydocking Survey								
Tailshaft Survey								
Boiler Survey								
Annual Inert Gas Survey								
Special/Continuous Inert Gas Survey								
Annual Refrigeration Survey								
Special/Continuous Refrigeration Survey								
Annual Automation Survey								
Special/Continuous Automation Survey								
Other Classification Surveys (List)								

CLASSIFICATION ITEMS					
XIX. HULL ITEMS					
Query	OK	FIX	N/A	Comments	
Are accommodation accesses in satisfactory					
condition with no seized doors and frozen dogs?					
Have accommodation ladders and gangways been					
checked and found satisfactory?					
Are the accommodation doors leading to and from					
the engine room been examined and tested to prove					
they close properly? Are they in satisfactory					
condition?					
Have ballast tanks been checked for structural					
wastage/damage?					
Is bulbous bow plating in satisfactory condition?					
Have access ladders to cargo holds been checked?					
Are they satisfactory?					
Have cargo holds including tank tops been checked					
for structural damage, wastage, etc.?					
Have cargo tanks been checked for leaks (cargo					
leading from cargo tanks into segregated ballast					
tank)?					
Has the engine room structure, especially in way of					
the bilge knuckle and forward bulkhead, been					
examined recently? Was it found satisfactory?					
Has the chain locker been checked for heavy					
corrosion?					
Has the collision bulkhead been checked for					
fractures, holes and wastage?					
Have decks been checked for holes and wastage,					
especially in mast house where damage may be					
overlooked?					
Have deck walkways and platforms been checked					
for wastage?					



XIX. HULL ITEMS (Continued)				
Query	OK	FIX	N/A	Comments
Have mooring arrangements including mooring ropes and wires, anchoring and mooring winches and brake bands been examined and proven in good working order?				
Are all of the port and starboard anchor chain studs tight? Are there any studs missing? Is the chain guide roller in good order?				
Has the side shell plating been checked for deformations and wastage?				
If doublers have been fitted on decks, hatch covers, hatch coamings and/or ventilator coamings, is there a record when they were installed? Have surrounding areas been checked for wastage? If fitted, has it been brought to the attention of the class surveyor?				
Has the forecastle storage space been checked for wastage or structural damage?				
Has the forepeak tank been checked for corrosion or structural damage?				
Are there any leaks in the steering gear compartment, (from stern post, steering gear rams, etc.)? If so, were they fixed in a satisfactory manner?				
Have the engine room skylights been examined and tested to see that they close properly? Are they in good condition?				
Has the windlass foundation been checked for wastage?				

XX. MACHINERY ITEMS

				-
Query	OK	FIX	N/A	Comments
Has the anchor windlass been checked for worn				
brake linings?				
Has the ballast stripping educator pipe been checked				
for leaks?				
Has the emergency hand pump for air starting the				
emergency fire pump been tested recently?				
Have handrails in the engine room been checked				
(any broken or missing ones to be repaired)?				
Have deck hydraulic lines been checked for leaks,				
corrosion, damage, etc.?				
Have engine room fire/ballast lines been checked for				
holes, soft patches, wastage, etc.?				
Has the sewage piping in the engine room been				
examined? Is any of the piping leaking or fitted with				
patches?				
Has all of the piping in the engine room been				
examined? Was any of the piping fitted with				
patches? If so, has it been brought to the attention of				
the class surveyor?				
Are all of the gauges attached to the pumps and				
piping systems working properly?				
If there are any belt-driven type pumps, do guards				
provide protection and are they in place?				



XX. MACHINERY ITEMS (Continued)				
Querv	OK	FIX	N/A	Comments
Have all of the pumps in the engine room been				
examined? If there is leakage through the seals or				
glands, has it been stopped? Do any of the pump				
casings have patches? If so, has it been brought to				
the attention of the class surveyor? Are all of the				
pumps in good working order?				
Have all of the coolers in the engine room been				
examined? If there is leakage, has it been stopped?				
Do any of the cooler end casings have patches? If				
so, has it been brought to the attention of the class				
surveyor? Are all of the coolers in good working				
order?				
Have the overboard discharge valves and sea				
suction valves been examined for leakage and/or				
corrosion?				
Are the engine room floor plates free from oil and not				
slippery?				
Is the engine room clean and free from oil in bilges				
and under generators?				
Is the main engine oil mist detector working				
correctly?				
Has the emergency generator radiator been				
checked?				
Have auxiliary engines been checked for water				
leakage?				
Is the rudder indicator on the bridge reading the				
same as the one in the steering gear compartment?				
Have the engine room self-closing doors been				
checked for satisfactory operation (hold backs				
removed)?				
Is the turbo charger gas inlet insulated?				
Has all lagging in the engine room been checked? If				
found missing or soaked with oil, has it been				
replaced?				
Have the engine room fan dampers been visually				
examined, tested and proven to be in good repair				
and working order?				
Have all of the remote quick closing fuel valves been				
examined, tested and proven to be in good working				
order?				
Is the retrigeration machinery for the reefer boxes				
operating satisfactory?				
Has the emergency air compressor been examined,				
tested and found to operate satisfactorily? If diesel				
Unvert, is the exhaust line lagging in good condition?				
nave any megal connections been made to the blige				
Are all of the solf closing devices on the sounding				
nice an of the engine room in good order and working				
pipes in the engine room in good order and working				
Have there been any coment hoves fitted in the				
engine room? If so, have they been brought to the				
attention of the class surveyor?				
Has the dead shin start un recently been tested? Did				
everything work satisfactorily including emergency				
air compressor or hand numn compressor and				
emergency generator, whichever is applicable?				



XXI. BOILERS				
Query	OK	FIX	N/A	Comments
Have the boiler safety valves easing gears/wires				
been tested at last survey and are they in good				
working order?				
Have the boiler gauge glass valves been examined				
and are they in good working order? Is a drainpipe				
fitted?				
Are boiler gauge glasses clean and can the water				
level be seen?				
Are boiler gauge glass guards fitted?				
Have the high and low water level alarms been				
tested recently?				
Are there any exhaust gas leaks from the boiler?				
Is the lagging for the boiler in place and in good condition?				

XXII. ELECTRICAL ITEMS				
Query	OK	FIX	N/A	Comments
Have control circuit relays been checked for wear or damage?				
Have deck lights been checked for breakage or				
exposure?				
Has the emergency circuit been tested?				
Has the electrical supply to navigation lights been				
checked for damage/safety aspects?				
Have lights been checked for proper wiring in main				
deck house?				
Have breaker panel doors and electrical motor				
closures been checked for damage or missing				
doors?				
Have lights throughout accommodations, bathrooms				
and engine room been checked and found with				
globes and fitted guards, where required?				
Has the electrical wiring been examined? Is it				
properly supported and in good condition? Has the				
electrical system been checked for open circuits?				
Has the electrical conduit on deck been examined				
recently? (Note: Damaged areas are to be replaced				
or repaired.)				
Have generator reverse power relays been tested recently?				
If any of the generators are not working and/or have				
been disabled, has it been brought to the attention of				
the class surveyor?				
Are electrical switchboard meters functioning				
properly?				
Have all motor control panels been examined				
recently and are they in good repair and working				
order?				
Is non-conducting matting (material) provided at				
each switchboard, both in the front and behind? Are				
they also fitted at the emergency switchboard?				
Are the starting batteries for the emergency				
generator in good order?				



XXIII. CREW RESPONSIBILITIES, ILO ITEMS, WORKING SPACES						
Query	OK	FIX	N/A	Comments		
Are all of the accommodation rooms/spaces being						
used for what they are designated for? (Example of a						
problem is crew's gym used as an engine room						
store.)						
Are all of the accommodation rooms/spaces kept						
clean and tidy?						
Is the accommodation heating system/ventilation						
working properly?						
Is the engine room clean? (Note: No accumulation of						
oily rags and garbage.)						
Are hot and cold water available to all						
crewmembers?						
Is water pressure available to the water closets?						
Has all garbage been removed from the vessel?						
Are paint, thinners and solvents stored outside the						
accommodation spaces, stores and all machinery						
spaces? (Note: They should be stored in the paint						
store.)						
Are cockroaches and other insects properly dealt						
with?						
Are crew bathrooms, water closets and sinks						
operating properly?						
Have the galley hot plate filters been changed						
recently? Is the galley uptake dirty? Are grease filters						
fitted over the galley stove? Is the trunking dirty?						
If drinking water fountains are fitted throughout the						
Vessel, are they in good working order?						
Are there sufficient provisions on board?						
Is the machinery installed in the engine room						
workshop in good working order? Are the necessary						
protection devices in place? Are protective gloves						
property?						
ls the refrigerator room alarm (for being locked in)						
is the reingerator room alarm (for being locked in)						
Are the batteries stewed properly in the battery						
locker?						
Is the origine room crane stowed properly when not						
is the engine room crane slowed propeny when not						
In use :						
removed from this space?						
Is there any oil leaking from the main engine? If so						
has it been stopped and cleaned un?						
Is the gangway in good working order and is it safe						
		l				

XXIV. OTHER ITEMS	•				
	Query	OK	FIX	N/A	Comments





WORLD HEADQUARTERS

ABS Plaza 16855 Northchase Drive • Houston, TX 77060 USA Tel: 1-281-877-5800 • Fax: 1-281-877-5803 Email: abs-worldhq@eagle.org

DIVISIONAL HEADQUARTERS

EUROPE

ABS House No. 1 Frying Pan Alley • London E1 7HR, UK Tel: 44-20-7247-3255 • Fax: 44-20-7377-2453 Email: abs-eur@eagle.org

PACIFIC

438 Alexandra Road #10-00 • Alexandra Point Singapore 119958 • Republic of Singapore Tel: 65-6276-8700 • Fax: 65-6276-8711 Email: abs-pac@eagle.org

AMERICAS

ABS Plaza 16855 Northchase Drive • Houston, TX 77060 USA Tel: 1-281-877-6000 • Fax: 1-281-877-6001 Email: abs-amer@eagle.org

> Website www.eagle.org



2 FIRE EXTINGUISHING SYS CARGO HOLD CABINET

