

United States Coast Guard



**FOREIGN TANK VESSEL EXAMINER
Job Aid**

Name of Vessel		Flag <input type="checkbox"/> No Change	
IMO Number		Case Number	
Date Completed	Priority	Points	
Location			
Vessel Built in Compliance with SOLAS: 60 74 74/78 NA			
Port State Control Officer & Examiners			
1. _____	_____	5. _____	_____
2. _____	_____	6. _____	_____
3. _____	_____	7. _____	_____
4. _____	_____	8. _____	_____

Job Aid FTVE
Rev. Dec 2016

DCN: MPS-JA-TCY-FTVE(4)

Use of Foreign Tank Vessel Examiner Job Aid:

This examination book is intended to be used as a job aid by Coast Guard port state control officers during boardings of foreign-flagged tank vessels. 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, 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 port state control officers based on their observations.

This PQS workbook cites SOLAS regulations from the 2014 Consolidated Edition (74 SOLAS (14)). In some cases, the regulations in 74 SOLAS (14) may not apply due to the keel laid date of the vessel. PSC personnel must pay close attention to the applicability dates of the SOLAS chapters and regulations when conducting PSC exams.

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 Examiner Job Aid, Foreign Tank Vessel Training Aid, NVIC's and any locally produced cite guides for specific regulatory references.

NOTE: *Guidance on how to examine foreign tank vessels can be found in MSM Volume II, Section D, Chapter 6: Procedures Applicable to Foreign Tank Vessels.*

Guide to Examinations:

Pre-inspection Items

- Review MISLE records
- Obtain copies of forms to be issued

Post-inspection Items

- Issue letters/certificates to vessel
 - Form A
 - Form B
 - COC
- Complete MISLE entries within 48 hours

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 (°F = 9/5 °C + 32 and °C = 5/9 (°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	

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- Verify the status of the ventilation system ducting at each level of the pump room. Terminate entry if the vent ducting is not intact.

IMMEDIATELY LEAVE ANY CONFINED SPACE IF:

- A personal monitor alarms;
- You feel dizzy or lightheaded;
- The forced air ventilation stops or is apparently ineffective; or
- If you sense any unexpected chemical through smell or dermal sensation that concerns you. This is a judgment call; however, you should depart any time there is a burning sensation in your lungs or you experience a shortness of breath. Any of these sensations may indicate a life threatening situation and you must react promptly to avoid injury.

Note: Climbing (other than on ladders) shall be limited to 5ft.

Steps to Take After Entry for All Confined Spaces

- Immediately contact your chain of command if you left a confined space for any of the reasons noted above. Do not reenter any confined space until notification of appropriate senior personnel and direction from your supervisor is obtained.
- Report any inconsistencies in the marine chemist certificate or competent person log to your supervisor and follow-up with a letter to Commandant CG-1134 via your District (industrial hygienist).
- In the event of overexposure, personnel should be evacuated to appropriate medical facilities by the most expeditious means. Medical personnel should be provided with all known information on the suspected exposure, including concentration and duration of exposure. This should include the most probable route of exposure. Also provide the medical authority with the phone number to American Toxic Substance and Disease Registry (ATSDR).

STCW	28 APR 84
STCW (2001 edition) contains all amendments entered into force up-to 2000 Amendments. The following Amendments (resolutions) have entered into force since it was published. www.imo.org	
MSC 78(70)	01 JAN 03
MSC 156(78)	01 JUL 06
MSC 180(79)	01 JUL 06
MSC 203(81)	01 JAN 08
MSC 209(81)	01 JAN 08
2010 Manila Conference (new 2011 Consolidated edition)	01 JAN 12
ITC 1969	18 JUL 82

Involved Parties & General Information:

Owner's Agent
Individual
Phone Number

Charterer's Agent
Individual
Phone Number
<input type="checkbox"/> Same as Owner's Agent

Owner—Listed on DOC or COFR
<input type="checkbox"/> No Change

Operator
<input type="checkbox"/> No Change

- Calibrate and test the multi-gas detector required for entry. The meter should be able to detect oxygen and flammability. For sour crude cargos - for hydrogen sulfide as well.
- Check operation of personal oxygen monitor if carried in addition to the multi-gas meter. (An O₂ meter is required for entry into all confined space types)
- Check condition of the required EEBA. The carriage of an EEBA by all personal entering a pump room is required.
- Verify operation of ventilation system & that space is properly ventilated. Ventilation must be in operation at least 15 min prior to entry, or at least 3 air changes. A good "rule of thumb" indication that the system is operating properly is a noticeable air movement entering through the door to the upper pump room. **IF VENTILATION SYSTEM IS INOPERABLE, CG PERSONNEL ARE NOT AUTHORIZED TO ENTER THE PUMP ROOM.**
- Discuss the aspects of entering the pump room with the vessel's officer. Verify the presence of a litter and hoisting arrangement prior to entry.
- Verify all cargo transfer equipment in the pump room is secured.

Steps to Take During Pump Room Entry

- USCG personnel should be accompanied by a ship's officer or vessel rep.
- Carry the combination oxygen/flammability/toxic meter and EEBA.
- Carry a whistle or other device to sound an alarm in event of emergency.
- Check the air movement at the entry into the pump room. It should be very noticeable. **Note direction of flow!**
- Check the hoisting arrangement in the pump room. Most vessels have a block and tackle arrangement secured to an overhead beam in the area with direct access to the lowest part of the pump room.

The following steps shall be completed prior to, during, and after entering a pump room.

Steps to Take Prior To Pump Room Entry

- Determine the current and last three cargos carried to assess exposure risk.
- Review the Marine Chemist Certificate to verify the space was properly tested for the following:
 - Oxygen content - 19.5% to 22% (ideal is 20.8%)
 - Flammable gases/ vapors - less than 10% of LEL
 - Carbon Monoxide - less than 25 ppm
 - Hydrogen Sulfide - less than 1 ppm
 - Any toxic gases/ vapors dependent upon the nature of the space and its contents or previous contents – concentrations must be below the PEL and TLV limits.
 - Verify the Marine Chemist designated the space “Safe for Workers”
 - Verify that Marine Chemist signed the certificate.
 - Verify the certificate was issued within the past 24 hrs and that conditions have NOT changed. – (i.e. vessel moved, cargo pumps turned on or off, extreme outside temp change, etc.)
- BENZENE:** When high & moderate benzene level cargos are carried on board the vessel, the marine chemist certificate must contain the level in ppm of benzene present, if any. (See MSM Vol. I, Chap. 10, appendix C for list of cargos containing benzene)
 - If concentration level is above 5 ppm – entry is **NOT** authorized.
 - If concentration level is greater than 0.5 ppm, it is strongly recommended that the space be ventilated to bring the level below the TLV. If that cannot be accomplished and the benzene concentration is between 0.5 ppm and 5 ppm, PSCOs **MUST** wear an appropriate respirator and not stay in space longer than 2 hours.
 - If concentration level is less than 0.5 ppm, NO respirator required.
 - If vessel is carrying a low benzene level cargo and being transferred through the pump room - PSCOs must wear a respirator with organic vapor cartridge and cannot stay in space more than 2 hrs in the absence of a test for benzene.

Vessel Information:

Classification Society	
ISM Issuer: Same as above? <input type="checkbox"/> Yes <input type="checkbox"/> No If not the same, which Recognized Organization? _____	
<i>NOTE: The period of validity for ISM documents should correspond to the following list. If they do NOT, ISM documents should be further investigated.</i>	
<input type="checkbox"/> 5 years = Full term (SMS and DOC)	<input type="checkbox"/> 12 months = Interim (DOC)
<input type="checkbox"/> 6 months = Interim (SMC)	<input type="checkbox"/> 5 months = Short term (SMC)
Last Drydocking Date	Next Drydocking Date
Location of Last Drydocking	
Date of Last Class Survey	
<input type="checkbox"/> Outstanding conditions of class or non-conformities	
Last Port of Call	Next Port of Call
Method of Construction <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III	Conversions / Modifications
Call Sign	<input type="checkbox"/> No Change
Gross Tons	<input type="checkbox"/> No Change
Built Date (use delivery date)	<input type="checkbox"/> No Change
Overall Length (in feet)	<input type="checkbox"/> 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 <input type="checkbox"/> No Change						
Classification Document <input type="checkbox"/> No Change						
Certificate of Financial Responsibility (COFR) <input type="checkbox"/> No Change	USCG					
Safety Construction <input type="checkbox"/> No Change						
Safety Equipment <input type="checkbox"/> No Change						
Safety Radio <input type="checkbox"/> No Change						

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Examples (not limited to) of non-confined spaces that may pose a hazard on tank vessels:

Non-confined spaces that may pose a risk (All vessel types)	Possible Hazard(s)	Safe Work Practice
CO ₂ Storage Room	O ₂ deprivation due to leaking CO ₂	Ensure proper ventilation, wear O ₂ meter
Machinery Spaces	Noise, Flammability, Toxicity; MSDs – H ₂ S	Hearing protection
Flammable Storage Lockers/Paint Rooms	Flammability, Toxicity	Ensure proper ventilation
Battery Room	Toxicity -	Ensure proper ventilation
Bosun Shop	O ₂ deprivation	Ensure proper ventilation
Workshops	Toxicity from welding fumes, Flammability, Noise	Ensure proper ventilation
Provisions/Non-Flammable Storage	O ₂ deprivation	Ensure proper ventilation
Open Cargo Deck	Flammability	Ensure use of intrinsically safe radios, flashlight, phone, etc.

Examples (not limited to) of confined spaces on chemical tank carriers:

Confined Spaces	Hazard ²⁾
VOIDS/COFFERDAMS ¹⁾	P- O; S- F,T
SEALED COMPARTMENTS ¹⁾	P- O; S- F,T
DOUBLE BOTTOMS/SIDES/DUCT KEELS ¹⁾	P- O; S- F,T
SPACES COATED WITH A PRESERVATIVE ¹⁾	P- O; S- F,T
ENGINE CRANKCASES/SCAVENGING SPACES ¹⁾	P- O; S- F,T
LARGE HEAT EXCHANGERS ¹⁾	P- O; S- F,T
FUEL/LUBE OIL/SLUDGE TANKS ¹⁾	P- F,T; S- O
WATER TANKS ¹⁾	P- O; S- F,T
CARGO/SLOP TANKS ¹⁾	P- O; S- F,T
PUMP ROOMS (if provided) ³⁾	P- O; S- F,T

1) Port State Control Officers should not attempt to enter any of the above spaces during a standard PSC examination, other than pump rooms. There may be reason to enter one or more of these spaces during the exam if there are clear grounds to do so, but only enter these spaces after ensuring they are safe for entry. Review the safe work practices contained in MSM Vol. 1, chapter 10, Appendix A for entry into confined spaces other than pump rooms.

2) Hazards – P (Primary);
S (Secondary);
O (Oxygen Deprivation);
F (Flammability);
T (Toxicity)

3) Follow steps on page 29 for entry into pump rooms

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp. Date	Endors. Date
International Load Line (ILLC) <input type="checkbox"/> No Change						
International Tonnage (ITC) <input type="checkbox"/> No Change						
ISM Document of Compliance (DOC) <input type="checkbox"/> No Change						
ISM Safety Management (SMC) <input type="checkbox"/> No Change						
International Ship Security (ISSC) <input type="checkbox"/> No Change						
Continuous Synopsis Record (CSR) <input type="checkbox"/> No Change						
Minimum Safe Manning (MSM) <input type="checkbox"/> No Change						

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp. Date	Endors. Date
International Oil Pollution Prevention (IOPP) <input type="checkbox"/> No Change						
International Sewage Pollution Prevention (ISPP) <input type="checkbox"/> No Change						
International Air Pollution Prevention (IAPP) <input type="checkbox"/> No Change						

Confined Space Entry Checklist

Sources for Policy

- COMDTINST M5100.47, Chapter 6, change 11
- MSM Vol. 1, Chapter 10 & Appendix A, C, G to chap. 10
- 29 CFR 1915, Part B

A Confined Space for the purpose of this checklist is:

A space that possess all of the following three distinct characteristics –

1. Is large enough and so configured that an employee can bodily enter & perform assigned work;
2. Has limited or restricted means for entry or exit; and
3. Is not designed for continuous employee occupancy

Hazards associated with confined space entry

- Oxygen deficient or enriched atmosphere
- Flammable atmosphere
- Toxic atmosphere
- Extreme temperature (hot or cold)
- Engulfment hazard (such as grain, coal, sand, gypsum or similar material)
- Extreme noise
- Slick / wet surfaces & tripping hazards
- Falling objects
- Potential for rapidly changing atmosphere

USCG Confined Space Entry Requirement

A certified Marine Chemist **shall** conduct the initial inspection & certify all confined spaces on merchant vessels "Safe for Workers" before entry by USCG personnel.

In rare circumstances, if a Marine Chemist is not available, the OCM may designate a USCG Competent Person to certify a confined space "Safe for Workers"

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 CG-CVC-2

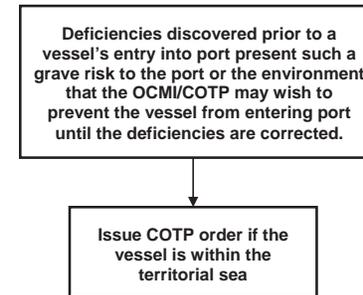
Notes: _____

Section 3: Inspection Items

- 1. Schedule examination in Maritime Information for Safety and Law Enforcement (MISLE) 33 CFR 2 33 CFR 6
- 2. Coordinate examination with vessel's representative MSM I/12.G.5 MPS-PR-SEC-02 MSM II/D.5.C.2
- 3. Conduct meeting with vessel's representative to discuss scope of the examination MPS-PR-SEC-04
- 4. Mitigate potential hazards encountered during an exam NFPA 306
- 5. Examine anchor(s) and chain MSM II/E.2.6.b ILO-147 p48/3(g)
- 6. Examine hull for required markings ICLL 5-9
- 7. Examine material condition of hull 33 USC 1321 MARPOL I/15
- 8. Examine access ladders and sideshell openings 29 CFR 1915.74(a) SOLAS 14 II-1/3-9
- 9. Examine hull, anchors and anchor chain for compliance with the Non-Indigenous Aquatic Nuisance Species Act 33 CFR 151.2050(e)(f) MSM II/D.1.G.1.t
- 10. Examine mooring system/equipment MSM II/E.2.6.b
- 11. Examine security procedures at vessel access point(s) 33 CFR 104.265(a) ISPS A/7.2.2
- 12. Verify security training & records 33 CFR 104.215 & 104.220 SOLAS 14 XI-2/4.2
- 13. Examine Certificate of Registry 46 USC 3303 SOLAS 14 I/13
- 14. Examine Classification Society Certificate SOLAS 14 I/6(a)
- 15. Examine International Tonnage Certificate (ITC) ICTM 69 Article 7
- 16. Examine International Load Line Certificate (ILLC) ICLL Article 16
- 17. Examine Cargo Ship Safety Construction Certificate (CSSCC) SOLAS 14 I/12(a)(ii) SOLAS 14 I/16
- 18. Examine Cargo Ship Safety Equipment Certificate (CSSEC) and Record of Equipment (Form-E) SOLAS 14 I/12(a)(iii) SOLAS 14 I/16
- 19. Examine Cargo Ship Safety Radio Certificate (CSSRC) and Record of Equipment (Form-R) SOLAS 14 I/12(a)(iv) SOLAS 14 I/16
- 20. Examine Cargo Ship Safety Certificate (CSSC) and Record of Equipment (Form-C) SOLAS 14 I/12(a)(v) SOLAS 14 I/16
- 21. Examine copy of Document of Compliance (ISM-DOC) 33 CFR 96.330 SOLAS 14 IX/4.2

<input type="checkbox"/>	22. Examine Safety Management Certificate (ISM-SMC)	SOLAS 14 IX/4.3 ISM Code 13.7
<input type="checkbox"/>	23. Examine Minimum Safe Manning Document	SOLAS 14 V/14.1
<input type="checkbox"/>	24. Examine Crew Certificates of Competency and Proficiency IAW Safe Manning Document	STCW I/2.11
<input type="checkbox"/>	25. Examine Medical Certificates	STCW I/9.3 COMDTINST 16711.12A
<input type="checkbox"/>	26. Examine Continuous Synopsis Record (CSR)	SOLAS 14 XI-1/5.1 SOLAS 14 XI-1/5.10
<input type="checkbox"/>	27. Examine International Ship Security Certificate (ISSC)	SOLAS 14 XI-2/4.2 ISPS Code A/19.2.1
<input type="checkbox"/>	28. Examine International Sewage Pollution Prevention Certificate (ISPP)	MARPOL IV/5 NVIC 01-09 Encl. 3
<input type="checkbox"/>	29. Examine International Air Pollution Prevention Certificate (IAPP)	MARPOL VI/6 CG-543 Policy Ltr 09-01
<input type="checkbox"/>	30. Examine the Engine International Air Pollution Prevention (EIAPP) Certificate(s)	MARPOL VI/13.8 NOx Code 2.1.1
<input type="checkbox"/>	31. Verify compliance with the Vessel General Permit (VGP)	VGP 1.5.1.1 & 10 VGP Table 1
<input type="checkbox"/>	32. Examine muster lists and emergency instructions	SOLAS 14 III/8.2
<input type="checkbox"/>	33. Examine ballast water management documents	33 CFR 151.2025(a)(1)
<input type="checkbox"/>	34. Examine Long-Range Identification & Tracking (LRIT) conformance test report	IMO MSC.1/Circ. 1307
<input type="checkbox"/>	35. Examine Ship Energy Efficiency Management Plan (SEEMP)	MARPOL VI/22
<input type="checkbox"/>	36. Examine International Energy Efficiency Certificate (IEEC)	MARPOL VI/6 CG-CVC Policy Ltr 13-02
<input type="checkbox"/>	37. Examine Energy Efficiency Design Index (EEDI)	MARPOL VI/20
<input type="checkbox"/>	38. Examine International Anti-fouling System Certificate (IAFS)	AFS 2 MSM II/D.1.G.t
<input type="checkbox"/>	39. Examine International Oil Prevention Certificate Form B (IOPP)	33 CFR 151.19(b) MARPOL I/7
<input type="checkbox"/>	40. Examine Tank Vessel Response Plan (TVRP)	33 CFR 155.1015 33 CFR 155.1025
<input type="checkbox"/>	41. Examine International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances (IPPC-NLS)	46 CFR 153.9(a) MARPOL II/9.1
<input type="checkbox"/>	42. Examine crew Certificates of Competency & Proficiency for service on oil tankers	STCW A-V/1-1.1
<input type="checkbox"/>	43. Verify participation in Enhanced Survey program	SOLAS 14 XI-1/2 ESP Code 6.1.1
<input type="checkbox"/>	44. Examine Cargo Securing Manual	SOLAS 14 VI/5.6

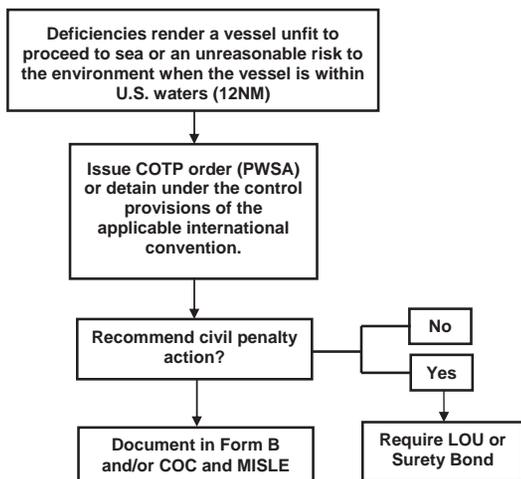
Requiring Corrective Measures Prior to Entry



Examples include the following:

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

**Requires Corrective Measures Prior to Departure
(DETENTION)**



Examples include the following:

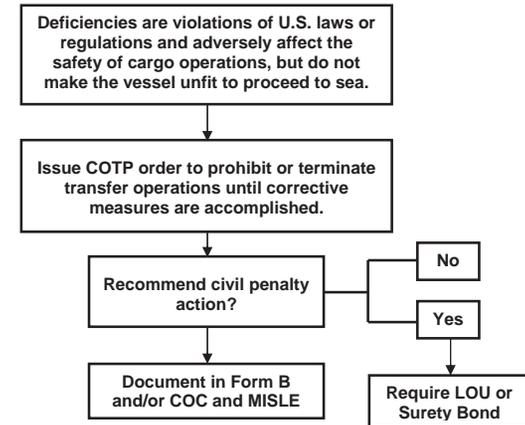
- Excessive wastage, corrosion, pitting, holes, or damage to the hull, cargo hatches, fire main, or other vital system.
- Inoperable emergency fire pump or emergency generator.
- Inability to lower lifeboats.
- Inoperable lifeboat motors (i.e., will not start).
- Crew incompetent to carry out duties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

- | | | |
|--------------------------|--|--|
| <input type="checkbox"/> | 45. Examine Oil Record Book Part I (ORB) | 33 CFR 151.25
MARPOL I/17.1 |
| <input type="checkbox"/> | 46. Examine Oil Record Book (Part II) | 33 CFR 151.25
MARPOL I/36.1 |
| <input type="checkbox"/> | 47. Examine cargo and ballast system instructional manual | 33 CFR 157.23(a) |
| <input type="checkbox"/> | 48. Examine Shipboard Oil Pollution Emergency Plan (SOPEP) | MARPOL I/37.1 |
| <input type="checkbox"/> | 49. Examine Shipboard Marine Pollution Emergency Plan (SMPEP) | MARPOL II/17.1
MARPOL II/17.3 |
| <input type="checkbox"/> | 50. Examine Cargo Record Book | 46 CFR 153.490(a)(1)
MARPOL II/15.1 |
| <input type="checkbox"/> | 51. Verify transfer personnel, procedures, equipment and records | 33 CFR 155.700
33 CFR 155.710(e)(4) |
| <input type="checkbox"/> | 52. Examine Garbage Management Plan | 33 CFR 151.57
MARPOL V/9.2 |
| <input type="checkbox"/> | 53. Examine Garbage Record Book | 33 CFR 151.55
MARPOL V/9.3 |
| <input type="checkbox"/> | 54. Examine training manuals | SOLAS 14 II-2/15.2.3.1 |
| <input type="checkbox"/> | 55. Examine liferaft maintenance records and service logs/reports | SOLAS 14 III/36.7
SOLAS 14 III/20.6 |
| <input type="checkbox"/> | 56. Examine fire detection system maintenance and service logs/reports | SOLAS 14 II-2/14.2.2.1
IMO MSC.1/Circ. 1432 |
| <input type="checkbox"/> | 57. Examine Logbook entries | 33 CFR 164.25
SOLAS 14 V/26 |
| <input type="checkbox"/> | 58. Examine fire fighting equipment maintenance and service logs/reports | SOLAS 14 II-2/14.2.2.1
IMO MSC.1/Circ. 1432 |
| <input type="checkbox"/> | 59. Examine lifeboat maintenance records and service logs/reports | SOLAS 14 III/36.7 |
| <input type="checkbox"/> | 60. Examine charts and publications (when applicable) | 33 CFR 164.33
SOLAS 14 V/19.2.1.4 |
| <input type="checkbox"/> | 61. Examine echo-sounding device | 33 CFR 164.35(h)
SOLAS 14 V/19.2.3.1 |
| <input type="checkbox"/> | 62. Examine electronic position fixing device | 33 CFR 164.41
SOLAS 14 V/19.2.1.6 |
| <input type="checkbox"/> | 63. Examine bridge navigation/propulsion indicators | 33 CFR 164.35(f)
SOLAS 14 V/19.2.5.4 |
| <input type="checkbox"/> | 64. Examine records of emergency training and drills | SOLAS 14 III/19.3.2
SOLAS 14 III/19.5 |
| <input type="checkbox"/> | 65. Examine radar(s) and Automatic Radar Plotting Aid (ARPA) | 33 CFR 164.35(a) & 37
SOLAS 14 V/19.2.3.2 |
| <input type="checkbox"/> | 66. Examine compasses | 33 CFR 164.35(b)
SOLAS 14 V/19.2.1.1 |
| <input type="checkbox"/> | 67. Witness operational test of steering gear | SOLAS 14 II-1/29.7
SOLAS 14 II-1/29.8 |
| <input type="checkbox"/> | 68. Examine Voyage Data Recorder (VDR) | SOLAS 14 V/20
IMO Res A.861(20) |
| <input type="checkbox"/> | 69. Examine Automatic Identification System (AIS) | 33 CFR 164.46
SOLAS 14 V/19.2.4 |
| <input type="checkbox"/> | 70. Examine radiotelephone (VHF) | 33 CFR 26.03
SOLAS 14 IV/7.1 |

<input type="checkbox"/>	71. Examine Global Maritime Distress and Safety System (GMDSS) equipment	SOLAS 14 IV/8-11 IMO Res A.694(17)
<input type="checkbox"/>	72. Examine Long-Range Identification & Tracking (LRIT) equipment	SOLAS 14 V/19-1 .4.1 CG-543 Guidance
<input type="checkbox"/>	73. Examine daylight signaling lamp	SOLAS 14 V/19.2.2.2
<input type="checkbox"/>	74. Examine internal means of communication	SOLAS 14 II-1/37
<input type="checkbox"/>	75. Examine additional equipment for tank vessels	33 CFR 164.37(b)
<input type="checkbox"/>	76. Examine accommodations	ILO-147 p33/1-3 & 13 ILO-147 p34/12 ILO-147 p38/27
<input type="checkbox"/>	77. Examine hospital space	COMDTINST 16711.12A 7(1)(e)
<input type="checkbox"/>	78. Examine galley	ILO-147 p31/1(b) COMDTINST 16711.12A 7(1)(f)
<input type="checkbox"/>	79. Examine refrigerator and dry food stores	ILO-147 p30/2 COMDTINST 16711.12A 7(1)(f)
<input type="checkbox"/>	80. Examine sanitation areas	ILO-147 p36/18-20 COMDTINST 16711.12A 7(1)(d)
<input type="checkbox"/>	81. Examine vessel for general safety items	ILO-147 p45/3(b) COMDTINST 16711.12A 7(1)©
<input type="checkbox"/>	82. Examine means of escape	SOLAS 14 II-2/13.1 SOLAS 14 II-2/13.3.3
<input type="checkbox"/>	83. Avoid inadvertent entry into a confined space	29 CFR 1915, Part B MSM I/10
<input type="checkbox"/>	84. Examine life jackets	SOLAS 14 III/7.2.1.1 SOLAS 14 III/7.2.1.2
<input type="checkbox"/>	85. Examine immersion suits and stowage (when applicable)	SOLAS 14 III/7.3
<input type="checkbox"/>	86. Examine line throwing appliance	SOLAS 14 III/32.2 & .3 SOLAS 14 III/18 LSA Code 7.1.1.2
<input type="checkbox"/>	87. Examine pyrotechnics	SOLAS 14 III/6.3
<input type="checkbox"/>	88. Examine quick-release life buoys	SOLAS 14 III/7.1.3
<input type="checkbox"/>	89. Examine life buoys	SOLAS 14 III/4 LSA Code 2.1.1
<input type="checkbox"/>	90. Examine lifeboat	SOLAS 14 III/31.1 SOLAS 14 III/31.2 SOLAS 14 III/31.1.7 LSA Code 4.9
<input type="checkbox"/>	91. Examine muster and embarkation stations	SOLAS 14 III/11.2 & .3 SOLAS 14 III/11.6
<input type="checkbox"/>	92. Examine inflatable liferafts and installations	SOLAS 14 III/4
<input type="checkbox"/>	93. Examine rescue boat	SOLAS 14 III/31.2 LSA Code 5.1.1.1
<input type="checkbox"/>	94. Examine boat davits (rescue & lifeboat)	SOLAS 14 III/20.2 & .4 LSA Code Chapter 8
<input type="checkbox"/>	95. Examine general emergency systems	SOLAS 14 III/6.4.2 LSA Code 7.2.1.1

Requires Corrective Measures Prior to Cargo, Bunkering or Lightering Operations

(NO DETENTION)

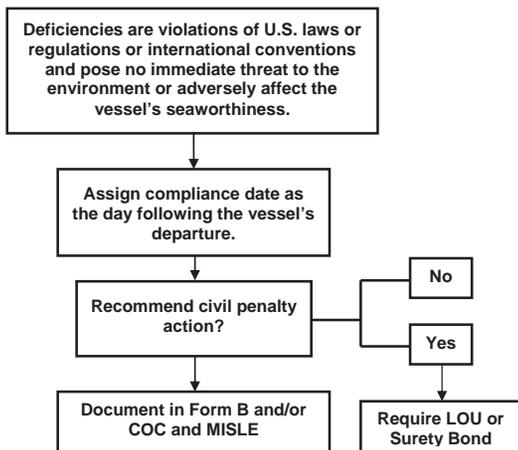


Examples include the following:

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

Requires Corrective Measures Prior to Return to U.S. Waters

(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.)

<input type="checkbox"/>	96. Examine fire hose stations	SOLAS 14 II-2/10.2.3.1.1 SOLAS 14 II-2/10.3.1.2
<input type="checkbox"/>	97. Examine international shore connection	SOLAS 14 II-2/15.2.4.1
<input type="checkbox"/>	98. Examine fire-fighter's outfits	SOLAS 14 II-2/15.2.4.1
<input type="checkbox"/>	99. Examine additional personal fire fighting equipment	SOLAS 14 II-2/10.10.2.3 FSS Code 3.2.1
<input type="checkbox"/>	100. Examine portable fire extinguishers	SOLAS 14 II-2/15.2.4.1 MSM II/D.1.G.1.o(6)(a) SOLAS 14 II-2/15.2.4.1
<input type="checkbox"/>	101. Examine Fire Control Plan	
<input type="checkbox"/>	102. Examine areas for compliance with Structural Fire Protection (SFP) requirements	SOLAS 14 II-2/9.2.3 SOLAS 14 II-2/15.2.4.1
<input type="checkbox"/>	103. Examine fixed fire detection and alarm systems	SOLAS 14 II-2/7.4 & .5 SOLAS 14 II-2/14.2.1.1.2
<input type="checkbox"/>	104. Examine fire main system(s)	SOLAS 14 II-2/10.2.2.2
<input type="checkbox"/>	105. Examine the fixed pressure water-spraying and water mist fire extinguishing systems	SOLAS 14 II-2/10.4.1.1.3 SOLAS 14 II-2/10.4.4
<input type="checkbox"/>	106. Examine fixed high pressure CO2 system	SOLAS 14 II-2/10.4.1.1.1 MSM II/D.1.G.1.o(6)(a)
<input type="checkbox"/>	107. Examine low pressure CO2 fixed fire fighting system	SOLAS 14 II-2/10.4.1.1.1 MSM II/D.1.G.1.o(6)(a)
<input type="checkbox"/>	108. Examine fixed high-expansion foam fire extinguishing system	SOLAS 14 II-2/10.4.1.1.2 MSM II/D.1.G.1.o(6)(a)
<input type="checkbox"/>	109. Examine fixed fire-extinguishing system(s) for cargo pump rooms	SOLAS 14 II-2/10.9.1
<input type="checkbox"/>	110. Examine fixed deck foam system	SOLAS 14 II-2/10.8 FSS Code 14.2.1.1
<input type="checkbox"/>	111. Examine steering gear assembly and operation	SOLAS 14 II-1/29.1-3
<input type="checkbox"/>	112. Examine arrangements for propulsion engine(s)	SOLAS 14 II-1/26.1
<input type="checkbox"/>	113. Examine main service generators and prime mover(s)	SOLAS 14 II-1/26.1
<input type="checkbox"/>	114. Examine emergency generator(s) and prime mover(s)	SOLAS 14 II-1/26.1 SOLAS 14 II-1/44.3
<input type="checkbox"/>	115. Examine components installed in designated hazardous locations	SOLAS 14 II-1/45.11 IEC 60092-502
<input type="checkbox"/>	116. Examine machinery spaces	MSM II/D.1.G.1.c(2) IMO Res A.1052(27) Appendix 6/3.2
<input type="checkbox"/>	117. Examine transfer procedures (when applicable)	33 CFR 155.100 33 CFR 155.720
<input type="checkbox"/>	118. Examine bilge pumps installation, piping, and valves	SOLAS 14 II-1/35-1.2
<input type="checkbox"/>	119. Examine switchboards	SOLAS 14 II-1/40.1.3 SOLAS 14 II-1/45.2
<input type="checkbox"/>	120. Examine motor controllers	SOLAS 14 II-1/40

<input type="checkbox"/>	121. Examine controls and alarms for unattended machinery spaces (when applicable)	SOLAS 14 II-1/46.3
<input type="checkbox"/>	122. Examine general condition hull and structural members	ICLL 66 I/12-25 MSM II/D.1.G.1.b(1)
<input type="checkbox"/>	123. Examine structural/watertight integrity of the deck/hull	SOLAS 14 II-1/13-1.1 ICLL 66 I/12
<input type="checkbox"/>	124. Examine watertight doors and weathertight openings	SOLAS 14 II-1/15-1 SOLAS 14 II-1/16-1
<input type="checkbox"/>	125. Examine Oily Water Separator (OWS) and bilge monitor/alarm (OCM)	MARPOL I/14 G-PCV Policy Ltr 06-01
<input type="checkbox"/>	126. Examine Marine Sanitation Device (MSD)	33 CFR 159.7 MARPOL IV/9
<input type="checkbox"/>	127. Examine incinerator	MARPOL Annex VI/16.6.1 IMO Res MEPC.76(40)
<input type="checkbox"/>	128. Examine standard discharge connection	33 CFR 155.430 MARPOL I/13
<input type="checkbox"/>	129. Examine containment on deck	33 CFR 155.310(a) 33 CFR 156.120(n)
<input type="checkbox"/>	130. Examine paint lockers	46 CFR 147.45
<input type="checkbox"/>	131. Examine storage of oxygen and acetylene cylinders	46 CFR 147.60(b)(1)
<input type="checkbox"/>	132. Examine access to bow and emergency towing arrangements	SOLAS 14 II-1/3-3.2 ICLL 25(4) & 26(2)
<input type="checkbox"/>	133. Examine cargo tank venting arrangements	SOLAS 14 II-2/4.5.3
<input type="checkbox"/>	134. Examine cargo pump room	MSM I/10 App. A
<input type="checkbox"/>	135. Examine designated observation area	33 CFR 157.13 33 CFR 157.13(a)
<input type="checkbox"/>	136. Examine liquid cargo transfer systems	33 CFR 155.800
<input type="checkbox"/>	137. Examine Vapor Control System (VCS)	46 CFR 39.2001(d)
<input type="checkbox"/>	138. Examine tank liquid high level and overflow protection	46 CFR 39.2007(a) SOLAS 14 II-2/11.6.3.1
<input type="checkbox"/>	139. Examine fixed/portable vapor detection instruments	SOLAS 14 II-2/4.5.7.1 SOLAS 14 II-2/4.5.7.2.1
<input type="checkbox"/>	140. Examine Inert Gas System (IGS)	SOLAS 14 II-2/4.5.5.1.1 SOLAS 14 II-2/4.5.5.1.2
<input type="checkbox"/>	141. Witness tests of Inert Gas System (IGS) audible and visual alarms and shutdowns	FSS Code 15.2.3.2.2.3 FSS Code 15.2.2.2.2
<input type="checkbox"/>	142. Examine oil discharge monitoring and control system (ODME)	33 CFR 157.12(a) & 157.12(b) MARPOL I/31.1
<input type="checkbox"/>	143. Examine crude oil washing (COW) system	MARPOL I/33.1 MARPOL I/33.3
<input type="checkbox"/>	144. Evaluate fire drill	SOLAS 14 III/19.3.2 SOLAS 14 III/19.5
<input type="checkbox"/>	145. Evaluate abandon ship drill	SOLAS 14 III/19.3.4.1 MSM II/D.1.G.1.r(1)
<input type="checkbox"/>	146. Verify International Safety Management (ISM) compliance	IMO Res A.1052(27) 2.4 MSM II/D.1.G.2

Nonconforming Vessel: Any vessel that fails to comply with one or more applicable requirements of U.S. laws or international conventions. A non-conforming ship is not necessarily a substandard ship, unless the discrepancies endanger the ship, persons on board or present an unreasonable risk to the environment.

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

- The absence of required principal equipment or its arrangement;
- Gross noncompliance of equipment or equipment 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 the presence of any of these factors could endanger the ship, persons on board or present an unreasonable risk to the environment, the vessel is a substandard vessel.

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

Section 5: Appendices

Recommended Port State Control Procedures:

The following flowcharts contain information gleaned from the Marine Safety Manual Volume II, Section D, Chapter 1: General Aspects of Port State Control Examinations. The port state control officer should be familiar with this section as well as the information pertaining to Procedures Applicable to Foreign Tank Vessels in Section D, Chapter 6.

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 ship, its equipment or its 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 ships 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 within port state control jurisdiction (U.S. waters \leq 12NM) 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 in order to bring a foreign flag vessel into compliance with applicable international convention standards. Interventions may also be undertaken by a port state when a vessel's flag state has not, cannot or will not exercise its obligations under an international convention to which it is a party. This may include requesting information, requiring the immediate or future rectification of deficiencies, detaining the vessel or allowing the vessel to proceed to another port for repairs.

- | | | |
|--------------------------|--|--|
| <input type="checkbox"/> | 147. Issue deficiency(s) | MSM II/D.1.C.8 |
| <input type="checkbox"/> | 148. Issue control action(s) | MSM II/D.2.C |
| <input type="checkbox"/> | 149. Issue or endorse vessel's Certificate of Compliance | 46 USC 3711
46 CFR 2.01-6(a)(4) |
| <input type="checkbox"/> | 150. Verify deficiency corrections | MSM II/D.1.G.3.f
CG-5437A/B |
| <input type="checkbox"/> | 151. Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity | MSM I/12.H
MISLE Work Instruction 3.b |

