### 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.)

<table>
<thead>
<tr>
<th>Liquid</th>
<th>bb/LT</th>
<th>m³/t</th>
<th>bbl/m³</th>
<th>bbl/t</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshwater</td>
<td>6.40</td>
<td>1.00</td>
<td>6.29</td>
<td>6.29</td>
</tr>
<tr>
<td>Saltwater</td>
<td>6.24</td>
<td>.975</td>
<td>6.13</td>
<td>5.98</td>
</tr>
<tr>
<td>Heavy Oil</td>
<td>6.77</td>
<td>1.06</td>
<td>6.66</td>
<td>7.06</td>
</tr>
<tr>
<td>DFM</td>
<td>6.60</td>
<td>1.19</td>
<td>7.48</td>
<td>8.91</td>
</tr>
<tr>
<td>Lube Oil</td>
<td>7.66</td>
<td>1.20</td>
<td>7.54</td>
<td>9.05</td>
</tr>
</tbody>
</table>

#### Weight

- 1 Long Ton = 2240 lbs
- 1 Short Ton = 2000 lbs
- 1 Barrel (oil) = 5.61 ft = 42 gal = 6.29 m³
- 1 Cubic Foot = 7.48 gal
- 1 psi = 0.06895 Bar = 2.3106 ft of water

#### Temperature: Fahrenheit = Celsius (\( F = \frac{9}{5} C + 32 \) and \( C = \frac{5}{9} (F - 32) \))

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Fahrenheit</th>
<th>Celsius</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>-17.8</td>
<td>-27.8</td>
</tr>
<tr>
<td>32</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>40</td>
<td>4.4</td>
<td>1.1</td>
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<tr>
<td>50</td>
<td>10.0</td>
<td>3.8</td>
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<tr>
<td>60</td>
<td>15.6</td>
<td>6.7</td>
</tr>
<tr>
<td>70</td>
<td>21.1</td>
<td>6.1</td>
</tr>
</tbody>
</table>

#### Pressure: Bars = Pounds per square inch

- 1 Bar = 14.5 psi
- 2 bars = 29.0 psi
- 3 Bars = 43.5 psi
- 4 Bars = 58.0 psi
- 5 Bars = 72.5 psi
- 6 Bars = 87.0 psi
- 7 Bars = 101.5 psi
- 8 Bars = 116.0 psi
- 9 Bars = 130.5 psi
- 10 Bars = 145.0 psi
- 2 bars = 29.0 psi
- 3 Bars = 43.5 psi
- 4 Bars = 58.0 psi

---

**United States Coast Guard**

**MOBILE OFFSHORE DRILLING UNIT INSPECTOR**

**(Option C)**

**Job Aid**

<table>
<thead>
<tr>
<th>Name of MODU</th>
<th>Flag</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
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<th>Activity Number</th>
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<tr>
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<table>
<thead>
<tr>
<th>Date Completed</th>
<th>Priority</th>
<th>Points</th>
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<tr>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**MODU in Compliance with:**

- ☐ 2009 MODU Code
- ☐ 1989 MODU Code
- ☐ 1979 MODU Code

**Type of COC Exam:**

- ☐ Initial
- ☐ Renewal
- ☐ Annual

**Examination Team Members:**

1. ________________
2. __________________
3. __________________
4. __________________

---

Job Aid MUI-C
Rev. Oct 2018

DCN: MPS-JA-TCY-MUI-C(1)
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:

<table>
<thead>
<tr>
<th>Pre-inspection Items</th>
<th>Post-inspection Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review MISLE records</td>
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</tr>
<tr>
<td>Obtain copies of forms to be issued</td>
<td></td>
</tr>
<tr>
<td>Issue letters/certificates to vessel</td>
<td></td>
</tr>
<tr>
<td>Forms A &amp; B, or</td>
<td></td>
</tr>
<tr>
<td>CG-3585 Deficiency Report, and</td>
<td></td>
</tr>
<tr>
<td>COC (issue or endorse)</td>
<td></td>
</tr>
<tr>
<td>Complete MISLE entries within 48 hours</td>
<td></td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Dates</th>
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</thead>
<tbody>
<tr>
<td>ITC 1969</td>
<td>18 JUL 82</td>
</tr>
<tr>
<td>Load Line 1966</td>
<td>21 JUL 68</td>
</tr>
<tr>
<td>Load Line 88 Protocol</td>
<td>03 FEB 00</td>
</tr>
</tbody>
</table>

**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) 01 JUL 06
- MSC 223(82) 01 JUL 08
- MSC 270(85) 01 JUL 10
- MSC 329(90) 01 JAN 14
- MSC 356(92) 01 JAN 15
- MSC 375(93) 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 01 JAN 12
- MODU Code 1989 01 MAY 91
- MODU Code 1979 31 DEC 81

**Load Line 1966**

**Load Line 88 Protocol**

- 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) 01 JUL 06
- MSC 223(82) 01 JUL 08
- MSC 270(85) 01 JUL 10

**Primary Lifesaving Applicability**

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

<table>
<thead>
<tr>
<th>Non-confined spaces that may pose a risk (All vessel types)</th>
<th>Possible Hazard(s)</th>
<th>Safe Work Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO₂ Storage Room</td>
<td>O₂ deprivation due to leaking CO₂</td>
<td>Ensure proper ventilation, wear O₂ meter</td>
</tr>
<tr>
<td>Machinery Spaces</td>
<td>Noise, Flammability, Toxicity; MSDs – H₂S</td>
<td>Hearing protection</td>
</tr>
<tr>
<td>Flammable Storage Lockers/Paint Rooms</td>
<td>Flammability, Toxicity</td>
<td>Ensure proper ventilation</td>
</tr>
<tr>
<td>Battery Room</td>
<td>Toxicity -</td>
<td>Ensure proper ventilation</td>
</tr>
<tr>
<td>Bos’n Shop</td>
<td>O₂ deprivation</td>
<td>Ensure proper ventilation</td>
</tr>
<tr>
<td>Workshops</td>
<td>Toxicity from welding fumes, Flammability, Noise</td>
<td>Ensure proper ventilation</td>
</tr>
<tr>
<td>Compressor Rooms(1)</td>
<td>O₂ deprivation, Flammability</td>
<td>See Note 1</td>
</tr>
<tr>
<td>Provisions/Non-Flammable Storage</td>
<td>O₂ deprivation</td>
<td>Ensure proper ventilation</td>
</tr>
<tr>
<td>Open Cargo Deck</td>
<td>Flammability</td>
<td>Ensure use of intrinsically safe radios, flashlight, phone, etc.</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Confined Spaces</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voids/Cofferdams†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Sealed Compartments†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Double Bottoms/Sides/Duct Keels†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Spaces Coated with a Preservative†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Engine Crankcases/Scavenging Spaces†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Large Heat Exchangers†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Fuel/Lube Oil/Sludge Tanks†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Water tanks†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Cargo/Slop Tanks†</td>
<td>P– O; S– F, T</td>
</tr>
<tr>
<td>Pump Rooms (if provided)</td>
<td>P– O; S– F, T</td>
</tr>
</tbody>
</table>

†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.

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

Hazard 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”

Involved Parties & General Information:

Owner—Listed on DOC or COFR

Operator

No Change
Modu Information:

<table>
<thead>
<tr>
<th>Classification Society</th>
<th>Last Drydocking Date</th>
<th>Next Drydocking Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Location of Last Drydocking</th>
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<table>
<thead>
<tr>
<th>Date of Last Class Survey</th>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Outstanding conditions of class or non-conformities</th>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Conversions/Modifications</th>
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<table>
<thead>
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<th>Date of Last Flag State Inspection</th>
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<table>
<thead>
<tr>
<th>Built Date (use delivery date)</th>
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<table>
<thead>
<tr>
<th>Overall Length (in feet)</th>
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</table>

<table>
<thead>
<tr>
<th>MODU Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-Elevating</td>
</tr>
<tr>
<td>Mat-Supported</td>
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<tr>
<td>Independent Leg</td>
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</table>

<table>
<thead>
<tr>
<th>Drillship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamically Positioned</td>
</tr>
</tbody>
</table>

Man Overboard Drill:

Familiarity with duties
- Boat launch
- Boat release
- Boat operation
- Crew equipment
- Boat equipment
MODU 09/14.13.1st

Location: __________________________ Time to Water: _________

Notes: __________________________________________________

<table>
<thead>
<tr>
<th>Location: __________________________</th>
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<table>
<thead>
<tr>
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<table>
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<th>Notes: __________________________________________________</th>
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<table>
<thead>
<tr>
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<tr>
<th>Location: __________________________</th>
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<table>
<thead>
<tr>
<th>Time to Water: _________</th>
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<table>
<thead>
<tr>
<th>Notes: __________________________________________________</th>
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<thead>
<tr>
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<table>
<thead>
<tr>
<th>Time to Water: _________</th>
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<table>
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<tr>
<th>Notes: __________________________________________________</th>
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<table>
<thead>
<tr>
<th>Location: __________________________</th>
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<table>
<thead>
<tr>
<th>Time to Water: _________</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Notes: __________________________________________________</th>
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<table>
<thead>
<tr>
<th>Location: __________________________</th>
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<table>
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<tr>
<th>Time to Water: _________</th>
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<thead>
<tr>
<th>Notes: __________________________________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
### Abandonment Drill:
- General alarms / signals: Familiarity with duties
- Muster lists: Provide equipment
- Muster of crew / passengers: Familiarity with equipment
- Crew response: Lower lifeboat
- Language understood by crew: Brake operation
- Lifejackets: Engine start
- MODU 09/14.13.2
- Location: ________________
- Time to Water: ________

#### Notes:
- __________________________
- __________________________
- __________________________
- __________________________
- __________________________
- __________________________
- __________________________
- __________________________
- __________________________
- __________________________
- __________________________

### Certificates and Documents

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<thead>
<tr>
<th></th>
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</table>
### Certificates and Documents (Cont)

<table>
<thead>
<tr>
<th>Port Issued/Issuing Agency</th>
<th>Name of Certificate</th>
<th>Endors.</th>
<th>Issue Date</th>
<th>Exp Date</th>
<th>ID #</th>
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<tr>
<td></td>
<td>International Load Line (ILLC)</td>
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<td>ISM Safety Management (SMC)</td>
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<td>Minimum Safe Manning (MSM)</td>
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<td></td>
<td>ISM Document of Compliance (DOC)</td>
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<td></td>
<td>Continuous Synopsis Record (CSR)</td>
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<td></td>
<td>International Ship Security (ISSC)</td>
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<tr>
<td></td>
<td>International Load Line (ILLC) (cont)</td>
<td>No Change</td>
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</table>

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<thead>
<tr>
<th>Date</th>
<th>Notes:</th>
<th>Time on Scene:</th>
</tr>
</thead>
</table>

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**Section 4: Drill Record Sheets**

**Fire Drill:**
- Initial notifications
- General alarms / signals
- Crew response
- Faintly dressed / equipped
- Language understood by crew
- Fire pumps started
- Two jets of water
- Fire doors and dampers
- Communications w/ bridge

**Location:** MODU 0914:13.2

**Notes:**
<table>
<thead>
<tr>
<th>Name of Certificate</th>
<th>Endors. Date</th>
<th>Exp Date</th>
<th>Issue Date</th>
<th>Port Issued/ Country</th>
<th>ID #</th>
<th>Certificates and Documents (Cont)</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Sewage Pollution Prevention (ISP)</td>
<td></td>
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<tr>
<td>International Anti-Pollution Prevention (IAPP)</td>
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<tr>
<td>International Anti-Fouling Systems (IAFS)</td>
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<tr>
<td>Safety Construction Certificate</td>
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<tr>
<td>Safety Equipment Certificate</td>
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<td>Safety Radio Certificate</td>
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<tr>
<td>Cargo Ship Certificates Voluntarily carried in addition to the MODU Safety Certificate:</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

- 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"
### 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)
   - Locate vessel in MISLE
   - Verify documents are current in MISLE
   - Review history (narratives, deficiencies & special notes)
   - Verify status of user fees
   - Prepare folder and required documents
   - Verify status of Certificate of Financial Responsibility (e-COFR)
   - Generate new activity
   - Verify submittal of Environmental Protection Agency (EPA) Notice of Intent (NOI)

2. **Coordinate inspection/examination with vessel's representative**
   
   - Identify vessel's representative
   - Confirm vessel arrival time, destination, inspection/examination based on Advanced Notice of Arrival (ANOA)
   - Articulate examination expectations
   - Confirm COI/COC issuance
   - Verify owner/operator information
   - Verify Classification Society information
   - Confirm MISLE targeting score with information attained from vessel representative

3. **Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity**
   
   - Update examination results with deficiencies issued on CG 835V/Form B
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

☐ 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

☐ 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

Security

☐ 6. Verify security training & records*
- Verify presence of trained and designated Ship Security Officer

☐ 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

☐ 149. Evaluate man overboard drill
- Verify man overboard drills are conducted
- Witness launching, operation, and maneuvering of rescue boat

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

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

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>15. Verify presence and approved and valid Ship Security Plan</td>
<td>ISPS A/9.1, 9.4 &amp; 9.8 MSM II/D.1.H.4</td>
</tr>
<tr>
<td>16. Examine security drill records</td>
<td>ISPS A/10.1.1 &amp; 13.4 MSM II/D.1.H.7.a</td>
</tr>
<tr>
<td>17. Examine security exercise records</td>
<td>ISPS A/10.1.1 &amp; 13.5 MSM II/D.1.H.7.a</td>
</tr>
<tr>
<td>18. Examine records of crew training</td>
<td>ISPS A/13.3 MSM II/D.1.H.7.a</td>
</tr>
<tr>
<td>19. Examine Declarations of Security</td>
<td>ISPS A/5.2 &amp; 5.7 MSM II/D.1.H.4</td>
</tr>
</tbody>
</table>

**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

**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

<table>
<thead>
<tr>
<th>Item</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>50. Evaluate stowage of flammable and hazardous material</td>
<td>46 CFR 147.45</td>
</tr>
<tr>
<td>51. Verify fire protection equipment provided for space</td>
<td>46 CFR 147.65</td>
</tr>
<tr>
<td>52. Verify intrinsically safe electrical installations</td>
<td>SOLAS 14 II-2/10.6.3</td>
</tr>
<tr>
<td>53. Examine security drill records</td>
<td>ISPS A/10.1.1 &amp; 13.4 MSM II/D.1.H.7.a</td>
</tr>
<tr>
<td>54. Examine security exercise records</td>
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**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 Lifeboatersmen
  - Verify letters of determination or exemption letter for foreign national(s)
  - Verify Dynamic Positioning operator's certificate(s) is valid

  - Determine applicability
  - Verify presence
  - Verify validity
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)
     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 (Task BN-07) matches certificate ICLL Reg 9

   - 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)

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)

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

143. Examine standard discharge connection*
   - Verify presence 33 CFR 155.430
     MARPOL I/13
   - Verify condition 33 CFR 155.430

144. Examine paint lockers*
- 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 MODU 09/3.6.1
- Assess condition of ventilator closures MODU Code 3.6.5.2
- Verify quick-acting type doors local/remote alarms (when applicable) MODU 09/3.6.5.1 & .3 SOLAS 04/25-9.2
- Verify local/remote operation of power operated watertight door opening and closing controls MODU 09/3.6.5.3 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/alarms (OCM)*
- Verify type of oily water separator MARPOL I/14

- 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)
- 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
Verify intrinsically safe components (cables, boxes, etc.) are separated from non-intrinsically safe equipment

Verify equipment labeling

Verify equipment has approved control drawings

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
   - 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
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
  MSM II/G.3.F

132. Examine intrinsically safe electrical equipment in hazardous locations
- Verify components/equipment are approved
  MODU 09/6.6.3
  IEC 60079-14 & -25
  IEC 60529
- Verify compliance with ballast water record keeping requirements
  VGP 4.3
  CG-543 Policy Ltr 11-01
  VGP 4.4.1
  VGP 4.4.2
- Verify noncompliance & reportable quantity reports have been submitted
  MODU 09/14.10.10
  MODU 09/14.11
- Verify muster lists and emergency instructions are available
  MODU 09/14.10
  MODU09/14.11
- Verify muster lists and emergency instructions are posted
  MODU 09/14.10.11 thru .16
  MODU 09/14.11.1 & .2
- Verify information on muster lists and emergency instructions
  MODU 09/14.10.10 thru .16
  MODU 09/14.11.1 & .2
- Verify Ballast Water Management Plan
  33 CFR 151.2025(a)(1)
  NVIC 07-04 Ch. 1
- Verify Coast Guard approved Ballast Water Management System
  33 CFR 151.2025(a)(1)
  NVIC 07-04 Ch. 1
- Verify validity of AFS certificate
  AFS
  MSM II/D.1.G.1.t
- Verify Ballast Water Management System
  33 CFR 151.2050(g)
  NVIC 07-04 Ch. 1

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  MODU 09/14.11
- Verify muster lists and emergency instructions are available
  MODU 09/14.10
  MODU09/14.11
- Verify muster lists and emergency instructions are posted
  MODU 09/14.10.11 thru .16
  MODU 09/14.11.1 & .2
- Verify information on muster lists and emergency instructions
  MODU 09/14.10.10 thru .16
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  MODU 09/14.10
  MODU09/14.11
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  MODU 09/14.10.11 thru .16
  MODU 09/14.11.1 & .2
- Verify information on muster lists and emergency instructions
  MODU 09/14.10.10 thru .16
  MODU 09/14.11.1 & .2
- Verify Ballast Water Management Plan
  33 CFR 151.2025(a)(1)
  NVIC 07-04 Ch. 1
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  33 CFR 151.2025(a)(1)
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  33 CFR 151.2050(g)
  NVIC 07-04 Ch. 1
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- Verify Ballast Water Management System
  33 CFR 151.2050(g)
  NVIC 07-04 Ch. 1
- Verify operation of Oil Mist Detection system
  MODU 09/8.3.7
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

Electrical Systems
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 shut off 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 & .8.9

127. Examine transfer procedures (when applicable)*
- Determine applicability
  33 CFR 155.100
  33 CFR 155.720
- Verify availability
  33 CFR 155.720
- Verify contents
  33 CFR 155.740(c)

128. Examine switchboards
- Verify openings and accesses in
  MODU 09/5.6.3 & .5
123. Examine Unfired Pressure Vessels (UPVs)

- Determine applicability
  MODU 09/1.6.2.2
  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

- Verify marking(s) of PRV
  MODU 09/2.1.3 > Class Rules
  MSM II/G.3.G.4

- Verify arrangement of UPV
  MODU 09/4.3.2
  MSM II/G.3.G.4

- Verify marking(s) of UPV
  MODU 09/4.3.4
  ASME VIII/UG-118 thru 119

- Examine external condition of UPV
  MODU 09/2.1.3 > Class Rules
  MSM II/G.3.G.4

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(a)

- Verify different lifeboat(s) are used for each drill
  MODU 09/14.3

- Verify lifeboats and rescue boats are launched and operated
  MODU 09/14.13.5
  SOLAS 14 III/19.3.3 & .6.4
  Resolution A.1079(28)

- Examine training records for davit-launched liferaft (if applicable)
  MODU 09/14.13.5
  Resolution A.1079(28)

- 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

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

121. Examine ballast pumps installation, piping and valves
- Verify pump local/remote arrangement(s) MODU 09/4.10.1 & .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
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 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 MODU 09/12.1.5
- Verify UPV tests (when applicable) MODU 09/12.1.5
- Verify UPV five year internal inspection (when applicable) MODU 09/12.1.5
- Verify pressure relief valve (PRV) testing MODU 09/12.1.5

46. Examine Marine Operating Manual (MOM)
- Verify approval MODU 09/14.1.1
- 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
- Verify stability calculations contained in manual are approved (stamp/letter) MODU 09/14.1.2.9 thru .12
- Verify changes affecting lightship data are maintained in lightship data alterations log MODU 09/3.1
- Verify additional equipment required MODU 09/14.1.2.9 & 1.3.2
- Verify pressure relief valve (PRV) testing MODU 09/14.1.5
- Verify condition of drainage MODU 09/14.1.5

118. Examine helideck fire fighting systems
- Verify dry powder extinguishers MODU 09/14.1.1
- Verify CO2 extinguishers MODU 09/14.1.2
- Verify foam is appropriate type MODU 09/14.1.4
- Verify CO2 foam extinguishing system MODU 09/14.1.4
- Verify additional fire-fighting outfits MODU 09/14.1.6
- Verify additional equipment required MODU 09/14.1.7
- Verify condition of drainage MODU 09/14.1.8

119. Examine refueling station (if equipped)
- Inspect portable fuel storage tank(s) MODU 09/14.1.9
- Verify tank(s) are remote as practical MODU 09/14.1.10
- Verify tank(s) are isolated from ignition source(s) MODU 09/14.1.11
- Verify tank area(s) have containment MODU 09/14.1.12
- Verify emergency shutdown(s) MODU 09/14.1.13
- Verify unit is outfitted with grounding device MODU 09/14.1.14
- Verify pumping unit over pressurization device MODU 09/14.1.15
- Verify signs posted MODU 09/14.1.16
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)
- 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
- 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)

115. Examine DP's thruster system(s)
- Conduct meeting on test procedures MODU 09/4.13 IMO MSC/Circ. 645 2.2
- Verify system meets stated classification MODU 09/4.3 IMO MSC/Circ. 645 3.2
- 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
- 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 unintrruptive power supply MODU 09/4.13
- 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
- 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

- Verify validity 33 USC 1321(j)(5)(A)(ii)
- Verify contents 33 USC 1321(j)(5)(F)(i)
- Verify validity 33 USC 1321(j)(5)(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
  - Verify Declaration of Inspection (DOI) 33 CFR 155.710(e)(4)
  - Verify Declarations of Inspection (DOI) retained onboard 33 CFR 156.150
  - 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

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

- SOLAS 14 II-2/10.4.3
  - FSS Code 5.2.2.4.1
- MODU 09/9.19.4.1; .4.3.3
  - IMO MSC.1/Circ. 1318
- FSS Code 5.2.2.4.3
  - FSS Code 5.2.2.4.11 & .12
- FSS Code 5.2.2.4.3 & .4
  - FSS Code 5.2.2.4.10
- MODU 09/9.8; 9.18
  - SOLAS 14 II-2/10.4.1.2
- FSS Code 3.1 thru 3.3
  - IMO MSC/Circ.670
- MODU 09/4.13
  - IMO MSC/Circ. 645 2
- IMO MSC/Circ. 1580 4.1
- MODU 09/14.1.3.13
  - IMO MSC/Circ. 645 4
- MODU 09/4.13
  - IMO MSC/Circ. 645 4.4
- IMO MSC/Circ. 1580 4.6
- MODU 09/4.4
  - IMO MSC/Circ. 645 4.4
- IMO MSC/Circ. 1580 4.6
- MODU 09/4.13
  - IMO MSC/Circ. 645 3.2.3 & .4
  - IMO MSC/Circ. 1580 3.2.3 & .4

- MARPOL V/9.2
- MARPOL V/9.2
- IMO Res MEPC.219(63)
- MARPOL V/9.3
- MARPOL V/9.3
- MARPOL V/9.3
58. Examine sound reception system on totally enclosed bridge
   - Determine applicability MODU 09/11.10.1
   - Witness operation MODU 09/11.10.1
   - Determine applicability 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
   - 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
   - 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
   - Verify power sources FSS Code 9.2.2
   - Verify operation of alarms MODU 09/9.5
     MODU 09/5.4.6.4.2
   - 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(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
   - 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
Evaluate condition of hull anti-fouling coating

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 U.S. Coast Pilot
   - Verify presence of International Code of Signals
   - Verify presence and contents of maneuvering fact sheet

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
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)  
  MODU 09/11.10.1; 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)  
- 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  
- 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)
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
   - Verify condition/serviceability of self-activating smoke signals MODU 09/10.13.2

98. Examine life buoys*
   - Verify type approval MODU 09/10.13.1
   - 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
   - Verify size/weight MODU 09/10.13.1

**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
   - Verify SFP is as built or per approved modifications MODU 09/9.2
   - 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
   - Verify ventilation closures are compatible with fire boundary MODU 09/9.2.3
   - Verify pipes/standoffs are compatible with fire boundary MODU 09/9.3.13 thru .20
   - Verify no unapproved space modification(s) that would affect space categorization MODU 09/9.2.5

100. Examine fixed fire detection and alarm system

   - Verify operation of NAVTEX SOLAS 14 IV/7.1.4
   - Verify operation of INMARSAT ship earth station SOLAS 14 IV/7.1.5
   - 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
   - Verify operation SOLAS 14 V/19.1 .4.1
   - Verify independent source of power SOLAS 14 V/19.2.2.2

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

**General Health & Safety**

75. Examine accommodations
   - Determine structural fire protection needed MODU 09/Table 9.1 & .2
   - 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. 32 thru 35
   - Verify housekeeping practices 33 CFR 146.205(c)
   - Verify multi-cable transits (MCT's) are compatible with fire boundary MODU 09/9.2.3 & .4

76. Examine galley
   - Verify sanitary conditions 33 CFR 146.205(c)
   - Verify condition of vents and ducts MODU 09/9.2.9 & .10
   - Witness function of galley serving window closures and doors MODU 09/9.3.15 thru .21
   - Verify galley/adjacent spaces meet structural fire protection requirements MODU 09/Table 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)
- Verify approval markings and labeling are present MODU 09/10.7.1
- Verify conditions of falls, lay/spooling onto winch drum and that boat is hanging evenly in davit MODU 09/10.7.1
- Witness operational test of limit switches MODU 09/10.7.1
- Verify retrieval speed is satisfactory for lifeboats designated as rescue boat MODU 09/10.7.1
- 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.
80. Examine storage of gas cylinders
- Verify permanent piping for oxyacetylene installation (when applicable)
- Examine gas cylinders carried in enclosed spaces (when applicable)
- Verify storage of cylinders
- Verify process for removal of gas cylinders
- Verify labeling/warning signs

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

82. Examine means of escape
- Verify means of escape and confirm accessibility
- Verify emergency escape lighting arrangements
- Verify escape route is marked and illuminated
- Verify arrangement of machinery space escape ladders
- Verify Emergency Escape Breathing Devices (EEBDs) in escape routes
- Verify EEBDs are in serviceable condition

91. Examine lifeboats
- Verify type approval
- Determine rated capacity from data plate
- Verify required exterior markings
- Examine release gear
- Verify required equipment is present
- Witness operation of engine
- Verify sprinkler system components and operation
- Verify self-contained air system components and operation
- Verify instructions inside for release gear
- Verify fire protection components and operations
- If lifeboat is dual-service designated as a rescue boat, verify additional required equipment

92. Examine boat davits
- Examine condition of davit(s) and associated components
- Verify survival craft launching arrangement
- Verify davit operator has unobstructed view during launching and recovery operations
- Verify falls are of adequate length for survival craft to reach water

83. Avoid inadvertent entry into a confined space
- Determine confined space(s)
- Evaluate potential hazards
84. Examine refrigerator and dry food stores*

- Verify adequate food for size of crew & intended voyage
- Verify free of insects and/or rodents
- Verify operation of emergency escape alarm/device (refrigerators)

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

85. Examine sanitation areas*

- Verify quantity of showers and toilets
- Verify operation of toilets
- Verify hot and cold running water
- Verify lighting, heating and ventilation
- Assess for unsanitary or hazardous conditions

- Lifesaving Equipment

86. Examine general emergency systems

- Verify alarm activation points
- Verify operational test of audible and visual general alarm signals
- Verify connection to emergency power source
- Verify public address system is audible
- Verify general alarm system tests

- MODU 09/5.7.2
- MODU 09/5.7.2
- MODU 09/5.4.6.4.1
- MODU 09/5.7.3
- MODU 09/10.18.7.4
- MODU 09/14.16.2.6

87. Examine rescue boat

- Determine applicability(b)
- Verify embarkation and launching arrangement
- Verify stowage

- 33 CFR 140.101
- MODU 09/10.8-10.10
- MODU 09/10.10
- MODU 09/10.9

88. Examine muster and embarkation stations

- Verify muster and embarkation stations arrangements
- Verify arrangement to allow for stretcher accessibility into survival craft before launching
- Verify davit-launched liferaft embarkation stations arrangements (if installed)
- Verify emergency lighting configuration and operation
- Witness emergency lighting testing

- MODU 09/10.4.1,.2,.5 & .6
- MODU 09/10.4.5
- MODU 09/10.6.2 & 10.6.6
- MODU 09/5.4.6.1.1
- MODU 09/10.4.3 & .7
- MODU 09/10.18.8

89. Examine fixed metal ladders

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

- MODU 09/10.4.7
- MODU 09/10.4.7
- MODU 09/10.4.8

90. Examine inflatable life rafts and davit-launched liferaft arrangements

- Verify type approval
- Verify liferaft capacity requirements
- Verify stowage
- Evaluate launching arrangements
- Verify launching illustrations and

- MODU 09/10.1.2
- MODU 09/10.3.2,.3,.5 & .6
- MODU 09/10.6
- MODU 09/10.3.3 & 10.4.5
- MODU 09/10.6.2,.6 & .7
- MODU 09/10.17