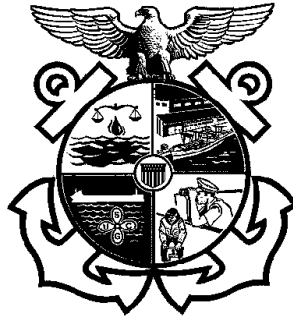


United States Coast Guard



***PORT STATE CONTROL
"PSC A" Job Aid***

Name of Vessel	Flag <input type="checkbox"/> No Change
IMO Number	MISLE Activity Number
Date	Exam Type
Location	
Vessel Built in Compliance with SOLAS: 60 74 74/78 NA	
Port State Control Officer & Examiners (List PSCO first)	
1. _____	5. _____
2. _____	
3. _____	
4. _____	

Use of Port State Control Job Aid:

This book is intended to be used by Coast Guard Port State Control (PSC) examiners during foreign-flagged vessel exams. It contains the items that should be examined during a PSC A exam. The PSCO may expand the scope of any exam when there are clear grounds for believing that the condition of the vessel or its equipment does not correspond substantially with the particulars of the certificates.

The PSC A exam scope was developed to perform the Coast Guard's most detailed exam onboard vessels that pose the highest risk to the port. These include vessels coming to the U.S for the first time, vessels that score PSC A in the targeting matrix, and vessels where actionable intelligence may exist.

This job aid cites regulations from 74 SOLAS (20), MARPOL, STCW and other conventions and codes. In some cases, the regulations in 74 SOLAS (20) may not apply due to the keel laid date of the vessel. PSC personnel must pay close attention to the applicability dates & verify the correct cites prior to recording deficiencies. USCG policies, such as MSM II, are also provided as references. These should never be cited when recording a deficiency on the Form B.

Duty to record deficiencies. All deficiencies identified by the PSCO during the PSC exam should be recorded on the CG-5437B (Form B) and in the activity inspection results. This includes deficiencies corrected prior to the PSCO's departure (i.e. 10c).

This document does not establish or change laws or regulations. References given are only general guides. Refer to IMO publications, CFR's, TTP, NVICs, and any locally produced guides for specific regulatory references. Prior to the exam, PSCOs should identify the vessel type (e.g. freight, tank), consider potential hazards, such as cargo or confined spaces, and consult the relevant training aid for tasks related to the cargo system.

Summary of Updates:

- This page: Added "Duty to record deficiencies."
- Revised Section 5: Enhanced Exam Subject for CY21, 3Q.

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Adobe Printing Instructions: Page Sizing & Handling Block>Booklet
Booklet Subset: Both sides; Binding: Left

References:

The following non-inclusive list of references may guide a PSC exam:

- Procedures for Port State Control, IMO Resolution A.1138(31)
- [Marine Safety Manual \(MSM\) Volume II, COMDTINST M16000.7B](#)
- [Port State Control Examiner TTP, CGTTP 3-72.12\(series\)](#)
- Vessel class-specific TTP, training aids & policy

Additionally, the following Conventions, Codes, and regulations apply, and may be cited for applicable deficiencies found during the exam:

- 74 SOLAS (20) *
- International Convention for the Prevention of Pollution from Ships, 1973, Consolidated Edition 2017 (MARPOL)
- International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 2017 edition (STCW)
- International Convention on Load Lines, 2005 Edition (ICLL)
- International Convention on Tonnage Measurement (ICTM)
- Antifouling Systems Convention (AFS)
- International Safety Management Code, 2018 Edition (ISM)
- Life Saving Appliances Code, 2017 Edition (LSA)
- Fire Systems Safety Code, 2015 Edition (FSS)
- International Ship and Port Facility Security Code, 2012 Edition (ISPS)
- 33 Code of Federal Regulations (CFR)
- 46 United States Code (USC)

* Depending on applicability, see earlier SOLAS editions if needed.

Section 1: General Examination

Dockside Assessment

- 1. Examine anchor(s) and chain
 - Verify condition of anchor(s) ILO-147 p48/3(g)
MSM II/E.2.6.b
 - Verify condition of visible anchor chain ILO-147 p48/3(g)
MSM II/E.2.6.b

- 2. Examine hull for required markings
 - Verify Load Line is permanently marked ICLL 5-9
 - Verify presence of deck line ICLL 4
 - Verify IMO number SOLAS 20 XI-1/3
 - Verify draught marks SOLAS 20 II-1/5.6

- 3. Examine material condition of hull
 - Evaluate hull for signs of pollution/illegal discharge 33 USC 1321
MARPOL I/15
 - Evaluate hull strength and integrity SOLAS 20 II-1/3-1
ICLL I/1

- 4. Examine access ladders and sideshell openings
 - Examine means of embarkation (gangway/ladders) SOLAS 20 II-1/3-9
 - Examine cargo ports and other similar openings ICLL 21
 - Examine sidescuttles (windows/skylights) ICLL 23
 - Examine pilot transfer arrangements SOLAS 20 V/23

- 5. Examine hull, anchors and anchor chain for biofouling & sediment
 - Verify hull/anchor is free of organisms and sediment 33 CFR 151.2050(e)(f)
MSM II/D.1.G.1.t
 - Evaluate condition of hull anti-fouling coating AFS Convention
MSM II/D.1.G.1.t

- 6. Examine mooring system/equipment
 - Examine configuration of mooring lines arrangements 33 CFR 164.19
MSM II/E.2.H.6.b
 - Verify condition of mooring lines SOLAS 20 II-1/3-8
MSM II/E.2.H.6.b

Security Examination

- 7. Examine security procedures at vessel access point(s)
 - Verify all access points are monitored ISPS A/7.2.2
33 CFR 104.265(a)
 - Observe gangway watch control of embarkation of persons and effects ISPS A/7.2.3
33 CFR 104.265(a)
 - Verify security communications ISPS A/7.2.7
33 CFR 104.245
 - Verify security level ISPS A/7.1
33 CFR 104.240

 - Verify gangway watch is familiar with their responsibilities as per security plan ISPS A/13.2
ISPS A/13.3
 - Verify signage 33 CFR 104.265(f)(3)

- 8. Verify security training & records
 - Verify presence of trained and designated Ship Security Officer SOLAS 20 XI-2/4.2
33 CFR 104.215 & 104.220

 - Examine Declaration of Security ISPS A/5.2 & 5.7
33 CFR 104.255 & 235(b)(7)
 - Verify approved and valid Ship Security Plan ISPS A/9.1, 9.4 & 9.8
33 CFR 104.400(c)

 - Examine security drill records ISPS A/10.1.1 & 13.4
33 CFR 104.235(b)(2)

 - Examine records of crew training ISPS A/13.3
33 CFR 104.235(b)(1)

Certificates & Documents

Examine the following certificates, verifying validity and notations of particulars and equipment. ****NOTE: These certificates shall be examined during a PSC A exam, however the only documents required to have fields input into MISLE are denoted with an *.**

- 9. Certificate of Registry SOLAS 20 I/13, 46 USC 3303
- 10. Classification Society Certificate SOLAS 20 I/6(a)
- 11. International Tonnage Certificate (ITC) ICTM 69 Articles 7, 9 & 10
- 12. * International Load Line Certificate (ILLC) ICLL Articles 15, 16, 18 & 19
 - Verify Load Line observed on hull matches certificate ICLL 9
- 13. * Cargo Ship Safety Construction Certificate (CSSCC)
SOLAS 20 I/12(a)(ii), I/16, I/10, I/14 & I/15
- 14. * Cargo Ship Safety Equipment Certificate (CSSEC) and Record of Equipment (Form-E)
SOLAS 20 I/12(a)(iii), I/16, I/8, I/14, I/15
- 15. Cargo Ship Safety Radio Certificate (CSSRC) and Record of Equipment (Form-R)
SOLAS 20 I/12(a)(iv), I/16, I/9, I/14 & I/15
- 16. *Cargo Ship Safety Certificate (CSSC) and Record of Equipment (Form-C)
SOLAS 20 I/12(a)(v), I/16, I/8-10, I/14 & I/15
- 17. Copy of Document of Compliance (ISM-DOC)
SOLAS 20 IX/4.2, IX/5;
ISM Code 13.2-5, Code 16
- 18. *Safety Management Certificate (ISM-SMC)
SOLAS 20 IX/4.3;
ISM Code 13.7, 13.51, 16

- 19. Minimum Safe Manning Document
 - Verify manning in accordance with document SOLAS 20 V/14.1, V/14.2;

- 20. Crew Certificates of Competency and Proficiency IAW Safe Manning Document
 - Verify presence of original document(s) STCW I/2.
 - Verify Certificate of Proficiency STCW VI/1.2
 - Verify GMDSS operator certificate is valid SOLAS 20 IV/16
STCW II/1.2.4
 - Verify required number of Lifeboatmen SOLAS 20 III/10
STCW VI/2 1.1-3
 - Verify crew complies with rest period requirements STCW VIII/I
MSM II/D.1.G.1.j(1)(c)
 - Medical certificates STCW I/9

- 21. * Continuous Synopsis Record (CSR) **NOTE: A copy should be uploaded into vessel certificates in MISLE.**
 - Verify continuous history from 1 July 2004 SOLAS 20 XI-1/5.2.2
SOLAS 20 XI-1/5.6
 - Verify details SOLAS 20 XI-1/5.3
SOLAS 20 XI-1/5.4.1-4.3

- 22. * International Ship Security Certificate (ISSC)
 - SOLAS 20 XI-2/4.2,
ISPS Code A/19.2

- 23. * International Oil Pollution Prevention Certificate (IOPP) and Record of Construction and Equipment (Form-A)
 - MARPOL I/7, 8, 9 & 10

- 24. * International Air Pollution Prevention Certificate (IAPP) and Supplement
 - MARPOL VI/6, 8, 9
CG-543 Policy Ltr 09-01

- 25. Engine International Air Pollution Prevention (EIAPP) Certificate(s)
 - MARPOL VI/13.8
NOx Code 2.1.1, 2.2.10

- 26. Verify compliance with the Vessel General Permit (VGP)
 - Verify Notice of Intent (NOI) has been submitted VGP 1.5.1.1 & 10
VGP Table 1
 - Verify ballast water records VGP 4.3
CG-543 Policy Ltr 11-01
 - Verify noncompliance & reportable quantity reports have been submitted VGP 4.4.1
VGP 4.4.2

- 27. Muster lists and emergency instructions
 - Verify accurate muster lists and emergency instructions posted SOLAS 20 III/8, 37

- 28. Ballast water management documents
 - Verify compliance date 33 CFR 151.2035(b)
 - Verify type approval certificate if fitted with USCG type approved BWMS 46 CFR 162.060-10
 - Verify AMS Acceptance Letter, if fitted with accepted AMS BWMS 33 CFR 151.2025(a)(3)
 - Verify Ballast Water Management Plan 33 CFR 151.2050(g)
NVIC 18-01
 - Verify NBIC report consistent with onboard records 33 CFR 151.2060 & 2070

- 29. Long-Range Identification & Tracking (LRIT) conformance test report
SOLAS 20 V/19-1.5
IMO MSC.1/Circ. 1307

- 30. Ship Energy Efficiency Management Plan (SEEMP)
MARPOL VI/22
CG-CVC Policy Ltr 13-02

- 31. International Energy Efficiency Certificate (IEEC)
MARPOL VI/6, 8, 9
CG-CVC Policy Ltr 13-02

- 32. Energy Efficiency Design Index (EEDI)
 - Verify presence of Ship Energy Efficiency Management Plan MARPOL VI/8,9,20 & 22

- 33. International Anti-fouling System Certificate (AFS)

AFS 2, 4
MSM II/D.1.G.t

Logs & Manuals

** Per MEPC.312(74) "Guidelines for the use of electronic record books under MARPOL", Electronic Record Books may be used if acceptable to the administration.

- 34. Examine Oil Record Book Part I (ORB)**

- Verify proper entries MARPOL I/17.2-.5
33 CFR 151.25
- Verify completed ORBs MARPOL I/17.6
33 CFR 151.25

- 35. Examine Shipboard Oil Pollution Emergency Plan (SOPEP)

MARPOL I/37

- 36. Examine Non-Tank Vessel Response Plan (NTVRP)

33 CFR 155.5030
33 USC 1321

- 37. Verify transfer personnel, procedures, equipment and records

- Verify designation of Person in Charge (PIC) 33 CFR 155.700
33 CFR 155.710(e)(4)
- Verify current & retained Declaration(s) of Inspection (DOI) 33 CFR 156.150
- Verify bunker line annual hydrostatic test 33 CFR 156.170(f)(3)
- Verify transfer procedures 33 CFR 155.720

- 38. Examine Garbage Management Plan

- Verify contents MARPOL V/10.2

- 39. Examine Garbage Record Book**

- Verify entries MARPOL V/10.3
33 CFR 151.55
- Verify receipts MARPOL V/10.3

- 40. Examine training manuals
 - Verify contents of firefighting training manual SOLAS 20 II-2/15.2.3.2
SOLAS 20 II-2/15.2.3.3
 - Verify contents of lifesaving training manual SOLAS 20 III/35.3
SOLAS 20 III/35.4

- 41. Examine records of emergency training and drills
 - Verify crew members participated in abandonment and fire drills SOLAS 20 III/19.3.2
SOLAS 20 III/19.5
 - Verify drill includes operating davits used for launching liferafts SOLAS 20 III/19.3.4.1.7
 - Verify different lifeboat(s) are used for each drill SOLAS 20 III/19.3.4.2
 - Verify lifeboats and rescue boats are launched and operated SOLAS 20 III/19.3.4.3
SOLAS 20 III/19.3.4.6
 - Examine training records for davit-launched liferaft SOLAS 20 III/19.4.3
 - Verify records of enclosed space entry and rescue drills SOLAS 20 III/19.3.3
SOLAS 20 III/19.3.6

- 42. Examine liferaft maintenance records and service logs/reports
 - Examine log for inspections and maintenance SOLAS 20 III/36.7
SOLAS 20 III/20.6
 - Examine annual reports SOLAS 20 III/20.8.1
 - Verify periodic examination of launching appliances and release gear SOLAS 20 III/20.11
 - Verify maintenance of falls SOLAS 20 III/20.4

- 43. Examine fire detection system maintenance and service logs/reports
 - Examine record of inspection, maintenance and servicing SOLAS 20 II-2/14.2.2
IMO MSC.1/Circ. 1516

- 44. Examine Logbook entries
 - Verify pre-arrival/departure checks SOLAS 20 V/26
33 CFR 164.25
 - Verify records of drills & training SOLAS 20 III/19.5
 - Verify EPIRB test(s) SOLAS 20 IV/15.9
 - Verify sanitary inspections ILO-147 p39/35
 - Verify marine casualty entries SOLAS 20 I/11(c)

- 45. Examine fire fighting equipment maintenance and service logs/reports
 - Examine record of inspection, maintenance and servicing IAW manufacturer's instructions SOLAS 20 II-2/14.2.2
IMO MSC.1/Circ. 1516

- 46. Examine lifeboat maintenance records and service logs/reports
 - Examine record of inspection and maintenance SOLAS 20 III/36.7
 - Verify weekly inspection and test SOLAS 20 III/20.6
 - Verify monthly inspection SOLAS 20 III/20.7
 - Verify annual inspection, tests, and overhaul of launching appliance(s) and release gear(s) SOLAS 20 III/20.11
 - Verify release hook meets IMO regulations SOLAS 20 III/1.5
LSA Code 4.4.7.6.4
 - Verify each lifeboat launched and maneuvered quarterly SOLAS 20 III/19.3.4.3
SOLAS 20 III/19.3.4.4

SMS Emergency Procedures & Cyber

The following questions apply until December 31, 2021. CVC-WI-027 provides additional details.

- 1. Has the company completed a DOC audit after January 1, 2021? If so, have risk control processes, measures, and contingencies been implemented onboard to protect against a cyber-event and ensure continuity of shipping operations in accordance with the guidelines in reference (e)?
- 2. Are there procedures to monitor service technicians, cargo stevedores, and other visitors' interactions with vital electronic equipment on board the vessel?
- 3. Has the vessel implemented measures to address cyber hygiene?

Document in the activity narrative as follows:

Verified SMS Emergency Procedures and Cyber Hygiene. Vessel was found in substantial compliance. - OPTIONAL – Vessel's company has not received annual DOC audit at time of exam. OR

Verified SMS Emergency Procedures and Cyber Hygiene. Vessel was not found to be in substantial compliance. Issued a deficiency recommending an internal SMS audit within 30 days.

Section 2: Hull Examination

Bridge & Navigation

- 47. Examine charts and publications (when applicable)
 - Verify presence of current, applicable and corrected charts and/or Electronic Chart Display & Information System (ECDIS) SOLAS 20 V/19.2.1.4
33 CFR 164.33
 - Verify presence of current and applicable Tide Tables SOLAS 20 V/27
33 CFR 164.33
 - Verify presence of current and applicable Coast Guard Light List 33 CFR 164.33
 - Verify presence of current and applicable Tidal Current Tables SOLAS 20 V/27
33 CFR 164.33
 - Verify presence of Inland Navigation Rules 33 CFR 83.01(g)
 - Verify presence of COLREGs COLREG A/1
 - Verify presence of current and applicable U.S. Coast Pilot SOLAS 20 V/27
33 CFR 164.33
 - Verify presence of International Code of Signals SOLAS 20 V/21.1
 - Verify presence and contents of maneuvering fact sheet 33 CFR 164.35(g)
 - Verify presence of International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual, Vol III SOLAS 20 V/21.2

- 48. Examine echo-sounding device
 - Verify presence of echo-sounding device or other electronic means SOLAS 20 V/19.2.3.1
33 CFR 164.35(h)
 - Verify continuous recording of depth readings 33 CFR 164.35(i)

- 49. Examine electronic position fixing device
 - Verify operation SOLAS 20 V/19.2.1.6
33 CFR 164.41

- 50. Examine bridge navigation/propulsion indicators
 - Verify operation of illuminated rudder angle indicators at conning positions SOLAS 20 V/19.2.5.4
33 CFR 164.35(f)
 - Verify visibility of RPM indicator from centerline conning position SOLAS 20 V/19.2.5.4
33 CFR 164.35(l)
 - Verify visibility of propeller pitch from centerline conning position SOLAS 20 V/19.2.5.4
33 CFR 164.35(m)
 - Verify visibility of lateral thrust direction and force from centerline conning position SOLAS 20 V/19.2.5.4
33 CFR 164.35(n)
 - Verify presence of speed and distance indicators SOLAS 20 V/19.2.3.4
33 CFR 164.35(j)
 - Verify presence of bridge navigational watch alarm system (BNWAS) SOLAS 20 V/19.2.2.3

- 51. Examine radar(s) and Automatic Radar Plotting Aid (ARPA)
 - Witness operational test SOLAS 20 V/19.2.3.2
SOLAS 20 V/19.2.7.1
 - Verify independent operation 33 CFR 164.37(a)
 - Witness operational test of ARPA 33 CFR 164.38(b)
33 CFR 164.38 Appendix A

- 52. Examine compasses
 - Verify presence of illuminated magnetic compass SOLAS 20 V/19.2.1.1
33 CFR 164.35(b)
 - Verify consistent readings of gyrocompass and illuminated repeater(s) SOLAS 20 V/19.2.5.1 & .2
33 CFR 164.35(d) & (e)
 - Verify presence of deviation table 33 CFR 164.35(c)
 - Verify presence of spare magnetic compass SOLAS 20 V/19.2.2.1

- 53. Witness operational test of steering gear
 - Witness operational test of steering gear controls SOLAS 20 II-1/29.7
SOLAS 20 II-1/29.8
 - Verify rudder angle indicator is accurate and consistent with local indicator SOLAS 20 II-1/29.11.1
MSM II/D.1.G.1.d(9)
 - Verify operation of loss of power alarm SOLAS 20 II-1/29.8.4

- Verify presence of steering gear instructions SOLAS 20 V/26.3.1
33 CFR 164.35(k)

54. Examine Voyage Data Recorder (VDR)

- Verify presence of VDR or simplified VDR (S-VDR) SOLAS 20 V/20
MSC.333(90)
- Examine Certificate of Compliance SOLAS 20 V/18.8

55. Examine Automatic Identification System (AIS)

- Witness operation SOLAS 20 V/19.2.4
IMO Res A.1106(29)
33 CFR 164.46

56. Examine radiotelephone (VHF)

- Verify installation SOLAS 20 IV/7.1
33 CFR 26.03
- Verify digital selective calling (DSC) capability SOLAS 20 IV/7.2
- Witness operation SOLAS 20 IV/7.1
MSM II/D.1.G.1.d(5)
- Verify adequate independent illumination SOLAS 20 IV/6.2.4
- Verify radio is clearly marked with call sign, ship station identity and other codes as applicable SOLAS 20 IV/6.2.5
- Verify operation of lifeboat radios SOLAS 20 III/6.2.1

57. Examine Global Maritime Distress and Safety System (GMDSS) equipment

- Verify appropriate equipment for assigned sea area(s) SOLAS 20 IV/8-11
IMO Res A.694(17)
- Examine radio records SOLAS 20 IV/17
- Verify emergency source of power SOLAS 20 IV/13
- Verify stowage of Search and Rescue Transponder(s) (SART) SOLAS 20 IV/7.1.3
SOLAS 20 III/6.2.2
- Verify operation of NAVTEX SOLAS 20 IV/7.1.4
- Verify operation of INMARSAT ship earth station SOLAS 20 IV/7.1.5
IMO Res A.701(17)
- Verify installation of 406MHz EPIRB SOLAS 20 IV/7.1.6

- 58. Examine Long-Range Identification & Tracking (LRIT) equipment
 - Verify operation SOLAS 20 V/19-1 .4.1 & .5
33 CFR 169.210
CG-CVC-2 Guidance
- 59. Examine daylight signaling lamp
 - Verify operation SOLAS 20 V/19.2.2.2
 - Verify independent source of power SOLAS 20 V/19.2.2.2
- 60. Examine internal means of communication
 - Witness communication with control room SOLAS 20 II-1/37
 - Witness communication with steering gear compartment SOLAS 20 II-1/29.10
33 CFR 164.35(o)

Health & Safety

Per COMDTINST 16711.12A, ILO-147 Cites must be accompanied by an enforceable U.S. statute. The current statute is 46 U.S.C. 70002. As the U.S. is not signatory to the Maritime Labour Convention (MLC), the USCG will only enforce the applicable provisions of ILO-147 (which is incorporated in the MLC), citing both ILO-147 and **46 U.S.C. 70002**.

- 61. Examine vessel for general safety items
 - Verify safe access to all spaces ILO-147 p45/3(b)
 - Verify spaces adequately lit ILO-147 p44/3(a)
 - Verify no electrical hazards SOLAS 20 I-1/40
SOLAS 20 II-1/45
 - Verify warning notices posted as necessary ILO-147 p44/3(a)
- 62. Examine means of escape
 - Verify means of escape and confirm access SOLAS 20 II-2/13.1
SOLAS 20 II-2/13.3.3
 - Verify emergency lighting SOLAS 20 II-1/43.2.2
 - Verify route(s) is marked and illuminated SOLAS 20 II-2/13.3
 - Verify machinery space escape ladders SOLAS 20 II-2/13.4.2

SOLAS 20 II-2/13.3.4

SOLAS 20 II-2/13.4.3

FSS Code 3.2.2

- Verify Emergency Escape Breathing Device (EEBD) locations & condition

63. Examine accommodations
- Verify berth arrangement and size ILO-147 p33/1-3 & 13
ILO-147 p34/12
 - Verify means of escape SOLAS 20 II-2/13.3.3.1
 - Verify adequate lighting and ventilation ILO-147 p33/4-6
 - Verify housekeeping practices ILO-147 p38/33
64. Examine hospital space
- Verify presence of a designated space ILO-147 p38/27
 - Verify space not used for stowage or berthing ILO-147 p38/31
 - Verify exclusive use of a water closet ILO-147 p38/30
 - Verify approved medicine chest ILO-147 p38/26
65. Examine galley
- Verify sanitary conditions ILO-147 p31/1(b)
 - Verify adequately equipped to prepare food ILO-147 p30/3
ILO-147 p35/14
 - Verify mess-room provided for crew ILO-147 p35/14
 - Verify condition of vents and ducts SOLAS 20 II-2/9.7.5.2
 - Verify installation of fixed fire-extinguishing means within ducts SOLAS 20 II-2/9.7.5.2.4
 - Verify deep-fat cooking equipment requirements SOLAS 20 II-2/10.6.4
 - Verify hot and cold water ILO-147 p37/21(c)
66. Examine refrigerator and dry food stores
- Verify adequate food for size of crew & intended voyage ILO-147 p30/2
 - Verify free of insects and/or rodents ILO-147 p39/1(b)
 - Verify operation of emergency escape alarm/device (refrigerators) ILO-147 p31/1(c)

- 67. Examine sanitation areas
 - Verify quantity of showers and toilets ILO-147 p36/18-20
 - Verify operation of toilets ILO-147 p37/21(f)
 - Verify hot and cold running water ILO-147 p37/21(c)
 - Verify lighting, heat and ventilation ILO-147 p37/21(b)
 - Assess for unsanitary or hazardous conditions ILO-147 p44/3(a)

Lifesaving Equipment

- 68. Examine lifejackets
 - Verify quantity SOLAS 20 III/7.2.1.1
SOLAS 20 III/7.2.1.2
 - Verify approvals LSA Code 2.2.1
LSA Code 2.2.2
 - Verify light SOLAS 20 III/32.2.2
SOLAS 20 III/32.2.3
 - Verify whistle LSA Code 2.2.1.14
 - Verify retro-reflective tape IMO Res A.658(16)
 - Verify stowage SOLAS 20 III/7.2.2
- 69. Examine immersion suits and stowage (when applicable)
 - Verify quantity SOLAS 20 III/7.3
SOLAS 20 III/32.2 & .3
 - Verify approvals LSA Code 2.3
LSA Code 2.4
 - Verify stowage SOLAS 20 III/32.3.4
- 70. Examine line throwing appliance
 - Verify quantity SOLAS 20 III/18
LSA Code 7.1.1.2
 - Verify instructions or diagrams LSA Code 7.1.1.4
 - Verify condition/expiration LSA Code Part 1/9.1 & 1/4.5.6
 - Verify stowage LSA Code 7.1.2
- 71. Examine distress flares
 - Verify quantity SOLAS 20 III/6.3
 - Verify stowage SOLAS 20 III/6.3
 - Verify condition/expiration LSA Code 3.1

- 72. Examine quick-release lifebuoys
 - Verify number and location SOLAS 20 III/7.1.3
 - Verify size/mass LSA Code 2.1.1.7
 - Verify presence of self-igniting lights SOLAS 20 III/7.1.3
LSA Code 2.1.2
 - Verify condition/expiration of self-activating smoke signals SOLAS 20 III/7.1.3
LSA Code 2.1.3

- 73. Examine lifebuoys
 - Verify type approval SOLAS 20 III/4
LSA Code 2.1.1
 - Verify quantity SOLAS 20 III/7.1.1.1
 - Verify stowage SOLAS 20 III/7.1.1.1
 - Verify markings SOLAS 20 III/7.1.4
 - Examine attachments and fittings SOLAS 20 III/7.1.2
SOLAS 20 III/7.1.3
 - Verify size/mass SOLAS 20 III/7.1.1

- 74. Examine general emergency systems
 - Verify alarm activation points SOLAS 20 III/6.4.2
LSA Code 7.2.1.1
 - Witness operational test of audible general alarm signals SOLAS 20 III/6.4.2 & .3
LSA Code 7.2.1.2 & .3
 - Verify connection to emergency power source SOLAS 20 II-1/43.2.4
 - Verify public address system is audible SOLAS 20 III/6.4.2
LSA Code 7.2.2
 - Verify general alarm system tests SOLAS 20 III/20.6.4

- 75. Examine muster and embarkation stations
 - Examine arrangements SOLAS 20 III/11.2 & .3
SOLAS 20 III/11.6
 - Verify embarkation ladders meet requirements SOLAS 20 III/11.7
LSA Code 6.1.6
 - Verify emergency lighting configuration and witness operation SOLAS 20 III/11.4
SOLAS 20 III/16.7
 - Verify emergency lighting tests during drills SOLAS 20 III/19.3.4.9

- 76. Examine inflatable liferafts and installations
 - Verify liferaft capacity requirements SOLAS 20 III/31.2
LSA Code 4.2
 - Verify stowage SOLAS 20 III/13.4.1-4.4
SOLAS 20 III/13.5-.6
 - Evaluate launching arrangements SOLAS 20 III/12
SOLAS 20 III/16
 - Verify markings LSA Code 4.2.6.3
 - Verify condition SOLAS 20 III/20.2
MSM II/D.1.G.1.o(5)
 - Verify annual service dates SOLAS 20 III/20.8.1
 - Verify type approval SOLAS 20 III/4

- 77. Examine lifeboat
 - Verify required number SOLAS 20 III/31.1
SOLAS 20 III/31.2
 - Verify stowage SOLAS 20 III/11.1
SOLAS 20 III/13 & 14
 - Verify markings LSA Code 4.4.9
LSA Code 4.4.1.2
 - Verify condition SOLAS 20 III/20.2
MSM II/D.1.G.1.o(5)
 - Verify presence of required equipment LSA Code 4.4.8
LSA Code 4.4.4.7.5
 - Examine release gear(s) SOLAS 20 III/16.4
LSA Code 4.7.6
 - Verify instructions inside for release gear SOLAS 20 III/9
 - Witness operational test of engine SOLAS 20 III/19.3.4.1.6
SOLAS 20 III/20.6.2
 - Witness operational test of steering LSA Code 4.4.7.2

- 78. Examine survival craft launching appliances
 - Examine condition of davit(s) and associated components SOLAS 20 III/20.2 & .4
LSA Code Chapter 8
 - Witness functional test of davit limit switch LSA Code 6.1.2.7
 - Witness operational test MSM II/D.1.G.1.r(1)(b)
 - Verify falls renewed at an interval of not more than 5 years SOLAS 20 III/20.4

79. Examine rescue boat
- Verify required number SOLAS 20 III/31.2
LSA Code 5.1.1.1
 - Verify embarkation and launching arrangement(s) SOLAS 20 III/17
SOLAS 20 III/11
 - Verify presence of equipment LSA Code 5.1.1.10
LSA Code 5.1.1.11
 - Verify stowage SOLAS 20 III/14
 - Witness operational test of engine SOLAS 20 III/19.3.4.6
SOLAS 20 III/20.6.2

Firefighting Systems

80. Examine fire hose stations
- Verify type, length and condition of hose SOLAS 20 II-2/10.2.3.1.1
SOLAS 20 II-2/10.3.1.2
 - Verify type and condition of nozzle SOLAS 20 II-2/10.2.3.3
SOLAS 20 II-2/10.2.3.1.2
 - Verify operational condition of hydrant valve SOLAS 20 II-2/14.2.1.2
MSM II/D.1.G.1.o.(6)(c)
 - Verify location(s) consistent with Fire Control Plan SOLAS 20 II-2/15.2.4.1
SOLAS 20 II-2/10.2.3.2.1
81. Examine international shore connection
- Verify storage location consistent with Fire Control Plan SOLAS 20 II-2/15.2.4.1
 - Verify presence of flange, bolts, washers and gasket FSS Code 2.2.2
MSM II/D.1.G.1.o.(6)(c)
82. Examine fire-fighter's outfits
- Verify storage location consistent with Fire Control Plan SOLAS 20 II-2/15.2.4.1
 - Verify quantity SOLAS 20 II-2/10.10.2.1
SOLAS 20 II-2/10.2.4
 - Verify condition of equipment FSS Code 3.2.1
 - Verify presence of spare air charges SOLAS 20 II-2/10.10.2.5

- 83. Examine portable fire extinguishers
 - Verify locations consistent with Fire Control Plan SOLAS 20 II-2/15.2.4.1
MSM II/D.1.G.1.o(6)(a)
 - Verify stowage SOLAS 20 II-2/10.3.2.4
SOLAS 20 II-2/10.3.2.2
 - Verify condition of extinguishers SOLAS 20 II-2/14.2.1.2
FSS Code 4.2
 - Verify presence of spare charges SOLAS 20 II-2/10.3.3

- 84. Examine Fire Control Plan
 - Verify currency of plan or booklets SOLAS 20 II-2/15.2.4.1
 - Verify plan or booklet is in required languages SOLAS 20 II-2/15.2.4.1
 - Verify content of plan or booklets SOLAS 20 II-2/15.2.4.1
MSM II/D.1.G.1.o(6)
 - Verify stowage of duplicate set of plan(s) SOLAS 20 II-2/15.2.4.2

- 85. Examine areas for compliance with Structural Fire Protection (SFP) requirements
 - Verify SFP boundaries with fire control plan SOLAS 20 II-2/9.2.3
SOLAS 20 II-2/15.2.4.1
 - Ensure no unapproved SFP modifications SOLAS 20 II-2/14.2.1.1.1
SOLAS 20 II-2/5.3
 - Evaluate fire door operation SOLAS 20 II-2/9.2.3.4.1
SOLAS 20 II-2/14.2.1.1
 - Verify electric cable/pipe penetrations are compatible with fire control boundaries SOLAS 20 II-2/9.3
 - Verify operational tests of ventilation system controls SOLAS 20 II-2/5.2
SOLAS 20 II-2/14.2.2.3.5

- 86. Examine fixed fire detection and alarm systems
 - Verify operation SOLAS 20 II-2/7.4 & .5
SOLAS 20 II-2/14.2.1.1.2
 - Verify power sources FSS Code 9.2.2
 - Verify operation of alarms FSS Code 9.2.5.1
 - Verify operation of manually operated call points SOLAS 20 II-2/7.7
SOLAS 20 II-2/14.2.1.1.2
 - Verify periodic testing SOLAS 20 II-2/7.3.2
SOLAS 20 II-2/14.2.2.3.2

- 87. Examine fire main system(s)
 - Verify number of pumps SOLAS 20 II-2/10.2.2.2
 - Verify location(s) SOLAS 20 II-2/10.2.2.3.2.1
 - Verify remote start operation SOLAS 20 II-2/10.2.1.2.2.2
 - Verify operation of emergency fire pump SOLAS 20 II-2/10.2.2.3.2
SOLAS 20 II-2/14.2.1.2
 - Verify pressure SOLAS 20 II-2/10.2.1.6
 - Verify relief valve installation SOLAS 20 II-2/10.2.1.4.3
 - Verify condition of fire main piping SOLAS 20 II-2/14.2.1.2

- 88. Examine fixed pressure water-spraying and water mist fire extinguishing systems
 - Verify system is arranged as indicated on fire control and/or general arrangement plan(s) SOLAS 20 II-2/10.4.1.1.3
SOLAS 20 II-2/10.4.4
 - Verify sprinkler pump arrangement for automatic activation SOLAS 20 II-2/14.2.1.2
FSS Code 8.2.3.3

- 89. Examine fixed high pressure CO2 system
 - Verify system is arranged as indicated in fire control and/or general arrangement plan SOLAS 20 II-2/10.4.1.1.1
MSM II/D.1.G.1.o(6)(a)
 - Verify control valves are arranged and marked FSS Code 5.2.1.3.1
FSS Code 5.2.2.2
 - Verify operating instructions at control stations FSS Code 5.2.1.3.3
 - Verify closures for protected space openings SOLAS 20 II-2/10.4.2
 - Verify storage room arrangements SOLAS 20 II-2/10.4.3
 - Verify condition/serviceability SOLAS 20 II-2/14.1
IMO MSC.1/Circ. 1318

- 90. Examine fixed high-expansion foam fire extinguishing system
 - Verify system is arranged as indicated in the fire control and/or general arrangement plan(s) SOLAS 20 II-2/10.4.1.1.2
MSM II/D.1.G.1.o(6)(a)
 - Verify quantity and performance of foam concentrates FSS Code 3.1 & 4.1
IMO MSC/Circ. 670

91. Examine low pressure CO2 fixed fire fighting system
- Verify system is arranged as indicated in fire control and/or general arrangement plan(s) SOLAS 20 II-2/10.4.1.1.1
MSM II/D.1.G.1.o(6)(a)
 - Verify control valves are arranged and marked FSS Code 5.2.1.3.1
FSS Code 5.2.2.2
 - Verify operating instructions at control stations FSS Code 5.2.1.3.3
 - Verify closures for protected space openings SOLAS 20 II-2/10.4.2
 - Verify storage room arrangements SOLAS 20 II-2/10.4.3
FSS Code 5.2.2.4.1
 - Verify condition/serviceability SOLAS 20 II-2/14.1
IMO MSC.1/Circ. 1318
 - Verify alarms and indicators FSS Code 5.2.2.4.3
FSS Code 5.2.2.4.11
 - Verify safety relief valves FSS Code 5.2.2.4.3
FSS Code 5.2.2.4.4

Structural & Watertight Integrity

92. Examine watertight doors and weathertight openings
- Ensure all external openings are watertight SOLAS 20 II-1/15-1
SOLAS 20 II-1/16-1
 - Verify down-flooding openings have weathertight closures ICLL I/19(4)
ICLL I/20
 - Evaluate condition of weathertight door(s) and hatches ICLL I/12(1)
ICLL I/16
 - Verify operation of local/remote controls, alarms and indicators for power watertight door(s) SOLAS 20 II-I/13-1.2
 - Verify operation of local/remote indicators and signage for access doors and hatch covers SOLAS 20 II-I/13-1.3
93. Examine general condition of hull and structural members
- Examine condition of ladder ways, guardrails, fire mains, piping, hatch covers & watertight/weathertight closures ICLL I/12-25
MSM II/D.1.G.1.b(1)
 - Evaluate hull strength and integrity ICLL I/11
MSM II/D.1.G.1.b(2)

- 94. Examine structural/watertight integrity of the deck/hull
 - Assess condition of components SOLAS 20 II-I/13-1.1
ICLL I/12
 - Assess condition of ventilator closures ICLL I/19(4)

Hazardous Ship's Stores

- 95. Examine paint lockers
 - Evaluate stowage of flammable and hazardous material 46 CFR 147.45
 - Verify fire protection equipment provided for space SOLAS 20 II-2/10.6.3
46 CFR 147.65
 - Verify intrinsically safe electrical installations SOLAS 20 II-1/45.5.4
SOLAS 20 II-1/45.10
- 96. Examine storage of oxygen and acetylene cylinders
 - Verify bottles are secured 46 CFR 147.60(b)(1)
 - Verify bottles are capped when not in use 46 CFR 147.60(b)
 - Verify storage location and ventilation 46 CFR 147.60(b)(2)
46 CFR 147.60(b)(3)

Section 3: Machinery Examination
Machinery

- 97. Examine steering gear assembly and operation
 - Examine condition of system SOLAS 20 II-1/29.1-.3
 - Verify suitable arrangements and access to machinery SOLAS 20 II-1/29.13
 - Verify content of steering gear instructions SOLAS 20 V/26.3.1
33 CFR 164.35(k)
 - Witness functional system tests SOLAS 20 II-1/29.3.2
SOLAS 20 II-1/29.11.1-2
 - Witness operational test of controls SOLAS 20 II-1/29.5.2
SOLAS 20 II-1/29.6.1.2
 - Verify hydraulic power-operated arrangements and alarms SOLAS 20 II-1/29.12
 - Verify automatic start after power failure SOLAS 20 II-1/29.5.1

- 98. Examine arrangements for propulsion engine(s)
 - Examine condition of components SOLAS 20 II-1/26.1
 - Verify installation of machinery covers and guards SOLAS 20 II-1/26.1
SOLAS 20 II-2/4.2.2.6.1
 - Verify high pressure fuel lines are double jacketed SOLAS 20 II-2/4.2.2.5.2
 - Verify no leaks of flammable liquids SOLAS 20 II-2/4.1.1
 - Verify engineers alarm is installed and operational SOLAS 20 II-1/38
 - Verify emergency stopping device is installed SOLAS 20 II-1/31.2.3

- 99. Examine main service generators and prime mover(s)
 - Examine condition of components SOLAS 20 II-1/26.1
 - Verify installation of machinery covers and guards SOLAS 20 II-1/26.1
SOLAS 20 II-2/4.2.2.6.1
IMO MSC/Circ. 834
 - Verify required prime mover detectors/gauges SOLAS 20 II-1.47.2
 - Verify no leaks of flammable liquids SOLAS 20 II-2/4.1.1
 - Verify high pressure fuel lines are double jacketed SOLAS 20 II-2/4.2.2.5.2

- 100. Examine bilge pumps installation, piping, and valves
 - Examine bilge system components SOLAS 20 II-1/35-1.2
 - Verify valve indicators SOLAS 20 II-1/35-1.3.12
 - Witness operation of alarm(s) SOLAS 20 II-1/48

- 101. Examine machinery spaces
 - Evaluate condition of machinery and related equipment IMO Res A.1138(31) Appendix 6/3.2
MSM II/D.1.G.1.c(2)
 - Evaluate fire risk in spaces/bilges and means to control leaks of flammable liquids SOLAS 20 II-2/4.1.2
MSM II/D.1.G.1.o(6)(d)
 - Evaluate monitoring of bilge wells for protection against flooding SOLAS 20 II-1/48.1
SOLAS 20 II-1/31.3
 - Ensure personnel hazards are mitigated (rotating equipment, hot surfaces, railings, etc.) SOLAS 20 II-1/26.1
SOLAS 20 II-2/4.2.2.6

- 102. Examine transfer procedures
 - Determine applicability 33 CFR 155.100
33 CFR 155.720
 - Verify availability 33 CFR 155.720
33 CFR 155.740(c)
 - Verify contents 33 CFR 155.750

- 103. Examine emergency generator(s) and prime mover(s)
 - Examine condition of components SOLAS 20 II-1/26.1
SOLAS 20 II-1/44.3
 - Verify installation of machinery covers and guards SOLAS 20 II-1/26.1
IMO MSC/Circ. 834
 - Verify independent fuel supply SOLAS 20 II-1/43.3.1.1
 - Verify operation of remote fuel shutoff valve SOLAS 20 II-2/4.2.2.3.4
MSM II/D.G.1.c.6
 - Verify arrangement of auto-start function SOLAS 20 II-1/43.3.1
SOLAS 20 II-1/44.4.1 & .2
 - Witness operation of starting arrangements SOLAS 20 II-1/44.2

- 104. Examine fuel systems
 - Verify fuel type(s)/endorsement * SOLAS 20 II-2/4
SOLAS 20 II-1/56 & 57
 - Verify no leaks of flammable liquids or gasses SOLAS 20 II-2/4
SOLAS 20 II-1/56 & 57
 - Verify tank type SOLAS 20 II-1/57
 - Verify design and arrangements SOLAS 20 II-1/57

Electrical Systems

- 105. Examine switchboards
 - Verify protection of openings and accesses SOLAS 20 II-1/40.1.3
SOLAS 20 II-1/45.2
 - Verify non-conductive mats or gratings SOLAS 20 II-1/45.2
 - Examine condition of equipment for electrical hazards SOLAS 20 II-1/40
 - Verify circuit directory SOLAS 20 II-1/45.6.2
- 106. Examine motor controllers
 - Verify condition SOLAS 20 II-1/40
 - Verify markings SOLAS 20 II-1/45.6.2
- 107. Examine controls and alarms for unattended machinery spaces (when applicable)
 - Verify administration approved documentation SOLAS 20 II-1/46.3
 - Verify fire detection system alarms SOLAS 20 II-2/7.4.1.1
SOLAS 20 II-1/47.1
 - Verify engineers' alarm is operational SOLAS 20 II-1/51.1.2
 - Verify alarm system is continuously powered SOLAS 20 II-1/51.2.1
 - Verify alarms can not be inhibited SOLAS 20 II-1/51.3.1
 - Verify serious machinery malfunction initiates automatic shutdown(s) SOLAS 20 II-1/52
 - Verify presence of Oil Mist Detection system SOLAS 20 II-1/47.2

*** See task #13.**

- 112. Verify fuel compliance with MARPOL Annex VI
 - Review records MARPOL VI/3, 4, 14 & 18
CVC-WI-022
 - Verify fuel receipts MARPOL VI/18
CVC-WI-022
 - Verify fuel oil SOx MARPOL VI/14
CVC-WI-022
 - Verify alternative arrangements for meeting emissions standards MARPOL VI/4 & 3
CVC-WI-022

- 113. Examine Ballast Water Management System (BWMS)
 - Verify placard matches USCG approval certificate or AMS acceptance letter 46 CFR 162.060-22 & -10
33 CFR 151.2026
 - Verify operation 33 CFR 151.2025
 - Verify Operation, Maintenance & Safety Manual 46 CFR 162.060-38

Section 4: Drills

- 114. Evaluate fire drill
 - Verify drill performed and crew participated SOLAS 20 III/19.3.2
SOLAS 20 III/19.5
 - Witness drill procedures and crew performance SOLAS 20 III/19.3.5
SOLAS 20 III/19.4.2.4
 - Evaluate crew's ability to effectively respond to emergency(s) SOLAS 20 III/19.3.5.2.1
 - Verify effective communication SOLAS 20 III/19.3.5.2.4
MSM II/D.1.G.1.r(2)
 - Witness drill debrief SOLAS 20 II-2/15.2.2.3

- 115. Evaluate abandon ship drill
 - Witness drill procedures and crew performance SOLAS 20 III/19.3.4.1
MSM II/D.1.G.1.r(1)
 - Witness crew's competency to launch lifeboats (Not required to launch for PSC exams on cargo vessels). SOLAS 20 III/19.3.4.2
LSA Code 6.2.2.1.1-3
 - Evaluate crew's proficiency at donning lifejackets SOLAS 20 III/7.2
SOLAS 20 III/19.3.4.4
 - Witness drill debrief SOLAS 20 III/19.3

- 116. Verify enclosed space entry drill
 - Verify drill performed and required crew participated SOLAS 20 III/19.3.3
SOLAS 20 III/19.5
 - Examine rescue equipment SOLAS 20 III/19.3.6.2
 - Review rescue procedures SOLAS 20 III/19.3.6.2

Section 5: Enhanced Examination

Discussion & Instructions

Discussion. Enhanced exams focus on specific systems and processes. They encourage implementation of new regulations by ship owners and operators, and enable the Coast Guard to monitor implementation trends. In addition, enhanced exams may be initiated by the Coast Guard to focus on systems or components that relate to more serious deficiencies, which otherwise would not be readily identified during a PSC exam. Enhanced exam topics are applicable on a quarterly basis. The scope of the exam depends on the system, components, or processes being examined. Drills are the enhanced exam subject for July – September, 2021.

Instructions. A checklist is not required to be submitted. See previous drill tasks and document drill performance in the activity narrative and inspection results. The applicable deficiency codes are from “04 – Emergency Systems” as follows:

- 04109 – Fire drills
- 04110 – Abandon ship drills
- 04118 – Enclosed space entry and rescue drills

