

TECHNICAL RULES FOR STATUTORY CERTIFICATION OF MARITIME OBJECTS, September 2014

RULES FOR STATUTORY CERTIFICATION OF SEA-GOING SHIPS

<i>Title</i>	<i>Date of coming into force</i>	<i>Date of publication in Official Gazette</i>
PART 1. GENERAL REQUIREMENTS		
Ch. 1. <i>General information</i>	15 March 2011	27/2011
Ch. 2. <i>Survey during construction and initial survey</i>	15 March 2011	27/2011
Ch. 3. <i>Certification of products</i>	15 March 2011	27/2011
Ch. 4. <i>Approval of service suppliers</i>	15 March 2011	27/2011
Ch. 5. <i>Surveys of ships in service</i>	15 March 2011	27/2011
PART 4. STABILITY	1 September 2009	65/2009
<i>Amendments No. 1</i>	1 January 2011	141/2010
PART 5. SUBDIVISION	1 January 2011	141/2010
PART 6. FREEBOARD	1 July 2009	65/2009
PART 14. RADIO EQUIPMENT	1 July 2009	65/2009
<i>Amendments No. 1</i>	15 March 2011	27/2011
<i>Amendments No. 2</i>	1 August 2011	89/2011
PART 15. SIGNALLING MEANS	24 July 2014	118/2014
PART 16. NAVIGATIONAL AIDS	1 July 2011	74/2012
<i>Amendments No. 1</i>	1 July 2013	80/2013
PART 17. FIRE PROTECTION	24 July 2014	118/2014
PART 18. LIFE-SAVING APPLIANCES	1 July 2009	65/2009
<i>Amendments No. 1</i>	1 January 2011	141/2010
<i>Amendments No. 2</i>	31 December 2012	146/2012
PART 19. CARGO HANDLING GEAR AND LIFTING APPLIANCES	25 September 2014	118/2014
PART 20. PROTECTION AT WORK AND CREW ACCOMMODATION	1 January 2010	147/2009
PART 21. CARRIAGE OF PASSENGERS	1 July 2009	65/2009
PART 22. POLLUTION PREVENTION	1 January 2013	146/2012
<i>Amendments No. 1</i>	1 July 2013	80/2013
PART 23. CARRIAGE OF CARGO	1 July 2009	65/2009
PART 30. SAFETY MANAGEMENT	1 July 2010	82/2010
PART 31. SHIP SECURITY	1 October 2012	109/2012
MARINE EQUIPMENT	30 November 2013	133/2013
RULES FOR TONNAGE MEASUREMENT OF MARITIME OBJECTS	1 July 2009	65/2009

Contents:

- 1 THE RULES**
- 1.1 TECHNICAL RULES FOR STATUTORY CERTIFICATION OF MARITIME OBJECTS
- 1.2 RULES FOR STATUTORY CERTIFICATION OF SEA-GOING SHIPS
- 2 DEFINITIONS**
- 3 TECHNICAL SUPERVISION**
- 3.1 GENERAL
- 3.2 DUTIES OF THE COMPANY OR OF THE OWNER
- 4 CERTIFICATES AND DOCUMENTS**
- 4.1 ISSUE AND ENDORSEMENT
- 4.2 PERIOD OF VALIDITY
- 4.3 EXTENSION OF THE PERIOD OF VALIDITY
- 4.4 MAINTAINING AND CEASING OF VALIDITY OF THE CERTIFICATES
- 4.5 REINSTATING THE VALIDITY

Contents:

1 SURVEY DURING CONSTRUCTION

1.1 GENERAL REQUIREMENTS

1.2 TECHNICAL DOCUMENTATION

1.3 SURVEY DURING CONSTRUCTION OF HULL, BUILDING IN OF MACHINERY,
INSTALLATIONS AND EQUIPMENT

1.4 CERTIFICATES AND DOCUMENTS

2 INITIAL SURVEY OF EXISTING SHIPS

2.1 GENERAL

2.2 CRITERIA FOR TECHNICAL ACCEPTANCE

2.3 INITIAL SURVEYS OF CARGO AND PASSENGER SHIPS REGISTERED IN THE COMMUNITY
MEMBER COUNTRIES

ANNEX I

REGULATION (EC) No. 789/2004 OF THE EUROPEAN PARLIAMENT AND OF THE
COUNCIL of 21 April 2004 on the transfer of cargo and passenger ships between registers
within the Community and repealing Council Regulation (EEC) No 613/91

Contents:

1 GENERAL INFORMATION

Contents:

- 1 GENERAL INFORMATION**
- 2 GENERAL CRITERIA FOR THE APPROVAL OF SERVICE SUPPLIERS**
- 3 PROCEDURE FOR APPROVAL**

Contents:

1 GENERAL REQUIREMENTS

- 1.1 APPLICATION
- 1.2 DEFINITIONS
- 1.3 DUTIES OF THE COMPANY

2 TYPE OF SURVEYS

- 2.1 INITIAL SURVEY
- 2.2 PERIODICAL SURVEYS
- 2.3 CONTINUOUS SURVEY
- 2.4 BOTTOM SURVEY
- 2.5 OTHER SURVEYS

3 PREPARATIONS, CONDITIONS AND DOCUMENTATION FOR SURVEY

- 3.1 SURVEY PLANNING PROGRAMME FOR ESP SHIPS
- 3.2 PREPARATIONS AND CONDITIONS FOR SURVEY
- 3.3 DOCUMENTATION
- 3.4 REQUIREMENTS FOR SAFE ENTRY TO CONFINED SPACES

4 SURVEYS AND CERTIFICATES

- 4.1 CARGO SHIP SAFETY CONSTRUCTION CERTIFICATE
- 4.2 INTERNATIONAL LOAD LINE CERTIFICATE
- 4.3 CARGO SHIP SAFETY EQUIPMENT CERTIFICATE
- 4.4 CARGO SHIP SAFETY RADIO CERTIFICATE
- 4.5 INTERNATIONAL OIL POLLUTION PREVENTION CERTIFICATE AND OIL POLLUTION PREVENTION CERTIFICATE
- 4.6 *VOID*
- 4.7 INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE OF DANGEROUS CHEMICALS IN BULK AND CERTIFICATE OF FITNESS FOR THE CARRIAGE OF DANGEROUS CHEMICALS IN BULK
- 4.8 *VOID*
- 4.9 CERTIFICATE OF FITNESS FOR THE CARRIAGE OF DANGEROUS GOODS
- 4.10 PASSENGER SHIP SAFETY CERTIFICATE
- 4.11 CERTIFICATE ON THE SEA-GOING SHIP'S ABILITY FOR NAVIGATION
- 4.12 CERTIFICATE ON THE PROTECTION AT WORK AND ACCOMMODATION OF THE CREW AND OTHER PERSONS ENGAGED ON BOARD SHIP
- 4.13 CERTIFICATE ON EXAMINATION AND SURVEY OF THE CRANE OR HOISTING DEVICE, INTENDED FOR THE OPERATIONS ON BOARD SHIP
- 4.14 CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF THE LIFT
- 4.15 FLOATING UNIT SAFETY CERTIFICATE
- 4.16 REGISTER OF LIFTING APPLIANCES AND ITEMS OF LOOSE GEAR
- 4.17 HIGH SPEED CRAFT SAFETY CERTIFICATE
- 4.18 DYNAMICALLY SUPPORTED CRAFT SAFETY CERTIFICATE
- 4.19 INTERNATIONAL SEWAGE POLLUTION PREVENTION CERTIFICATE
- 4.20 INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE
- 4.21 INTERNATIONAL ANTI-FOULING SYSTEM DECLARATION AND INTERNATIONAL ANTI-FOULING SYSTEM CERTIFICATE
- 4.22 SPECIAL PURPOSE SHIPS COMPLYING WITH THE REQUIREMENTS OF IMO Res. A.534(13)

5 SUPPLEMENT

- 5.1-1 Table - Certificates and related survey intervals
- 5.1-2 Table - Examination of the parts/systems and survey intervals
- 5.1-3 Table - Survey intervals and due dates for Docking survey
- 5.1-4 Table - Service intervals for safety equipment

ANNEX A - Hull Surveys of Chemical Tankers

ANNEX B - Hull Surveys of Double Hull Bulk Carriers

ANNEX D - Sketches

Contents:

1 GENERAL

- 1.1 APPLICATION
- 1.2 DEFINITIONS AND EXPLANATIONS
- 1.3 SCOPE OF SUPERVISION
- 1.4 GENERAL TECHNICAL REQUIREMENTS
- 1.5 STABILITY INFORMATION FOR THE MASTER
- 1.6 OPERATIONAL PROVISIONS AGAINST CAPSIZING
- 1.7 DETERMINATION OF LIGHT-SHIP DISPLACEMENT AND CENTRES OF GRAVITY
- 1.8 DEPARTURES FROM THE RULES
- 1.9 CONDITIONS OF SUFFICIENT STABILITY
- 1.10 PASSAGE OF SHIPS FROM ONE PORT TO ANOTHER

2 GENERAL REQUIREMENTS ON STABILITY

- 2.1 GENERAL INTACT STABILITY CRITERIA
- 2.2 ALLOWANCE FOR ICING

3 ADDITIONAL REQUIREMENTS FOR STABILITY

- 3.1 PASSENGER SHIPS
- 3.2 DRY CARGO SHIPS
- 3.3 TIMBER CARRIERS
- 3.4 TANKERS
- 3.5 FISHING VESSELS
- 3.6 SPECIAL PURPOSE SHIPS
- 3.7 TUGS
- 3.8 VESSELS OF DREDGING FLEET
- 3.9 CONTAINER SHIPS UP TO 100 m IN LENGTH
- 3.10 CONTAINER SHIPS GREATER THAN 100 m IN LENGTH
- 3.11 OPEN-TOP CONTAINER SHIPS
- 3.12 OFFSHORE SUPPLY VESSELS
- 3.13 CARGO SHIPS CARRYING GRAIN IN BULK
- 3.14 HIGH - SPEED CRAFT

4. REQUIREMENTS FOR THE STABILITY OF PONTOONS, PONTOON-CRANES, DOCKS AND BERTH-CONNECTED SHIPS

- 4.1 PONTOONS
- 4.2 FLOATING CRANES
- 4.3 FLOATING DOCKS
- 4.4 BERTH-CONNECTED SHIPS

APPENDIX 1

INSTRUCTIONS ON DRAWING UP THE STABILITY BOOKLET

APPENDIX 2

DETERMINATION OF CAPSIZING MOMENT

- 1 DETERMINATION OF THE CAPSIZING MOMENT OF PASSENGER, CARGO AND FISHING VESSELS
- 2 DETERMINATION OF CAPSIZING MOMENT FOR DREDGERS

APPENDIX 3

INSTRUCTIONS FOR DETERMINATION OF THE SHIP'S CENTRE OF GRAVITY BY INCLINING TEST

- 1 GENERAL
- 2 WEATHER CONDITIONS AND SHIP'S POSITION DURING THE TEST
- 3 MOORING ARRANGEMENTS
- 4 PREPARING THE SHIP FOR THE TEST
- 5 FREE SURFACE AND TANKAGE
- 6-a TEST WEIGHTS
- 6-b INCLINING TANKS1
- 7 SURPLUS AND MISSING LOADS
- 8 MEASUREMENT OF DRAUGHTS, FREEBOARD AND CALCULATION OF DISPLACEMENT
- 9 DETERMINATION OF INCLINING ANGLES3
- 10 PERFORMING THE INCLINING TEST BY THE METHOD OF WEIGHT SHIFTING
- 11 DETERMINATION OF METACENTRIC HEIGHT
- 12 DETERMINATION OF THE PERIOD OF ROLL
- 13 TAKING INTO ACCOUNT EFFECT OF THE TRIM

APPENDIX 4

ALTERNATIVE WEATHER CRITERION

APPENDIX 5

STABILITY CALCULATIONS PERFORMED BY STABILITY INSTRUMENTS

APPENDIX 6

SYMBOLS, UNITS AND MEANING OF THE VALUES ADOPTED IN THE RULES

Contents:

1	GENERAL
1.1	APPLICATION
1.2	DEFINITIONS AND EXPLANATIONS
1.3	SCOPE OF SUPERVISION
1.4	GENERAL TECHNICAL REQUIREMENTS
1.5	ADDITIONAL CLASS NOTATION FOR SHIPS COMPLYING SUBDIVISION REQUIREMENTS
1.6	DOCUMENTATION
2	SUBDIVISION AND DAMAGE STABILITY OF PASSENGER SHIPS AND CARGO SHIPS
2.1	APPLICATION
2.2	DEFINITIONS
2.3	DOCUMENTATION
2.4	REQUIRED SUBDIVISION INDEX "R"
2.5	ATTAINED SUBDIVISION INDEX "A"
2.6	CALCULATION OF THE FACTOR P_i
2.7	CALCULATION OF THE FACTOR s_i
2.8	PERMEABILITY
2.9	SPECIAL REQUIREMENTS CONCERNING PASSENGER SHIP STABILITY
2.10	SYSTEM CAPABILITIES AFTER A FLOODING CASUALTY ON PASSENGER SHIPS
2.11	DOUBLE BOTTOMS IN PASSENGER SHIPS AND CARGO SHIPS OTHER THAN TANKERS
2.12	PASSENGER SHIPS CARRYING GOODS VEHICLES AND ACCOMPANYING PERSONNEL
2.13	INTERNAL WATERTIGHT INTEGRITY OF PASSENGER SHIPS ABOVE THE BULKHEAD DECK
2.14	INTEGRITY OF THE HULL AND SUPERSTRUCTURE, DAMAGE PREVENTION AND CONTROL ON RO-RO PASSENGER SHIPS
2.15	ASSIGNING, MARKING AND RECORDING OF SUBDIVISION LOAD LINES FOR PASSENGER SHIPS
2.16	DAMAGE CONTROL INFORMATION
2.17	PERIODICAL OPERATION AND INSPECTION OF WATERTIGHT DOORS, ETC., IN PASSENGER SHIPS
2.18	PREVENTION AND CONTROL OF WATER INGRESS, ETC.
2.19	SPECIAL REQUIREMENTS FOR RO-RO PASSENGER SHIPS
2.20	PREVENTION AND CONTROL OF WATER INGRESS, ETC., IN CARGO SHIPS
3	SPECIFIC STABILITY REQUIREMENTS FOR RO-RO PASSENGER SHIPS
3.1	GENERAL
3.2	SPECIFIC STABILITY REQUIREMENTS
3.3	MODEL TEST METHOD
4	SPECIAL REQUIREMENTS FOR TYPE "B" SHIPS WITH REDUCED FREEBOARD
4.1	APPLICATION
4.2	INITIAL CONDITION OF LOADING
4.3	DAMAGE ASSUMPTIONS
4.4	STABILITY AFTER DAMAGE
5	DAMAGE STABILITY REQUIREMENTS APPLICABLE TO BULK CARRIERS
6	SPECIAL PURPOSE SHIPS
6.1	APPLICATION
6.2	DEFINITIONS
6.3	SUBDIVISION AND DAMAGE STABILITY
7	OFFSHORE SUPPLY VESSELS
7.1	APPLICATION
7.2	DEFINITIONS
7.3	SUBDIVISION AND DAMAGE STABILITY, GENERAL
7.4	DAMAGE ASSUMPTIONS
7.5	DAMAGE STABILITY CRITERIA
7.6	ASSUMPTIONS FOR CALCULATING DAMAGE STABILITY
7.7	SUBDIVISION
8	HIGH SPEED CRAFTS
8.1	DYNAMICALLY SUPPORTED CRAFTS (DSC)
8.2	HIGH SPEED CRAFTS, ACCORDING TO HSC 1994
8.3	HIGH SPEED CRAFTS, ACCORDING TO HSC 2000
9	TANKERS
9.1	SUBDIVISION AND STABILITY
9.2	DAMAGE ASSUMPTIONS

- 9.3 DAMAGE STABILITY CRITERIA
- 9.4 ASSUMPTION FOR CALCULATING DAMAGE STABILITY
- 9.5 STABILITY INFORMATION
- 9.6 ACCIDENTAL OIL OUTFLOW PERFORMANCE

APPENDIX 1

- 1 APPLICATION
- 2 MODEL TESTING

Contents:

- 1 GENERAL REQUIREMENTS**
- 1.1 GENERAL
- 1.2 DEFINITIONS AND EXPLANATIONS
- 1.3 SURVEYS, TECHNICAL DOCUMENTATION AND CERTIFICATES
- 1.4 GENERAL TECHNICAL REQUIREMENTS
- 1.5 MULTIPLE LOAD LINES ASSIGNMENT
- 2 LOAD LINE MARKING**
- 2.1 DECK LINE AND LOAD LINE MARK
- 2.2 LINES TO BE USED WITH THE LOAD LINE MARK
- 2.3 LOAD LINE DESIGNATION AND MARKING
- 3 CONDITIONS FOR ASSIGNMENT OF FREEBOARD**
- 3.1 INFORMATION TO BE SUPPLIED TO THE MASTER
- 3.2 ARRANGEMENTS AND MEANS OF CLOSURE OF OPENINGS IN HULL AND SUPERSTRUCTURES
- 3.3 PROTECTION OF THE CREW
- 3.4 SPECIAL CONDITIONS OF ASSIGNMENT FOR TYPE "A" SHIPS
- 4. ASSIGNMENT OF MINIMUM FREEBOARD**
- 4.1 TYPES OF SHIPS AND FREEBOARD TABLES
- 4.2 SUPERSTRUCTURES AND TRUNKS
- 4.3 SHEER
- 4.4 CORRECTIONS TO TABULAR FREEBOARD
- 4.5 MINIMUM FREEBOARDS COMPUTATION
- 5 SPECIAL REQUIREMENTS FOR SHIPS WITH ASSIGNED TIMBER FREEBOARDS**
- 5.1 CONDITIONS OF ASSIGNMENT OF TIMBER FREEBOARDS
- 5.2 MINIMUM TIMBER FREEBOARDS COMPUTATION
- 6 CONDITIONS FOR ASSIGNMENT OF FREEBOARD TO SHIPS NOT ENGAGED ON INTERNATIONAL VOYAGES AND TO SHIPS WITH LENGTH LESS THAN 24 METERS ENGAGED ON INTERNATIONAL VOYAGES**
- 6.1 GENERAL
- 6.2 STRENGTH AND STABILITY OF SHIP
- 6.3 ARRANGEMENTS AND MEANS OF CLOSURE OF OPENINGS IN HULL AND SUPERSTRUCTURE
- 6.4 PROTECTION OF THE CREW
- 6.5 FREEBOARD COMPUTATION
- 6.6 SPECIAL CONDITIONS OF ASSIGNMENT OF FREEBOARD TO TECHNICAL FLOATING UNITS NAVIGATING WITHIN THE TERRITORIAL WATERS OF THE REPUBLIC OF CROATIA
- 7 SPECIAL CONDITIONS FOR ASSIGNMENT OF FREEBOARD TO FISHING VESSELS**
- 7.1 GENERAL
- 7.2 FISHING VESSELS WHICH ARE ENGAGED IN FISHING WITHIN NAVIGATION AREAS 1 TO 4
- 7.3 FISHING VESSELS WHICH ARE ENGAGED IN FISHING WITHIN NAVIGATION AREAS 5 TO 8

Contents:

- 1 GENERAL**
- 1.1 APPLICATION
- 1.2 TERMS AND DEFINITIONS
- 1.3 SCOPE OF SUPERVISION
- 2 FITTING UP SEA-GOING SHIPS WITH RADIO EQUIPMENT**
- 2.1 DIVISION OF SEA-GOING SELF-PROPELLED SHIPS
- 2.2 LIST OF RADIO EQUIPMENT
- 2.3 SOURCES OF ENERGY
- 2.4 AERIALS
- 2.5 MAINTENANCE AND SPARES
- 2.6 LIST OF RADIO EQUIPMENT FOR NON-SOLAS SHIPS
- 3 ARRANGEMENT AND SPACES OF RADIO EQUIPMENT, AND INSTALLATION OF CABLES**
- 3.1 GENERAL
- 3.2 SPECIAL SPACES FOR LOCATION OF RADIO EQUIPMENT (RADIO ROOM)
- 3.3 ACCUMULATOR BATTERY ROOM
- 3.4 ARRANGEMENT OF RADIO COMMUNICATION EQUIPMENT ON NAVIGATING BRIDGE
- 3.5 LOCATION OF TWO-WAY VHF RADIOTELEPHONE APPARATUS
- 3.6 ARRANGEMENT OF TWO-WAY VHF RADIOTELEPHONE APPARATUS FOR FIXED INSTALLATION IN SURVIVAL CRAFT
- 3.7 LOCATION OF EMERGENCY POSITION INDICATING RADIO BEACON (SAT EPIRB)
- 3.8 LOCATION OF RADAR TRANSPONDERS
- 3.9 ARRANGEMENT OF PUBLIC ADDRESS SYSTEM
- 3.10 CABLING
- 4 AERIALS AND EARTHING**
- 4.1 GENERAL
- 4.2 MF BAND AERIAL
- 4.3 HF TRANSMITTING AERIAL AND RECEIVING AERIALS
- 4.4 VHF TRANSMITTER - RECEIVER AERIALS
- 4.5 DIRECTIVE SHIP'S EARTH STATION AERIAL
- 4.6 OMNIDIRECTIONAL AERIAL OF SHIP'S EARTH STATION AND EGC RECEIVER
- 4.7 LEADS - IN AND INTERIOR WIRING OF AERIALS
- 4.8 COMMUTATING DEVICE OF TRANSMITTING AERIALS
- 4.9 AUTOMATIC ADJUSTING DEVICE OF THE TRANSMITTER AERIAL CIRCUITS
- 4.10 EARTHING
- 5 GENERAL TECHNICAL REQUIREMENTS FOR RADIO EQUIPMENT**
- 5.1 GENERAL
- 5.2 GENERAL TECHNICAL REQUIREMENTS
- 6 TECHNICAL REQUIREMENTS FOR PARTICULAR RADIO EQUIPMENT**
- 6.1 VHF RADIO INSTALLATION
- 6.2 MF RADIO INSTALLATION
- 6.3 MF/HF RADIO INSTALLATION
- 6.4 SHIP EARTH STATION (SES) INMARSAT
- 6.5 SHIP EARTH STATION (SES) INMARSAT C
- 6.6 INTEGRATED RADIOCOMMUNICATION SYSTEM (IRCS) WHEN USED IN THE GMDSS
- 7 EQUIPMENT FOR RECEPTION OF MARITIME SAFETY INFORMATIONS**
- 7.1 NAVTEX RECEIVER
- 7.2 ENHANCED GROUP CALL RECEIVER (EGC)
- 7.3 HF DIRECT PRINTING RADIO TELEGRAPH RECEIVER
- 8 FLOAT-FREE EMERGENCY POSITION-INDICATING RADIO BEACONS (EPIRB AND SAT EPIRB)**
- 8.1 GENERAL
- 8.2 SAT EPIRB COSPAS-SARSAT
- 8.3 SAT EPIRB INMARSAT E
- 8.4 VHF EPIRB
- 9 SHIPBORNE RADAR TRANSPONDER (SURVIVAL CRAFT RADAR TRANSPONDER)**
- 9.1 RADAR TRANSPONDER (SART)
- 9.2 AIS SEARCH AND RESCUE TRANSPONDER (AIS-SART)
- 10 PUBLIC ADDRESS EQUIPMENT**

10.1 GENERAL

11 SURVIVAL CRAFT RADIO EQUIPMENT

11.1 RADAR TRANSPONDER (SART)

11.2 PORTABLE TWO-WAY VHF RADIOTELEPHONE APPARATUS

11.3 TWO - WAY VHF RADIOTELEPHONE APPARATUS FOR FIXED INSTALLATION

11.4 AIS SEARCH AND RESCUE TRANSPONDER (AIS-SART)

12 FLOAT-FREE RELEASE AND ACTIVATION ARRANGEMENTS FOR EPIRBs

13 TWO-WAY VHF AERONAUTICAL RADIOTELEPHONE APPARATUS

13.1 ON-SCENE (AERONAUTICAL) PORTABLE TWO-WAY VHF RADIOTELEPHONE APPARATUS

13.2 ON-SCENE (AERONAUTICAL) TWO-WAY VHF RADIOTELEPHONE APPARATUS
FOR FIXED INSTALLATIONS

14 SHIP SECURITY ALERT SYSTEM

Contents:

- 1 GENERAL**
- 1.1 APPLICATION
- 1.2 DEFINITIONS AND EXPLANATIONS
- 1.3 SCOPE OF SUPERVISION
- 1.4 DIVISION OF SHIPS INTO GROUPS
- 2 EQUIPMENT OF SHIPS WITH SIGNAL MEANS**
- 2.1 GENERAL PROVISIONS
- 2.2 EQUIPMENT OF GROUP I SHIPS
- 2.3 EQUIPMENT OF GROUP II SHIPS
- 2.4 ADDITIONAL SIGNAL MEANS FOR TOWING OR PUSHING SHIPS, SHIPS RESTRICTED IN THEIR ABILITY TO MANOEUVRE, PILOT VESSELS, FISHING VESSELS AND AIR CUSHION VESSELS
- 3 CONSTRUCTION OF SIGNAL APPLIANCES**
- 3.1 NAVIGATION LIGHTS
- 3.2 FLASHING LIGHTS
- 3.3 SOUND SIGNAL MEANS
- 3.4 POWER SUPPLY PANNEL FOR NAVIGATION LIGHTS
- 3.5 SIGNAL SHAPES AND FLAGS
- 4 FITTING UP SIGNAL MEANS ON BOARD SHIP**
- 4.1 GENERAL PROVISIONS
- 4.2 MAIN NAVIGATION LIGHTS IN SHIPS OF GROUP I
- 4.3 MAIN NAVIGATION LIGHTS IN SHIPS OF GROUP II
- 4.4 ADDITIONAL LIGHTS ON TOWING OR PUSHING SHIPS, FISHING VESSELS, PILOT VESSELS, VESSELS RESTRICTED IN THEIR ABILITY TO MANOEUVRE AND AIR CUSHION VESSELS
- 4.5 FLASHING LIGHTS
- 4.6 SOUND SIGNAL MEANS
- 4.7 DEVICES FOR HOISTING AND STORING OF SIGNAL SHAPES AND FLAGS
- 4.8 ARRANGEMENTS FOR STORING PYROTECHNIC SIGNAL MEANS
- 4.9 ARRANGEMENTS FOR STORING SPARE LANTERNS
- 5 DISTRESS SIGNALS**

Contents:

- 1 GENERAL REQUIREMENTS**
- 1.1 APPLICATION
- 1.2 DEFINITIONS AND EXPLANATIONS
- 1.3 SCOPE OF SUPERVISION
- 1.4 GENERAL TECHNICAL REQUIREMENTS
- 2 CARRIAGE REQUIREMENTS FOR SHIPBORNE NAVIGATIONAL SYSTEMS AND EQUIPMENT**
- 2.1 DIVISION OF SHIPS
- 2.2 NAVIGATIONAL SYSTEMS AND EQUIPMENT
- 3 DESIGN AND INSTALLATION OF NAVIGATIONAL SYSTEMS AND EQUIPMENT**
- 3.1 BRIDGE, INTEGRATED BRIDGE SYSTEM (IBS) AND INTEGRATED NAVIGATION SYSTEM (INS)
- 3.2 MAGNETIC COMPASSES
- 3.3 GYRO-COMASSES AND MARINE TRANSMITTING HEADING DEVICES (THDs)
- 3.4 HEADING CONTROL SYSTEMS AND TRACK CONTROL SYSTEMS
- 3.5 ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEMS (ECDISs) AND RASTER CHART DISPLAY SYSTEM (RCDS) MODE OF OPERATION
- 3.6 SOUND RECEPTION SYSTEMS
- 3.7 DAYLIGHT SIGNALLING LAMPS (ALDIS LAMPS)
- 3.8 RADAR REFLECTORS
- 3.9 RADARS, ELECTRONIC PLOTTING AIDS (EPA) AND AUTOMATIC TRACKING AIDS (ATA)
- 3.10 AUTOMATIC RADAR PLOTTING AIDS (ARPA)
- 3.11 DEVICES TO MEASURE AND INDICATE SPEED AND DISTANCE
- 3.12 ECHO SOUNDING DEVICES
- 3.13 AUTOMATIC IDENTIFICATION SYSTEM (AIS)
- 3.14 RUDDER, PROPELLER, THRUST, PITCH AND OPERATIONAL MODE INDICATORS
- 3.15 RATE OF TURN INDICATORS (ROTI)
- 3.16 INFORMATION ON SHIP'S MANOEUVRABILITY
- 3.17 PILOT TRANSFER ARRANGEMENTS
- 3.18 LORAN-C AND CHAYKA RECEIVERS
- 3.19 GPS RECEIVER, GLONASS RECEIVER, DGPS AND DGLONASS RECEIVER, COMBINED GPS/GLONASS RECEIVER
- 3.20 VOYAGE DATA RECORDERS (VDRs)
- 3.21 SIMPLIFIED VOYAGE DATA RECORDERS (S-VDRs)
- 3.22 GALILEO RECEIVER EQUIPMENT
- 3.23 LONG-RANGE IDENTIFICATION AND TRACKING OF SHIPS (LRIT)
- 3.24 BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM (BNWAS)

Contents:

1 GENERAL

- 1.1 APPLICATION
- 1.2 DEFINITIONS AND EXPLANATIONS
- 1.3 SCOPE OF SURVEY AND TECHNICAL DOCUMENTATION
- 1.4 FIRE CONTROL PLANS AND FIRE SAFETY INSTRUCTIONS
- 1.5 SUBDIVISION OF MATERIALS ACCORDING TO COMBUSTIBILITY, FLAME SPREAD AND IGNITABILITY
- 1.6 FIRE SAFETY OBJECTIVES AND FUNCTIONAL REQUIREMENTS
- 1.7 ALTERNATIVE DESIGN AND ARRANGEMENTS

2 STRUCTURAL INTEGRITY AND CONTAINMENT OF FIRE

- 2.1 GENERAL REQUIREMENTS
- 2.2 PASSENGER SHIPS
- 2.3 CARGO SHIPS
- 2.4 TANKERS ($\leq 60^{\circ}\text{C}$)
- 2.5 TANKERS ($> 60^{\circ}\text{C}$)
- 2.6 SPECIAL PURPOSE SHIPS
- 2.7 SHIPS CARRYING DANGEROUS GOODS
- 2.8 OIL RECOVERY SHIPS

3 FIRE-EXTINGUISHING SYSTEMS AND ARRANGEMENTS

- 3.1 FIRE EXTINGUISHING ARRANGEMENTS
- 3.2 FIXED FIRE-EXTINGUISHING SYSTEMS
- 3.3 WATER FIRE MAIN SYSTEM
- 3.4 AUTOMATIC SPRINKLER SYSTEM
- 3.5 PRESSURE WATER-SPRAYING SYSTEM
- 3.6 WATER-SCREEN SYSTEM
- 3.7 DRENCHING SYSTEM
- 3.8 FOAM SYSTEMS
- 3.9 CARBON DIOXIDE SYSTEMS
- 3.10 INERT GAS SYSTEMS
- 3.11 HALOGENATED HYDROCARBON SYSTEMS
- 3.12 DRY POWDER SYSTEM
- 3.13 GAS FIRE-EXTINGUISHING SYSTEMS USING MEDIA OTHER THAN CARBON DIOXIDE
- 3.14 FIXED LOCAL APPLICATION FIRE-EXTINGUISHING SYSTEMS
- 3.15 PRESSURE TESTING OF FIRE-EXTINGUISHING SYSTEMS

4 FIRE DETECTION

- 4.1 FIRE DETECTION AND FIRE ALARM ARRANGEMENTS
- 4.2 FIRE DETECTION AND FIRE ALARM SYSTEMS
- 4.3 PRE-DISCHARGE ALARM FOR FIXED GAS FIRE-EXTINGUISHING SYSTEMS
- 4.4 FIRE ALARMS, PATROLS AND PUBLIC ADDRESS SYSTEMS
- 4.5 FIXED HYDROCARBON GAS DETECTION SYSTEMS

5 FIRE-EXTINGUISHING APPLIANCES, SPARE PARTS AND TOOLS

- 5.1 FIRE-EXTINGUISHING APPLIANCES
- 5.2 SPARE PARTS AND TOOLS

ANNEX 1

MATERIALS USED IN ACCOMMODATION SPACES MSC/Circ. 1120

ANNEX 2

PETROLEUM PRODUCTS SUITABLE FOR CARRIAGE IN TANKERS ($\leq 60^{\circ}\text{C}$)

ANNEX 3

LIQUID CARGOES ($> 60^{\circ}\text{C}$)

ANNEX 4

NON COMBUSTIBLE AND LOW FIRE RISK CARGOES / CARGOES FOR WHICH A FIXED GAS FIRE-EXTINGUISHING SYSTEM IS INEFFECTIVE

ANNEX 5

SYSTEMS, APPLIANCES AND EXTINGUISHERS IN MACHINERY SPACES

Contents:

1 GENERAL PROVISIONS

- 1.1 APPLICATION
- 1.2 DEFINITIONS AND EXPLANATIONS
- 1.3 SCOPE OF SUPERVISION

2 REQUIREMENTS FOR ALL TYPES OF SHIPS

- 2.1 MEANS FOR COMMUNICATIONS
- 2.2 PERSONAL LIFE-SAVING APPLIANCES
- 2.3 MUSTER LIST AND EMERGENCY INSTRUCTIONS
- 2.4 OPERATING INSTRUCTIONS
- 2.5 MANNING OF SURVIVAL CRAFT AND SUPERVISION
- 2.6 SURVIVAL CRAFT MUSTER AND EMBARKATION ARRANGEMENTS
- 2.7 STOWAGE OF SURVIVAL CRAFT
- 2.8 STOWAGE OF RESCUE BOATS
- 2.9 STOWAGE OF MARINE EVACUATION SYSTEMS
- 2.10 SURVIVAL CRAFT LAUNCHING AND RECOVERY ARRANGEMENTS
- 2.11 RESCUE BOAT EMBARKATION, LAUNCHING AND RECOVERY ARRANGEMENTS
- 2.12 LINE-THROWING APPLIANCES
- 2.13 EMERGENCY TRAINING AND DRILLS
- 2.14 OPERATIONAL READINESS, MAINTENANCE AND INSPECTIONS

3 REQUIREMENTS FOR PASSENGER SHIPS

- 3.1 SURVIVAL CRAFT AND RESCUE BOATS
- 3.2 PERSONAL LIFE-SAVING APPLIANCES
- 3.3 SURVIVAL CRAFT AND RESCUE BOAT EMBARKATION ARRANGEMENTS
- 3.4 ADDITIONAL REQUIREMENTS FOR RO-RO PASSENGER SHIPS
- 3.5 INFORMATION ON PASSENGERS
- 3.6 HELICOPTER LANDING AND PICK-UP AREAS
- 3.7 DECISION SUPPORT SYSTEM FOR MASTERS OF PASSENGERS SHIPS
- 3.8 DRILLS

4 REQUIREMENTS FOR CARGO SHIPS

- 4.1 SURVIVAL CRAFT AND RESCUE BOATS
- 4.2 PERSONAL LIFE-SAVING APPLIANCES
- 4.3 SURVIVAL CRAFT EMBARKATION AND LAUNCHING ARRANGEMENT

5 REQUIREMENTS FOR OTHER TYPES OF SHIPS

- 5.1 SPECIAL PURPOSE SHIPS
- 5.2 THE TECHNICAL PURPOSE SHIPS
- 5.3 HIGH SPEED CRAFT

6 LIFE-SAVING APPLIANCES

- 6.1 GENERAL REQUIREMENT
- 6.2 LIFEBUOYS
- 6.3 LIFEJACKETS
- 6.4 IMMERSION SUITS
- 6.5 ANTI-EXPOSURE SUITS
- 6.6 THERMAL PROTECTIVE AIDS
- 6.7 VISUAL SIGNALS
- 6.8 LIFERAFTS
- 6.9 INFLATABLE LIFERAFTS
- 6.10 RIGID LIFERAFTS
- 6.11 OPEN REVERSIBLE LIFERAFTS
- 6.12 BUOYANT APPARATUS
- 6.13 LIFEBOATS
- 6.14 PARTIALLY ENCLOSED LIFEBOATS

- 6.15 TOTALLY ENCLOSED LIFEBOATS
- 6.16 FREE-FALL LIFEBOAT
- 6.17 LIFEBOATS WITH A SELF-CONTAINED AIR SUPPORT SYSTEM
- 6.18 FIRE-PROTECTED LIFEBOATS
- 6.19 RESCUE BOATS
- 6.20 LAUNCHING AND EMBARKATION APPLIANCES
- 6.21 LINE-THROWING APPLIANCES
- 6.22 GENERAL EMERGENCY ALARM SYSTEM
- 6.23 PUBLIC ADDRESS SYSTEM
- 7 MISCELLANEOUS**
- 7.1 APPLICATION
- 7.2 TRAINING MANUAL AND ON-BOARD TRAINING AIDS
- 7.3 INSTRUCTIONS FOR ON-BOARD MAINTENANCE
- 7.4 MUSTER LIST AND EMERGENCY INSTRUCTIONS
- 8 ALTERNATIVE DESIGN AND ARRANGEMENTS**
- 8.1 PURPOSE
- 8.2 GENERAL
- 8.3 ENGINEERING ANALYSIS
- 8.4 EVALUATION OF THE ALTERNATIVE DESIGN AND ARRANGEMENTS
- 8.5 EXCHANGE OF INFORMATION
- 8.6 RE-EVALUATION DUE TO CHANGE OF CONDITIONS
- 9 ANNEX I**

Contents:

1	GENERAL
1.1	APPLICATION
1.2	DEFINITIONS AND EXPLANATIONS
1.3	SCOPE OF SUPERVISION
1.4	TECHNICAL DOCUMENTATION
2	TECHNICAL REQUIREMENTS
2.1	GENERAL
2.2	DERRICKS
2.3	CRANES
2.4	LIFTS
2.5	LIFTING PLATFORMS
2.6	ROPES
2.7	LOOSE GEAR
2.8	ELECTRICAL EQUIPMENT
2.9	OTHER EQUIPMENT
3	CALCULATIONS
3.1	GENERAL PROVISIONS
3.2	WORKING CONDITIONS
3.3	DESIGN LOADS AND STRESSES
3.4	PERMISSIBLE STRESSES
3.5	PARTICULAR PROVISIONS
4	METALLIC MATERIALS AND WELDING
4.1	METALLIC MATERIALS AND HEAT TREATMENT
4.2	WELDING
5	EXAMINATIONS AND TESTING
5.1	GENERAL
5.2	SURVEYS AND TEST OF MOUNTED APPLIANCES
5.3	PERIODICAL SURVEYS AND TESTS
5.4	OCCASIONAL SURVEYS AND TESTS
6	MARKING
6.1	LIFTING APPLIANCES
6.2	LIFTS
6.3	LIFTING PLATFORMS
6.4	LOOSE GEAR
7	CERTIFICATION
7.1	LIFTING APPLIANCES AND LIFTING PLATFORMS
7.2	LIFTS
8	SUPERVISION IN USE
8.1	LIFTING APPLIANCES
8.2	LIFTS
APPENDIX	

Contents:

- 1 GENERAL**
- 1.1 APPLICATION
- 1.2 DEFINITIONS AND EXPLANATIONS
- 1.3 SCOPE OF SURVEY AND TECHNICAL DOCUMENTATION
- 2 TECHNICAL PRECAUTIONS FOR PROTECTION AT WORK**
- 2.1 WORKSTATIONS
- 2.2 MEANS OF ACCESS
- 2.3 RAILINGS AND HANDRAILS
- 2.4 ANCHORING AND MOORING EQUIPMENT
- 2.5 NAVIGATING BRIDGE AND WHEELHOUSE
- 2.6 LOOK-OUT POSTS
- 2.7 PROTECTION OF OPENINGS
- 2.8 CARGO HANDLING GEAR AND LIFTING APPLIANCES
- 2.9 SYSTEMS AND INSTALLATIONS IN TANKERS FOR OIL AND COMBINATION CARRIERS
- 2.10 ENGINE-ROOM
- 2.11 ENGINE CONTROL ROOM
- 2.12 WORKSHOPS
- 2.13 SPARE PARTS
- 2.14 ELECTRICAL EQUIPMENT
- 2.15 SPACES FOR NAVIGATIONAL AIDS AND COMMUNICATION EQUIPMENT
- 2.16 REFRIGERATING MACHINERY
- 2.17 SHIP'S STORE ROOMS AND SPECIAL SPACES
- 3 TECHNICAL PRECAUTIONS IN ACCOMMODATION SPACES**
- 3.1 APPLICATION
- 3.2 GENERAL
- 3.3 SLEEPING ROOMS
- 3.4 PUBLIC SPACES
- 3.5 SANITARY SPACES
- 3.6 STORE ROOMS FOR OVERALLS AND FOOTWEAR
- 3.7 GALLEYS AND PANTRIES
- 3.8 PROVISION STORE ROOMS
- 3.9 LAUNDRIES, DRYING ROOMS AND LINEN STORE ROOMS
- 3.10 MEDICAL SPACES
- 3.11 PUBLIC SPACES
- 3.12 WATER SUPPLY
- 3.13 DRAINAGE OF WASTE WATERS AND REMOVAL OF SOLID WASTE
- 3.14 LIGHTING
- 3.15 HEATING
- 3.16 VENTILATION
- 3.17 AIR CONDITIONING
- 3.18 PROTECTION AGAINST NOISE
- 3.19 PROTECTION AGAINST VIBRATION
- 3.20 PROTECTION AGAINST RADIATION
- 3.21 PROTECTION AGAINST RODENTS AND INSECTS

Contents:

- 1 GENERAL PROVISIONS**
 - 1.1 APPLICATIONS
 - 1.2 EXEMPTIONS
 - 1.3 SCOPE OF SUPERVISION
 - 1.4 TECHNICAL DOCUMENTATION
 - 1.5 DEFINITIONS AND EXPLANATIONS
- 2 SHIP'S SAFETY CONSTRUCTION**
- 3 SHIP'S FLOATING PROPERTIES**
- 4 SHIP'S SAFETY EQUIPMENT**
- 5 NUMBER OF PASSENGERS**
 - 5.1 PASSENGER SHIP'S ENGAGED ON INTERNATIONAL VOYAGES
 - 5.2 PASSENGER SHIPS NOT ENGAGED ON INTERNATIONAL VOYAGES
 - 5.3 SPECIAL TYPE SHIPS
 - 5.4 TRAINING AND EMERGENCY INSTRUCTIONS

Contents:

- 1 GENERAL**
- 1.1 GENERAL REQUIREMENTS
- 2 THE PREVENTION OF POLLUTION BY OIL**
- 2.1 GENERAL REQUIREMENTS
- 2.2 OIL TANKERS
- 2.3 OIL FILTERING EQUIPMENT
- 2.4 OIL DISCHARGE MONITORING AND CONTROL SYSTEMS
- 2.5 OILY-WATER TRANSFER AND DISCHARGE SYSTEM OF PIPING
- 2.6 TANKS FOR OIL RESIDUES (SLUDGE) AND OILY-WATER(BILGE) OF A MACHINERY SPACE
- 2.7 SPECIAL REQUIREMENTS FOR FIXED OR FLOATING PLATFORMS
- 2.8 SHIPBOARD OIL POLLUTION EMERGENCY PLAN
- 2.9 STS OPERATIONS PLAN
- 3 PREVENTION OF POLLUTION BY NOXIOUS LIQUID SUBSTANCES IN BULK**
- 3.1 GENERAL
- 3.2 CHEMICAL TANKER CONSTRUCTION
- 3.3 EQUIPMENT FOR PREVENTION OF POLLUTION
- 3.4 SHIPBOARD MARINE POLLUTION EMERGENCY PLAN FOR NOXIOUS LIQUID SUBSTANCES
- 4 PREVENTION OF POLLUTION BY HARMFUL SUBSTANCES CARRIED BY SEA IN PACKAGED FORM**
- 5 THE PREVENTION OF POLLUTION BY SEWAGE**
- 5.1 GENERAL
- 5.2 ARRANGEMENT AND EQUIPMENT FOR TREATMENT AND DISCHARGE OF SEWAGE
- 6 THE PREVENTION OF POLLUTION BY GARBAGE**
- 6.1 GENERAL
- 6.2 ARRANGEMENT AND EQUIPMENT FOR COLLECTION AND PROCESSING OF GARBAGE AND INCINERATION OF WASTES
- 6.3 PLACARDS, GARBAGE MANAGEMENT PLANS, GARBAGE RECORD BOOK
- 7 PREVENTION OF AIR POLLUTION**
- 7.1 GENERAL
- 7.2 SURVEY, CERTIFICATION AND MEANS OF CONTROL
- 7.3 REQUIREMENTS FOR CONTROL OF EMISSIONS FROM SHIPS
- 7.4 REQUIREMENTS OF NO_x TECHNICAL CODE 2008
- 8 CONTROL OF HARMFUL ANTI-FOULING SYSTEMS ON SHIPS**
- 8.1 GENERAL REQUIREMENTS
- 8.2 HARMFUL ANTI-FOULING SYSTEMS ON SHIPS AND CONTROL MEASURES
- 8.3 SURVEY AND CERTIFICATION REQUIREMENTS FOR ANTI-FOULING SYSTEMS ON SHIPS
- 9 ENERGY EFFICIENCY FOR SHIPS**
- 9.1 GENERAL
- 9.2 REQUIREMENTS ON ENERGY EFFICIENCY FOR SHIPS

Contents:

FOREWORD

1 GRAIN IN BULK

- 1.1 APPLICATION
- 1.2 DOCUMENT OF AUTHORISATION
- 1.3 DEFINITIONS AND EXPLANATIONS
- 1.4 SCOPE OF SURVEY AND TECHNICAL DOCUMENTATION
- 1.5 STABILITY REQUIREMENTS
- 1.6 STOWAGE OF BULK GRAIN
- 1.7 STRENGTH OF GRAIN FITTINGS
- 1.8 DIVISIONS LOADED ON BOTH SIDES
- 1.9 DIVISIONS LOADED ON ONE SIDE ONLY
- 1.10 SECURING OF GRAIN SURFACE IN FILLED, TRIMMED, COMPARTMENTS
- 1.11 SECURING OF GRAIN SURFACE IN PARTLY FILLED COMPARTMENTS
- 1.12 CALCULATION OF ASSUMED HEELING MOMENTS
- 1.13 A WORKED EXAMPLE OF CALCULATION FOR VOLUMETRIC HEELING MOMENT OF A FILLED COMPARTMENT, UNTRIMMED

2 SOLID BULK CARGOES

- 2.1 APPLICATION
- 2.2 DEFINITIONS AND EXPLANATIONS
- 2.3 SCOPE OF SURVEY, TECHNICAL DOCUMENTATION AND DOCUMENTS
- 2.4 GENERAL REQUIREMENTS
- 2.5 NON-COHESIVE BULK CARGOES
- 2.6 CARGOES WHICH MAY LIQUEFY
- 2.7 CARGOES POSSESSING CHEMICAL HAZARDS
- 2.8 BULK MATERIALS WHICH ARE NEITHER LIABLE TO LIQUEFY NOR POSSESS CHEMICAL HAZARDS
- 2.9 TRANSPORT OF SOLID WASTES IN BULK
- 2.10 CARGO STOWAGE FACTOR CONVERSION TABLES

ANNEX 1

ANNEX 2

3 CARGO STOWAGE AND SECURING

- 3.1 APPLICATION
- 3.2 DEFINITIONS AND EXPLANATIONS
- 3.3 FORCES AND LOADS
- 3.4 GENERAL REQUIREMENTS

ANNEX 1

1 STOWAGE

2 SECURING

ANNEX 2

1 GENERAL REQUIREMENTS

2 STOWAGE

3 SECURING

ANNEX 3

1 GENERAL REQUIREMENTS

2 STOWAGE

3 SECURING

ANNEX 4

1 GENERAL REQUIREMENTS

ANNEX 5

1 GENERAL REQUIREMENTS

2 SECURING

- 3 *CARGO STOWED IN OPEN CONTAINERS, ON PLATFORMS OR PLATFORM-BASED CONTAINERS*
- ANNEX 6*
- 1 *GENERAL REQUIREMENTS*
- 2 *SECURING*
- ANNEX 7*
- 1 *GENERAL REQUIREMENTS*
- ANNEX 8*
- 1 *GENERAL REQUIREMENTS*
- ANNEX 9*
- 1 *GENERAL REQUIREMENTS*
- ANNEX 10*
- 1 *GENERAL REQUIREMENTS*
- ANNEX 11*
- 1 *GENERAL REQUIREMENTS*
- ANNEX 12*
- 1 *GENERAL REQUIREMENTS*
- 2 *STOWAGE AND SECURING*
- ANNEX 13*
- 1 *APPLICATION AND GENERAL REQUIREMENTS*
- APPENDIX 1*
- 1 *APPLICATION*
- 2 *DEFINITIONS AND EXPLANATIONS*
- 3 *SECURING POINTS ON SHIP'S DECKS*
- 4 *STOWAGE*
- 5 *SECURING*
- APPENDIX 2*
- 1 *CARGO SHIPS OF NAVIGATION AREAS 5, 6 AND 7, OTHER THAN RO-RO CARGO SHIPS*
- 2 *RO-RO PASSENGER SHIPS OF NAVIGATION AREA 5 AND RO-RO CARGO SHIPS OF NAVIGATION AREAS 5, 6 AND 7*
- 3 *RO-RO PASSENGER SHIPS OF NAVIGATION AREA 6*
- 4 *RO-RO PASSENGER SHIPS OF NAVIGATION AREA 6 (OTHER THAN THOSE COVERED BY SECTION 4) AND NAVIGATION AREA 7*
- 4 TIMBER DECK CARGO**
- 4.1 APPLICATION
- 4.2 DEFINITIONS AND EXPLANATIONS
- 4.3 SCOPE OF SURVEY AND TECHNICAL DOCUMENTATION
- 4.4 STABILITY
- 4.5 CONSTRUCTION OF SHIP
- 4.6 STOWAGE
- 4.7 SECURING
- 4.8 PERSONNEL PROTECTION AND SAFETY DEVICES
- 4.9 ACTION TO BE TAKEN DURING THE VOYAGE
- ANNEX A*
- 1 *GENERAL*
- 5 DANGEROUS CARGOES**
- 5.1 APPLICATION
- 5.2 CLASSIFICATION OF DANGEROUS GOODS
- 5.3 DOCUMENTS FOR CARRIAGE OF DANGEROUS GOODS AND SHIPMENTS
- 5.4 IDENTIFICATION, MARKING, LABELLING AND PLACARDING
- 5.5 PACKAGING
- 5.6 STOWAGE
- 5.7 SEGREGATION
- 5.8 FIRE PRECAUTIONS

5.9 LIST OF DANGEROUS GOODS

Contents:

- 1 GENERAL PROVISIONS**
- 1.1 GENERAL
- 2 CERTIFICATION OF SAFETY MANAGEMENT SYSTEM**
- 2.1 CERTIFICATION OF SMS
- 2.2 MAINTENANCE OF ISM CERTIFICATION
- 2.3 DOCUMENTS AND CERTIFICATES
- 2.4 INVALIDATION OF DOCUMENTS AND CERTIFICATES
- 2.5 RETENTION, RE-ISSUANCE, REVISION OF DOCUMENTS AND CERTIFICATES
- 2.6 TRANSFER OF CERTIFICATION OF MANAGEMENT SYSTEMS
- 3 THE CERTIFICATION PROCESS**
- 3.1 CONDUCT OF AUDITS
- 3.2 CONDUCT OF AUDITS AND TIMING
- 4 AUDIT OF SAFETY MANAGEMENT SYSTEM**
- 4.1 AUDIT OF COMPANY SMS
- 4.2 AUDIT OF SHIPBOARD SMS
- 5 SAFETY MANAGEMENT SYSTEM**
- 5.1 GENERAL
- 5.2 SAFETY AND ENVIRONMENTAL PROTECTION POLICY
- 5.3 COMPANY RESPONSIBILITIES AND AUTHORITY
- 5.4 DESIGNATED PERSON
- 5.5 MASTERS RESPONSIBILITY AND AUTHORITY
- 5.6 RESOURCES AND PERSONNEL
- 5.7 DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS
- 5.8 EMERGENCY PREPAREDNESS
- 5.9 REPORTS AND ANALYSIS OF NON-CONFORMITIES, ACCIDENTS AND HAZARDOUS OCCURRENCES
- 5.10 MAINTENANCE OF THE SHIP
- 5.11 DOCUMENTATION
- 5.12 COMPANY VERIFICATION, REVIEW AND EVALUATION

Contents:

- 1 GENERAL**
- 1.1 APPLICATION
- 1.2 DEFINITIONS
- 1.3 MARITIME SECURITY
- 2. COMPANY SECURITY RESPONSIBILITIES**
- 2.1 REGULATION 4 - REQUIREMENTS FOR COMPANIES AND SHIPS
- 2.2 REGULATION 5 - SPECIFIC RESPONSIBILITY OF COMPANIES
- 2.3 A/6 OBLIGATIONS OF THE COMPANY
- 2.4 A/11 COMPANY SECURITY OFFICER
- 3. SHIP SECURITY**
- 3.1 A/7 SHIP SECURITY - GENERAL
- 3.2 A/12 SHIP SECURITY OFFICER
- 3.3 REGULATION 8 - MASTER'S DISCRETION FOR SHIP SAFETY AND SECURITY
- 3.4 REGULATION 6 - SHIP SECURITY ALERT SYSTEM
- 3.5 A/8 SHIP SECURITY ASSESSMENT
- 3.6 A/9 SHIP SECURITY PLAN
- 3.7 A/10 RECORDS
- 3.8 A/13 TRAINING, DRILLS AND EXERCISES ON SHIP SECURITY
- 3.9 A/5 DECLARATION OF SECURITY
- 3.10 A/19 VERIFICATION AND CERTIFICATION FOR SHIPS
- 4. RESPONSIBILITY OF THE COMPANY FOR FIXED OFFSHORE UNITS**
- 4.1 REQUIREMENTS FOR FIXED OFFSHORE UNITS
- 4.2 A/6 OBLIGATIONS OF THE COMPANY
- 4.3 A/11 COMPANY SECURITY OFFICER
- 5. SECURITY OF FIXED OFFSHORE UNITS**
- 5.1 A/7 SECURITY OF FIXED OFFSHORE UNITS - GENERAL
- 5.2 A/12 FIXED OFFSHORE UNIT SECURITY OFFICER
- 5.3 REGULATION 8 - MASTER'S DISCRETION FOR SAFETY AND SECURITY
- 5.4 REGULATION 6 - SECURITY ALERT SYSTEM
- 5.5 A/8 SECURITY ASSESSMENT
- 5.6 A/9 SECURITY PLAN
- 5.7 A/10 RECORDS
- 5.8 A/13 TRAINING, DRILLS AND EXERCISES ON SECURITY
- 5.9 A/19 VERIFICATION AND CERTIFICATION FOR SHIPS

Contents:

Chapter 1, GENERAL

- 1 INTRODUCTION
- 2 APPLICATION
- 3 DEFINITIONS

Chapter 2, MODULES FOR CONFORMITY ASSESSMENT

- 1 GENERAL
- 2 EC-TYPE EXAMINATION (Module B)
- 3 CONFORMITY TO TYPE (Module C)
- 4 PRODUCTION QUALITY ASSURANCE (MODULE D)
- 5 PRODUCT QUALITY ASSURANCE (Module E)
- 6 PRODUCT VERIFICATION (Module F)
- 7 UNIT VERIFICATION (Module G)
- 8 FULL QUALITY ASSURANCE (Module H)
- 9 DECLARATION OF CONFORMITY

Chapter 3, TECHNICAL DOCUMENTATION

ANNEX I, Equipment for which detailed testing standards already exist in international instruments

- 1 Life-saving appliances
- 2 Marine pollution prevention
- 3 Fire protection equipment
- 4 Navigation equipment
- 5 Radio-communication equipment
- 6 Equipment required under COLREG 72
- 7 Bulk carrier safety equipment
- 8 Equipment under SOLAS 74, Reg. II-1

ANNEX II, Equipment for which no detailed testing standards exist in international instruments

- 1 Life-saving appliances
- 2 Marine pollution prevention
- 3 Fire protection equipment
- 4 Navigation equipment
- 5 Radio-communication equipment
- 6 Equipment required under COLREG 72
- 7 Bulk carrier safety equipment
- 8 Equipment under SOLAS 74, Reg. II-1

Contents:

- 1 GENERAL PART**
- 1.1 GENERAL
- 1.2 APPLICATION
- 1.3 DEFINITIONS OF TERMS
- 1.4 ACCURACY OF MEASUREMENTS AND PRESENTING OF RESULTS
- 1.5 TECHNICAL DOCUMENTATION
- 1.6 ISSUE AND VALIDITY OF TONNAGE CERTIFICATES
- 1.7 CANCELLATION OF TONNAGE CERTIFICATES
- 2 DETERMINATION OF GROSS AND NET TONNAGE FOR SEA-GOING SHIPS OF 24 METERS IN LENGTH AND OVER ENGAGED ON INTERNATIONAL VOYAGES**
- 2.1 GENERAL
- 2.2 APPLICATION
- 2.3 DEFINITIONS OF TERMS
- 2.4 GROSS TONNAGE
- 2.5 CHANGE OF GROSS TONNAGE
- 2.6 NET TONNAGE
- 2.7 CHANGE OF NET TONNAGE
- 2.8 TONNAGE OF SEGREGATED BALLAST TANKS ON TANKERS *
- 2.9 CALCULATION OF VOLUMES
- 2.10 TONNAGE OF DEDICATED CLEAN BALLAST TANKS ON TANKERS *
- 2.11 REDUCED GROSS TONNAGE OF OPEN-TOP CONTAINERSHIPS****
- 3 DETERMINATION OF GROSS AND NET TONNAGE FOR SEA-GOING SHIPS WHICH ARE NOT ENGAGED ON INTERNATIONAL VOYAGES AS WELL AS SEA-GOING SHIPS OF LESS THAN 24 METERS IN LENGTH AND ENGAGED ON SUCH VOYAGES**
- 3.1 GENERAL
- 3.2 APPLICATION
- 3.3 DEFINITIONS OF TERMS
- 3.4 GROSS AND NET TONNAGES
- 3.5 CHANGE OF GROSS AND NET TONNAGE
- 3.6 TONNAGE OF SEGREGATED BALLAST TANKS
- 3.7 CALCULATION OF VOLUMES
- 3.8 TONNAGE OF DEDICATED CLEAN BALLAST TANKS
- 4 DETERMINATION OF TONNAGE FOR BOATS**
- 4.1 GENERAL
- 4.2 APPLICATION
- 4.3 DEFINITIONS OF TERMS
- 4.4 TONNAGE OF BOATS
- 4.5 CHANGE OF TONNAGE
- 4.6 CALCULATION OF VOLUME
- 5 DETERMINATION OF GROSS AND NET TONNAGE FOR SHIPS OF LESS THAN 12 M IN LENGTH AUTHORIZED TO CARRY MORE THAN 12 PASSENGERS**
- 5.1 GENERAL
- 5.2 APPLICATION
- 5.3 DEFINITIONS OF TERMS
- 5.4 GROSS TONNAGE
- 5.5 NET TONNAGE
- 5.6 CHANGE OF GROSS AND NET TONNAGE
- 5.7 CALCULATION OF VOLUME
- 6 DETERMINATION OF TONNAGE FOR YACHTS**
- 6.1 DETERMINATION OF TONNAGE FOR YACHTS OF LESS THAN 24 m IN LENGTH

- 6.2 DETERMINATION OF GROSS AND NET TONNAGE FOR YACHTS OF 24 METERS IN LENGTH AND OVER
- 7 DETERMINATION OF TONNAGE FOR FISHING VESSELS**
- 7.1 GENERAL
- 7.2 APPLICATION
- 7.3 DEFINITIONS OF TERMS
- 7.4 TONNAGE OF FISHING BOATS
- 7.5 GROSS AND NET TONNAGE OF FISHING SHIPS OF LENGTH OVERALL LESS THAN 15 METRES
- 7.6 GROSS AND NET TONNAGE OF FISHING SHIPS OF LENGTH EQUAL TO, OR GREATER THAN 15 METRES
- 7.7 CHANGE OF GROSS AND NET TONNAGE