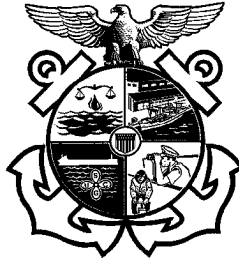


United States Coast Guard



MOBILE OFFSHORE DRILLING UNIT INSPECTOR (Option C) Job Aid

Name of MODU		Flag <input type="checkbox"/> No Change	
IMO Number		Activity Number	
Date Completed	Priority	Points	
Location			
MODU in Compliance with: <input type="checkbox"/> 2009 MODU Code <input type="checkbox"/> 1989 MODU Code <input type="checkbox"/> 1979 MODU Code			
Type of COC Exam: <input type="checkbox"/> Initial <input type="checkbox"/> Renewal <input type="checkbox"/> Annual			
Examination Team Members:			
1. _____		3. _____	
2. _____		4. _____	

Job Aid MUI-C
Rev. Oct2018

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Use of “Option C” Mobile Offshore Drilling Unit Examination Book:

This book is intended to be used as a job aid by:

- Coastal state examiners (>12 NM) and port state control officers (≤ 12 NM) during boardings of foreign-flagged “Option C” MODUs.

This Job Aid contains an extensive list of possible examination items. It is not, however, the Coast Guard’s intention to “inspect” all items listed. As a responsibility, inspectors must verify that the vessels and their crews are in substantial compliance with international conventions and applicable U.S. laws. The depth and scope of the examination must be determined by the examiners based on their observations.

Inspection items marked with an asterisk () reflect tasks that originate from pre-requisite PQS (PSCE), with cites updated for MODUs, and do not correspond to a MUI PQS task.*

This Job Aid cites the following:

- MODU regulations from the 2009 MODU Code, as amended,
- SOLAS regulations from the 2014 Consolidated Edition (SOLAS 14), and
- CFR cites are from the 2017 print edition of the referenced CFRs (unless otherwise noted).

In some cases, the cited regulations may not apply due to the keel laid date of the MODU. Examiners must pay close attention to the applicability dates of the applicable regulations when conducting MODU exams.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFRs, NVICs and any locally produced cite guides for specific regulatory references.

NOTE: *Guidance on how to examine mobile offshore drilling units can be found in MSM Volume II, Section G: Chapter 3: Procedures Applicable to MODUs (Foreign)*

Guide to Examinations:

Pre-inspection Items

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

Post-inspection Items

- Issue letters/certificates to vessel
 - Forms A & B, or
 - CG-3585 Deficiency Report, and
 - COC (issue or endorse)
 - Complete MISLE entries within 48 hours
-

SUMMARY OF FOOTNOTES pertaining to applicability of steps and references:

(a) MODU 09 14.13.5 for davit-launched liferafts goes into effect on 01Jan2020 (MSC.435(98) (09Jun2017)).

(b) Dedicated rescue boats will be required for Option C MODUs constructed on/after 01Jan2020 (MSC.435(98)).

(c) Drill floor fire extinguishing requirements will be mandatory for Option C MODUs constructed on/after 01Jan2020 (MSC.435(98)).

(d) Man overboard drills become a mandatory quarterly requirement for Option C MODUs constructed on/after 01Jan2020 (MSC.453(98)).

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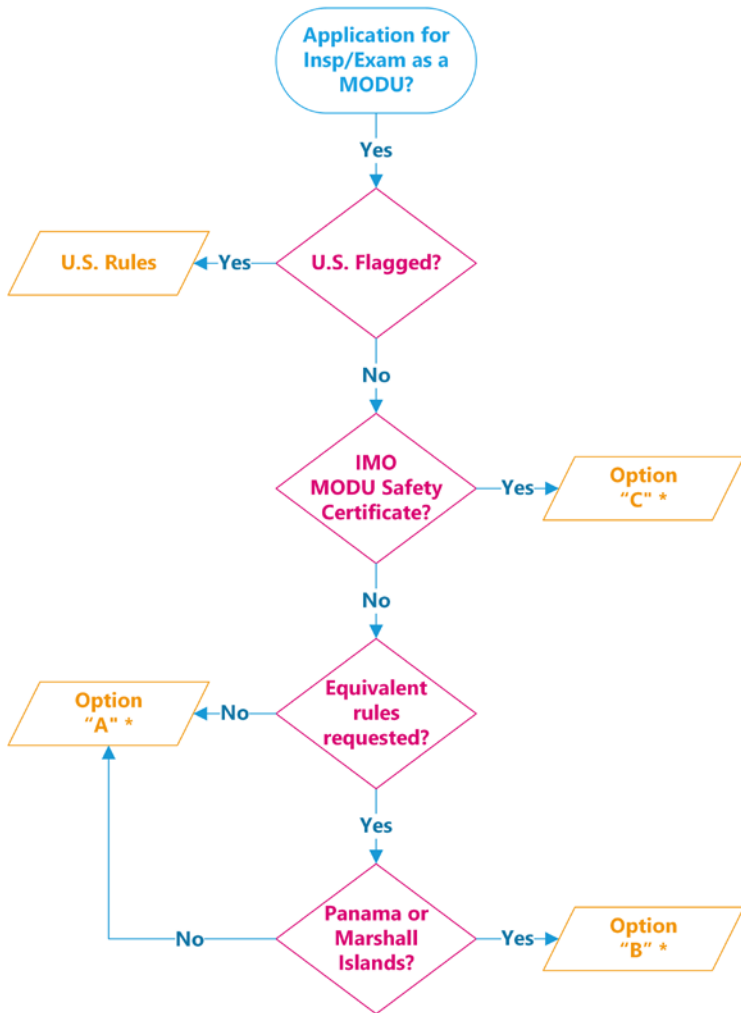
Section 1: Administrative Items

IMO Applicability Dates:

Reference	Dates
ITC 1969	18 JUL 82
Load Line 1966 Load Line 88 Protocol	21 JUL 68 03 FEB 00
Load Line (2005 edition) contains all amendments entered into force up-to 2003 Amendments. The following Amendments (resolutions) have entered into force since it was published. www.imo.org MSC 172(79) MSC 223(82) MSC 270(85) MSC 329(90) MSC 356(92) MSC 375(93)	01 JUL 06 01 JUL 08 01 JUL 10 01 JAN 14 01 JAN 15 01 JAN 16
MARPOL 2017 Consolidated contains all amendments entered into force up-to 01 JAN 2017 Amendments. The following Amendments (resolutions) have entered into force since it was published. www.imo.org	
MODU Code 2009 MODU Code 1989 MODU Code 1979	01 JAN 12 01 MAY 91 31 DEC 81
Load Line 1966 Load Line 88 Protocol	21 JUL 68 03 FEB 00
Load Line (2005 edition) contains all amendments entered into force up-to 2003 Amendments. The following Amendments (resolutions) have entered into force since it was published. www.imo.org MSC 172(79) MSC 223(82) MSC 270(85)	01 JUL 06 01 JUL 08 01 JUL 10

STCW	28 APR 84
STCW (2017 edition) contains all amendments entered into force up-to 2017 Amendments. The following Amendments (resolutions) have entered into force since it was published. www.imo.org	

MODU Applicability

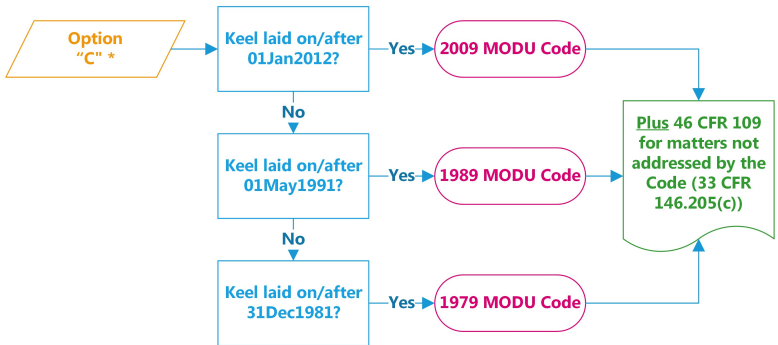
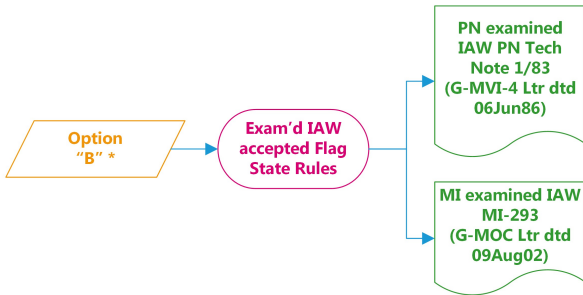
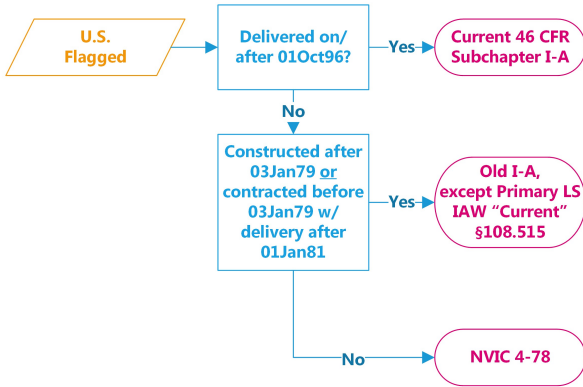


Options A, B & C:

* 33 CFR 143.207 Design & Equipment requirements for foreign MODUs

* §146.205 Operations requirements for foreign MODUs

MODU Applicability (Cont'd)



Involved Parties & General Information:

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

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

MODU Information:

Classification Society	
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	
Conversions/Modifications	
Date of Last Flag State Inspection	
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

MODU Type:

Self-Elevating

- Mat-Supported
- Independent Leg

Column-Stabilized

- Moored
- Dynamically Positioned

Drillship

- Dynamically Positioned

Section 2: Certificates and Documents

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp Date	Endors. Date
Certificate of Registry <input type="checkbox"/> No Change						
Certificate of Compliance (COC) <input type="checkbox"/> No Change						
MODU Safety Certificate <input type="checkbox"/> No Change						
Classification Document <input type="checkbox"/> No Change						
Cert of Financial Resp. (COFR) <input type="checkbox"/> No Change	USCG					
International Tonnage (ITC) <input type="checkbox"/> No Change						

Certificates and Documents (Cont)

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

Certificates and Documents (Cont)

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp Date	Endors. Date
International Sewage Pollution Prevention (ISPP) <input type="checkbox"/> No Change						
International Air Pollution Prevention (IAPP) <input type="checkbox"/> No Change						
International Anti-Fouling Systems (IAFS) <input type="checkbox"/> No Change						
<i>Cargo Ship Certificates Voluntarily carried in addition to the MODU Safety Certificate:</i>						
Safety Construction Certificate <input type="checkbox"/> No Change						
Safety Equipment Certificate <input type="checkbox"/> No Change						
Safety Radio Certificate <input type="checkbox"/> No Change						

Section 3: Inspection Items

Pre-Examination

- 1. Schedule inspection/examination in Maritime Information for Safety and Law Enforcement (MISLE)
 - Determine the authority, jurisdiction, and applicable regulation(s) 33 CFR 140.3 & .101(a)
33 CFR 143.207(c)
 - Locate vessel in MISLE MPS-PR-SEC-04
MSM I/12.F
 - Verify documents are current in MISLE MPS-PR-SEC-04
 - Review history (narratives, deficiencies & special notes) MPS-PR-SEC-02 & 04
MMS Work Instruction
 - Verify status of user fees 46 CFR 2.10-130(a)
MSM II/G.3.A.2.a
 - Prepare folder and required documents 46 CFR 2.01-6
MPS-PR-SEC-04
 - Verify status of Certificate of Financial Responsibility (e-COFR) 33 CFR 138.15(b) & .85
MMS Work Instruction
 - Generate new activity MMS Work Instruction
 - Verify submittal of Environmental Protection Agency (EPA) Notice of Intent (NOI) CG-543 Policy Ltr 11-01

- 2. Coordinate inspection/examination with vessel's representative
 - Identify vessel's representative MPS-PR-SEC-02
MPS-PR-SEC-04
 - Confirm vessel arrival time, destination, inspection/examination based on Advanced Notice of Arrival (ANOVA) 33 CFR 146.202 & .215
MPS-PR-SEC-02
 - Articulate examination expectations 33 CFR 143.207(c)
33 CFR 146.205(c)
 - Verify owner/operator information MPS-PR-SEC-04
 - Verify Classification Society information MPS-PR-SEC-04
 - Confirm MISLE targeting score with information attained from vessel representative MSM II/G.3.N

- 3. Conduct meeting with vessel's representative to discuss scope of the inspection/examination
 - Discuss outstanding Conditions of MPS-PR-SEC-06

Class and any third party servicing report discrepancies

- Discuss examination procedures and expectations 33 CFR 143.207(c)
33 CFR 146.205(c)
- Assess ongoing operations to include well ops that could affect examination and equipment availability with Master/OIM MPS-PR-SEC-06
- Coordinate actual machinery/equipment testing procedures MPS-PR-SEC-06

4. Issue Letter of Determination (LOD)

- Determine applicability 43 USC 1356(c)
33 CFR 141.5
- Review request 33 CFR 141.15
NVIC 07-84
- Prepare LOD 33 CFR 141.5(c)
NVIC 07-84
- Retain a copy, log issued LODs and secure documentation received from employers/applicants 5 USC 552 & 552a
COMDTINST M5260.3

5. Mitigate potential hazards encountered during an inspection/examine

- Recognize potential hazards encountered during an exam NFPA 306
- Determine confined spaces onboard vessel MSM I/CH10
- Determine if exam scope will require a Marine Chemist certification for entry into spaces 29 CFR 1915, Part B
MSM II/G.1.J.1
- Verify Marine Chemist has been scheduled for the exam (when applicable) MSM I/CH10 App. A
- Prepare necessary personal protective equipment for exam MSM I/CH10 App. A
Quattro Operator's Manual
- Review CG policy for when to leave a space due to hazardous condition MSM I/CH10 App. A

Security

6. Verify security training & records*

- Verify presence of trained and designated Ship Security Officer SOLAS 14 XI-2/4.2
ISPS A/12.1 & 13.2

- Verify presence and approved and valid Ship Security Plan ISPS A/9.1, 9.4 & 9.8
MSM II/D.1.H.4
- Examine security drill records ISPS A/10.1.1 & 13.4
MSM II/D.1.H.7.a
- Examine security exercise records ISPS A/10.1.1 & 13.5
MSM II/D.1.H.7.a
- Examine records of crew training ISPS A/13.3
MSM II/D.1.H.7.a
- Examine Declarations of Security ISPS A/5.2 & 5.7
MSM II/D.1.H.4.j

Certificates & Documents

- 7. Examine Certificate of Compliance (COC)
 - Verify compliance option 33 CFR 143.207(c)
33 CFR 146.205(c)
 - Verify particulars are accurately reflected CG-3585
 - Verify certificate is valid 33 CFR 143.210
46 CFR 2.01-6(a)(3)

- 8. Examine Crew Certificates of Competency and Proficiency for Foreign-Flagged MODUs
 - Verify original credentials are onboard and valid STCW 2011/2.11
MSM II/G.3.A.10.c
 - Verify STCW & Flag State endorsements STCW 2011/2, 5 thru 10
 - Verify valid medical certificate STCW 2011 I/9.3
 - Verify Transportation Worker Identification Credential (TWIC) 46 CFR 10.203(b) & (d)
 - Verify required number of Lifeboatmen MODU Code 09/14.10.4, 10.5
 - Verify letters of determination or exemption letter for foreign national(s) 33 CFR 141.15(c) & .20(f)
NVIC 07-84
 - Verify Dynamic Positioning operator's certificate(s) is valid MODU Code 09/4.13
IMO MSC.1/Circ.738 Rev.2

- 9. Examine Code for the Construction and Equipment of Mobile Offshore Drilling Units Safety Certificate
 - Determine applicability 33 CFR 140.101(e)
MODU Code 09/1.6.7
 - Verify presence MODU Code 09/1.6.7
 - Verify validity MODU Code 09/1.6.11.8

- Review exemptions MODU Code 09/1.6.8
10. Examine Certificate of Registry*
- Verify presence 46 USC 3303
SOLAS 14 I/13
 - Verify validity 46 USC 3303
11. Examine Classification Society Certificate*
- Verify presence SOLAS 14 I/6(a)
 - Verify validity SOLAS 14 I/6(a)
12. Examine International Tonnage Certificate (ITC)*
- Verify presence ICTM 69 Article 7
 - Verify validity ICTM 69 Article 9
 - Verify certificate form ICTM 69 Article 10
13. Examine International Load Line Certificate (ILLC)*
- Verify presence ICLL Article 16
 - Verify validity ICLL Article 15
ICLL Article 19
 - Verify certificate form ICLL Article 18
 - Confirm load line observed on hull ICLL Reg 9
(Task BN-07) matches certificate
14. Examine Cargo Ship Safety Construction Certificate (CSSCC)*
- Verify presence SOLAS 14 I/12(a)(ii)
SOLAS 14 I/16
 - Verify validity SOLAS 14 I/10
SOLAS 14 I/14
 - Verify certificate form SOLAS 14 I/15
15. Examine Cargo Ship Safety Equipment Certificate (CSSEC) and Record of Equipment (Form-E)*
- Verify presence SOLAS 14 I/12(a)(iii)
SOLAS 14 I/16
 - Verify validity SOLAS 14 I/8
SOLAS 14 I/14
 - Verify form of certificate & Form-E SOLAS 14 I/15
16. Examine Cargo Ship Safety Radio Certificate (CSSRC) and Record of Equipment (Form-R)*
- Verify presence SOLAS 14 I/12(a)(iv)

- Verify validity SOLAS 14 I/16
SOLAS 14 I/9
SOLAS 14 I/14
 - Verify form of certificate & Form-R SOLAS 14 I/15
- 17. Examine Cargo Ship Safety Certificate (CSSC) and Record of Equipment (Form-C)*
 - Verify presence SOLAS 14 I/12(a)(v)
SOLAS 14 I/16
 - Verify validity SOLAS 14 I/8-10
SOLAS 14 I/14
 - Verify form of certificate & Form-C SOLAS 14 I/15
- 18. Examine copy of Document of Compliance (ISM-DOC)*
 - Verify presence SOLAS 14 IX/4.2
ISM Code 13.6
 - Verify validity SOLAS 14 IX/5
ISM Code 13.2-5
 - Verify document form ISM Code 16
- 19. Examine Safety Management Certificate (ISM-SMC)*
 - Verify presence SOLAS 14 IX/4.3
ISM Code 13.7
 - Verify validity SOLAS 14 IX/5
ISM Code 13.5.1
 - Verify certificate form ISM Code 16
- 20. Examine Minimum Safe Manning Document*
 - Verify presence SOLAS 14 V/14.1
 - Verify validity SOLAS 14 V/14.2
 - Verify manning in accordance with document STCW I/2.9
STCW I/14
- 21. Examine Medical Certificates*
 - Verify presence STCW I/9.3
COMDTINST 16711.12A
 - Verify validity STCW I/9.5
- 22. Examine Continuous Synopsis Record (CSR)*
 - Verify presence of current record SOLAS 14 XI-1/5.1
SOLAS 14 XI-1/5.10
 - Verify presence of all records from SOLAS 14 XI-1/5.2.2

- | | | |
|--------------------------|--|--|
| | 1 July 2004 | SOLAS 14 XI-1/5.6 |
| | • Verify validity | SOLAS 14 XI-1/5.3
SOLAS 14 XI-1/5.4.1-4.3 |
| | • Verify record form | SOLAS 14 XI-1/5.5.1
SOLAS 14 XI-1/5.5.2 |
| <input type="checkbox"/> | 23. Examine International Ship Security Certificate (ISSC)* | |
| | • Verify presence | SOLAS 14 XI-2/4.2
ISPS Code A/19.2.1 |
| | • Verify validity | ISPS Code A/19.2.2
ISPS Code A/19.2.3 |
| | • Verify certificate form | ISPS Code A/19.2.4 |
| <input type="checkbox"/> | 24. Examine International Oil Pollution Prevention Certificate (IOPP) and Record of Construction and Equipment (Form-A)* | |
| | • Verify presence | MARPOL I/7 & 8 |
| | • Verify validity | MARPOL I/10 |
| | • Verify form of certificate & Form-A | MARPOL I/9 |
| <input type="checkbox"/> | 25. Examine International Sewage Pollution Prevention Certificate (ISPP)* | |
| | • Verify presence | MARPOL IV/5
NVIC 01-09 Encl. 3 |
| | • Verify validity | MARPOL IV/8 |
| | • Verify certificate form | MARPOL IV/7 |
| <input type="checkbox"/> | 26. Examine International Air Pollution Prevention Certificate (IAPP)* | |
| | • Verify presence | MARPOL VI/6
CG-543 Policy Ltr 09-01 |
| | • Verify validity | MARPOL VI/9
CG-543 Policy Ltr 09-01 |
| | • Verify certificate form | MARPOL VI/8
CG-543 Policy Ltr 09-01 |
| <input type="checkbox"/> | 27. Examine the Engine International Air Pollution Prevention (EIAPP) Certificate(s)* | |
| | • Verify presence | MARPOL VI/13.8
NOx Code 2.1.1.1 |
| | • Verify validity | NOx Code 2.1.1.1 |
| | • Verify certificate(s) form | NOx Code 2.2.10 |
| <input type="checkbox"/> | 28. 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 compliance with ballast water record keeping requirements 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
29. Examine muster lists and emergency instructions*
- Verify muster lists and emergency instructions are available MODU 09/14.10.10
MODU 09/14.11
 - Verify muster lists and emergency instructions are posted MODU 09/14.10
MODU09/14.11
 - Verify information on muster lists and emergency instructions MODU 09/14.10.11 thru .16
MODU 09/14.11.1 & .2
30. Examine ballast water management documents*
- Verify Coast Guard approved Ballast Water Management System 33 CFR 151.2025(a)(1)
 - Verify validity of AFS certificate AFS
MSM II/D.1.G.1.t
 - Verify Ballast Water Management Plan 33 CFR 151.2050(g)
NVIC 07-04 Ch. 1
31. Examine Long-Range Identification & Tracking (LRIT) conformance test report*
- Verify presence IMO MSC.1/Circ. 1307
 - Verify validity SOLAS 14 V/19-1.5
IMO MSC.1/Circ. 1307
32. Examine Ship Energy Efficiency Management Plan (SEEMP)*
- Verify presence MARPOL VI/22
 - Verify validity CG-CVC Policy Ltr 13-02
33. Examine International Energy Efficiency Certificate (IEEC)*
- Verify presence MARPOL VI/6
CG-CVC Policy Ltr 13-02
 - Verify validity MARPOL VI/8
 - Verify form MARPOL VI/9
34. Examine Energy Efficiency Design Index (EEDI)*
- Verify presence MARPOL VI/20
 - Verify validity MARPOL VI/9
 - Verify form MARPOL VI/8

- Verify presence of Ship Energy Efficiency Management Plan (SEEMP) MARPOL VI/22
IMO Res MEPC.203(62)

35. Examine International Anti-fouling System Certificate (IAFS)*

- Verify presence AFS 2
MSM II/D.1.G.t
- Verify validity AFS 4
MSM II/D.1.G.t
- Verify certificate form AFS 2
MSM II/D.1.G.t

Logs & Manuals

36. Examine logbook entries

- Verify pre-arrival/departure checks 33 CFR 164.25
MODU 09/11.10
- Verify fire and lifesaving training/drills MODU 09/14.16.1.2
- Verify lifesaving equipment deficiencies and corrective actions MODU 09/14.16.1.1 & .2.6
- Verify sanitary inspections ILO-147 p. 39/35
- Verify enclosed space entry and rescue drills MODU 09/14.14 & 14.16.1.2

37. Examine rescue boat maintenance records and service logs/reports

- Examine record of inspection and maintenance MODU 09/10.18.2
SOLAS 14 III/36
- Verify weekly inspection and test MODU 09/10.18.7
- Verify monthly inspection MODU 09/10.18.8
- Verify annual inspection and tests of launching appliance(s) and on-load release gear(s) MODU 09/10.18.12
- Verify periodic servicing and tests of launching appliance(s), fall(s), winch(s) and release gear(s) overhaul MODU 09/10.18.5
MODU 09/10.18.12.1.3 & .2.3
- Verify release hook meets IMO revised regulations MODU 09/10.1.4
SOLAS 14 III/1.5
- Verify discrepancies on servicing reports are corrected MODU 09/10.18.1

38. Review records of emergency training and drills

- Verify crew and industrial MODU 09/14.13.1

personnel participated in abandonment drill and fire drills

- Verify drill includes lowering of at least one lifeboat MODU 09/14.13.4.2
- Verify drill includes operating davits used for launching liferafts (if applicable) MODU 09/14.13.5^(a)
- Verify different lifeboat(s) are used for each drill MODU 09/14.13.3
- Verify lifeboats and rescue boats are launched and operated MODU 09/14.13.5
SOLAS 14 III/19.3.3 & .6.4
- Examine training records for davit-launched liferaft (if applicable) MODU 09/14.15
Resolution A.1079(28)
- Verify crew participated in enclosed space drills MODU 09/14.14.1

39. Examine liferaft maintenance records and service logs/reports

- Examine log for record of inspections and maintenance MODU 09/10.18.2
SOLAS 14 III/36
- Examine annual certificate MODU 09/10.18.9
MODU 09/14.16.2.6
- Verify periodic examination of launching appliances and dynamic testing of winch(s) (if applicable) MODU 09/14.16.2.6
MODU 09/10.18.12.1
- Verify maintenance of falls (if applicable) MODU 09/14.16.2.6
MODU 09/10.18.5
- Verify examination and operational test of release hook(s) (if applicable) MODU 09/14.16.2.6
MODU 09/10.18.12.3
- Verify discrepancies on servicing reports are corrected MODU 09/9.19.1
MODU 09/10.18.1

40. Examine lifeboat maintenance records and service logs/reports

- Examine record of inspection and maintenance MODU 09/10.18.2
SOLAS 14 III/36
- Verify weekly inspection and test MODU 09/10.18.7
MODU 09/14.16.2.6
- Verify monthly inspection MODU 09/10.18.8
MODU 09/14.16.2.6
- Verify annual inspection and tests of launching appliance(s) and on-load release gear(s) MODU 09/10.18.12.1.3 & .2.3
MODU 09/14.16.2.6
- Verify periodic overhaul of release gear and tests of launching MODU 09/10.18.5
MODU 09/10.12.1 & .2

- appliance(s), fall(s) and winch(es)
 - Verify release hook meets IMO revised regulations MODU 09/10.1.4 SOLAS 14 III/1.5
 - Verify discrepancies on servicing reports are corrected MODU 09/10.18.1
41. Examine fire-fighting equipment maintenance and service logs/reports
- Examine record of inspection and maintenance MODU 09/14.16.2.5 MODU 09/9.19.4.1
 - Verify maintenance plan is onboard and applicable MODU 09/9.19.4.2
 - Verify maintenance plan includes systems and appliances MODU 09/9.19.4.3
 - Verify inspection and servicing IAW applicable standards or manufacturer's instructions MODU 09/9.19.4.1 IMO MSC.1/Circ. 1432
 - Verify discrepancies on servicing reports are corrected MODU 09/9.19.1 MODU 09/14.16.2.5
42. Examine fire detection system maintenance and service logs/reports
- Examine record of inspection and maintenance MODU 09/9.19.4.1 & 16.2.5 MODU 09/9.19.4.2
 - Verify maintenance plan is onboard and applicable MODU 09/9.19.4.2
 - Verify maintenance plan includes systems MODU 09/9.19.4
 - Verify annual inspection and servicing IAW with manufacturer's instructions MODU 09/9.19.4.1 IMO MSC.1/Circ.1432
 - Verify discrepancies on servicing reports are corrected MODU 09/9.19.1 MODU 09/14.16.2.5
43. Examine gas detection maintenance and service logs/reports
- Examine record of inspection and maintenance MODU 09/9.19.4.1 MODU 09/14.16.2.5
 - Verify maintenance plan is onboard and applicable MODU 09/9.19.4.2
 - Verify maintenance plan includes systems MODU 09/9.19.4.3 thru .13
 - Witness a satisfactory calibration of system(s) MODU 09/9.19.1.1 Operations Manual
 - Verify discrepancies on servicing reports are corrected MODU 09/9.19.1 MODU 09/14.16.2.5

- 44. Examine crane maintenance and service logs/reports
 - Verify installation is approved MODU 09/12.1.1
 - Verify initial load test MODU 09/12.1.5
 - Verify required inspection(s) MODU 09/12.1.6
 - Verify if de-rated and load rating chart has been revised (when applicable) MODU 09/12.1.4
 - Verify maintenance manual(s) is available MODU 09/12.1.10
 - Verify crane operators are designated in writing and qualified 46 CFR 109.527(a)
 - Verify discrepancies on servicing reports are corrected MODU 09/12.1.6

- 45. Examine Unfired Pressure Vessels (UPVs) and relief valves maintenance and service logs/reports
 - Verify required UPV tests conducted 46 CFR 61.10-1 & -5
MSM II/G.3.G.4
 - Verify UPV tests (when applicable) 46 CFR 61.10-5
MSM II/G.3.G.4
 - Verify UPV five year internal inspection (when applicable) 46 CFR 61.10-5(b)
MODU 09/4.3.1 & .2
 - Verify pressure relief valve (PRV) testing 46 CFR 61.10-5(i)
MSM II/G.3.G.4

- 46. Examine Marine Operating Manual (MOM)
 - Verify approval MODU 09/14.1.1
MSM II/G.3.F
 - Verify hazardous locations are identified MODU 09/14.1.2.15
 - Verify manual addresses normal and emergency activities MODU 09/14.1.3 & .4
 - Verify contents are in English and other language(s) understood by personnel on board MODU 09/14.1.6
MSM II/G.3.F
 - Verify stability calculations contained in manual are approved (stamp/letter) MODU 09/14.1.2.9 thru .12
MSM II/G.3.E
 - Verify changes affecting lightship data are maintained in lightship data alterations log MODU 09/3.1
MODU 09/14.1.2.9 & 1.3.2
 - Examine alternative stability criteria accepted by Flag State (when MODU 09/3.3.3
MSM II/G.3.E

- applicable)
 - Verify Dynamic Positioning operational requirements MODU 09/14.1.3.13
- 47. Examine Emergency Evacuation Plan (EEP)
 - Determine applicability 33 CFR 146.201 & .210
 - Verify approval letter is on board 33 CFR 146.210(a) & .140(b)
 - Verify content 33 CFR 146.140(d)
MSM II/G.3.K
 - Verify revision pages for changes 33 CFR 146.140(d)(3)
 - Verify EEP is applicable to unit's current location and reflects on site conditions 33 CFR 146.140(a) & (d)(11)
- 48. Examine construction portfolio (booklet)
 - Verify presence of copy MODU 09/2.13
- 49. Examine Oil Record Book Part I (ORB)*
 - Verify presence MARPOL I/17.1
MARPOL I/17.6-.7
 - Verify validity and proper entries MARPOL I/17.2-.5
IMO MEPC.1/Circ.736/Rev.2
 - Verify presence of completed ORBs MARPOL I/17.6
- 50. Examine Oil Record Book (ORB) Part II (when applicable)
 - Determine applicability MARPOL I/36
 - Verify operation entries MARPOL I/36.2
 - Verify each completed operation and page is signed MARPOL I/36.5
 - Verify entries for any failures of oil discharge monitoring system MARPOL I/36.6
- 51. Examine Shipboard Oil Pollution Emergency Plan (SOPEP)*
 - Verify presence MARPOL I/37.1
 - Verify validity MARPOL I/37.2
MARPOL I/37.3
- 52. Examine Non-Tank Vessel Response Plan (NTVRP)*
 - Verify presence 33 USC 1321(a)(26)

- Verify validity 33 USC 1321(j)(5)(A)(ii)
33 USC 1321(j)(5)(I)
33 USC 1321(j)(5)(F)(i)
 - Verify contents 33 USC 1321(j)(5)(D)
33 CFR 155.5030

- 53. 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 Declaration of Inspection (DOI) 33 CFR 156.150
 - Verify Declarations of Inspection (DOI) retained onboard 33 CFR 156.150(f)
 - Verify bunker line annual hydrostatic test 33 CFR 156.170(f)(3)
 - Verify presence of transfer procedures 33 CFR 155.720

- 54. Examine Garbage Management Plan*
 - Verify presence MARPOL V/9.2
 - Verify validity MARPOL V/9.2
 - Verify contents MARPOL V/9.2
IMO Res MEPC.219(63)

- 55. Examine Garbage Record Book*
 - Verify presence MARPOL V/9.3
MARPOL V/9.5
 - Verify validity MARPOL V/9.3
 - Verify contents MARPOL V/9.3

Bridge & Navigation

- 56. Examine propulsion and operational mode indicators
 - Verify propeller indicator(s) MODU 09/7.4.2.8
 - Verify control station indicator(s) MODU 09/7.4.2.5

- 57. Verify operation of communication equipment
 - Verify helicopter communication MODU 09/11.6
 - Verify radio equipment compliance with SOLAS (when engaged in drilling operations) MODU 09/11.5
SOLAS 14 IV/7 thru 11

- Verify communications equipment listed in the EEP 33 CFR 146.210(a) & .140
58. Examine sound reception system on totally enclosed bridge
- Determine applicability MODU 09/11.10.1
SOLAS 09 V/19.2.1.8
 - Witness operation SOLAS 14 V/19.2.1.8
59. Witness operational test of steering gear
- Witness operational test of steering gear controls MODU 09/1.6.2.2
MODU 09/7.5.3 & .10
 - Verify rudder angle indicator accuracy MODU 09/7.5.15
 - Verify motor overload and phase failure audible and visual alarms MODU 09/7.6.3
60. Examine internal communications
- Verify means of communication with control room(s) MODU 09/11.7
MODU 09/7.7
 - Verify means of communication with steering gear compartment, self-propelled units only MODU 09/7.5.14
 - Verify internal means of communication with necessary spaces MODU 09/5.7.5
61. Examine anchor(s) and chain
- Verify anchoring arrangements MODU 09/4.12
ILO -147 3(g)
 - Verify condition of visible anchor chain MODU 09/4.12
ILO -147 3(g)
62. Examine hull for required markings
- Verify Load Line is permanently marked MODU 09/3.7.1
ICLL 5-9
 - Verify presence of deck line ICLL 4
 - Verify official or IMO number SOLAS 14 XI-1/3
 - Verify draught (draft) marks SOLAS 14 II-1/5.6
63. Examine hull, anchors and anchor chain for compliance with the Non-Indigenous Aquatic Nuisance Species Act
- Verify hull/anchor is free of organisms and sediment MODU 09/2.11
AFS Convention

- Evaluate condition of hull anti-fouling coating MODU 09/2.11
AFS Convention

64. Examine charts and publications (when applicable)*

- Verify presence of current, applicable and corrected charts and/or Electronic Chart Display & Information System (ECDIS) MODU 09/11.10.1
SOLAS 14 V/19.2.1.4, 27
- Verify presence of current and applicable Tide Tables SOLAS 14 V/27
- Verify presence of current and applicable Coast Guard Light List 33 CFR 164.33
SOLAS 14 V/27
- Verify presence of COLREGs COLREG A/1
- Verify presence of current and applicable U.S. Coast Pilot SOLAS 14 V/27
- Verify presence of International Code of Signals SOLAS 14 V/21.1
- Verify presence and contents of maneuvering fact sheet SOLAS 14 II-1/28.3
IMO Res A.601(15)
- Verify presence of International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual, Vol. III SOLAS 14 V/21.2

65. Examine echo-sounding device*

- Verify presence of echo-sounding device or other electronic means MODU 09/11.10.1
SOLAS 14 V/19.2.3.1
- Verify continuous recording of depth readings 33 CFR 164.35(i)

66. Examine electronic position fixing device*

- Verify presence MODU 09/11.10.1
SOLAS 14 V/19.2.1.6
- Verify operation SOLAS 14 V/19.2.1.6

67. Examine radar(s) and Automatic Radar Plotting Aid (ARPA)*

- Verify presence and type MODU 09/11.10.1
SOLAS 14 V/19.2.3.2, 19.2.7.1
- Witness operational test SOLAS 14 V/19.2.3.2
SOLAS 14 V/19.2.7.1
- Verify independent operation 33 CFR 164.37(a)
- Witness operational test of ARPA SOLAS 14 V/19.2.8.1

68. Examine compasses*
- Verify presence of illuminated magnetic compass MODU 09/11.10.1
SOLAS 14 V/19.2.1.1
 - Verify presence of gyrocompass and illuminated repeater(s) SOLAS 14 V/19.2.5.1 & .2
SOLAS 14 V/19.2.5.3
 - Verify presence of spare magnetic compass SOLAS 14 V/19.2.2.1
 - Verify presence of deviation table 33 CFR 164.35(c)
69. Examine Voyage Data Recorder (VDR)*
- Verify presence of VDR or simplified VDR (S-VDR) MODU 09/11.10.1; SOLAS 14
V/20
IMO Res A.861(20)
 - Examine Certificate of Compliance SOLAS 14 V/18.8
70. Examine Automatic Identification System (AIS)*
- Verify presence MODU 09/11.10.1
SOLAS 14 V/19.2.4
 - Witness operation SOLAS 14 V/19.2.4.7
IMO Res A.917(22)
71. Examine radiotelephone (VHF)*
- Verify installation MODU 09/11.3
SOLAS 14 IV/7.1
 - Verify digital selective calling (DSC) capability SOLAS 14 IV/7.2
 - Verify adequate independent illumination SOLAS 14 IV/6.2.4
 - Verify radio is clearly marked with call sign, ship station identity and other codes as applicable SOLAS 14 IV/6.2.5
 - Verify operation of lifeboat radios MODU 09/10.14.1
72. Examine Global Maritime Distress and Safety System (GMDSS) equipment*
- Verify appropriate equipment for assigned sea area(s) MODU 09/11.3
SOLAS 14 IV/8-11
 - Examine radio records SOLAS 14 IV/17
 - Verify emergency source of power SOLAS 14 IV/13
 - Verify stowage of Search and Rescue Transponder(s) (SART) SOLAS 14 IV/7.1.3
SOLAS 14 III/6.2.2

- Verify operation of NAVTEX SOLAS 14 IV/7.1.4
- Verify operation of INMARSAT ship earth station SOLAS 14 IV/7.1.5
IMO Res A.701(17)
- Verify installation of 406MHz EPIRB SOLAS 14 IV/7.1.6

73. Examine Long-Range Identification & Tracking (LRIT) equipment*
- Verify presence MODU 09/11.10.1
SOLAS 14 V/19-1 .4.1
 - Verify operation SOLAS 14 V/19-1 .5
IMO Res MSC.263(84) & IMO
MSC.1/Circ. 1307

74. Examine daylight signaling lamp*
- Verify operation MODU 09/11.10.1
SOLAS 14 V/19.2.2.2
 - Verify independent source of power SOLAS 14 V/19.2.2.2

General Health & Safety

75. Examine accommodations
- Verify berth arrangement and size ILO-147 pgs. 32 thru 35
 - Verify means of escape MODU 09/9.4
 - Verify ventilation ILO -147 pgs. 32 thru 35
 - Verify segregation from adjoining spaces ILO -147 pgs. 32 thru 35
 - Verify wash, toilet, shower and laundry facilities ILO -147 pgs. 36 thru 37
 - Verify housekeeping practices 33 CFR 146.205(c)
46 CFR 109.203(a)
76. Examine galley
- Verify sanitary conditions 33 CFR 146.205(c)
46 CFR 109.203(a)
 - Verify condition of vents and ducts MODU 09/9.3.15 thru .21
 - Witness function of galley serving window closures and doors MODU 09/9.2.9 & .10
 - Verify galley/adjacent spaces meet structural fire protection requirements MODU 09/Tables 9-1 & 9-2

77. Examine personal protective equipment and procedures

- Verify eye and face protection is available 33 CFR 142.27
- Verify head protection 33 CFR 142.30
- Verify foot protection 33 CFR 142.33
- Verify protective clothing 33 CFR 142.36
- Verify respiratory protection equipment available 33 CFR 142.39
- Verify safety belt or harness is available 33 CFR 142.42
- Verify personnel working in locations over water are wearing personal floatation device 33 CFR 142.45
- Verify eyewash equipment is available 33 CFR 142.48
- Verify condition of work space 33 CFR 142.84
- Verify personnel protection for openings in decks 33 CFR 142.87
- Verify lock out/tag out is being utilized 33 CFR 142.90

78. Examine hospital space

- Verify sanitary conditions 33 CFR 146.205(c)
46 CFR 109.203(a)
- Verify adequate number of berths ILO -147 pgs. 38 thru 39
- Verify hot and cold water ILO -147 pgs. 38 thru 39
- Ensure excess materials not stored ILO -147 pgs. 38 thru 39
- Verify water closet and bathroom ILO -147 pgs. 38 thru 39
- Verify alternative arrangements, if utilized ILO -147 pgs. 38 thru 39

79. Examine arrangements in machinery and working spaces

- Verify operation of ventilation closures MODU 09/9.15.1
- Verify operation of remote shutdowns MODU 09/9.15.2
- Verify fuel tank(s) shutoff valve operation MODU 09/9.15.3
- Verify communications MODU 09/7.7
- Verify clean and sanitary condition 33 CFR 146.205(c)
46 CFR 109.203(b)

- 80. Examine storage of gas cylinders
 - Verify permanent piping for oxyacetylene installation (when applicable) MODU 09/9.17.1.1
 - Examine gas cylinders carried in enclosed spaces (when applicable) MODU 09/9.17.1.2
MODU 09/9.17.1.3
 - Verify storage of cylinders MODU 09/9.17.1.2
MODU 09/9.17.1.6
 - Verify process for removal of gas cylinders MODU 09/9.17.1.4
 - Verify labeling/warning signs MODU 09/9.17.1.5

- 81. Examine hydrogen sulphide (sulfide) (H₂S) detection and alarm system
 - Verify areas monitored MODU 09/9.12.1
 - Verify operation of audible and visual indicators MODU 09/9.12.1
 - Verify automatic activation of helideck status light if not acknowledged MODU 09/9.12.1
 - Verify sufficient portable gas detectors MODU 09/9.12.2

- 82. Examine means of escape
 - Verify means of escape and confirm accessibility MODU 09/9.4.1.3
 - Verify emergency escape lighting arrangements MODU 09/5.4.6.1
 - Verify escape route is marked and illuminated MODU 09/9.4.1.4
 - Verify arrangement of machinery space escape ladders MODU 09/9.4.2
 - Verify Emergency Escape Breathing Devices (EEBDs) in escape routes MODU 09/9.6

 - Verify EEBDs are in serviceable condition MODU 09/9.6
FSS Code 3.2.2

- 83. Avoid inadvertent entry into a confined space
 - Determine confined space(s) 29 CFR 1915, Part B
MSM I/10 & App. A
 - Evaluate potential hazards MSM I/10 App. A, C, D, F & G

MSM II/G.1.J

- Mitigate potential hazards 29 CFR 1915, Part B
MSM II/G.1.J

84. Examine refrigerator and dry food stores*

- Verify adequate food for size of crew & intended voyage ILO-147 p30/2
COMDTINST 16711.12A 7(1)(f)
- Verify free of insects and/or rodents ILO-147 p39/1(b)
COMDTINST 16711.12A 7(1)(f)
- Verify operation of emergency escape alarm/device (refrigerators) ILO-147 p31/1(c)

85. Examine sanitation areas*

- Verify quantity of showers and toilets ILO-147 p36/18-20
COMDTINST 16711.12A 7(1)(d)
- Verify operation of toilets ILO-147 p37/21(f)
COMDTINST 16711.12A 7(1)(d)
- Verify hot and cold running water ILO-147 p37/21(c)
COMDTINST 16711.12A 7(1)(d)
- Verify lighting, heating and ventilation ILO-147 p37/21(b)
- Assess for unsanitary or hazardous conditions ILO-147 p44/3(a)
COMDTINST 16711.12A 7(1)(d)

Lifesaving Equipment

86. Examine general emergency systems

- Verify alarm activation points MODU 09/5.7.2
- Verify operational test of audible and visual general alarm signals MODU 09/5.7.2
IMO Res A.1021(26)
- Verify connection to emergency power source MODU 09/5.4.6.4.1
- Verify public address system is audible MODU 09/5.7.3
- Verify general alarm system tests MODU 09/10.18.7.4
MODU 09/14.16.2.6

87. Examine rescue boat

- Determine applicability^(b) 33 CFR 140.101
MODU 09/10.8-10.10
- Verify embarkation and launching arrangement MODU 09/10.10
- Verify stowage MODU 09/10.9

- Verify operating instructions are posted in the vicinity MODU 09/10.17
- Verify boat markings MODU 09/10.8
LSA 5.1.1.1 & 4.4.9
- Verify type approval data plate MODU 09/10.8
LSA 1.2.2.9
- Witness operation of engine MODU 09/10.18.7.2
- Verify required equipment and proper storage MODU 09/10.8
LSA 5.1.2
- Verify dedicated rescue boat is provided MODU 09/10.8
MSC.435(98)

88. Examine muster and embarkation stations

- Verify muster and embarkation stations arrangements MODU 09/10.4.1, .2, .5 & .6
- Verify arrangement to allow for stretcher accessibility into survival craft before launching MODU 09/10.4.5
- Verify davit-launched liferaft embarkation stations arrangements (if installed) MODU 09/10.6.2 & 10.6.6
- Verify emergency lighting configuration and operation MODU 09/5.4.6.1.1
MODU 09/10.4.3 & .7
- Witness emergency lighting testing MODU 09/10.18.8

89. Examine fixed metal ladders

- Verify locations and accessibility to waterline MODU 09/10.4.7
- Verify ladders and sea areas are illuminated by emergency lighting MODU 09/10.4.7
- Verify alternative means of escape to waterline (if fixed ladders are not installed) MODU 09/10.4.8

90. Examine inflatable liferafts and davit-launched liferaft arrangements

- Verify type approval MODU 09/10.1.2
- Verify liferaft capacity requirements MODU 09/10.3.2, .3, .5 & .6
- Verify stowage MODU 09/10.6
MODU 09/10.3.3 & 10.4.5
- Evaluate launching arrangements MODU 09/10.6.2, .6 & .7
- Verify launching illustrations and MODU 09/10.17

- instructions posted
- Verify container markings MODU 09/10.3
LSA 4.2.6.3
- Verify identification/maintenance cards are accurate MODU 09/10.1.4 & 10.3
SOLAS III/31.1.1.2

91. Examine lifeboats

- Verify type approval MODU 09/10.1.2, 3.1
MODU 09/10.3.4
- Verify stowage MODU 09/10.6
- Determine rated capacity from data plate MODU 09/10.1.2
LSA Code 4.4.1.2 & 4.4.2.2
- Verify required exterior markings MODU 09/10.3.1 & .4
LSA 1.2.2.7 & 4.4.9
- Examine release gear MODU 09/10.7.1, .3 &
10.18.12.2
LSA Code 4.4.7.6.1 thru .15 &
.17
- Verify required equipment is present MODU 09/10.6.1.4
LSA Code 4.4.8
- Witness operation of engine MODU 09/10.18.1 & 10.18.7.2
- Verify sprinkler system components and operation MODU 09/10.3.1 & .4
LSA Code 10/4.9
- Verify self-contained air system components and operation MODU 09/10.3.1 & 10.3.4
LSA Code 10/4.8
- Verify instructions inside for release gear MODU 09/10.17
LSA 4.4.7.6.3, .5 & .6
- Verify fire protection components and operations MODU 09/10.1.5
MODU 09/10.18.1
- If lifeboat is dual-service designated as a rescue boat, verify additional required equipment^(b) MODU 09/10.8
LSA 5.1.2

92. Examine boat davits

- Examine condition of davit(s) and associated components MODU 09/10.18.1
- Verify survival craft launching arrangement MODU 09/10.7.1, 7.10 thru .12
LSA Code 6.1.1.1 thru 6.1.2.13
- Verify davit operator has unobstructed view during launching and recovery operations MODU 09/10.7.2
LSA Code 6.1.22
- Verify falls are of adequate length for survival craft to reach water MODU 09/10.7.5

- Verify approval markings and labeling are present MODU 09/10.7.1
LSA Code 1.2.2.9
 - Verify conditions of falls, lay/spooling onto winch drum and that boat is hanging evenly in davit MODU 09/10.7.1
LSA Code 6.1.2.4
 - Witness operational test of limit switches MODU 09/10.7.1
LSA Code 6.1.2.7
 - Verify retrieval speed is satisfactory for lifeboats designated as rescue boat MODU 09/10.7.1
LSA Code 6.1.1.9
 - Verify operating instructions posted MODU 09/10.17
93. Examine life jackets*
- Verify quantity MODU 09/10.11.1
 - Verify approvals MODU 09/10.11.1
LSA Code 1.2.2.9; 2.2.1; 2.2.2
 - Verify light MODU 09/10.11.2
LSA Code 2.2.3
 - Verify whistle LSA Code 2.2.1.14
 - Verify retro-reflective tape LSA Code 1.2.7
IMO Res A.658(16)
 - Verify stowage MODU 09/10.11.1
94. Examine immersion suits and stowage (when applicable)*
- Verify quantity MODU 09/10.12
 - Verify approvals MODU 09/10.12.1 or .2
LSA Code 1.2.2.9; 2.3; 2.4
 - Verify stowage MODU 09/10.12.1.1 & .2
95. Examine line throwing appliance*
- Verify presence MODU 09/10.16
LSA Code 7.1.1.2 & .3
 - Examine instructions or diagrams illustrating use LSA Code 7.1.1.4
 - Verify age of pyrotechnics MODU 09/10.18.1 & .6
LSA Code 1.2.3
 - Verify stowage LSA Code 7.1.2
96. Examine pyrotechnics*
- Verify number MODU 09/10.15
 - Verify stowage MODU 09/10.15
 - Verify condition/serviceability MODU 09/10.18.1 & .6

- 97. Examine quick-release life buoys*
 - Verify number and location MODU 09/10.13
 - Verify size LSA Code 2.1.1.7
 - Verify presence of self-igniting lights MODU 09/10.13.2
LSA Code 2.1.2
 - Verify condition/serviceability of self-activating smoke signals MODU 09/10.13.2
LSA Code 1.2.3; 2.1.3

- 98. Examine life buoys*
 - Verify type approval MODU 09/10.13.1
LSA Code 1.2.2.9
 - Verify quantity MODU 09/10.13.1
 - Verify stowage MODU 09/10.13.1
 - Verify markings MODU 09/10.13.4
 - Examine attachments and fittings MODU 09/10.13.2
MODU 09/10.13.3
 - Verify size/weight MODU 09/10.13.1
LSA Code 2.1.1

Firefighting Systems

- 99. Examine areas for compliance with Structural Fire Protection (SFP) requirements
 - Determine structural fire protection needed MODU 09/Table 9.1 & .2
 - Verify SFP boundaries with fire control plan MODU 09/9.18
SOLAS 14 II-2/15.2.4
 - Verify SFP is as built or per approved modifications MODU 09/9.2
SOLAS 14 II-2/5.3 & 6
 - Evaluate fire door(s) operation MODU 09/9.2.9 & .10
 - Verify multi-cable transits (MCT's) are compatible with fire boundary MODU 09/9.2.3 & .4
MODU 09/9.3.2
 - Verify ventilation closures are compatible with fire boundary MODU 09/9.2.3
MODU 09/9.3.13 thru .20
 - Verify pipes/standoffs are compatible with fire boundary MODU 09/9.2.3 & .4
FTP Ann 1 Pt 3 App 2/AIII.1
 - Verify no unapproved space modification(s) that would affect space categorization MODU 09/9.2.5
MODU 09/Table 9.1 & .2

- 100. Examine fixed fire detection and alarm system

- Verify operation MODU 09/9.5 & .10
FSS Code 9.2.1, .3, .4 & 9.2.5.1
- Verify power sources MODU 09/9.5
FSS Code 9.2.2

101.Examine flammable gas and alarm system(s)

- Verify areas monitored MODU 09/9.11.1
- Verify operation of audible and visual indicators MODU 09/9.11.1
- Verify sufficient portable gas detectors MODU 09/9.11.2

102.Examine apparatus for recharging air cylinders

- Verify compressor is located in suitable location MODU 09/ 9.14.2 & .6
- Verify compressor's emergency power source/independent prime mover MODU 09/9.14.1
- Verify air intake location and filtration MODU 09/9.14.3
MODU 09/9.14.4
- Verify recharging capacity MODU 09/9.14.5

103.Examine fire main system(s)

- Verify number of pumps MODU 09/9.7.1
- Verify location(s) MODU 09/9.7.3 & .6
- Verify remote start operation MODU 09/9.7.6
- Verify pressure MODU 09/9.7.5
- Verify relief valve installation MODU 09/9.7.9
- Verify fire station arrangements MODU 09/9.7.19 thru .23
- Verify no connections other than ones necessary for fire fighting MODU 09/9.7.15
- Verify connection arrangements for pumps allowed to be used for other purposes MODU 09/9.7.7
- Verify presence of international shore connection, as applicable MODU 09/9.7.23

104.Examine deluge system

- Confirm voluntary installation locations MODU 09/9.8.1^(c)
- Confirm alternative arrangement MODU 09/9.8.1^(c)

- (when applicable)
- Verify drill floor has adequate coverage for area MODU 09/9.8.1^(c)
 - Verify condition of nozzles and piping MODU 09/9.8.3^(c) & 9.19.2
 - Verify access to system activation points MODU 09/9.8.2^(c)
 - Verify protection of components MODU 09/9.8.1^(c)
 - Verify on Fire Control Plan MODU 09/9.9.18^(c)
- 105.Examine fire-fighter's outfits*
- Verify storage location consistent with Fire Control Plan MODU 09/9.13.3
MODU 09/9.18
 - Verify quantity MODU 09/9.13
 - Verify condition of personal equipment MODU 09/9.19.3.2
FSS Code 3.2.1.1
 - Verify condition of breathing apparatus MODU 09/9.19.3.2
FSS Code 3.2.1.2
 - Verify condition of lifeline MODU 09/9.19.3.2
FSS Code 3.2.1.3
 - Verify presence of spare charges MODU 09/9.13.2
- 106.Examine portable fire extinguishers*
- Verify locations consistent with Fire Control Plan MODU 09/9.9; 9.18
 - Verify stowage MODU 09/9.9.1 & .2
SOLAS 14 II-2/10.3.2
 - Verify condition of extinguishers MODU 09/9.5; 9.19.3.2
FSS Code 4.2
 - Verify presence of spare charges MODU 09/9.9.1
SOLAS 14 II-2/10.3.3
- 107.Examine Fire Control Plan*
- Verify currency of plan(s) or booklets MODU 09/9.18
SOLAS 14 II-2/15.2.4.1
 - Verify plan or booklet is in required languages SOLAS 14 II-2/15.2.4.1
 - Verify content of plan(s) or booklet SOLAS 14 II-2/15.2.4.1
 - Verify stowage of duplicate set of plan(s) SOLAS 14 II-2/15.2.4.2

- 108.Examine fixed fire detection and alarm systems*
- Verify operation MODU 09/9.19.1 thru .3
MODU 09/9.5
 - Verify power sources FSS Code 9.2.2
MODU 09/5.4.6.4.2
 - Verify operation of alarms FSS Code 9.2.5.1
 - Verify operation of manually operated call points MODU 09/9.10.2
MODU 09/9.19.3.1.2
 - Verify periodic testing MODU 09/9.19.4.3.2
FSS Code 9.2.5.2
- 109.Examine the fixed pressure water-spraying and water mist fire extinguishing systems*
- Verify the fixed system is arranged as indicated on fire control and/or general arrangement plan(s) MODU 09/9.8; 9.18
SOLAS 14 II-2/10.4.1.3
 - Verify sprinkler pump arrangement for automatic activation MODU 09/9.19.3.2
FSS Code 8.2.3.3
- 110.Examine fixed high pressure CO2 system*
- Verify system is arranged as indicated in fire control and/or general arrangement plan MODU 09/9.8; 9.18
SOLAS 14 II-2/10.4.1.1
 - 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 14 II-2/10.4.2
 - Verify storage room arrangements SOLAS 14 II-2/10.4.3
 - Evaluate testing and inspection procedures MODU 09/9.19.4.1; .4.3.3
IMO MSC.1/Circ. 1318
- 111.Examine low pressure CO2 fixed fire fighting system*
- Verify system is arranged as indicated in fire control and/or general arrangement plan(s) MODU 09/9.8; 9.18
SOLAS 14 II-2/10.4.1.1
 - 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 14 II-2/10.4.2

- Verify storage room arrangements SOLAS 14 II-2/10.4.3
FSS Code 5.2.2.4.1
- Evaluate testing and inspection procedures MODU 09/9.19.4.1; .4.3.3
IMO MSC.1/Circ. 1318
- Verify alarms and indicators FSS Code 5.2.2.4.3
FSS Code 5.2.2.4.11 & .12
- Verify safety relief valves FSS Code 5.2.2.4.3 & .4
FSS Code 5.2.2.4.10

112. Examine fixed high-expansion foam fire extinguishing system*

- Verify system is arranged as indicated in the fire control and/or general arrangement plan(s) MODU 09/9.8; 9.18
SOLAS 14 II-2/10.4.1.2
- Verify quantity and performance of foam concentrates FSS Code 3.1 thru 3.3
IMO MSC/Circ.670

Dynamic Positioning Systems

113. Examine operational capabilities of Dynamic Positioning (DP) systems

- Determine equipment class MODU 09/4.13
IMO MSC/Circ. 645 2
- Verify Well Specific Operating Guidelines (WSOGs) IMO MSC/Circ. 1580 4.1
- Verify records of DP incidents IMO MSC/Circ. 645 5.1.1.4
IMO MSC/Circ. 1580 5.1.1.4
- Verify presence of DP operating manual MODU 09/14.1.3.13
IMO MSC/Circ. 645 4
- Verify initial, periodic and annual survey(s) IMO MSC/Circ. 645 5.1
IMO MSC/Circ. 1580 5.1
- Verify tests after modifications and non-conformities IMO MSC/Circ. 645 5.1.1.4
IMO MSC/Circ. 1580 5.1.1.4
- Verify Class Approved Failure Modes and Effects Analysis (FMEA) IMO MSC/Circ. 645 5.1
IMO MSC/Circ. 1580 5.1

114. Examine DP's power management system

- Conduct meeting on test procedures IMO MSC/Circ. 645 4.4
IMO MSC/Circ. 1580 4.6
- Verify power available in accordance with WSOG and CAMO modes IMO MSC/Circ. 645 3.2.5
IMO MSC/Circ. 1580 3.2.5
- Witness bus-tie breakers separate automatically and standby generator comes on line (when not MODU 09/4.13
IMO MSC/Circ. 645 3.2.3 & .4

- latched up)
 - Verify system meets stated classification MODU 09/4.3
IMO MSC/Circ. 645 3.2
- 115.Examine DP's thruster system(s)
- Conduct meeting on test procedures
 - Verify system meets stated classification MODU 09/4.13
IMO MSC/Circ. 645 2.2
 - Confirm thrusters are station keeping IAW WSOG IMO MSC/Circ. 645 3.3.1
 - Witness standby thruster(s) automatically come on line IMO MSC/Circ. 645 3.3.2
 - Verify thruster(s) not in operation are at zero pitch and speed IMO MSC/Circ. 645 3.3.4
 - Verify manual thruster controls MODU 09/4.13
IMO MSC/Circ. 645 3.4.1.7
- 116.Examine DP's control systems
- Witness automatic transfer of operational control to redundant control system IMO MSC/Circ. 645 3.1.4
IMO MSC/Circ. 1580 3.1.4
 - Verify audible and visual alarms MODU 09/4.13
IMO MSC/Circ. 645 3.4.1.5
 - Review alarms records MODU 09/4.13
IMO MSC/Circ. 645 3.4.1.5
 - Verify arrangements to prevent failures from transferring from one system to another MODU 09/4.13
IMO MSC/Circ. 645 3.4.2.5 & 3.4.1.6
 - Verify operation of uninterruptive power supply MODU 09/4.13
IMO MSC/Circ. 645 3.4.2.7
 - Identify vessel position reference systems and sensors MODU 09/4.13
IMO MSC/Circ. 645 3.4.3 thru 3.4.4
 - Witness operation of loss of position reference system and sensor alarms MODU 09/4.13
IMO MSC/Circ. 645 3.4.3-3.4.4

Heli-Deck

- 117.Examine helideck
- Examine operation and arrangement of helicopter deck lights MODU 09/13.5.20
MODU 09/13.5.22 thru 26

- Examine periphery netting arrangement and condition MODU 09/13.4.2
- Verify deck markings MODU 09/13.5.5 thru .19
- Verify deck is free of obstructions MODU 09/13.3.2.2 & 13.3.3.2
- Verify condition and accessibility of main and emergency personnel access route MODU 09/13.4.3 & 9.16.3
- Verify structural fire protection requirements MODU 09/9.16.2
- Verify wind indicator MODU 09/13.5.1 thru .4
- Verify skid-resistant surface MODU 09/13.3.4
- Verify operation of H₂S warning light MODU 09/13.5.26

118.Examine helideck fire fighting systems

- Verify dry powder extinguishers MODU 09/9.16.4.1
- Verify CO₂ extinguishers MODU 09/9.16.4.2
- Verify foam is appropriate type MODU 09/9.16.4.4
- Verify CO₂ foam extinguishing system MODU 09/9.16.4.3
- Verify additional fire-fighting outfits MODU 09/9.16.4.6
- Verify additional equipment required MODU 09/9.16.4.7
- Verify condition of drainage MODU 09/9.16.5

119.Examine refueling station (if equipped)

- Inspect portable fuel storage tank(s) MODU 09/9.16.6.3 & .4
- Verify tank(s) are remote as practical MODU 09/9.16.6.1.1
- Verify tank(s) are isolated from ignition source(s) MODU 09/9.16.6.1.2
- Verify tank area(s) have containment MODU 09/9.16.6.2
- Verify emergency shutdown(s) MODU 09/9.16.6.5
- Verify unit is outfitted with grounding device MODU 09/9.16.6.9
- Verify pumping unit over pressurization device MODU 09/9.16.6.8
- Verify signs posted MODU 09/9.16.6.10

Machinery

- 120. Examine bilge pumps installation, piping, and valves
 - Examine bilge system components MODU 09/4.9.1
MODU 09/4.9.3
 - Verify system arrangement(s) MODU 09/4.9.1
including flooding protection MODU 09/4.9.8.1
 - Verify valve indicators MODU 09/4.9.6
MODU 09/3.6.2
 - Witness operation of alarms MODU 09/8.4

- 121. Examine ballast pumps installation, piping and valves
 - Verify pump local/remote arrangement(s) MODU 09/4.10.11 & .12
 - Verify emergency power requirements MODU 09/4.10.6
MODU 09/5.4.6.7
 - Verify local/remote valve operation MODU 09/4.10.13
 - Verify piping material and condition MODU 09/4.10.7
 - Verify Ballast Control Station arrangements MODU 09/4.10.10
 - Verify marking(s) of components MODU 09/4.10.8
 - Verify tank level indicator(s) and draft reading operation MODU 09/4.10.14 & .15

- 122. Examine oil/fuel service and transfer system(s)
 - Verify condition MODU 09/4.8.4
 - Verify arrangement of system(s) MODU 09/4.8.1 - .3
MODU 09/4.8.6
 - Verify condition of tank vent(s) MODU 09/4.8.5
 - Verify arrangement of pressurized fuel piping MODU 09/4.8.7
MODU 09/8.3.1
 - Verify means to prevent overflow spillage MODU 09/8.3.2
 - Verify high temperature alarm MODU 09/8.3.3
 - Witness test of remote operated valve(s) MODU 09/9.15.3
 - Verify transfer procedures are posted or available MODU 09/14.1.3.6
 - Verify flange or mechanical joints are fitted with a suitable shield MODU 09/4.1.1
 - Inspect nonmetallic flexible hoses MODU 09/4.8.4

and fittings

- Verify operation of transfer pumps and remote shutdowns MODU 09/9.15.2

123.Examine Unfired Pressure Vessels (UPVs)

- Determine applicability MSM II/G.3.G.4
MOA OCS-08 Annex 1/22.J
- Verify arrangement of Pressure Relief Valve(s) (PRV) MODU 09/4.3.4
MODU 09/4.7.1
- Verify marking(s) of PRV MSM II/G.3.G.4
MODU 09/2.1.3 > Class Rules
- Verify arrangement of UPV MODU 09/4.3.2
MSM II/G.3.G.4
- Verify marking(s) of UPV MSM II/G.3.G.4
ASME VIII/UG-118 thru 119
- Examine external condition of UPV MSM II/G.3.G.4
MODU 09/2.1.3 > Class Rules

124.Examine steering gear assembly and operation

- Examine condition of steering gear system MODU 09/1.6.2.2
- Verify automatic start after power failure MODU 09/7.5.5
- Verify accuracy of rudder angle indicator MODU 09/7.5.16
- Verify non-conventional rudder arrangements (thrusters) MODU 09/7.5.18
- Verify running indication for motors MODU 09/7.6.1
- Verify operation of means of communications MODU 09/7.5.14
- Witness functional system tests MODU 09/7.5.3
MODU 09/7.5.7

125.Examine main service and propulsion generator(s) and prime mover(s)

- Verify condition of components MODU 09/4.1.3
IMO MSC/Circ. 834
- Verify installation of machinery covers and guards MODU 09/4.1.3
- Verify required gauges MODU 09/4.1
- Verify set point and operation of over speed shut-down MODU 09/4.3.3 & .8.9
- Verify set point and operation of low lube oil pressure shut-down MODU 09/4.3.7 & .8.9

- Verify set point and operation of high jacket water temperature alarm MODU 09/4.3.7 & .8.9
- Verify operation of reverse power relays MODU 09/5.3.7.2
- Verify means to bring vessel into operation from a dead ship condition MODU 09/4.3.9
- Verify manual override activation indicators MODU 09/4.6.2

126.Examine emergency generator(s) and prime mover(s)

- Determine requirement MODU 09/5.4
- Examine condition of components MODU 09/4.1.3
IMO MSC/Circ. 834
- Verify installation of machinery covers and guards MODU 09/4.1.3
IMO MSC/Circ. 834
- Verify starting system(s) MODU 09/5.5
- Verify two starting resources MODU 09/5.5.2
- Verify operation of auto-start function MODU 09/5.4.8
- Verify required gauges MODU 09/2.1.3
IMO Res A.1021(26)
- Verify operation of remote fuel shutoff valve MODU 09/9.15.3
- Verify set point and operation of over speed shut-down MODU 09/2.1.3 & 4.3.7
IMO Res A.1021(26)
- Verify set point and operation of lube oil pressure shut-down MODU 09/2.1.3 & 4.3.7
- Verify set point and operation of high jacket water temperature alarm MODU 09/4.3.7

127.Examine transfer procedures (when applicable)*

- 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

Electrical Systems

128.Examine switchboards

- Verify openings and accesses in MODU 09/5.6.3 & .5

- switchboard are guarded IEC 60529
- Verify non-conductive mats or gratings MODU 09/5.6.5
- Verify condition of meters, controls, and gauges MODU 09/5.7.1
- Verify markings MODU 09/5.6.14
- Verify equipment for parallel operation MODU 09/5.3.7
- Verify ground detection MODU 09/5.6.7
- Verify rear access control MODU 09/5.6.5
- Verify drip shields present MODU 09/2.1.3
Class Society Rules

129. Examine motor controllers

- Verify condition of enclosure MODU 09/5.1.1.4
- Verify markings MODU 09/5.6.14
- Verify drip-proof/watertight MODU 09/5.6.21 & 2.1.3
IEC 60529

130. Examine controls and alarms for unattended machinery spaces (when applicable)

- Verify administration approved documentation MODU 09/8.2.5
- Witness fire detection system alarms MODU 09/9.10.3.1
- Verify engineer's alarm is operational MODU 09/8.7.1.2
- Verify malfunction of any machinery or boiler operations initiates automatic shutdown MODU 09/8.9
- Verify operation of Oil Mist Detection system MODU 09/8.3.7

131. Examine hazardous location plan

- Verify presence of plan MODU 09/14.1.2.15
- Verify plan approval MODU 09/14.1
MSM II/G.3.F
- Verify plan identifies all hazardous areas MODU 09/6.1 thru 6.3

132. Examine intrinsically safe electrical equipment in hazardous locations

- Verify components/equipment are approved MODU 09/6.6.3
IEC 60079-14 & -25

- Verify intrinsically safe components (cables, boxes, etc.) are separated from non-intrinsically safe equipment MODU 09/6.6.3
IEC 60079-14/12.1
- Verify equipment labeling MODU 09/6.6.3
IEC 60079-14/5
- Verify equipment has approved control drawings MODU 09/6.6.3
IEC 60079-14/4.2 & 12.2.5.1

133. Examine non-intrinsically safe electrical equipment in hazardous locations

- Verify installed equipment is listed, certified or purged MODU 09/6.6
- Confirm equipment as marked is acceptable for location installed (Zone or Division) MODU 09/6.6
IEC 60079-14/5
- Verify equipment has appropriate surface temperature class for gases or vapors that could be encountered in that space MODU 09/6.6
IEC 60079-14/5.6
- Verify wiring method MODU 09/6.6
IEC 60079-14/9
- Verify all cable entries are approved MODU 09/6.6
IEC 60079-14/9.4
- Verify equipment is protected against water and particulate ingress MODU 09/6.6
IEC 60079-14/11.1, 14.2
- Verify arrangement for purged and pressurized equipment MODU 09/6.6
IEC 60079-14/13
- Verify no obstructions around flameproof enclosures MODU 09/6.6
IEC 60079-14/10
- Verify fans for ventilation are non-sparking type MODU 09/6.6
IEC 60079-14/6

134. Examine machinery in hazardous areas

- Identify hazardous locations MODU 09/6.2
- Verify machinery is approved MODU 09/6.7.3
- Verify fire equipment is approved MODU 09/6.7.4

135. Examine openings, access and ventilation conditions in hazardous areas

- Verify arrangement of hazardous area openings MODU 09/6.3
- Verify arrangements for ventilation MODU 09/6.4
- Examine condition of boundaries MODU 09/6.3

- Verify alarms MODU 09/6.3.1.3, 2.3 & 3.3

136.Examine rig emergency shutdown(s)

- Verify location(s) of activation points MODU 09/6.5.3
- Verify arrangements to prevent inadvertent activation MODU 09/6.5.4

Structural & Watertight Integrity

137.Examine general condition of hull and structural members

- Examine condition of ladderways, guardrails, fire mains, piping, hatch covers & watertight/weathertight closures MODU 09/1.6.2.1 thru .4
MODU 09/3.7
- Evaluate hull strength and integrity MODU 09/2.1.3
ICLL 66 Annex I/12

138.Examine internal watertight bulkheads and doors/closures

- Assess condition of components MODU 09/3.6.5 & 3.6.3
- Assess condition of ventilator closures MODU 09/3.6.1
- Verify quick-acting type doors local/remote alarms (when applicable) MODU Code 3.6.5.2
- Verify local/remote operation of power operated watertight door opening and closing controls MODU 09/3.6.5.1 & .3
SOLAS 04/25-9.2
- Verify local/remote operation of audible and visual alarm/indicators MODU 09/3.6.5.3
SOLAS 04/25-9.2

139.Examine external watertight integrity

- Ensure all penetrations are watertight MODU 09/3.6.1
- Verify down-flooding openings have watertight closures MODU 09/3.6.7
MODU 09/3.7.2
- Evaluate condition of watertight door(s) and hatches MODU 09/3.6.3
MODU 09/3.7.2

Pollution Prevention

140.Examine Oily Water Separator (OWS) and bilge monitor/alarm (OCM)*

- Verify type of oily water separator MARPOL I/14

- | | | |
|--------------------------|---|---|
| | and bilge monitor/alarm
(MEPC.107(49) or MEPC.60(33)) | G-PCV Policy Ltr 06-01 |
| • | Witness operational test of oil
filtering equipment | MARPOL I/14.6 & .7
MSM II/D.1.G.1.p(3) |
| • | Review records | MSM II/D.1.G.1.p(1)
G-MOC Policy Ltr 04-13 |
| • | Verify OCM is sealed | MSM II/D.1.G.1.p(3)
MEPC.107(49) |
| • | Verify OCM is calibrated | MSM II/D.1.G.1.p(3)
G-MOC Policy Ltr 04-13 |
| • | Verify bilge alarm activation
(MEPC.107(49)) | MSM II/D.1.G.1.p(3)
G-PCV Policy Ltr 06-01 |
| • | Verify no dilution of processed oily
water sample in line to OCM | MSM II/D.1.G.1.p(3)
G-PCV Policy Ltr 06-01 |
| • | Verify presence of consumables
IAW manufacturer's instructions | MSM II/D.1.G.1.p(3) |
| • | Verify OCM activates overboard
discharge valve | MSM II/D.1.G.1.p(3) |
| <input type="checkbox"/> | 141.Examine Marine Sanitation Device (MSD)* | |
| • | Verify type approval | 33 CFR 159.7
MARPOL IV/9 |
| • | Verify labeling | 33 CFR 159.55
33 CFR 159.59 |
| • | Assess condition/operability | MSM II/D.1.G.1.p(5) |
| <input type="checkbox"/> | 142.Examine incinerator* | |
| • | Verify approval | MARPOL Annex VI/16.6.1
IMO Res MEPC.76(40) |
| • | Verify presence of manufacturer's
operating manual | MARPOL Annex VI/16.7 |
| • | Verify operating personnel training | MARPOL Annex VI/16.8 |
| • | Verify operation of fixed local fire
extinguishing system | SOLAS 14 II-2/10.5.6.3.3 |
| <input type="checkbox"/> | 143.Examine standard discharge connection* | |
| • | Verify presence | 33 CFR 155.430
MARPOL I/13 |
| • | Verify condition | 33 CFR 155.430 |

Topside Equipment

- 144.Examine paint lockers*

- Evaluate stowage of flammable and hazardous material 46 CFR 147.45
- Verify fire protection equipment provided for space 46 CFR 147.65
SOLAS 14 II-2/10.6.3
- Verify intrinsically safe electrical installations MODU 09/6.2.1
MODU 09/6.6

Cargo Systems

145. Examine portable tanks

- Determine applicability 33 CFR 146.205
46 CFR 109.557
- Verify DOT labeling/placards 46 CFR 109.557
49 CFR 172.326
- Verify additional firefighting equipment 46 CFR 109.557
46 CFR 98.30-37
- Verify stowage and segregation 46 CFR 109.557
46 CFR 98.30-9

146. Examine crane(s)

- Examine components MODU 09/12.1.1 & 12.1.10.7
- Verify controls are marked MODU 09/12.1.1
- Verify instruments have lighting MODU 09/12.1.1
- Verify correct load chart for configuration in use MODU 09/12.1.7
- Verify alarms MODU 09/12.1.8 & .10.3
- Verify crane book/manual MODU 09/12.1.10
- Verify boom angle indicator MODU 09/12.1.8

Emergency Drills

147. Evaluate fire drill

- Witness firefighting drill procedures and crew perform assigned duties MODU 09/14.13.2
- Verify crew's ability to organize into an effective team to respond to an emergency MODU 09/14.10.1 & .2
- Verify effective communication between crew on scene and master in command center MODU 09/14.13.2
IMO Res A. 1079(28) App 1/1.3.5
- Witness debrief of drill MODU 09/14.13.2
IMO Res A. 1079(28)
- Evaluate crew's knowledge for MODU 09/14.2.3

responding to helideck incidents

- 148. Evaluate abandonment drill
 - Witness abandonment drill procedures and crew perform assigned duties MODU 09/14.13.2
 - Witness crew's competency to deploy and launch different lifeboats MODU 09/14.13.4 & .15
 - Verify crew is proficient at donning lifejackets MODU 09/14.13.4.1
 - Witness a debrief of drill MODU 09/14.13.2
IMO Res (A).1079(28) 1.4.6

- 149. Evaluate man overboard drill
 - Verify man overboard drills are conducted MODU 09/14.13.1^(d)
 - Witness launching, operation, and maneuvering of rescue boat MODU 09/14.13.5

Follow-Up

- 150. Verify Compliance with International Safety Management (ISM) Code
 - Determine clear grounds to initiate expanded exam SOLAS 14 IX/2.1.3
ISM Code 6.2
 - Verify crew familiarity with vessel's Safety Management System (SMS) ISM Code 6.1
 - Verify company responsibilities and authority are clearly defined ISM Code 3
 - Verify record keeping compliance ISM Code 11
 - Verify maintenance requirements ISM Code 10
 - Verify training requirements are IAW SMS ISM Code 6.3 & .4
 - Review audit documentation and ensure follow-up actions completed/in-process ISM Code 1.4.6 & 9.2

- 151. Issue deficiencies
 - Identify deficiencies MSM II/D.1.C.8
 - Discuss deficiencies and corrective measures/timeframe with vessel's master or representative MSM II/D.2.C
 - Document deficiencies MSM II/G.3.N.9

	<ul style="list-style-type: none"> • Sign forms (examiner & vessel's representative) • Issue documents to foreign flagged 	<p>CG-3585 MSM II/G.3.N.9 CG-3585</p> <p>MSM II/G.3.N.9 CG-3585</p>
<input type="checkbox"/>	152. Issue control action(s)	
	<ul style="list-style-type: none"> • Determine if suspension/non-issuance of COI/COC is warranted • Determine control action • Determine impact to drilling operations • Evaluate potential well control hazards 	<p>MODU 09/1.7.3 MSM II/G.3.L</p> <p>MODU 09/1.7.3 MODU 09/1.7.6</p> <p>BSEE/USCG MOA</p> <p>BSEE/USCG MOA</p>
	<ul style="list-style-type: none"> • Consult with OCMI and BSEE District to determine appropriate point to interrupt drilling operations • Explain control action(s) to responsible parties/stakeholders • Issue control action(s) 	<p>BSEE/USCG MOA</p> <p>MODU 09/1.7 BSEE/USCG MOA</p> <p>MODU 09/1.7.3 MMS Work Instruction</p>
<input type="checkbox"/>	153. Verify deficiency corrections	
	<ul style="list-style-type: none"> • Verify corrected deficiencies • Remove control action (when applicable) • Clear deficiency in Misl activity 	<p>MSM II/D.1.G.3.f CG-3585</p> <p>CG-3585 CG-5437A/B</p> <p>MSM II/A.2.C.2.d MMS Work Instruction</p>
<input type="checkbox"/>	154. Issue/endorse certificates	
	<ul style="list-style-type: none"> • Issue/endorse COI/COC • Obtain copy of endorsed certificates for foerieg units 	<p>MSM II/G.3.A.2.e CG-3585</p> <p>MSM II/G.3.N.9 CG-3585</p>
<input type="checkbox"/>	155. Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity	
	<ul style="list-style-type: none"> • Update examination results with deficiencies issued on CG 835V/Form B 	<p>CG-3585 MMS Work Instruction</p>

- Update activity narrative and special notes (as necessary) MMS Work Instruction
- Update details MMS Work Instruction
- Ensure unfired pressure vessel internal exam and relief valve test dates are documented in MISLE MSM II/G.3.G.4
- Update documents MMS Work Instruction
- Change status to "Open-Submitted for Review" MMS Work Instruction

Section 4: Drill Record Sheets

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	

MODU 09/14.13.2

Location: _____ Time on Scene: _____

Notes: _____

Abandonment 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

MODU 09/14.13.2

Location: _____ Time to Water: _____

Notes: _____

Man Overboard Drill:

Familiarity with duties

Boat launch

Boat release

Boat operation

Crew equipment

Boat equipment

MODU 09/14.13.1^(d)

Location: _____ Time to Water: _____

Notes: _____

Section 5: Appendices

Confined Space Entry Checklist

Sources for Policy

- COMDTINST M5100.47, Chapter 6, change 11
- MSM Vol. 1, Chapter 10 & Appendix A, C, D to chap. 10
- MSM Vol. 2 Ch. 1, Section D, Chapter 6
- 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 OCMI may designate a USCG Competent Person to certify a confined space “Safe for Workers”

Examples (not limited to) of confined spaces:

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)	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)**

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

<u>Non-confined spaces that may pose a risk (All vessel types)</u>	<u>Possible Hazard(s)</u>	<u>Safe Work Practice</u>
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
Bos'n Shop	O ₂ deprivation	Ensure proper ventilation
Workshops	Toxicity from welding fumes, Flammability, Noise	Ensure proper ventilation
Compressor Rooms ⁽¹⁾	O ₂ deprivation, Flammability	See Note 1
Provisions/Non-Flammable Storage	O ₂ deprivation	Ensure proper ventilation
Open Cargo Deck	Flammability	Ensure use of intrinsically safe radios, flashlight, phone, etc.

1) Space is monitored every thirty minutes by gas detection system. Enter these spaces after ensuring these are safe for entry and after ensuring the gas detection system is calibrated and functioning properly and gas levels detected are safe for entry. A marine chemist certificate is not required prior to entry.

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).

Primary Lifesaving Applicability

Option "C"

Keel laid on/after
31Dec1981, prior
to 01May1991
'79 MODU 10.1

100% Fire-Protected Lifeboats



100% Liferrafts



Keel laid on/after
01May1991, prior
to 01Jan2012
'89 MODU 10.2

*Typical arrgmt equates to 200% LBs; non ship-shape may meet req w/150% LBs.

100% Fire-Protected Lifeboats (on each side or widely separated areas)



100% Float-Free Liferrafts (200% for surface units if not readily transferred side-to-side)



SEU Alternative, w/ Administration acceptance

100% Fire-Protected Lifeboats (widely separated)



100% Davit-Launched Liferrafts (counted as req'd rafts if arranged for float-free launch)



Keel laid on/after
01Jan2012
'09 MODU 10.3

*Typical arrgmt equates to 200% LBs; non ship-shape may meet req w/150% LBs.

100% Fire-Protected Lifeboats (on each side or widely separated areas)



100% Float-Free Liferrafts (200% for surface units if not readily transferred side-to-side)



SEU Alternative, w/ Administration acceptance

100% Fire-Protected Lifeboats (widely separated)

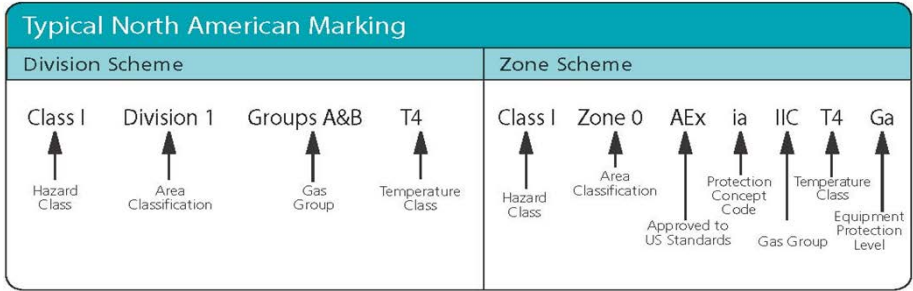


100% Davit-Launched Liferrafts (counted as req'd rafts if arranged for float-free launch)

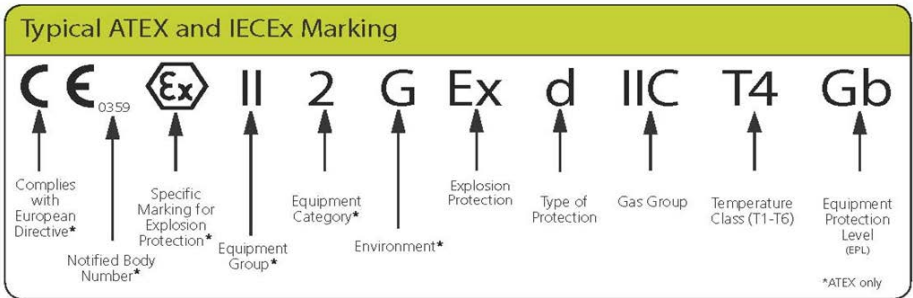


HazLoc Marking Schemes

Division & Zone (NEC):



Zone (IEC):



Notes: _____

Notes: _____

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	bbl/LT	m ³ /t	bbl/m ³	bbl/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			