

**Conversions:**

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

**United States Coast Guard**



**MOBILE OFFSHORE DRILLING UNIT  
INSPECTOR  
(Option C)  
Job Aid**

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

Notes: \_\_\_\_\_  
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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 (PSC), 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

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**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)).

Notes:

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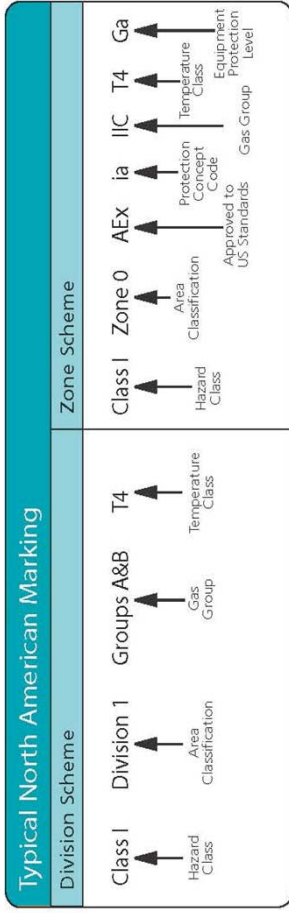
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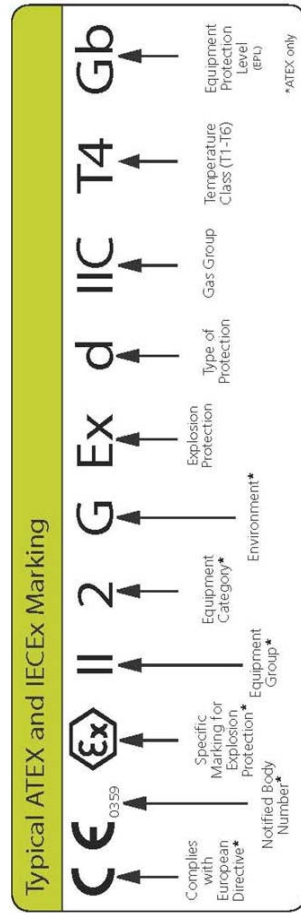
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## HazLoc Marking Schemes

### Division & Zone (NEC):



### Zone (IEC):



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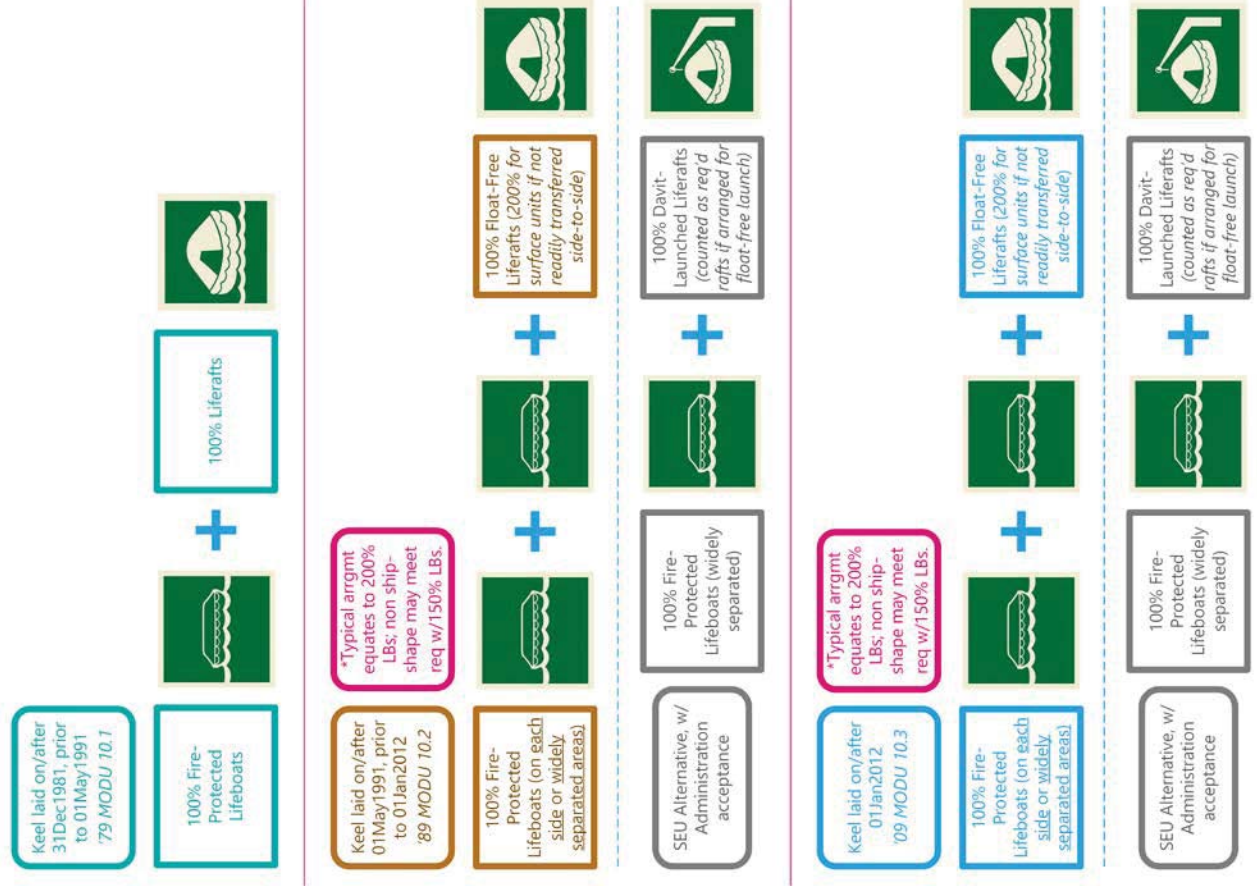
## Section 1: Administrative Items

## Primary Lifesaving Applicability

### IMO Applicability Dates:

Reference	Dates
ITC 1969	18 JUL 82
Load Line 1966	21 JUL 68
Load Line 88 Protocol	03 FEB 00
<b>Load Line (2005 edition)</b> contains all amendments entered into force up-to 2003 Amendments. The following Amendments (resolutions) have entered into force since it was published. <a href="http://www.imo.org">www.imo.org</a> 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
<b>MARPOL 2017 Consolidated</b> contains all amendments entered into force up-to 01 JAN 2017 Amendments. The following Amendments (resolutions) have entered into force since it was published. <a href="http://www.imo.org">www.imo.org</a>	
<b>MODU Code 2009</b>	01 JAN 12
<b>MODU Code 1989</b>	01 MAY 91
<b>MODU Code 1979</b>	31 DEC 81
<b>Load Line 1966</b>	21 JUL 68
<b>Load Line 88 Protocol</b>	03 FEB 00
<b>Load Line (2005 edition)</b> contains all amendments entered into force up-to 2003 Amendments. The following Amendments (resolutions) have entered into force since it was published. <a href="http://www.imo.org">www.imo.org</a> MSC 172(79) MSC 223(82) MSC 270(85)	01 JUL 06 01 JUL 08 01 JUL 10

### Option "C"



## 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.

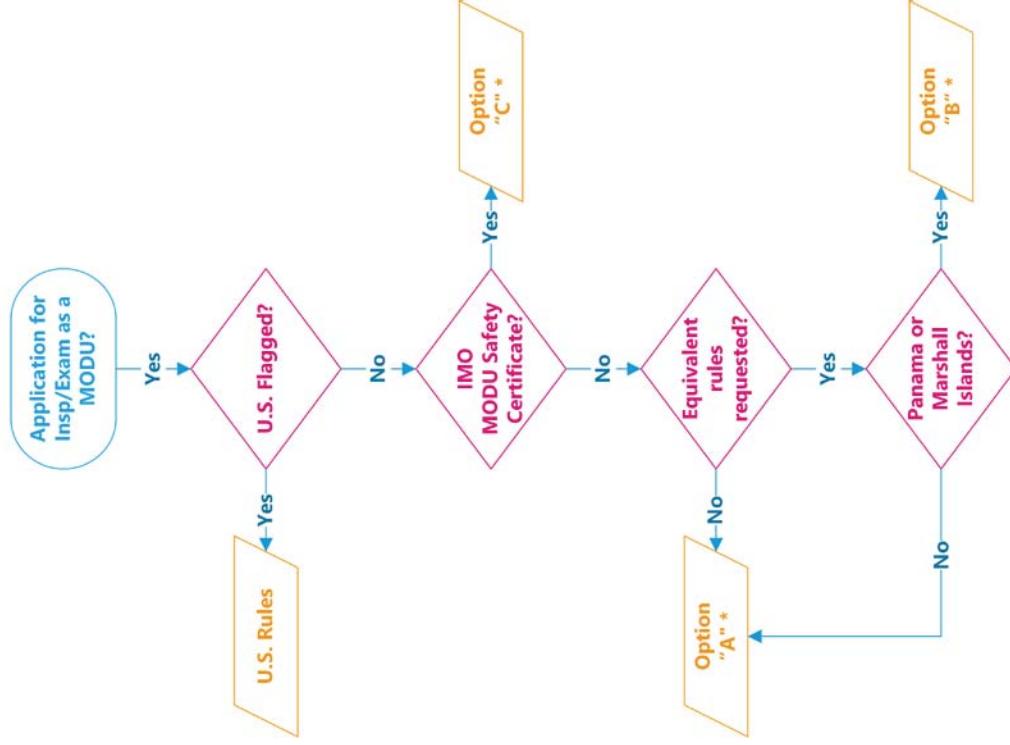
Note: Climbing (other than on ladders) shall be limited to 5ft.

## 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).

<b>STCW</b>	28 APR 84
<b>STCW (2017 edition)</b> contains all amendments entered into force up-to 2017 Amendments. The following Amendments (resolutions) have entered into force since it was published. <a href="http://www.imo.org">www.imo.org</a>	

## MODU Applicability



Options A, B & C:  
 \* 33 CFR 143.207 Design & Equipment requirements for foreign MODUs  
 \* §146.205 Operations requirements for foreign MODUs

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 <sub>2</sub> Storage Room	O <sub>2</sub> deprivation due to leaking CO <sub>2</sub>	Ensure proper ventilation, wear O <sub>2</sub> meter
Machinery Spaces	Noise, Flammability, Toxicity; MSDs – H <sub>2</sub> S	Hearing protection
Flammable Storage Lockers/Paint Rooms	Flammability, Toxicity	Ensure proper ventilation
Battery Room	Toxicity -	Ensure proper ventilation
Bos'n Shop	O <sub>2</sub> deprivation	Ensure proper ventilation
Workshops	Toxicity from welding fumes, Flammability, Noise	Ensure proper ventilation
Compressor Rooms <sup>(1)</sup>	O <sub>2</sub> deprivation, Flammability	See Note 1
Provisions/Non-Flammable Storage	O <sub>2</sub> 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.



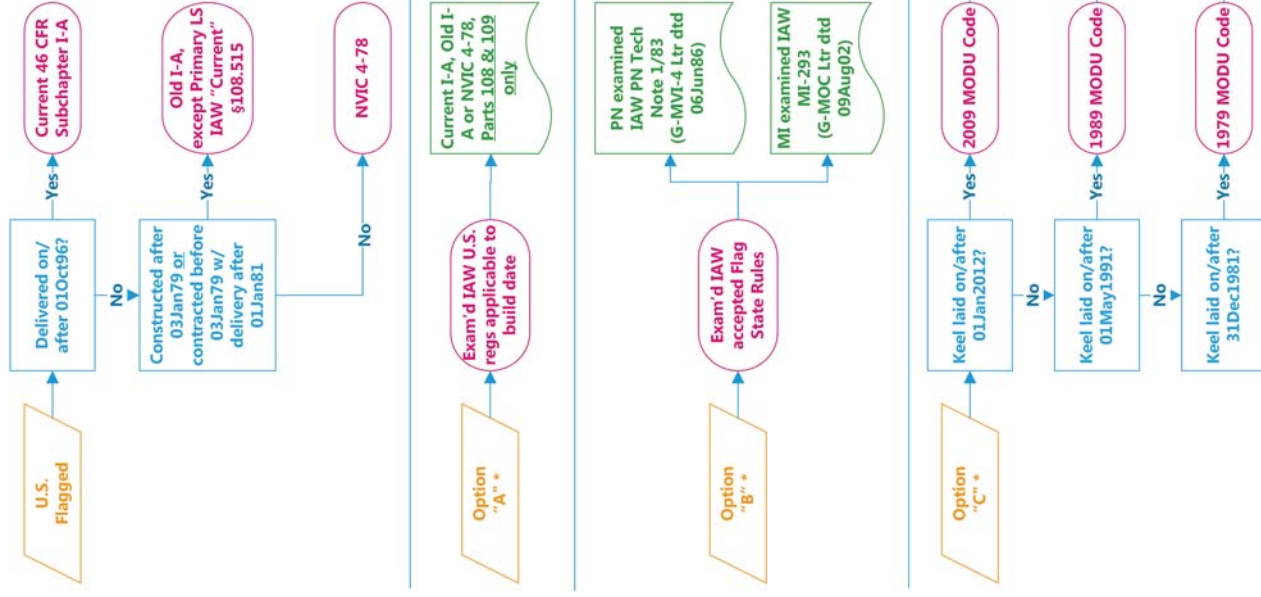
**Examples (not limited to) of confined spaces:**

Confined Spaces	Hazard <sup>(2)</sup>
Voids/Cofferdams <sup>(1)</sup>	P-O; S-F,T
Sealed Compartments <sup>(1)</sup>	P-O; S-F,T
Double Bottoms/Sides/Duct Keels <sup>(1)</sup>	P-O; S-F,T
Spaces Coated with a Preservative <sup>(1)</sup>	P-O; S-F,T
Engine Crankcases/Scavenging Spaces <sup>(1)</sup>	P-O; S-F,T
Large Heat Exchangers <sup>(1)</sup>	P-O; S-F,T
Fuel/Lube Oil/Sludge Tanks <sup>(1)</sup>	P-F,T; S-O
Water tanks <sup>(1)</sup>	P-O; S-F,T
Cargo/Slop Tanks <sup>(1)</sup>	P-O; S-F,T
Pump Rooms (if provided)	P-O; S-F,T

<sup>(1)</sup>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.

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

**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

**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”

**Man Overboard Drill:**

Familiarity with duties      Boat launch      Boat release  
 Boat operation      Crew equipment      Boat equipment

MODU 09/14.13.1<sup>(d)</sup>

Location: \_\_\_\_\_ Time to Water: \_\_\_\_\_

Notes: \_\_\_\_\_

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**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      Column-Stabilized
- Mat-Supported       Moored
- Independent Leg       Dynamically Positioned
- Drillship
- Dynamically Positioned

**Section 2: Certificates and Documents**

Endors. Date	Exp Date	Issue Date	Port Issued/ Country	ID #	Issuing Agency	Name of Certificate	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	International Tonnage (ITC) <input type="checkbox"/> No Change
											USCG	

**Abandonment Drill:**

- General alarms / signals
- Muster lists
- Muster of crew / passengers
- Crew response
- Language understood by crew
- Lif jackets
- MODU 09/14. 13.2

Familiarity with duties  
Provide equipment  
Familiarity with equipment  
Lower lifeboat  
Brake operation  
Engine start  
Time to Water: \_\_\_\_\_

Boat release  
Boat operation  
Egress procedures  
Davit-launched liferaft drill  
Communication w/ bridge  
Lighting

Notes: \_\_\_\_\_  
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### Section 4: Drill Record Sheets

**Fire Drill:**

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

MODU 09/14.13.2

Location: \_\_\_\_\_ Time on Scene: \_\_\_\_\_

Notes: \_\_\_\_\_  
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### Certificates and Documents (Cont)

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp Date	Endors. Date
<input type="checkbox"/> No Change 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)						

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

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp Date	Endors. Date
International Sewage Pollution Prevention (ISPP)						
International Air Pollution Prevention (IAPP)						
International Anti-Fouling Systems (IAFS)						
<i>Cargo Ship Certificates Voluntarily carried in addition to the MODU Safety Certificate:</i>						
Safety Construction Certificate						
Safety Equipment Certificate						
Safety Radio Certificate						

**Certificates and Documents (Cont)**

## Section 3: Inspection Items

### Pre-Examination

- |  |  |   |  |   |
|--|--|---|--|---|
| <ul style="list-style-type: none"> <li>• Sign forms (examiner &amp; vessel's representative)</li> <li>• Issue documents to foreign flagged</li> </ul>  | <p>CG-3585<br/>MSM II/G.3.N.9<br/>CG-3585<br/>MSM II/G.3.N.9<br/>CG-3585</p>   | <p><input type="checkbox"/> 1. Schedule inspection/examination in Maritime Information for Safety and Law Enforcement (MISLE)</p> | <ul style="list-style-type: none"> <li>• Determine the authority, jurisdiction, and applicable regulation(s)</li> <li>• Locate vessel in MISLE</li> <li>• Verify documents are current in MISLE</li> <li>• Review history (narratives, deficiencies &amp; special notes)</li> <li>• Verify status of user fees</li> <li>• Prepare folder and required documents</li> <li>• Verify status of Certificate of Financial Responsibility (e-COFR)</li> <li>• Generate new activity</li> <li>• Verify submittal of Environmental Protection Agency (EPA) Notice of Intent (NOI)</li> </ul> | <p>33 CFR 140.3 &amp; .101(a)<br/>33 CFR 143.207(c)<br/>MPS-PR-SEC-04<br/>MSM I/12.F<br/>MPS-PR-SEC-04<br/>MPS-PR-SEC-02 &amp; 04<br/>MMS Work Instruction<br/>46 CFR 2.10-130(a)<br/>MSM II/G.3.A.2.a<br/>46 CFR 2.01-6<br/>MPS-PR-SEC-04<br/>33 CFR 138.15(b) &amp; .85<br/>MMS Work Instruction<br/>MMS Work Instruction<br/>CG-543 Policy Ltr 11-01</p> |
| <p><input type="checkbox"/> 152. Issue control action(s)</p> <ul style="list-style-type: none"> <li>• Determine if suspension/non-issuance of COI/COC is warranted</li> <li>• Determine control action</li> <li>• Determine impact to drilling operations</li> <li>• Evaluate potential well control hazards</li> <li>• Consult with OCMI and BSEE District to determine appropriate point to interrupt drilling operations</li> <li>• Explain control action(s) to responsible parties/stakeholders</li> <li>• Issue control action(s)</li> </ul> | <p>MODU 09/1.7.3<br/>MSM II/G.3.L<br/>MODU 09/1.7.3<br/>MODU 09/1.7.6<br/>BSEE/USCG MOA<br/>BSEE/USCG MOA<br/>BSEE/USCG MOA<br/>MODU 09/1.7<br/>BSEE/USCG MOA<br/>MODU 09/1.7.3<br/>MMS Work Instruction</p> | <p><input type="checkbox"/> 2. Coordinate inspection/examination with vessel's representative</p>                                 | <ul style="list-style-type: none"> <li>• Identify vessel's representative</li> <li>• Confirm vessel arrival time, destination, inspection/examination based on Advanced Notice of Arrival (ANOA)</li> <li>• Articulate examination expectations</li> <li>• Verify owner/operator information</li> <li>• Verify Classification Society information</li> <li>• Confirm MISLE targeting score with information attained from vessel representative</li> </ul>   | <p>MPS-PR-SEC-02<br/>MPS-PR-SEC-04<br/>33 CFR 146.202 &amp; .215<br/>MPS-PR-SEC-02<br/>33 CFR 143.207(c)<br/>33 CFR 146.205(c)<br/>MPS-PR-SEC-04<br/>MPS-PR-SEC-04<br/>MSM II/G.3.N</p>   |
| <p><input type="checkbox"/> 153. Verify deficiency corrections</p> <ul style="list-style-type: none"> <li>• Verify corrected deficiencies</li> <li>• Remove control action (when applicable)</li> <li>• Clear deficiency in Misle activity</li> </ul>  | <p>MSM II/D.1.G.3.f<br/>CG-3585<br/>CG-3585<br/>CG-5437A/B<br/>MSM II/A.2.C.2.d<br/>MMS Work Instruction</p>   | <p><input type="checkbox"/> 3. Conduct meeting with vessel's representative to discuss scope of the inspection/examination</p>    | <ul style="list-style-type: none"> <li>• Discuss outstanding Conditions of</li> </ul>  | <p>MPS-PR-SEC-06</p>  |
| <p><input type="checkbox"/> 154. Issue/endorse certificates</p> <ul style="list-style-type: none"> <li>• Issue/endorse COI/COC</li> <li>• Obtain copy of endorsed certificates for foreign units</li> </ul>  | <p>MSM II/G.3.A.2.e<br/>CG-3585<br/>MSM II/G.3.N.9<br/>CG-3585</p>   | <p><input type="checkbox"/> 155. Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity</p>                | <ul style="list-style-type: none"> <li>• Update examination results with deficiencies issued on CG 835V/Form B</li> </ul>  | <p>CG-3585<br/>MMS Work Instruction</p>   |

Class and any third party servicing report discrepancies

- Discuss examination procedures and expectations
- Assess ongoing operations to include well ops that could affect examination and equipment availability with Master/OIM
- Coordinate actual machinery/equipment testing procedures

33 CFR 143.207(c)  
33 CFR 146.205(c)  
MPS-PR-SEC-06  
  
MPS-PR-SEC-06

4. Issue Letter of Determination (LOD)

- Determine applicability
- Review request
- Prepare LOD
- Retain a copy, log issued LODs and secure documentation received from employers/applicants

43 USC 1356(c)  
33 CFR 141.5  
33 CFR 141.15  
NVIC 07-84  
33 CFR 141.5(c)  
NVIC 07-84  
5 USC 552 & 552a  
COMDTINST M5260.3

5. Mitigate potential hazards encountered during an inspection/examine

- Recognize potential hazards encountered during an exam
- Determine confined spaces onboard vessel
- Determine if exam scope will require a Marine Chemist certification for entry into spaces
- Verify Marine Chemist has been scheduled for the exam (when applicable)
- Prepare necessary personal protective equipment for exam
- Review CG policy for when to leave a space due to hazardous condition

NFPA 306  
MSM I/CH10  
29 CFR 1915, Part B  
MSM II/G.1.J.1  
MSM I/CH10 App. A  
  
MSM I/CH10 App. A  
Quattro Operator's Manual  
MSM I/CH10 App. A

## Security

- 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

responding to helideck incidents

148. Evaluate abandonment drill

- Witness abandonment drill procedures and crew perform assigned duties
- Witness crew's competency to deploy and launch different lifeboats
- Verify crew is proficient at donning lifejackets
- Witness a debrief of drill

MODU 09/14.13.2  
  
MODU 09/14.13.4 & .15  
MODU 09/14.13.4.1  
MODU 09/14.13.2  
IMO Res (A).1079(28) 1.4.6

149. Evaluate man overboard drill

- Verify man overboard drills are conducted
- Witness launching, operation, and maneuvering of rescue boat

MODU 09/14.13.1(e)  
MODU 09/14.13.5

## Follow-Up

150. Verify Compliance with International Safety Management (ISM) Code

- Determine clear grounds to initiate expanded exam
- Verify crew familiarity with vessel's Safety Management System (SMS)
- Verify company responsibilities and authority are clearly defined
- Verify record keeping compliance
- Verify maintenance requirements
- Verify training requirements are IAW SMS
- Review audit documentation and ensure follow-up actions completed/in-process

SOLAS 14 IX/2.1.3  
ISM Code 6.2  
ISM Code 6.1  
ISM Code 3  
ISM Code 11  
ISM Code 10  
ISM Code 6.3 & .4  
  
ISM Code 1.4.6 & 9.2

151. Issue deficiencies

- Identify deficiencies
- Discuss deficiencies and corrective measures/timeframe with vessel's master or representative
- Document deficiencies

MSM II/D.1.C.8  
MSM II/D.2.C

MSM II/G.3.N.9



- Evaluate stowage of flammable and hazardous material
- Verify fire protection equipment provided for space
- Verify intrinsically safe electrical installations

- Verify presence and approved and valid Ship Security Plan
- Examine security drill records
- Examine security exercise records
- Examine records of crew training
- Examine Declarations of Security

- 46 CFR 147.45
- 46 CFR 147.65
- SOLAS 14 II-2/10.6.3
- MODU 09/6.2.1
- MODU 09/6.6

- ISPS A/9.1, 9.4 & 9.8
- MSM II/D.1.H.4
- ISPS A/10.1.1 & 13.4
- MSM II/D.1.H.7.a
- ISPS A/10.1.1 & 13.5
- MSM II/D.1.H.7.a
- ISPS A/13.3
- MSM II/D.1.H.7.a
- ISPS A/5.2 & 5.7
- MSM II/D.1.H.4.j

## Cargo Systems

- 145. Examine portable tanks
  - Determine applicability
  - Verify DOT labeling/placards
  - Verify additional firefighting equipment
  - Verify stowage and segregation
- 146. Examine crane(s)
  - Examine components
  - Verify controls are marked
  - Verify instruments have lighting
  - Verify correct load chart for configuration in use
  - Verify alarms
  - Verify crane book/manual
  - Verify boom angle indicator

- 33 CFR 146.205
- 46 CFR 109.557
- 46 CFR 109.557
- 49 CFR 172.326
- 46 CFR 109.557
- 46 CFR 98.30-37
- 46 CFR 109.557
- 46 CFR 98.30-9
- MODU 09/12.1.1 & 12.1.10.7
- MODU 09/12.1.1
- MODU 09/12.1.1
- MODU 09/12.1.7
- MODU 09/12.1.8 & .10.3
- MODU 09/12.1.10
- MODU 09/12.1.8

- MODU 09/14.13.2
- MODU 09/14.10.1 & .2
- MODU 09/14.13.2
- IMO Res A. 1079(28) App 1/1.3.5
- MODU 09/14.13.2
- IMO Res A. 1079(28)
- MODU 09/14.2.3

## Emergency Drills

- 147. Evaluate fire drill
  - Witness firefighting drill procedures and crew perform assigned duties
  - Verify crew's ability to organize into an effective team to respond to an emergency
  - Verify effective communication between crew on scene and master in command center
  - Witness debrief of drill
  - Evaluate crew's knowledge for

- MODU 09/14.13.2
- MODU 09/14.10.1 & .2
- MODU 09/14.13.2
- IMO Res A. 1079(28) App 1/1.3.5
- MODU 09/14.13.2
- IMO Res A. 1079(28)
- MODU 09/14.2.3

## Certificates & Documents

- 7. Examine Certificate of Compliance (COC)
  - Verify compliance option
  - Verify particulars are accurately reflected
  - Verify certificate is valid
- 8. Examine Crew Certificates of Competency and Proficiency for Foreign-Flagged MODUs
  - Verify original credentials are onboard and valid
  - Verify STCW & Flag State endorsements
  - Verify valid medical certificate
  - Verify Transportation Worker Identification Credential (TWIC)
  - Verify required number of Lifeboatmen
  - Verify letters of determination or exemption letter for foreign national(s)
  - Verify Dynamic Positioning operator's certificate(s) is valid
- 9. Examine Code for the Construction and Equipment of Mobile Offshore Drilling Units Safety Certificate
  - Determine applicability
  - Verify presence
  - Verify validity

- 33 CFR 143.207(c)
- 33 CFR 146.205(c)
- CG-3585
- 33 CFR 143.210
- 46 CFR 2.01-6(a)(3)
- STCW 2011/2.11
- MSM II/G.3.A.10.c
- STCW 2011/2, 5 thru 10
- STCW 2011 I/9.3
- 46 CFR 10.203(b) & (d)
- MODU Code 09/14.10.4, 10.5
- 33 CFR 141.15(c) & .20(f)
- NVIC 07-84
- MODU Code 09/4.13
- IMO MSC.1/Circ.738 Rev.2
- 33 CFR 140.101(e)
- MODU Code 09/1.6.7
- MODU Code 09/1.6.7
- MODU Code 09/1.6.11.8

<ul style="list-style-type: none"> <li>• Review exemptions</li> </ul>	MODU Code 09/1.6.8	<ul style="list-style-type: none"> <li>• and bilge monitor/alarm (MEPC.107(49) or MEPC.60(33))</li> <li>• Witness operational test of oil filtering equipment</li> <li>• Review records</li> <li>• Verify OCM is sealed</li> <li>• Verify OCM is calibrated</li> </ul>	G-PCV Policy Ltr 06-01 MARPOL I/14.6 & .7 MSM II/D.1.G.1.p(3) MSM II/D.1.G.1.p(1) G-MOC Policy Ltr 04-13 MSM II/D.1.G.1.p(3) MEPC.107(49) MSM II/D.1.G.1.p(3) G-MOC Policy Ltr 04-13 MSM II/D.1.G.1.p(3) G-PCV Policy Ltr 06-01 MSM II/D.1.G.1.p(3) MSM II/D.1.G.1.p(3)
<ul style="list-style-type: none"> <li>10. Examine Certificate of Registry*</li> <li>• Verify presence</li> <li>• Verify validity</li> </ul>	46 USC 3303 SOLAS 14 I/13 46 USC 3303		
<ul style="list-style-type: none"> <li>11. Examine Classification Society Certificate*</li> <li>• Verify presence</li> <li>• Verify validity</li> </ul>	SOLAS 14 I/6(a) SOLAS 14 I/6(a)		
<ul style="list-style-type: none"> <li>12. Examine International Tonnage Certificate (ITC)*</li> <li>• Verify presence</li> <li>• Verify validity</li> <li>• Verify certificate form</li> </ul>	ICTM 69 Article 7 ICTM 69 Article 9 ICTM 69 Article 10		
<ul style="list-style-type: none"> <li>13. Examine International Load Line Certificate (ILLC)*</li> <li>• Verify presence</li> <li>• Verify validity</li> <li>• Verify certificate form</li> <li>• Confirm load line observed on hull (Task BN-07) matches certificate</li> </ul>	ICLL Article 16 ICLL Article 15 ICLL Article 19 ICLL Article 18 ICLL Reg 9	<input type="checkbox"/> 141. Examine Marine Sanitation Device (MSD)* <ul style="list-style-type: none"> <li>• Verify type approval</li> <li>• Verify labeling</li> <li>• Assess condition/operability</li> </ul>	33 CFR 159.7 MARPOL IV/9 33 CFR 159.55 33 CFR 159.59 MSM II/D.1.G.1.p(5)
<ul style="list-style-type: none"> <li>14. Examine Cargo Ship Safety Construction Certificate (CSSCC)*</li> <li>• Verify presence</li> <li>• Verify validity</li> <li>• Verify certificate form</li> </ul>	SOLAS 14 I/12(a)(ii) SOLAS 14 I/16 SOLAS 14 I/10 SOLAS 14 I/14 SOLAS 14 I/15	<input type="checkbox"/> 142. Examine incinerator* <ul style="list-style-type: none"> <li>• Verify approval</li> <li>• Verify presence of manufacturer's operating manual</li> <li>• Verify operating personnel training</li> <li>• Verify operation of fixed local fire extinguishing system</li> </ul>	MARPOL Annex VI/16.6.1 IMO Res MEPC.76(40) MARPOL Annex VI/16.7 MARPOL Annex VI/16.8 SOLAS 14 II-2/10.5.6.3.3
<ul style="list-style-type: none"> <li>15. Examine Cargo Ship Safety Equipment Certificate (CSSEC) and Record of Equipment (Form-E)*</li> <li>• Verify presence</li> <li>• Verify validity</li> <li>• Verify form of certificate &amp; Form-E</li> </ul>	SOLAS 14 I/12(a)(iii) SOLAS 14 I/16 SOLAS 14 I/8 SOLAS 14 I/14 SOLAS 14 I/15	<input type="checkbox"/> 143. Examine standard discharge connection* <ul style="list-style-type: none"> <li>• Verify presence</li> <li>• Verify condition</li> </ul>	33 CFR 155.430 MARPOL I/13 33 CFR 155.430
<ul style="list-style-type: none"> <li>16. Examine Cargo Ship Safety Radio Certificate (CSSRC) and Record of Equipment (Form-R)*</li> <li>• Verify presence</li> </ul>	SOLAS 14 I/12(a)(iv)	<input type="checkbox"/> 144. Examine paint lockers*	

## Topside Equipment

- 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

- 139. Examine external watertight integrity
  - Verify local/remote operation of audible and visual alarm/indicators  
MODU 09/3.6.5.3  
SOLAS 04/25-9.2
  - Ensure all penetrations are watertight  
MODU 09/3.6.1
  - Verify down-flooding openings have watertight closures  
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/alarms (OCM)\*
  - Verify type of oily water separator  
MARPOL I/14

- Verify validity  
SOLAS 14 I/16
- Verify form of certificate & Form-R  
SOLAS 14 I/9  
SOLAS 14 I/14  
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
  - Verify validity SOLAS 14 XI-1/5.6  
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
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
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
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
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
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
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 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

- |   |   |  |  |
|---|---|--|--|
| <ul style="list-style-type: none"> <li>• switchboard are guarded</li> <li>• Verify non-conductive mats or gratings</li> <li>• Verify condition of meters, controls, and gauges</li> <li>• Verify markings</li> <li>• Verify equipment for parallel operation</li> <li>• Verify ground detection</li> <li>• Verify rear access control</li> <li>• Verify drip shields present</li> </ul>   | <p>IEC 60529<br/>MODU 09/5.6.5<br/>MODU 09/5.7.1<br/>MODU 09/5.6.14<br/>MODU 09/5.3.7<br/>MODU 09/5.6.7<br/>MODU 09/5.6.5<br/>MODU 09/2.1.3<br/>Class Society Rules</p> | <ul style="list-style-type: none"> <li>• Verify compliance with ballast water record keeping requirements</li> <li>• Verify noncompliance &amp; reportable quantity reports have been submitted</li> </ul>   | <p>VGP 4.3<br/>CG-543 Policy Ltr 11-01<br/>VGP 4.4.1<br/>VGP 4.4.2</p>   |
| <p><input type="checkbox"/> 129. Examine motor controllers</p> <ul style="list-style-type: none"> <li>• Verify condition of enclosure</li> <li>• Verify markings</li> <li>• Verify drip-proof/watertight</li> </ul>   | <p>MODU 09/5.1.1.4<br/>MODU 09/5.6.14<br/>MODU 09/5.6.21 &amp; 2.1.3<br/>IEC 60529</p>  | <p>29. Examine muster lists and emergency instructions*</p> <ul style="list-style-type: none"> <li>• Verify muster lists and emergency instructions are available</li> <li>• Verify muster lists and emergency instructions are posted</li> <li>• Verify information on muster lists and emergency instructions</li> </ul> | <p>MODU 09/14.10.10<br/>MODU 09/14.11<br/>MODU 09/14.10<br/>MODU 09/14.11<br/>MODU 09/14.10.11 thru .16<br/>MODU 09/14.11.1 &amp; .2</p> |
| <p><input type="checkbox"/> 130. Examine controls and alarms for unattended machinery spaces (when applicable)</p> <ul style="list-style-type: none"> <li>• Verify administration approved documentation</li> <li>• Witness fire detection system alarms</li> <li>• Verify engineer's alarm is operational</li> <li>• Verify malfunction of any machinery or boiler operations initiates automatic shutdown</li> <li>• Verify operation of Oil Mist Detection system</li> </ul> | <p>MODU 09/8.2.5<br/>MODU 09/9.10.3.1<br/>MODU 09/8.7.1.2<br/>MODU 09/8.9<br/>MODU 09/8.3.7</p>   | <p>30. Examine ballast water management documents*</p> <ul style="list-style-type: none"> <li>• Verify Coast Guard approved Ballast Water Management System</li> <li>• Verify validity of AFS certificate</li> <li>• Verify Ballast Water Management Plan</li> </ul>   | <p>33 CFR 151.2025(a)(1)<br/>AFS<br/>MSM II/D.1.G.1.t<br/>33 CFR 151.2050(g)<br/>NVIC-07-04 Ch. 1</p>                                    |
| <p><input type="checkbox"/> 131. Examine hazardous location plan</p> <ul style="list-style-type: none"> <li>• Verify presence of plan</li> <li>• Verify plan approval</li> <li>• Verify plan identifies all hazardous areas</li> </ul>  | <p>MODU 09/14.1.2.15<br/>MODU 09/14.1<br/>MSM II/G.3.F<br/>MODU 09/6.1 thru 6.3</p>   | <p>31. Examine Long-Range Identification &amp; Tracking (LRIT) conformance test report*</p> <ul style="list-style-type: none"> <li>• Verify presence</li> <li>• Verify validity</li> </ul>   | <p>IMO MSC.1/Circ. 1307<br/>SOLAS 14 V/19-1.5<br/>IMO MSC.1/Circ. 1307</p>   |
| <p><input type="checkbox"/> 132. Examine intrinsically safe electrical equipment in hazardous locations</p> <ul style="list-style-type: none"> <li>• Verify components/equipment are approved</li> </ul>  | <p>MODU 09/6.6.3<br/>IEC 60079-14 &amp; -25</p>   | <p>32. Examine Ship Energy Efficiency Management Plan (SEEMP)*</p> <ul style="list-style-type: none"> <li>• Verify presence</li> <li>• Verify validity</li> </ul>  | <p>MARPOL VI/22<br/>CG-CVC Policy Ltr 13-02</p>  |
| <p><input type="checkbox"/> 34. Examine Energy Efficiency Design Index (EEDI)*</p> <ul style="list-style-type: none"> <li>• Verify presence</li> <li>• Verify validity</li> <li>• Verify form</li> </ul>  | <p>MARPOL VI/6<br/>CG-CVC Policy Ltr 13-02<br/>MARPOL VI/8<br/>MARPOL VI/9</p>  | <p>33. Examine International Energy Efficiency Certificate (IEEC)*</p> <ul style="list-style-type: none"> <li>• Verify presence</li> <li>• Verify validity</li> <li>• Verify form</li> </ul>   | <p>MARPOL VI/6<br/>CG-CVC Policy Ltr 13-02<br/>MARPOL VI/8<br/>MARPOL VI/9</p>   |

- 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 training and drills MODU 09/14.13.1

- 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 switchboards MODU 09/5.6.3 & .5

- 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
  - 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
- 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(e)
  - 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
- Verify discrepancies on servicing reports are corrected

MODU 09/10.1.4  
SOLAS 14 III/1.5  
MODU 09/10.18.1

41. Examine fire-fighting equipment maintenance and service logs/reports

- Examine record of inspection and maintenance
- Verify maintenance plan is onboard and applicable
- Verify maintenance plan includes systems and appliances
- Verify inspection and servicing IAW applicable standards or manufacturer's instructions
- Verify discrepancies on servicing reports are corrected

MODU 09/14.16.2.5  
MODU 09/9.19.4.1  
MODU 09/9.19.4.2  
MODU 09/9.19.4.3  
MODU 09/9.19.4.1  
IMO MSC.1/Circ. 1432

42. Examine fire detection system maintenance and service logs/reports

- Examine record of inspection and maintenance
- Verify maintenance plan is onboard and applicable
- Verify maintenance plan includes systems

MODU 09/9.19.4.1 & 16.2.5  
MODU 09/9.19.4.2  
MODU 09/9.19.4.2

- 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
- Verify maintenance plan is onboard and applicable
- Verify maintenance plan includes systems
- Witness a satisfactory calibration of system(s)
- Verify discrepancies on servicing reports are corrected

MODU 09/9.19.4.1  
MODU 09/14.16.2.5  
MODU 09/9.19.4.2  
MODU 09/9.19.4.3 thru .13  
MODU 09/9.19.1.1  
Operations Manual  
MODU 09/9.19.1  
MODU 09/14.16.2.5

## Machinery

120. Examine bilge pumps installation, piping, and valves

- Examine bilge system components
- Verify system arrangement(s) including flooding protection
- Verify valve indicators
- Witness operation of alarms

MODU 09/4.9.1  
MODU 09/4.9.3  
MODU 09/4.9.1  
MODU 09/4.9.8.1  
MODU 09/4.9.6  
MODU 09/3.6.2  
MODU 09/8.4

121. Examine ballast pumps installation, piping and valves

- Verify pump local/remote arrangement(s)
- Verify emergency power requirements
- Verify local/remote valve operation
- Verify piping material and condition
- Verify Ballast Control Station arrangements
- Verify marking(s) of components
- Verify tank level indicator(s) and draft reading operation

MODU 09/4.10.11 &.12  
MODU 09/4.10.6  
MODU 09/5.4.6.7  
MODU 09/4.10.13  
MODU 09/4.10.7  
MODU 09/4.10.10  
MODU 09/4.10.8  
MODU 09/4.10.14 &.15

122. Examine oil/fuel service and transfer system(s)

- Verify condition
- Verify arrangement of system(s)
- Verify condition of tank vent(s)
- Verify arrangement of pressurized fuel piping
- Verify means to prevent overflow spillage
- Verify high temperature alarm
- Witness test of remote operated valve(s)
- Verify transfer procedures are posted or available
- Verify flange or mechanical joints are fitted with a suitable shield
- Inspect nonmetallic flexible hoses

MODU 09/4.8.4  
MODU 09/4.8.1 -.3  
MODU 09/4.8.6  
MODU 09/4.8.5  
MODU 09/4.8.7  
MODU 09/8.3.1  
MODU 09/8.3.2  
MODU 09/8.3.3  
MODU 09/9.15.3  
MODU 09/14.1.3.6  
MODU 09/4.1.1  
MODU 09/4.8.4



- |   |   |   |   |
|---|---|---|---|
| <ul style="list-style-type: none"> <li>• Examine periphery netting arrangement and condition</li> <li>• Verify deck markings</li> <li>• Verify deck is free of obstructions</li> <li>• Verify condition and accessibility of main and emergency personnel access route</li> <li>• Verify structural fire protection requirements</li> <li>• Verify wind indicator</li> <li>• Verify skid-resistant surface</li> <li>• Verify operation of H<sub>2</sub>S warning light</li> </ul>                         | <p>MODU 09/13.4.2</p> <p>MODU 09/13.5.5 thru .19</p> <p>MODU 09/13.3.2.2 &amp; 13.3.3.2</p> <p>MODU 09/13.4.3 &amp; 9.16.3</p> <p>MODU 09/9.16.2</p> <p>MODU 09/13.5.1 thru .4</p> <p>MODU 09/13.3.4</p> <p>MODU 09/13.5.26</p> | <p>44. Examine crane maintenance and service logs/reports</p> <ul style="list-style-type: none"> <li>• Verify installation is approved</li> <li>• Verify initial load test</li> <li>• Verify required inspection(s)</li> <li>• Verify if de-rated and load rating chart has been revised (when applicable)</li> <li>• Verify maintenance manual(s) is available</li> <li>• Verify crane operators are designated in writing and qualified</li> <li>• Verify discrepancies on servicing reports are corrected</li> </ul>   | <p>MODU 09/12.1.1</p> <p>MODU 09/12.1.5</p> <p>MODU 09/12.1.6</p> <p>MODU 09/12.1.4</p> <p>MODU 09/12.1.10</p> <p>46 CFR 109.527(a)</p> <p>MODU 09/12.1.6</p>   |
| <p>118. Examine helideck fire fighting systems</p> <ul style="list-style-type: none"> <li>• Verify dry powder extinguishers</li> <li>• Verify CO<sub>2</sub> extinguishers</li> <li>• Verify foam is appropriate type</li> <li>• Verify CO<sub>2</sub> foam extinguishing system</li> <li>• Verify additional fire-fighting outfits</li> <li>• Verify additional equipment required</li> <li>• Verify condition of drainage</li> </ul>  | <p>MODU 09/9.16.4.1</p> <p>MODU 09/9.16.4.2</p> <p>MODU 09/9.16.4.4</p> <p>MODU 09/9.16.4.3</p> <p>MODU 09/9.16.4.6</p> <p>MODU 09/9.16.4.7</p> <p>MODU 09/9.16.5</p>   | <p>45. Examine Unfired Pressure Vessels (UPVs) and relief valves maintenance and service logs/reports</p> <ul style="list-style-type: none"> <li>• Verify required UPV tests conducted</li> <li>• Verify UPV tests (when applicable)</li> <li>• Verify UPV five year internal inspection (when applicable)</li> <li>• Verify pressure relief valve (PRV) testing</li> </ul> <p>46. Examine Marine Operating Manual (MOM)</p> <ul style="list-style-type: none"> <li>• Verify approval</li> <li>• Verify hazardous locations are identified</li> <li>• Verify manual addresses normal and emergency activities</li> <li>• Verify contents are in English and other language(s) understood by personnel on board</li> <li>• Verify stability calculations contained in manual are approved (stamp/letter)</li> <li>• Verify changes affecting lightship data are maintained in lightship data alterations log</li> <li>• Examine alternative stability criteria accepted by Flag State (when</li> </ul> | <p>46 CFR 61.10-1 &amp; -5</p> <p>MSM II/G.3.G.4</p> <p>46 CFR 61.10-5</p> <p>MSM II/G.3.G.4</p> <p>46 CFR 61.10-5(b)</p> <p>MODU 09/4.3.1 &amp; .2</p> <p>46 CFR 61.10-5(i)</p> <p>MSM II/G.3.G.4</p> <p>MODU 09/14.1.1</p> <p>MSM II/G.3.F</p> <p>MODU 09/14.1.2.15</p> <p>MODU 09/14.1.3 &amp; .4</p> <p>MODU 09/14.1.6</p> <p>MSM II/G.3.F</p> <p>MODU 09/14.1.2.9 thru .12</p> <p>MSM II/G.3.E</p> <p>MODU 09/3.1</p> <p>MODU 09/14.1.2.9 &amp; 1.3.2</p> <p>MODU 09/3.3.3</p> <p>MSM II/G.3.E</p> |
| <p>119. Examine refueling station (if equipped)</p> <ul style="list-style-type: none"> <li>• Inspect portable fuel storage tank(s)</li> <li>• Verify tank(s) are remote as practical</li> <li>• Verify tank(s) are isolated from ignition source(s)</li> <li>• Verify tank area(s) have containment</li> <li>• Verify emergency shutdown(s)</li> <li>• Verify unit is outfitted with grounding device</li> <li>• Verify pumping unit over pressurization device</li> <li>• Verify signs posted</li> </ul> | <p>MODU 09/9.16.6.3 &amp; .4</p> <p>MODU 09/9.16.6.1.1</p> <p>MODU 09/9.16.6.1.2</p> <p>MODU 09/9.16.6.2</p> <p>MODU 09/9.16.6.5</p> <p>MODU 09/9.16.6.9</p> <p>MODU 09/9.16.6.8</p> <p>MODU 09/9.16.6.10</p>                   | <p>46. Examine Marine Operating Manual (MOM)</p> <ul style="list-style-type: none"> <li>• Verify approval</li> <li>• Verify hazardous locations are identified</li> <li>• Verify manual addresses normal and emergency activities</li> <li>• Verify contents are in English and other language(s) understood by personnel on board</li> <li>• Verify stability calculations contained in manual are approved (stamp/letter)</li> <li>• Verify changes affecting lightship data are maintained in lightship data alterations log</li> <li>• Examine alternative stability criteria accepted by Flag State (when</li> </ul>   | <p>MODU 09/14.1.1</p> <p>MSM II/G.3.F</p> <p>MODU 09/14.1.2.15</p> <p>MODU 09/14.1.3 &amp; .4</p> <p>MODU 09/14.1.6</p> <p>MSM II/G.3.F</p> <p>MODU 09/14.1.2.9 thru .12</p> <p>MSM II/G.3.E</p> <p>MODU 09/3.1</p> <p>MODU 09/14.1.2.9 &amp; 1.3.2</p> <p>MODU 09/3.3.3</p> <p>MSM II/G.3.E</p>  |

- applicable)
- Verify Dynamic Positioning operational requirements
- MODU 09/14.1.3.13
- latched up)
- Verify system meets stated classification
- MODU 09/4.3  
IMO MSC/Circ. 645 3.2
47. Examine Emergency Evacuation Plan (EEP)
- Determine applicability
  - Verify approval letter is on board
  - Verify content
  - Verify revision pages for changes
  - Verify EEP is applicable to unit's current location and reflects on site conditions
- 33 CFR 146.201 & .210  
33 CFR 146.210(a) & .140(b)  
33 CFR 146.140(d)  
MSM II/G.3.K  
33 CFR 146.140(d)(3)
115. Examine DP's thruster system(s)
- Conduct meeting on test procedures
  - Verify system meets stated classification
  - Confirm thrusters are station keeping IAW WSOG
  - Witness standby thruster(s) automatically come on line
  - Verify thruster(s) not in operation are at zero pitch and speed
  - Verify manual thruster controls
- MODU 09/4.13  
IMO MSC/Circ. 645 2.2  
IMO MSC/Circ. 645 3.3.1  
IMO MSC/Circ. 645 3.3.2  
IMO MSC/Circ. 645 3.3.4
116. Examine DP's control systems
- Witness automatic transfer of operational control to redundant control system
  - Verify audible and visual alarms
  - Review alarms records
  - Verify arrangements to prevent failures from transferring from one system to another
  - Verify operation of uninterruptive power supply
  - Identify vessel position reference systems and sensors
  - Witness operation of loss of position reference system and sensor alarms
- MODU 09/4.13  
IMO MSC/Circ. 1580 3.1.4  
IMO MSC/Circ. 1580 3.1.4  
MODU 09/4.13  
IMO MSC/Circ. 645 3.4.1.5  
MODU 09/4.13  
IMO MSC/Circ. 645 3.4.1.5  
MODU 09/4.13  
IMO MSC/Circ. 645 3.4.2.5 & 3.4.1.6  
MODU 09/4.13  
IMO MSC/Circ. 645 3.4.2.7  
MODU 09/4.13  
IMO MSC/Circ. 645 3.4.3 thru 3.4.4  
MODU 09/4.13  
IMO MSC/Circ. 645 3.4.3-3.4.4
48. Examine construction portfolio (booklet)
- Verify presence of copy
- MODU 09/2.13
49. Examine Oil Record Book Part I (ORB)\*
- Verify presence
  - Verify validity and proper entries
  - Verify presence of completed ORBs
- MARPOL I/17.1  
MARPOL I/17.6-.7  
MARPOL I/17.2-.5  
IMO MEPC.1/Circ.736/Rev.2  
MARPOL I/17.6
50. Examine Oil Record Book (ORB) Part II (when applicable)
- Determine applicability
  - Verify operation entries
  - Verify each completed operation and page is signed
  - Verify entries for any failures of oil discharge monitoring system
- MARPOL I/36  
MARPOL I/36.2  
MARPOL I/36.5  
MARPOL I/36.6
51. Examine Shipboard Oil Pollution Emergency Plan (SOPEP)\*
- Verify presence
  - Verify validity
- MARPOL I/37.1  
MARPOL I/37.2  
MARPOL I/37.3
52. Examine Non-Tank Vessel Response Plan (NTRP)\*
- Verify presence
- 33 USC 1321(a)(26)
117. Examine helideck
- Examine operation and arrangement of helicopter deck lights
- MODU 09/13.5.20  
MODU 09/13.5.22 thru 26

## Heli-Deck

- 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
- Verify safety relief valves  
FSS Code 5.2.2.4.11 & .12  
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

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

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

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

- (when applicable)
- Verify drill floor has adequate coverage for area
  - Verify condition of nozzles and piping
  - Verify access to system activation points
  - Verify protection of components
  - Verify on Fire Control Plan
105. Examine fire-fighter's outfits\*
- Verify storage location consistent with Fire Control Plan
  - Verify quantity
  - Verify condition of personal equipment
  - Verify condition of breathing apparatus
  - Verify condition of lifeline
  - Verify presence of spare charges
106. Examine portable fire extinguishers\*
- Verify locations consistent with Fire Control Plan
  - Verify stowage
  - Verify condition of extinguishers
  - Verify presence of spare charges
107. Examine Fire Control Plan\*
- Verify currency of plan(s) or booklets
  - Verify plan or booklet is in required languages
  - Verify content of plan(s) or booklet
  - Verify stowage of duplicate set of plan(s)
- 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)
  - Verify presence of current and applicable Tide Tables
  - Verify presence of current and applicable Coast Guard Light List
  - Verify presence of COLREGS
  - Verify presence of current and applicable U.S. Coast Pilot
  - Verify presence of International Code of Signals
  - Verify presence and contents of maneuvering fact sheet
  - Verify presence of International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual, Vol. III
65. Examine echo-sounding device\*
- Verify presence of echo-sounding device or other electronic means
  - Verify continuous recording of depth readings
66. Examine electronic position fixing device\*
- Verify presence
  - Verify operation
67. Examine radar(s) and Automatic Radar Plotting Aid (ARPA)\*
- Verify presence and type
  - Witness operational test
  - Verify independent operation
  - Witness operational test of ARPA
- MODU 09/11.10.1  
SOLAS 14 V/19.2.1.4, 27
- SOLAS 14 V/27
- 33 CFR 164.33  
SOLAS 14 V/27  
COLREG A/1  
SOLAS 14 V/27
- SOLAS 14 V/21.1
- SOLAS 14 II-1/28.3  
IMO Res A.601(15)  
SOLAS 14 V/21.2
- MODU 09/11.10.1  
SOLAS 14 V/19.2.3.1  
33 CFR 164.35(i)
- MODU 09/11.10.1  
SOLAS 14 V/19.2.1.6  
SOLAS 14 V/19.2.1.6
- MODU 09/11.10.1  
SOLAS 14 V/19.2.3.2, 19.2.7.1  
SOLAS 14 V/19.2.3.2  
SOLAS 14 V/19.2.7.1  
33 CFR 164.37(a)  
SOLAS 14 V/19.2.8.1
- MODU 09/9.8.1(c)  
MODU 09/9.8.3(c) & 9.19.2  
MODU 09/9.8.2(c)  
MODU 09/9.8.1(c)  
MODU 09/9.9.18(c)  
MODU 09/9.13.3  
MODU 09/9.18  
MODU 09/9.13  
MODU 09/9.19.3.2  
FSS Code 3.2.1.1  
MODU 09/9.19.3.2  
FSS Code 3.2.1.2  
MODU 09/9.19.3.2  
FSS Code 3.2.1.3  
MODU 09/9.13.2  
MODU 09/9.9; 9.18  
MODU 09/9.9.1 & .2  
SOLAS 14 II-2/10.3.2  
MODU 09/9.5; 9.19.3.2  
FSS Code 4.2  
MODU 09/9.9.1  
SOLAS 14 II-2/10.3.3  
MODU 09/9.18  
SOLAS 14 II-2/15.2.4.1  
SOLAS 14 II-2/15.2.4.1  
SOLAS 14 II-2/15.2.4.1  
SOLAS 14 II-2/15.2.4.2

<input type="checkbox"/>	68. Examine compasses*	<ul style="list-style-type: none"> <li>• Verify presence of illuminated magnetic compass</li> <li>• Verify presence of gyrocompass and illuminated repeater(s)</li> <li>• Verify presence of spare magnetic compass</li> <li>• Verify presence of deviation table</li> </ul>	MODU 09/11.10.1 SOLAS 14 V/19.2.1.1 SOLAS 14 V/19.2.5.1 & .2 SOLAS 14 V/19.2.5.3 SOLAS 14 V/19.2.2.1	<ul style="list-style-type: none"> <li>• Verify operation</li> <li>• Verify power sources</li> </ul>	MODU 09/9.5 & .10 FSS Code 9.2.1, .3, .4 & 9.2.5.1 MODU 09/9.5 FSS Code 9.2.2
<input type="checkbox"/>	69. Examine Voyage Data Recorder (VDR)*	<ul style="list-style-type: none"> <li>• Verify presence of VDR or simplified VDR (S-VDR)</li> <li>• Examine Certificate of Compliance</li> </ul>	33 CFR 164.35(c)	101. Examine flammable gas and alarm system(s)	MODU 09/9.11.1 MODU 09/9.11.1 MODU 09/9.11.2
<input type="checkbox"/>	70. Examine Automatic Identification System (AIS)*	<ul style="list-style-type: none"> <li>• Verify presence</li> <li>• Witness operation</li> </ul>	MODU 09/11.10.1; SOLAS 14 V/20 IMO Res A.861(20) SOLAS 14 V/18.8	102. Examine apparatus for recharging air cylinders	MODU 09/9.14.2 & .6 MODU 09/9.14.1
<input type="checkbox"/>	71. Examine radiotelephone (VHF)*	<ul style="list-style-type: none"> <li>• Verify installation</li> <li>• Verify digital selective calling (DSC) capability</li> <li>• Verify adequate independent illumination</li> <li>• Verify radio is clearly marked with call sign, ship station identity and other codes as applicable</li> <li>• Verify operation of lifeboat radios</li> </ul>	MODU 09/11.10.1 SOLAS 14 V/19.2.4 SOLAS 14 V/19.2.4.7 IMO Res A.917(22)	103. Examine fire main system(s)	MODU 09/9.7.1 MODU 09/9.7.3 & .6 MODU 09/9.7.6 MODU 09/9.7.5 MODU 09/9.7.9 MODU 09/9.7.19 thru .23 MODU 09/9.7.15
<input type="checkbox"/>	72. Examine Global Maritime Distress and Safety System (GMDSS) equipment*	<ul style="list-style-type: none"> <li>• Verify appropriate equipment for assigned sea area(s)</li> <li>• Examine radio records</li> <li>• Verify emergency source of power</li> <li>• Verify stowage of Search and Rescue Transponder(s) (SART)</li> </ul>	MODU 09/11.3 SOLAS 14 IV/8-11 SOLAS 14 IV/17 SOLAS 14 IV/13 SOLAS 14 IV/7.1.3 SOLAS 14 III/6.2.2	104. Examine deluge system	MODU 09/9.7.23 MODU 09/9.8.1(c) MODU 09/9.8.1(c)

- 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

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



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 flotation 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)
- 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



<ul style="list-style-type: none"> <li>instructions posted</li> <li>Verify container markings</li> <li>Verify identification/maintenance cards are accurate</li> </ul>	<p>MODU 09/10.3 LSA 4.2.6.3</p> <p>MODU 09/10.1.4 &amp; 10.3 SOLAS III/31.1.1.2</p>	<p>80. Examine storage of gas cylinders</p> <ul style="list-style-type: none"> <li>Verify permanent piping for oxyacetylene installation (when applicable)</li> <li>Examine gas cylinders carried in enclosed spaces (when applicable)</li> <li>Verify storage of cylinders</li> <li>Verify process for removal of gas cylinders</li> <li>Verify labeling/warning signs</li> </ul>	<p>MODU 09/9.17.1.1</p> <p>MODU 09/9.17.1.2 MODU 09/9.17.1.3</p> <p>MODU 09/9.17.1.2 MODU 09/9.17.1.6</p> <p>MODU 09/9.17.1.4</p> <p>MODU 09/9.17.1.5</p>
<p>91. Examine lifeboats</p> <ul style="list-style-type: none"> <li>Verify type approval</li> <li>Verify stowage</li> <li>Determine rated capacity from data plate</li> <li>Verify required exterior markings</li> <li>Examine release gear</li> <li>Verify required equipment is present</li> <li>Witness operation of engine</li> <li>Verify sprinkler system components and operation</li> <li>Verify self-contained air system components and operation</li> <li>Verify instructions inside for release gear</li> <li>Verify fire protection components and operations</li> <li>If lifeboat is dual-service designated as a rescue boat, verify additional required equipment<sup>(b)</sup></li> </ul>	<p>MODU 09/10.1.2, 3.1 MODU 09/10.3.4</p> <p>MODU 09/10.6</p> <p>MODU 09/10.1.2 LSA Code 4.4.1.2 &amp; 4.4.2.2</p> <p>MODU 09/10.3.1 &amp; .4 LSA 1.2.2.7 &amp; 4.4.9</p> <p>MODU 09/10.7.1, .3 &amp; 10.18.12.2 LSA Code 4.4.7.6.1 thru .15 &amp; .17</p> <p>MODU 09/10.6.1.4 LSA Code 4.4.8</p> <p>MODU 09/10.18.1 &amp; 10.18.7.2</p> <p>MODU 09/10.3.1 &amp; .4 LSA Code 10/4.9</p> <p>MODU 09/10.3.1 &amp; 10.3.4 LSA Code 10/4.8</p> <p>MODU 09/10.17 LSA 4.4.7.6.3, .5 &amp; .6</p> <p>MODU 09/10.1.5 MODU 09/10.18.1</p> <p>MODU 09/10.8 LSA 5.1.2</p> <p>MODU 09/10.18.1</p> <p>MODU 09/10.7.1, 7.10 thru .12 LSA Code 6.1.1.1 thru 6.1.2.13</p> <p>MODU 09/10.7.2 LSA Code 6.1.2.2</p> <p>MODU 09/10.7.5</p>	<p>81. Examine hydrogen sulphide (sulfide) (H<sub>2</sub>S) detection and alarm system</p> <ul style="list-style-type: none"> <li>Verify areas monitored</li> <li>Verify operation of audible and visual indicators</li> <li>Verify automatic activation of helideck status light if not acknowledged</li> <li>Verify sufficient portable gas detectors</li> </ul> <p>82. Examine means of escape</p> <ul style="list-style-type: none"> <li>Verify means of escape and confirm accessibility</li> <li>Verify emergency escape lighting arrangements</li> <li>Verify escape route is marked and illuminated</li> <li>Verify arrangement of machinery space escape ladders</li> <li>Verify Emergency Escape Breathing Devices (EEBDs) in escape routes</li> <li>Verify EEBDs are in serviceable condition</li> </ul> <p>83. Avoid inadvertent entry into a confined space</p> <ul style="list-style-type: none"> <li>Determine confined space(s)</li> <li>Evaluate potential hazards</li> </ul>	<p>MODU 09/9.12.1 MODU 09/9.12.1</p> <p>MODU 09/9.12.1</p> <p>MODU 09/9.12.2</p> <p>MODU 09/9.4.1.3</p> <p>MODU 09/5.4.6.1</p> <p>MODU 09/9.4.1.4</p> <p>MODU 09/9.4.2</p> <p>MODU 09/9.6</p> <p>MODU 09/9.6</p> <p>FSS Code 3.2.2</p> <p>29 CFR 1915, Part B MSM I/10 &amp; App. A MSM I/10 App. A, C, D, F &amp; G</p>
<p>92. Examine boat davits</p> <ul style="list-style-type: none"> <li>Examine condition of davit(s) and associated components</li> <li>Verify survival craft launching arrangement</li> <li>Verify davit operator has unobstructed view during launching and recovery operations</li> <li>Verify falls are of adequate length for survival craft to reach water</li> </ul>	<p>MODU 09/10.7.5</p>	<p>83. Avoid inadvertent entry into a confined space</p> <ul style="list-style-type: none"> <li>Determine confined space(s)</li> <li>Evaluate potential hazards</li> </ul>	<p>MODU 09/9.6 FSS Code 3.2.2</p> <p>29 CFR 1915, Part B MSM I/10 &amp; App. A MSM I/10 App. A, C, D, F &amp; G</p>

<ul style="list-style-type: none"> <li>• Mitigate potential hazards</li> </ul>	<p>MSM II/G.1.J 29 CFR 1915, Part B MSM II/G.1.J</p>	<ul style="list-style-type: none"> <li>• Verify operating instructions are posted in the vicinity</li> <li>• Verify boat markings</li> <li>• Verify type approval data plate</li> <li>• Witness operation of engine</li> <li>• Verify required equipment and proper storage</li> <li>• Verify dedicated rescue boat is provided</li> </ul>	<p>MODU 09/10.17 MODU 09/10.8 LSA 5.1.1.1 &amp; 4.4.9 MODU 09/10.8 LSA 1.2.2.9 MODU 09/10.18.7.2 MODU 09/10.8 LSA 5.1.2 MODU 09/10.8 MSC.435(98)</p>
<p><input type="checkbox"/> 84. Examine refrigerator and dry food stores*</p> <ul style="list-style-type: none"> <li>• Verify adequate food for size of crew &amp; intended voyage</li> <li>• Verify free of insects and/or rodents</li> <li>• Verify operation of emergency escape alarm/device (refrigerators)</li> </ul>	<p>ILO-147 p30/2 COMDTINST 16711.12A 7(1)(f) ILO-147 p39/1(b) COMDTINST 16711.12A 7(1)(f) ILO-147 p31/1(c)</p>		
<p><input type="checkbox"/> 85. Examine sanitation areas*</p> <ul style="list-style-type: none"> <li>• Verify quantity of showers and toilets</li> <li>• Verify operation of toilets</li> <li>• Verify hot and cold running water</li> <li>• Verify lighting, heating and ventilation</li> <li>• Assess for unsanitary or hazardous conditions</li> </ul>	<p>ILO-147 p36/18-20 COMDTINST 16711.12A 7(1)(d) ILO-147 p37/21(f) COMDTINST 16711.12A 7(1)(d) ILO-147 p37/21(c) COMDTINST 16711.12A 7(1)(d) ILO-147 p37/21(b) ILO-147 p44/3(a) COMDTINST 16711.12A 7(1)(d)</p>	<p><input type="checkbox"/> 88. Examine muster and embarkation stations</p> <ul style="list-style-type: none"> <li>• Verify muster and embarkation stations arrangements</li> <li>• Verify arrangement to allow for stretcher accessibility into survival craft before launching</li> <li>• Verify davit-launched liferaft embarkation stations arrangements (if installed)</li> <li>• Verify emergency lighting configuration and operation</li> <li>• Witness emergency lighting testing</li> </ul>	<p>MODU 09/10.4.1, .2, .5 &amp; .6 MODU 09/10.4.5 MODU 09/10.6.2 &amp; 10.6.6 MODU 09/5.4.6.1.1 MODU 09/10.4.3 &amp; .7 MODU 09/10.18.8</p>
<p><input type="checkbox"/> 86. Examine general emergency systems</p> <ul style="list-style-type: none"> <li>• Verify alarm activation points</li> <li>• Verify operational test of audible and visual general alarm signals</li> <li>• Verify connection to emergency power source</li> <li>• Verify public address system is audible</li> <li>• Verify general alarm system tests</li> </ul>	<p>MODU 09/5.7.2 MODU 09/5.7.2 IMO Res A.1021(26) MODU 09/5.4.6.4.1 MODU 09/5.7.3 MODU 09/10.18.7.4 MODU 09/14.16.2.6</p>	<p><input type="checkbox"/> 89. Examine fixed metal ladders</p> <ul style="list-style-type: none"> <li>• Verify locations and accessibility to waterline</li> <li>• Verify ladders and sea areas are illuminated by emergency lighting</li> <li>• Verify alternative means of escape to waterline (if fixed ladders are not installed)</li> </ul>	<p>MODU 09/10.4.7 MODU 09/10.4.7 MODU 09/10.4.8</p>
<p><input type="checkbox"/> 87. Examine rescue boat</p> <ul style="list-style-type: none"> <li>• Determine applicability<sup>(b)</sup></li> <li>• Verify embarkation and launching arrangement</li> <li>• Verify stowage</li> </ul>	<p>33 CFR 140.101 MODU 09/10.8-10.10 MODU 09/10.10 MODU 09/10.9</p>	<p><input type="checkbox"/> 90. Examine inflatable liferafts and davit-launched liferaft arrangements</p> <ul style="list-style-type: none"> <li>• Verify type approval</li> <li>• Verify liferaft capacity requirements</li> <li>• Verify stowage</li> <li>• Evaluate launching arrangements</li> <li>• Verify launching illustrations and</li> </ul>	<p>MODU 09/10.1.2 MODU 09/10.3.2, .3, .5 &amp; .6 MODU 09/10.6 MODU 09/10.3.3 &amp; 10.4.5 MODU 09/10.6.2, .6 &amp; .7 MODU 09/10.17</p>

## Lifesaving Equipment