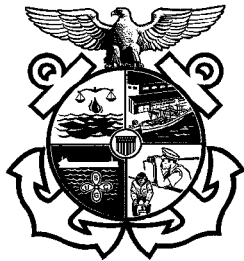


United States Coast Guard



**FOREIGN PASSENGER VESSEL
ANNUAL EXAMINATION BOOK**
(FOR VESSELS BUILT AFTER 25 MAY 80)

Name of Vessel		Flag	
		No Change	
IMO Number		Case Number	
Date Completed	Priority	Points	
Location			
Vessel Built in Compliance with SOLAS: 60 74 74/78 NA			
Senior Marine Inspectors / Port State Control Officers			
1. _____		3. _____	
2. _____		4. _____	

CG-840 CV2
Rev. 1/01

Total Time Spent Per Activity:

Regular Personnel (Active Duty)			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
-------------------	--------------------

Reserve Personnel			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
-------------------	--------------------

Auxiliary Resources	
TOTAL BOAT HOURS	TOTAL AIRCRAFT HOURS

Use of Foreign Passenger Vessel Annual Exam Book:

This examination book is intended to be used as a job aid by Coast Guard senior marine inspectors/port state control officers during boardings of foreign-flagged passenger vessels constructed after 25 May 80 (i.e., vessels regulated under SOLAS 74 and SOLAS 74/78). Vessels constructed prior to this date and regulated under SOLAS 48 or SOLAS 60 should be examined using the CG-840 CV1 examination book. Each book contains an extensive list of possible examination items. It is not, however, the Coast Guard's intention to "inspect" all items listed. As a port state responsibility, senior marine inspectors/port state control officers must verify that the vessels and their crews are in substantial compliance with international conventions and applicable US laws. The depth and scope of the examination must be determined by the senior marine inspectors/port state control officers based on their observations.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFR's, the Port State Control Job Aid, NVIC's, and any locally produced cite guides for specific regulatory references.

NOTE: *Guidance on how to examine foreign passenger vessels can be found in MSM Volume II, Chapter D7: Procedures Applicable to Foreign Passenger Vessels.*

Guide to Examinations:

- All vessels
- Vessels constructed after 01 JUL 86 (SOLAS 74/78) only
- Vessels constructed after 25 MAY 80 but prior to 01 JUL 86 (SOLAS 74) only

Pre-inspection Items

- Review MSIS records.
 - PSVH
 - VFIP
- Obtain copies of forms to be issued.

Post-inspection Items

- Issue letters/certificates to vessel.
 - Record of deficiencies
- Complete MSIS entries within 48 hours.
 - PSAR
 - MSDS
 - PSDR
 - VFLD
 - VFIP

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Section 1: Administrative Items

IMO Applicability Dates:

Reference	Date
SOLAS 1960	26 MAY 65
SOLAS 1974	25 MAY 80
1978 Protocol to SOLAS 1974	01 MAY 81
1981 Amendments (II-1 & II-2)	01 SEP 84
1983 Amendments (III)	01 JUL 86
<i>Various additional amendments to SOLAS</i>	
MARPOL 73/78 Annex I	02 OCT 83
MARPOL 73/78 Annex II	06 APR 87
MARPOL 73/78 Annex III	01 JUL 92
MARPOL 73/78 Annex V	31 DEC 88
COLREGS 1972	15 JUL 77
<i>Various additional amendments to COLREGS</i>	
Load Line 1966	21 JUL 68
STCW 1978	28 APR 84
1991 Amendments	01 DEC 92
1994 Amendments	01 JAN 96
1995 Amendments	01 FEB 97

Involved Parties & General Information:

Owner's Agent
Individual
Phone Number

Charterer's Agent
Individual
Phone Number Same as Owner's Agent

Owner—Listed on DOC or COFR
No Change

Operator
No Change

Section 2: Certificates and Documents

International Certificates:

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp. Date	Endors. Date
Certificate of Registry No Change						
Classification Document No Change						
Certificate of Financial Responsibility (COFR) No Change	USCG					
Passenger Ship Safety (PSS) No Change						
International Load Line (ILL) No Change						
International Oil Pollution Prevention (IOPP) No Change						

Name of Certificates	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp. Date	Endors. Date
International Tonnage (ITC) No Change						
Safety Management (SMC) No Change						
Document of Compliance (DOC) No Change						

Manning Certification:

- Safe Manning Document SOLAS 74/78 V/13
IMO Res.A.481(XII)
 - Manning in accordance with document
NOTE: If vessel does not have a Safe Manning Document or is not manned in accordance with Safe Manning Document, local Consulate must be contacted and the deficiency resolved prior to vessel's departure from port.
 - Review copy of crew list
- Officers' certificates STCW 95 I/2
STCW 95 I/10
STCW 95 VI/1
STCW 95 VI/2
 - Master and chief engineer licenses current
 - Navigating and engineering officers' licenses current; *NOTE: 3000 kW = 4023 hp*
 - Flag endorsement
 - Medical certificates
- Crew documents STCW 95 VI/1
 - Documents current
 - Medical certificates valid (issued by flag state)
 - Minimum age 15 ILO 147 Art. II
- Rest periods STCW 95 VIII/1
 - Review watch schedules

Logs and Manuals:

- Lifesaving equipment maintenance record SOLAS 74/78 III/19
 - Periodic checks as required
 - Visual inspection of survival craft / rescue boat and launching appliances
 - Operation of lifeboat / rescue boat engines
 - Lifesaving appliances, including lifeboat equipment examined
- Emergency training and drills SOLAS 74/78 III/18
 - Onboard training in use of lifesaving equipment (all crew members)
 - SOLAS training manual
 - Logbook records SOLAS 74/78 III/18.5
 - Weekly and lifeboat drills SOLAS 74/78 III/25

Notes: _____

- Bridge log
 - Pre-arrival tests conducted 33 CFR 164.25
STCW 95 I/14
 - Casualties (navigation equipment and steering gear failures reported) 33 CFR 164.53
 - Steering gear drills
 - Emergency steering drills

- Exemptions to SOLAS certificates SOLAS 74/78 I/4

- Criterion numeral
 - Determination SOLAS 74 II-1/5
SOLAS 74/78 II-1/6

- Stability information
 - Damage stability information SOLAS 74 II-1/7
SOLAS 74/78 II-1/8
 - Stability test information SOLAS 74 II-1/19
SOLAS 74/78 II-1/22
 - Damage control plans SOLAS 74 II-1/20
SOLAS 74/78 II-1/23

- Information on all persons aboard vessel
 - List of "special needs" passengers SOLAS 74/78 III/24-2.1
SOLAS 74/78 III/24-2.2
 - Identification record (name-gender-adult, child, infant) SOLAS 74/78 III/24-2.3
SOLAS 74/78 III/24-2.4
 - Held ashore readily available for SAR organizations

- Decision support system for emergency management SOLAS 74/78 III/24-4

- Working language established and recorded SOLAS 74/78 V/13
 - Language _____
 - Different from Flag State
 - Yes
 - No
 - Posted plans include translation

Notes: _____

- Vessel / Coast Guard SAR plan SOLAS 74/78 V/15
 - Approved
 - Yes
 - No
- Operations limitations manual SOLAS 74/78 V/23

Pollution Prevention Records:

- Current pollution prevention records
 - Person-in-charge 33 CFR 155.700
 - Transfer equipment tests and inspections 33 CFR 156.170
 - Declaration of Inspection 33 CFR 156.150
- Oil record book (Part 1) (spot-check) MARPOL Ax. I/20
 - Each operation signed by person-in-charge 33 CFR 151.25
 - Each complete page signed by master
 - Book maintained for 3 years
- Shipboard oil pollution emergency plan MARPOL Ax. I/26.1
 - Approved by flag state / class society 33 CFR 151.26
 - Contact numbers correct
 - Immediate Actions List
- Oil transfer procedures 33 CFR 155.720
 - Posted / available in crew's language
 - List of products carried by vessel
 - Description of transfer system including a line diagram of piping
 - Number of persons required on duty
 - Duties by title of each person
 - Means of communication
 - Procedures to top off tanks
 - Procedures to report oil discharges

Notes: _____

Section 3: Inspection Requirements

Navigation Safety:

- Charts and publications for US waters/
intended voyage 33 CFR 164.33
 - Current and corrected charts
 - US Coast Pilot
 - Sailing directions
 - Coast Guard Light List
 - Tide tables
 - Tidal current tables
 - International Rules of the Road
 - Inland Rules of the Road
 - International Code of Signals
 - Plotting equipment 33 CFR 164.35
- Operationally test radar(s) and ARPA 33 CFR 164.35
 - 2 required if over 10,000 GT 33 CFR 164.37
 - Operate independently 33 CFR 164.38
 - ARPA acquires targets
- Compasses 33 CFR 164.35
 - Illuminated gyrocompass with repeater at stand
 - Illuminated magnetic compass
 - Current deviation table
- Test electronic depth sounding device and recorder 33 CFR 164.35
 - Accurate readout
 - Test all transducers
 - Continuous recorder (chart)
- Electronic position fixing device 33 CFR 164.41
 - Location accurate

Notes: _____

- Indicators 33 CFR 164.35
 - Illuminated rudder angle indicator
 - Centerline RPM indicator
 - Propeller pitch (CPP systems)
 - Speed and distance indicator 33 CFR 164.40
 - Lateral thrusters
- Steering gear instructions 33 CFR 164.35
 - Instructions
 - Emergency instructions
 - Block diagram
- Emergency steering station 33 CFR 164.35
 - Compass repeaters
 - Communications
- Maneuvering facts sheet with warning statement 33 CFR 164.35
- EPIRB (406 MHz) SOLAS 74/78 IV/7.1.6
 - Float-free amount
 - Battery date current
 - Hydrostatic release
- Communications SOLAS 74/78 IV/6.3
33 CFR 26.03
 - VHF radio
- Navigation bridge radio distress panels SOLAS 74/78 IV/6.4
SOLAS 74/78 IV/6.5
SOLAS 74/78 IV/6.6
 - PSS Certificate endorsed
- 2-way SAR aircraft radio SOLAS 74/78 IV/7.5
 - Located on navigation bridge
 - Capable of utilizing 121.5 and 123.1 MHz
- Radiocommunication personnel SOLAS 74/78 IV/16.2
 - Qualified person assigned only to radiocommunication duties during distress incidents

Notes: _____

- GMDSS
 - Additional radio equipment for area of operationSOLAS 74/78 IV/8
SOLAS 74/78 IV/9
SOLAS 74/78 IV/10
SOLAS 74/78 IV/11

- GMDSS lifeboat radios (VHF)
 SOLAS 74/78 III/6.2
 - 3 if over 500 GT
 - Operable condition

- 9 GHz radar transponder (SART)
 SOLAS 74/78 III/6.2
NVIC 9-93
 - Two required
 - Stowed so to be rapidly placed in survival craft, or stowed in survival craft

- Emergency source of power (radio)
 SOLAS 74/78 IV/13
 - Independent of ship's power system
 - 1 or 6 hour time duration
 - Battery system
 - Battery charger

- NAVTEX
 SOLAS 74/78 IV/7.1.4

- INMARSAT
 SOLAS 74/78 IV/7

- Radio installation
 SOLAS 74/78 IV/6.2
 - Safe installation
 - Independent lighting
 - Marked with call sign

- Signalling lamp
 SOLAS 74/78 V/11

- Lifesaving signals table
 SOLAS 74/78 V/16

General Health and Safety:

- Crew able to perform necessary safety and pollution prevention duties
 STCW 95 VI/1
 - Personal survival techniques
 - Firefighting emergencies
 - Elementary first aid

Notes: _____

- Accident prevention and occupational health COMDTINST 16711.12A
ILO 147
 - Rails, guards, protective clothing and equipment, warning signs posted in crew work areas

- Crew accommodations COMDTINST 16711.12A
ILO 147
 - Habitable conditions
 - Adequate lighting and ventilation
 - Free of cargo and stores
 - Individual berths

- Hospital space COMDTINST 16711.12A
ILO 147
 - Designated for ships ≥ 500 GT with 15 or more crew on voyage of more than 3 days
 - Not used for stowage or berthing
 - Properly operating toilet
 - Medicine chest or doctor

- Galley COMDTINST 16711.12A
ILO 147
 - Sanitary conditions
 - Hot and cold-running water
 - Adequately equipped to prepare food
 - Mess hall provided for crew

- Refrigerator and stores spaces COMDTINST 16711.12A
ILO 147
 - Storage free of insects

- Sanitation COMDTINST 16711.12A
ILO 147
 - Toilets working (1/8 crew)
 - Showers operate (1/8 crew)
 - Wash basins
 - Lighted / heated / ventilated

- General safety COMDTINST 16711.12A
ILO 147
 - Safe access to all spaces
 - Spaces adequately lighted
 - No electrical hazards
 - Warning notices posted as necessary

Notes: _____

- Muster lists and emergency instructions
 - Available for each person SOLAS 74/78 III/8
 - Posted in conspicuous places
 - Language understood by crew
 - Shows crew member duties SOLAS 74/78 III/53
 - Checked for accuracy
- Pilot ladders and hoists in good condition SOLAS 74/78 V/17

Subdivision and Stability:

- Stability logging SOLAS 74/78 II-1/8
 - Verified by master
- Draft marks SOLAS 74/78 II-1/8
 - Bow and stern
- Ballasting fuel tanks SOLAS 74 II-1/8
SOLAS 74/78 II-1/9
- Load line markings SOLAS 74 II-1/11
SOLAS 74/78 II-1/13
 - Visible including C.1 line
- Openings in watertight bulkheads SOLAS 74 II-1/13
SOLAS 74/78 II-1/15
 - Pipes, cable penetrations properly sealed
 - Free of lead or other heat-sensitive materials
 - Ro-ro requirements SOLAS 74/78 II-1/23-2
- Weathertight bulkhead SOLAS 74/78 II-1/10.3
SOLAS 74/78 II-1/10.4
 - Fitted over collision bulkhead
 - Extends to next full deck above the bulkhead deck
- Operation of watertight / weathertight doors
 - Required drills SOLAS 74/78 II-1/24
 - Inspections
 - Markings
 - Logged SOLAS 74/78 II-1/25

Notes: _____

- Bridge indicators for watertight doors SOLAS 74/78 II-1/15
- Bilge pumps SOLAS 74 II-1/18
 - 3 required (4 if criterion numeral is 30 or more) SOLAS 74/78 II-1/21

Lifesaving Equipment:

- Lifeboats
 - Number required SOLAS 74 III/8, 27
SOLAS 74/78 III/20
 - Specifications SOLAS 74 III/9 & 10
SOLAS 74/78 III/41 - 46
 - Equipment SOLAS 70 III/11 & 12
SOLAS 74/78 III/41
 - Radiotelephone SOLAS 74/78 III/6.2
 - Operating instructions SOLAS 74/78 III/9
 - Manning SOLAS 74/78 III/10
 - Marking SOLAS 74 III/20
SOLAS 74/78 III/41
 - Retro-reflective tape SOLAS 74/78 III/30
 - Embarkation SOLAS 74 III/19
SOLAS 74/78 III/11, 22,
& 28
 - Falls renewed / end-for-end SOLAS 74/78 III/19
- ◇ Lifeboats
 - Availability SOLAS 74 III/4
 - Hull and fittings SOLAS 74 III/5 & 10
 - Capacity SOLAS 74 III/6 & 7
 - Searchlights SOLAS 74 III/14
 - Davits, falls, winches, and stowage SOLAS 74 III/28, 29, 36
- Lifeboats
 - Stowage SOLAS 74/78 III/11 & 13
 - Launching stations SOLAS 74/78 III/12
 - Launching and recovery procedures SOLAS 74/78 III/15 & 48

Notes: _____

□ Liferafts

- Number required SOLAS 74 III/27
SOLAS 74/78 III/20
- Specifications SOLAS 74 III/15 & 16
SOLAS 74/78 III/38 - 40
- Equipment SOLAS 74 III/17
SOLAS 74/78 III/38
- Embarkation SOLAS 74 III/19
SOLAS 74/78 III/11 & 22
- Markings SOLAS 74 III/20
SOLAS 74/78 III/39 & 40
- Operating instructions SOLAS 74/78 III/9
- Manning SOLAS 74/78 III/10
- Retro-reflective tape SOLAS 74/78 III/30
- Stowage SOLAS 74 III/29
SOLAS 74/78 III/13, 23
- Servicing SOLAS 74/78 III/19

◇ Liferafts

- Availability SOLAS 74 III/4

○ Liferafts

- Launching stations SOLAS 74/78 III/12
- Launching and recovery procedures SOLAS 74/78 III/15 & 48
- Falls renewed (end-for-end) SOLAS 74/78 III/19

○ Rescue boats

- Number required SOLAS 74/78 III/20
- Construction and equipment SOLAS 74/78 III/47
- Embarkation, launching, and recovery SOLAS 74/78 III/16, 22
& 48
- Stowage SOLAS 74/78 III/14
- Retro-reflective tape SOLAS 74/78 III/30

◇ Buoyant apparatus

- Availability SOLAS 74 III/4
- Number required SOLAS 74 III/27
- Stowage SOLAS 74 III/29
- Specifications SOLAS 74 III/33

Notes: _____

- Lifebuoys
 - Number required SOLAS 74 III/34
 - Specifications SOLAS 74/78 III/21
 - Retro-reflective tape SOLAS 74 III/21
SOLAS 74/78 III/30 & 31
- Additional lifebuoy requirements SOLAS 74/78 III/7
 - Distribution
 - Lifeline
 - Waterlights
 - Markings
 - Smoke signals
- Lifejackets

Adult _____ Children _____

 - Specifications SOLAS 74 III/22
SOLAS 74/78 III/32
 - Retro-reflective tape SOLAS 74/78 III/30
 - Lights SOLAS 74/78 III/21
 - Whistles SOLAS 74/78 III/32
 - Number of lifejackets rejected _____
- Stowage of lifejackets SOLAS 74/78 III/7
- Immersion suits and thermal protective aids SOLAS 74/78 III/21
 - Number required
- Additional immersion suit requirements
 - Specifications SOLAS 74/78 III/33
 - Retro-reflective tape SOLAS 74/78 III/30
- Line-throwing apparatus
 - Specifications SOLAS 74 III/23
SOLAS 74/78 III/49
- Additional line-throwing apparatus requirements
 - Number required SOLAS 74/78 III/17
 - Stowage SOLAS 74/78 III/49

Notes: _____

- Distress signals
 - 12 red rocket parachute flares
- Additional emergency communication equipment
 - Two-way radio
 - Portable radio for survival craft
 - Emergency alarm system
 - Emergency communications
- Muster stations
 - Location
 - Size
 - Emergency lighting
- Adequate lighting for decks, lifeboats, etc.
 - Emergency lighting

SOLAS 74 III/24
SOLAS 74/78 III/16 & 35

SOLAS 74/78 III/6

SOLAS 74/78 III/50

SOLAS 74/78 III/24

SOLAS 74/78 III/24

SOLAS 74/78 III/11

SOLAS 74 III/30

Fire Protection:

- Fire control plans
 - Properly displayed
 - Correct notations and information
 - Weathertight enclosure outside deckhouse
- Structure
 - Decks, deckhouse, shell, bulkheads
 - Aluminum A and B Class properly insulated
 - Conforms to plans
 - Fire integrity values
NOTE: *Reduced for sprinkled areas.*

SOLAS 74/78 II-2/20
SOLAS 74/78 II-2/41-2.1.1

SOLAS 74 II-2/35
SOLAS 74/78 II-2/23

SOLAS 74 II-2/17
SOLAS 74/78 II-2/23

SOLAS 74 II-2/39
SOLAS 74/78 II-2/20

SOLAS 74/ II-2/39
SOLAS 74/78 II-2/20

Notes: _____

- Construction details
 - Restricted use of combustible materials SOLAS 74 II-2/27
SOLAS 74/78 II-2/34
 - Draft stops SOLAS 74 II-2/28
SOLAS 74/78 II-2/35
 - Penetration of A and B-Class bulkheads SOLAS 74 II-2/23
SOLAS 74 II-2/24
SOLAS 74/78 II-2/18

- Main vertical and horizontal zones
 - Conforms to plans SOLAS 74 II-2/18
SOLAS 74 II-2/36
SOLAS 74/78 II-2/24
 - A-Class bulkheads
 - Bulkheads within main vertical zones SOLAS 74 II-2/19
SOLAS 74/78 II-2/25
 - Fire integrity values SOLAS 74 II-2/20

- Additional main vertical zone requirements
 - Bulkheads deck to deck or equivalent SOLAS 74/78 II-2/24
SOLAS 74/78 II-2/25

- Fire doors
 - A-Class in following areas:
 - Main vertical zones
 - Stairway enclosures
 - Control stations
 - Control station and local release
 - Proper closure
 - Free of hold-back hooks
 - Fire door indicator panel
 - Tested

SOLAS 74 II-2/23
SOLAS 74 II-2/24
SOLAS 74 II-2/37
SOLAS 74/78 II-2/30
SOLAS 74/78 II-2/31

SOLAS 74/78 II-2/41-2.4.2

- Protection of stairways and elevators
 - A-Class enclosures SOLAS 74 II-2/22
SOLAS 74 II-2/42
 - Fire dampers SOLAS 74/78 II-2/29
SOLAS 74/78 II-2/42
 - No direct access to spaces containing combustibles
 - Authorized services and storage areas SOLAS 74/78 II-1/41-2.4.4

- Windows and side scuttles
 - Proper framing SOLAS 74 II-2/26
 - Glass meets bulkhead integrity requirements SOLAS 74/78 II-2/33
 - Special attention in way of embarkation area

Notes: _____

- Paint lockers SOLAS 74/78 II-2/18
- Ventilation systems SOLAS 74/78 II-2/32
 - Main inlets and outlets can be closed from outside ventilated space SOLAS 74 II-2/23
 - Construction SOLAS 74 II-2/25
 - 2 remote shutdowns
 - Galley range ducts SOLAS 74/78 II-2/41-2.4.3
 - A-Class
 - Grease traps
 - Fixed fire extinguishing system
 - Shutdown
 - Fire damper
 - Fire damper if penetrates main vertical zone on deck SOLAS 74/78 II-2/23
 - Conforms to plans
 - Separate for enclosed stairways
 - Machinery ventilation shutdown SOLAS 74 II-2/45
 - Machinery ventilation fire damper SOLAS 74 II-2/34
- Laundry room ventilation MSG 021939Z NOV 98
 - System clean and clear of potential fire hazards (e.g., lint)
 - Adequate cleaning and maintenance program in place
- Fire patrols SOLAS 74 II-2/32
 - Properly trained SOLAS 74/78 II-2/40
 - Portable radios SOLAS 74/78 II-2/41-2.1.2
- Smoke detection and alarm system SOLAS 74/78 II-2/41-2.2
 - Accommodation spaces
 - Service spaces
 - Stairway enclosures
 - Corridors
- Smoke detection and alarm system fitted above ceilings SOLAS 74/78 II-2/41-2.3
 - In stairways and corridors (if ceilings are made of combustible material)

Notes: _____

- Fixed fire detection and alarm systems
 - Indicate fire and its location
 - 2 sources of power
 - Spare parts
 - Alarms

- Additional fixed fire detection and alarm system requirements
 - Fault indicators
 - Control panel indicators
 - Instructions
 - Call point locations
 - Smoke extraction system (vessels built after 01 FEB 92)
 - Required in machinery spaces if manning is reduced

- Fire extinguishers
 - Spares
 - Serviced
 - Location and number agree with fire control plan

- Fire pumps, fire mains, hydrants, and hoses
 - Number of pumps required
 - Adequate number and position of hydrants
 - Adequate pressure
 - Relief valves
 - Fire hoses properly stored
 - Spanners
 - Water fog applicators
 - 2 in each Category A machinery space
 - 1 for each pair for SCBA's
 - 3 for each special category space
 - Portable foam applicators
 - 1 unit in each boiler room
 - 1 unit in each engineroom
 - 1 unit for each special category space
 - Fire hose nozzles
 - Jet / spray nozzles with a shutoff

SOLAS 74 II-2/12
 SOLAS 74 II-2/32
 SOLAS 74/78 II-2/13
 SOLAS 74/78 II-2/36

SOLAS 74/78 II-2/13
 SOLAS 74/78 II-2/36

SOLAS 74/78 II-2/13-1
 SOLAS 74/78 II-2/14

SOLAS 74 II-2/15
 SOLAS 74/78 II-2/21
 SOLAS 74/78 II-2/6
 SOLAS 74 II-2/7
 SOLAS 74 II-2/32

SOLAS 74 II-2/15
 SOLAS 74/78 II-2/21
 SOLAS 74 II-2/5
 SOLAS 74/78 II-2/4
 SOLAS 74 II-2/32

SOLAS 74/78 II-2/41-2.1.3

SOLAS 74/78 II-2/41-2.1.4

SOLAS 74/78 II-2/41-2.1.5

Notes: _____

- Fire hose made of noncombustible material SOLAS 74/78 II-2/4
SOLAS 74/78 II-2/21
- International shore connection SOLAS 74 II-2/32
SOLAS 74/78 II-2/19
- Fixed gas systems (including machinery and cargo spaces) SOLAS 74 II-2/8
SOLAS 74/78 II-2/5
 - Alarms
 - Piping
 - Controls
 - CO₂ storage rooms
- Instructions and spare parts for fixed gas systems SOLAS 74/78 II-2/5
- Alternate fixed systems in machinery spaces SOLAS 74 II-2/10
SOLAS 74/78 II-2/9
SOLAS 74 II-2/11
SOLAS 74/78 II-2/10
 - Fixed high-expansion foam
 - Fixed pressure water-spray
- ◇ Fixed foam systems in machinery spaces SOLAS 74 II-2/9
- Fixed low-expansion foam as supplement in machinery spaces SOLAS 74/78 II-2/8
- Automatic sprinkler, fire alarm, and fire detection systems SOLAS 74 II-2/12
SOLAS 74 II-2/29
SOLAS 74/78 II-2/12
 - Isolation valves
 - Pressure gauges
 - Wet pipe (fully loaded)
 - Alarms (bridge panel)
 - Plan (zone plan)
 - Pump and tank
 - Test valve
 - Sprinkler heads are not recessed
 - Spare heads

Notes: _____

- General emergency alarm**
 - Audible throughout accommodation spaces, crew working spaces, and open decks
 - Sounds continuously until MANUALLY shut off
 - Special crew alarm

- Public address system installed**
 - Audible throughout accommodation spaces, public spaces, service spaces, control stations, and open decks

- Adequate means of escape in accordance with fire control plans**
 - Two means of escape
 - Dead-end corridors
 - Not blocked by furniture
 - Enclosed protected access to embarkation
 - Low-location lighting
 - No more than 1 foot above deck
 - Signs and equipment marked
 - Inspected and logged weekly

- Machinery space requirements**
 - Remote pump shutdowns
 - Remote fuel valves
 - Means of closing openings

- Fireman's outfits**
 - SCBA spare air cylinders (must be interchangeable)
 - Proper number of outfits for passenger spaces
 - 2 additional outfits per MVZ
 - Properly stowed

- Miscellaneous items**
 - Electric radiators
 - Noncombustible cinematographic film

SOLAS 74 II-2/32
SOLAS 74/78 II-2/40
SOLAS 74/78 II-2/41-2.4.8

SOLAS 74/78 II-2/40.4

SOLAS 74 II-2/32
SOLAS 74/78 II-2/40
SOLAS 74/78 II-2/41-2.4.9
SOLAS 74/78 III/6.5

SOLAS 74 II-2/21
SOLAS 74/78 II-2/28

SOLAS 74/78 II-2/41-2.4.10

SOLAS 74/78 II-2/41-2.4.7

SOLAS 74 II-2/50
SOLAS 74/78 II-2/11

SOLAS 74/78 II-2/15

SOLAS 74/78 II-2/17.1.2.2

SOLAS 74/78 II-2/17.3.1.1

SOLAS 74/78 II-2/17.4

SOLAS 74 II-2/6
SOLAS 74/78 II-2/18

Notes: _____

- Additional requirements for vessels with RO-RO decks
 SOLAS 74 II-2/30
SOLAS 74/78 II-2/37
 - Structural boundaries for horizontal zones
 - Manual sprinkler system
 - Fire patrol
 - Fire call boxes
 - Fixed fire extinguishing system
 - Additional fire equipment
 - Vent system requirements
 - Explosion-proof lighting

- Additional requirements for vessels with cargo holds intended for carrying motor vehicles with fuel tanks
 SOLAS 74 II-2/31
SOLAS 74/78 II-2/38
SOLAS 74/78 II-2/39
 - Fixed fire detection and alarm (vessels built after 01 FEB 92 may substitute smoke extraction system)
 - Fixed fire extinguishing system
 - Special ventilation requirements
 - Explosion-proof fixtures

Machinery:

- General condition of engine room / boiler room / machinery satisfactory
 SOLAS 74 II-1/23
SOLAS 74/78 II-1/26
 - Tank tops, bilge wells, bilges clean

- Steering gear
 SOLAS 74 II-1/29
SOLAS 74 II-1/30
SOLAS 74/78 II-1/29
SOLAS 74/78 II-1/30
 - Main steering gear tested
 - Auxiliary steering gear tested
 - Communications between bridge / steering gear room
 - Indicators for electric motors

- Steering gear alarms
 SOLAS 74/78 II-1/29
SOLAS 74/78 II-1/30

Notes: _____

- Communication navigation bridge / machinery space
 - Engine-order telegraph
 - Sound powered phone, voice tube, etc.
 SOLAS 74 II-1/32
SOLAS 74/78 II-1/37
- Remote shutdown for main propulsion on bridge
 SOLAS 74/78 II-1/31
- Adequate ventilation in machinery spaces
 SOLAS 74/78 II-1/35

Electrical Systems:

- Main generators
 - 2 required
 SOLAS 74 II-1/24
SOLAS 74/78 II-1/41
- Emergency source of power
 - Emergency lighting
 - Generator and/or batteries tested under load
 - Provides adequate lighting at main generators
 SOLAS 74 II-1/25
SOLAS 74/78 II-1/42
SOLAS 74/78 II-1/44
- General safety
 - Guards and mats for switchboards
 - Battery storage
 SOLAS 74 II-1/27
SOLAS 74/78 II-1/45

Pollution Prevention:

- Pollution placard posted
 33 CFR 155.450
- MARPOL V placard posted
 MARPOL Ax. V/9
- Garbage
 - Shipboard garbage properly disposed
 - No plastics or synthetics discharged overboard
 - Garbage Management Plan
 33 CFR 151.63
MARPOL Ax. V/3
MARPOL Ax. V/9
- Standard discharge connection
 MARPOL Ax. I/18
33 CFR 155.430

Notes: _____

- Cargo oil containment 33 CFR 155.310
 - Size
 - Drains
 - Scupper closures
- Fuel oil containment 33 CFR 155.320
 - Portable
 - Fixed
- Prohibited oil spaces 33 CFR 155.470
- Deck lighting 33 CFR 155.790
- Oil transfer hose 33 CFR 155.800
 - Condition
 - Markings
 - Hose assembly requirements
 - Tests and inspections
- Oily water separator MARPOL Ax. I/16
 - 100 ppm and bilge monitor
 - 15 ppm and bilge alarm
- Sludge (oil residue) tank MARPOL Ax. I/17
- Marine sanitation device
 - Type (I, II, III) 33 CFR 159.7
 - Nameplate 33 CFR 159.55
 - Placard 33 CFR 155.59
 - Proper operation
 - Capacity satisfactory

Notes: _____

Section 4: Drills

Fire Drill:

Initial notifications	Familiarity with duties	Space isolation
General alarms / signals	Familiarity with equipment	Smoke control
Crew response	Fire pumps started	Arrange care of passengers
Properly dressed / equipped	Two jets of water	Communications w/ bridge
Language understood by crew	Fire doors and dampers	

(SOLAS 74/78 III/18.3; MSM Vol. II/D5.C.7.i; NVIC 6-91)

Location: _____ Time on Scene: _____

Notes: _____

Abandon Ship Drill:

- General alarms / signals Familiarity with duties Boat release
- Muster lists Provide equipment Boat operation
- Muster of crew / passengers Familiarity with equipment Egress procedures
- Crew response Lower lifeboat Davit-launched liferaft drill
- Language understood by crew Brake operation Communication w/ bridge
- Lifejackets Engine start Lighting

(SOLAS 74/78 III/18.3; MSM Vol. II/D5.C.7.h)

Location: _____ Time to Water: _____

Notes: _____

Section 5: Appendices

Recommended Port State Control Procedures:

The following flowcharts contain information gleaned from the Marine Safety Manual Volume II, Chapter D2. The senior marine inspector/port state control officer should be familiar with this chapter as well as the information pertaining to Port State Control examinations contained in MSM Volume II, Chapters D1—Foreign Vessel Exams (General), D7—Foreign Vessel Exams (Passenger), and D4—Targeting of Foreign Vessel Boardings.

Considering the seriousness of the deficiencies, the OCMI or COTP must determine the appropriate control action to impose on these vessels to ensure the safety of the vessel, the port, and the environment. The degree of control imposed, as well as the authority used to exercise control, must be consistent with the nature of the deficiencies.

The following definitions and terms of reference are used in the MSM to describe key elements of Port State Control enforcement:

Clear Grounds. Evidence that the vessel, its equipment, or crew do not correspond substantially to the requirements of the relevant conventions or that the master or crew members are not familiar with essential shipboard procedures relating to the safety of vessels or the prevention of pollution.

Control. Control is the process of imposing a port state's or flag state's authority over a vessel to ensure that its structure, equipment, operation and crew meet applicable standards. The process is affected by any verbal or written directives from the OCMI/COTPs or their representatives, which require action or compliance by the vessel.

Detention. Detention is a control action that restricts a vessel's right of free movement. The imposition of a restriction on the movement of a vessel constitutes a detention regardless of whether or not a delay from a vessel's normal or expected itinerary occurs. Detentions may be carried out under the authority of the applicable international convention, the Ports and Waterways Safety Act (PWSA) or a Customs hold.

Intervention. An intervention is a control action taken by a port state, which interposes the port state's authority over a foreign flag vessel in order to cause the vessel to be brought into compliance with an applicable international convention. Interventions are undertaken by a port state when a vessel's flag state has not, can not, or will not exercise its obligations under an international convention to which it is a party. This may include requesting appropriate information, requiring the immediate or future rectification of deficiencies, detaining the vessel, or allowing the vessel to proceed to another port for repairs.

Nonconforming Vessel. Any vessel failing to comply with one or more applicable requirements of U.S. law or international conventions is a nonconforming vessel. A nonconforming vessel is not necessarily a substandard vessel unless the discrepancies endanger the vessel, persons on board, or present an unreasonable risk to the marine environment.

Substandard Vessel. In general, a vessel is regarded as substandard if the hull, machinery, or equipment, such as lifesaving, firefighting and pollution prevention, are substantially below the standards required by U.S. laws or international conventions, owing to:

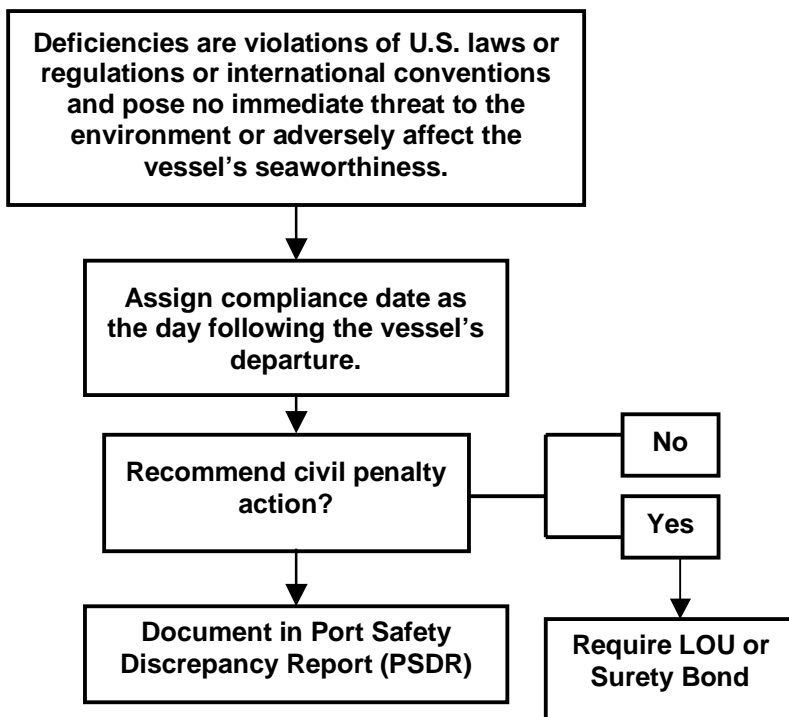
- The absence of required principal equipment or arrangement;
- Gross noncompliance of equipment or arrangement with required specifications;
- Substantial deterioration of the vessel structure or its essential equipment;
- Noncompliance with applicable operational and/or manning standards; or
- Clear lack of appropriate certification, or demonstrated lack of competence on the part of the crew.

If these evident factors as a whole or individually endanger the vessel, persons on board, or present an unreasonable risk to the marine environment, the vessel should be regarded as a substandard vessel.

Valid Certificates. A certificate that has been issued directly by a contracting government or party to a convention, or on the behalf of the government or party by a recognized organization, and contains accurate and effective dates, meets the provisions of the relevant convention, and corresponds to the particulars of the vessel and its equipment.

Requiring Corrective Measures Prior to Return to U.S.

(NO DETENTION)

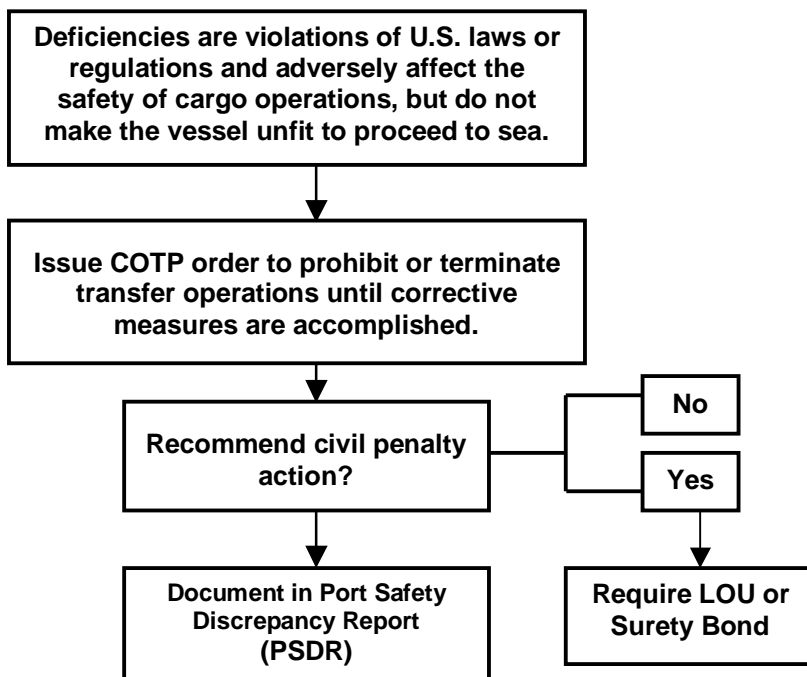


Examples include the following:

- Charts or nautical publications not currently corrected.
- Portable hoses have not been tested but appear in good condition.
- Actual location of safety equipment deviates from the vessel safety plan.
- Electrical fixtures in paint locker not appropriately certified for safe usage in hazardous location. (Operational controls, such as disconnecting the electrical power source or removing flammables from the space, may satisfactorily remove risk to vessel.)

Requiring Corrective Measures Prior to Cargo, Bunkering or Lightering Operations

(NO DETENTION)

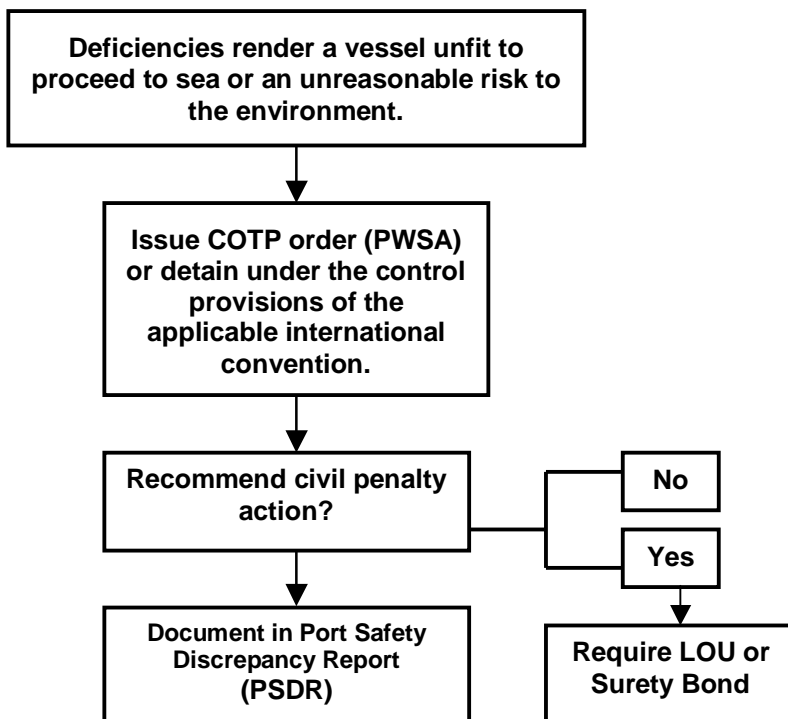


Examples include the following:

- Oil transfer procedures incomplete.
- Information on properties and hazards of cargoes not on board.
- High and low level alarms inoperative.

Requiring Corrective Measures Prior to Departure

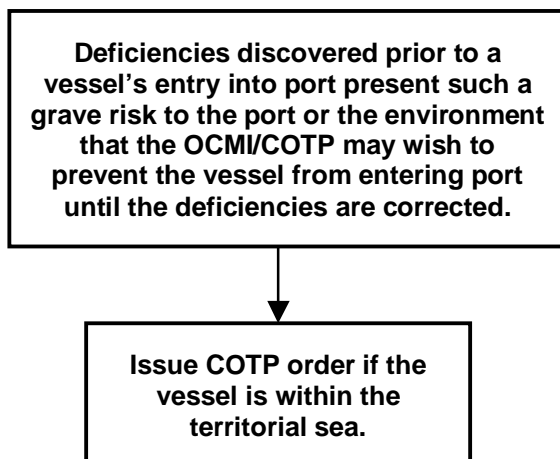
(DETENTION)



Examples include the following:

- Excessive wastage, corrosion, pitting, holes, or damage to the hull, cargo hatches, fire main, or other vital system.
- Inoperable emergency fire pump or emergency generator.
- Inability to lower lifeboats.
- Inoperable lifeboat motors (i.e., will not start).
- Crew incompetent to carry out duties (e.g., fire or boat drills, cargo transfer, stability calculations, etc.).
- Licenses invalid.
- Safe Manning Document not on board.

Requiring Corrective Measures Prior to Entry



Examples include the following:

- Leaking tanks.
- Carrying dangerous cargoes with expired documents.
- Carrying incompatible cargoes.
- Invalid ISM certificates.
- COFR not on board.

Detention Information:

NOTE: Complete prior to recommendation.

Verify owner (from DOC or COFR), operator, and mailing address.

Verify owner's agent.

Verify last and future drydock dates and locations.

If dual classed, who will respond? _____

Which agency issued the documents that have major problems?

What is the date of the last survey conducted for those items that have problems?

What are the vessel's plans to deal with the problems?

What is the crew's attitude toward the problems?

Is the detention ISM related? If so, include ISM certification information in the Detention Report to G-MOC-4.

Notes: _____

Conversions:

Distance and Energy					
Kilowatts (kW)	X	1.341	=	Horsepower (hp)	
Feet (ft)	X	3.281	=	Meters (m)	
Long Ton (LT)	X	.98421	=	Metric Ton (t)	
Liquid (NOTE: Values are approximate.)					
Liquid	bb/LT	m ³ /t	bb/m ³	bb/t	
Freshwater	6.40	1.00	6.29	6.29	
Saltwater	6.24	.975	6.13	5.98	
Heavy Oil	6.77	1.06	6.66	7.06	
DFM	6.60	1.19	7.48	8.91	
Lube Oil	7.66	1.20	7.54	9.05	
Weight					
1 Long Ton	= 2240 lbs	1 Metric Ton	= 2204 lbs		
1 Short Ton	= 2000 lbs	1 Cubic Foot	= 7.48 gal		
1 Barrel (oil)	= 5.61 ft = 42 gal = 6.29 m ³	1 psi	= .06895 Bar = 2.3106 ft of water		
Temperature: Fahrenheit = Celsius ($^{\circ}\text{F} = 9/5\ ^{\circ}\text{C} + 32$ and $^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$)					
0	= -17.8	80	= 26.7	200	= 93.3
32	= 0	90	= 32.2	250	= 121.1
40	= 4.4	100	= 37.8	300	= 148.9
50	= 10.0	110	= 43.3	400	= 204.4
60	= 15.6	120	= 48.9	500	= 260
70	= 21.1	150	= 65.6	1000	= 537.8
Pressure: Bars = Pounds per square inch					
1 Bar	= 14.5 psi	5 Bars	= 72.5 psi	9 Bars	= 130.5 psi
2 bars	= 29.0 psi	6 Bars	= 87.0 psi	10 Bars	= 145.0 psi
3 Bars	= 43.5 psi	7 Bars	= 101.5 psi		
4 Bars	= 58.0 psi	8 Bars	= 116.0 psi		