United States Coast Guard

MOBILE OFFSHORE DRILLING UNIT INSPECTOR
(U.S. & Option A)
Job Aid

<table>
<thead>
<tr>
<th>Name of MODU</th>
<th>Flag</th>
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<tr>
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<table>
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<tr>
<th>Official/IMO Number</th>
<th>Activity Number</th>
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<th>Date Completed</th>
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<table>
<thead>
<tr>
<th>MODU in Compliance with 46 CFR Subchapter I-A:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Post-96 ☐ Pre-96 ☐ NVIC 4-78</td>
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<table>
<thead>
<tr>
<th>Type of Inspection/Exam:</th>
<th>☐ COI</th>
<th>☐ COC</th>
<th>☐ Annual</th>
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<table>
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<tr>
<th>Inspection Team Members:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. _____________________</td>
</tr>
<tr>
<td>2. _____________________</td>
</tr>
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</table>
Use of U.S./“Option A” Mobile Offshore Drilling Unit Inspection Book:

This book is intended to be used as a job aid by:
- Coast Guard inspectors on U.S. flagged Mobile Offshore Drilling Units (MODUs) worldwide; and
- Coastal state examiners (>12 NM) and port state control officers (≤ 12 NM) during boardings of foreign-flagged “Option A” MODUs.

This Job Aid contains an extensive list of possible inspection 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 inspection/examination must be determined by the inspectors 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. Inspectors must pay close attention to the applicability dates of the applicable regulations when conducting MODU inspections/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 inspect/examine mobile offshore drilling units can be found in MSM Volume II, Section G: Chapter 2: Procedures Applicable to MODUs (U.S.), and 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
  U.S.
  - CG-835V
  - COI (issue or endorse)
  Option A
  - Forms A & B, or
  - CG-3585 Deficiency Report, and
  - COC (issue or endorse)
- Complete MISLE entries within 48 hours

SUMMARY OF FOOTNOTES pertaining to applicability of steps and references:
(1) U.S. MODUs only
(2) Option “A” MODUs only
(3) U.S. MODUs on an international voyage only
(4) No U.S. or Option A MODUs are currently outfitted with cargo tank arrangements that would require ORB Part II.
(5) Self-propelled only (There is only one U.S. MODU that is currently self-propelled and that MODU is enrolled in ACP. A U.S. MODU that is self-propelled will normally carry a MODU Safety Certificate and relevant SOLAS certificates, attesting to compliance with the MODU Code and SOLAS, in which case the Option C requirements and applicable Classification Society Rules would be followed.) Option A MODUs are typically SEUs.
(6) Type approval documents will have to be consulted for fire-protected boats approved under approval series 160.035.
(7) Only one U.S. MODU currently has DP and that MODU is enrolled in ACP. A U.S. MODU that has DP capabilities will normally carry a MODU Safety Certificate and will be in compliance with the MODU Code, in which case the Option C requirements and applicable Classification Society Rules would be followed. Option A MODUs are typically SEUs.
(8) Only required with helideck refueling operations
(9) U.S. MODUs with periodically unattended machinery spaces only
(10) Only for MODUs constructed after 02Apr2018

Conversions:

### Distance and Energy
<table>
<thead>
<tr>
<th>Conversion</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kilowatts (kW)</td>
<td>X 1.341 = Horsepower (hp)</td>
</tr>
<tr>
<td>Feet (ft)</td>
<td>X 3.281 = Meters (m)</td>
</tr>
<tr>
<td>Long Ton (LT)</td>
<td>X .98421 = Metric Ton (t)</td>
</tr>
</tbody>
</table>

### Liquid (NOTE: Values are approximate)

<table>
<thead>
<tr>
<th>Liquid</th>
<th>bbl/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>
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<tr>
<td>Lube Oil</td>
<td>7.66</td>
<td>1.20</td>
<td>7.54</td>
<td>9.05</td>
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</table>

### Weight

<table>
<thead>
<tr>
<th>Weight</th>
<th>Value</th>
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<tbody>
<tr>
<td>1 Long Ton</td>
<td>2240 lbs</td>
</tr>
<tr>
<td>1 Metric Ton</td>
<td>2204 lbs</td>
</tr>
<tr>
<td>1 Short Ton</td>
<td>2000 lbs</td>
</tr>
<tr>
<td>1 Cubic Foot</td>
<td>7.48 gal</td>
</tr>
<tr>
<td>1 Barrel (oil)</td>
<td>5.61 ft = 42 gal = 6.29 m³</td>
</tr>
<tr>
<td>1 psi</td>
<td>.06895 Bar = 2.3106 ft of water</td>
</tr>
</tbody>
</table>

### Temperature: Fahrenheit = Celsius

<table>
<thead>
<tr>
<th>Temperature</th>
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<tbody>
<tr>
<td>32</td>
<td>-17.8</td>
<td>80</td>
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<tr>
<td>40</td>
<td>4.4</td>
<td>100</td>
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<td>50</td>
<td>10.0</td>
<td>110</td>
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<tr>
<td>60</td>
<td>15.6</td>
<td>120</td>
</tr>
<tr>
<td>70</td>
<td>21.1</td>
<td>150</td>
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### Pressure: Bars = Pounds per square inch

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<tr>
<th>Pressure</th>
<th>1 Bar</th>
<th>2 bars</th>
<th>3 Bars</th>
<th>4 Bars</th>
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<tbody>
<tr>
<td></td>
<td>14.5 psi</td>
<td>29.0 psi</td>
<td>43.5 psi</td>
<td>58.0 psi</td>
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<tr>
<td>5 Bars</td>
<td>72.5 psi</td>
<td>87.0 psi</td>
<td>101.5 psi</td>
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<tr>
<td>9 Bars</td>
<td>130.5 psi</td>
<td>145.0 psi</td>
<td>168.5 psi</td>
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<tr>
<td>10 Bars</td>
<td>145.0 psi</td>
<td>168.5 psi</td>
<td>192.0 psi</td>
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<td>Abandonment Drill .................................................. 53</td>
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<td>Confined Space Entry ............................................... 54</td>
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<td>Primary Lifesaving Applicability ................................ 58</td>
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<td>Conversions .......................................................... 63</td>
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# Section 1: Administrative Items

## IMO Applicability Dates:

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<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>
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**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](http://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](http://www.imo.org)

- MODU Code 2009 01 JAN 12
- MODU Code 1989 01 MAY 91
- MODU Code 1979 31 DEC 81

**Load Line 1966**

21 JUL 68

**Load Line 88 Protocol**

03 FEB 00

**Load Line (2005 edition)** contains all amendments entered into force up to 2003 Amendments. The following Amendments (resolutions) have entered into force since it was published. [www.imo.org](http://www.imo.org)

- MSC 172(79) 01 JUL 06
- MSC 223(82) 01 JUL 08
- MSC 270(85) 01 JUL 10
<table>
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<tr>
<th>STCW</th>
<th>28 APR 84</th>
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</table>

**STCW (2017 edition)** contains all amendments entered into force up to 2017 Amendments. The following Amendments (resolutions) have entered into force since it was published.

[www.imo.org](http://www.imo.org)

**Notes:**
MODU Applicability

Application for Insp/Exam as a MODU?
- Yes
  - U.S. Rules
    - Yes
      - U.S. Flagged?
        - Yes
        - IMO MODU Safety Certificate?
          - Yes
            - Option "C" *
          - No
            - Equivalent rules requested?
              - Yes
                - Panama or Marshall Islands?
                  - Yes
                    - Option "G" *
                  - No
                    - No
                      - Option "A" *
            - No
  - No
    - Yes
      - Option "C" *
    - No
      - Yes
        - Panama or Marshall Islands?
          - Yes
            - Option "G" *
          - No
            - No

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

HazLoc Marking Schemes

Division & Zone (NEC):

<table>
<thead>
<tr>
<th>Typical North American Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Division Scheme</strong></td>
</tr>
<tr>
<td>Class I</td>
</tr>
<tr>
<td>Hazard Class</td>
</tr>
<tr>
<td>Area Classification</td>
</tr>
<tr>
<td>Gas Group</td>
</tr>
<tr>
<td>Temperature Class</td>
</tr>
<tr>
<td>AEx</td>
</tr>
<tr>
<td>ia</td>
</tr>
<tr>
<td>IIC</td>
</tr>
<tr>
<td>T4 Ga</td>
</tr>
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</table>

Zone (IEC):

<table>
<thead>
<tr>
<th>Typical ATEX and IECEx Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Complies with European Directive</strong></td>
</tr>
<tr>
<td><strong>Notified Body Number</strong></td>
</tr>
<tr>
<td><strong>Equipment Group</strong></td>
</tr>
<tr>
<td><strong>Environment</strong></td>
</tr>
<tr>
<td><strong>Type of Protection</strong></td>
</tr>
<tr>
<td><strong>Gas Group</strong></td>
</tr>
<tr>
<td><strong>Temperature Class</strong></td>
</tr>
<tr>
<td><strong>Equipment Protection Level</strong></td>
</tr>
</tbody>
</table>

*ATEX only
Primary Lifesaving Applicability

U.S. & Option “A”

Built prior to 01Jan1981 (NVIC 4-78*)

100% Fire-Protected Lifeboats

*Pre-existing req’s in 4-78, 3.01(8) replaced by 61 FR 25272, 63 FR 25802.

100% Lifeboats or Davit-Launched Liferafts

or

Built 01Jun1981 – 30Sep1996
46 CFR 108.515

100% Fire-Protected Lifeboats

or

100% Lifeboats or Davit-Launched Liferafts

or

Built 01Oct1996 or later
46 CFR 108.525

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

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

100% Float-Free Liferafts

SEU Alternative, w/ OCMI Approval

Primary Lifesaving Applicability (Cont’d)

U.S. Flagged

Delivered on/after 01Oct1996?

Yes ➔ Current 46 CFR Subchapter I-A

No

Constructed after 03Jan79 or contracted before 03Jan79 w/delivery after 01Jan81

Yes ➔ Old I-A, except Primary LS IAW “Current” §108.515

No ➔ NVIC 4-78

Option “A”*

Exam’d IAW U.S. reg’s applicable to build date

Current I-A, Old I-A or NVIC 4-78, Parts 108 & 109 only

PN examined IAW PN Tech Note 1/83 (G-MV1-4 Ltr dtd 06Jun86)

MI examined IAW MI-293 (G-MOC Ltr dtd 09Aug92)

Option “B”*

Exam’d IAW accepted Flag State Rules

2009 MODU Code

Keel laid on/after 01Jan2012?

Yes ➔ 2009 MODU Code

No

Keel laid on/after 01May1993?

Yes ➔ 1989 MODU Code

No

Keel laid on/after 31Dec1981?

Yes ➔ 1979 MODU Code

Elus 46 CFR 109 for matters not addressed by the Code (13 CFR 146.205(c))
**Involved Parties & General Information:**

<table>
<thead>
<tr>
<th>Owner—Listed on DOC or COFR</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Change</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Change</td>
</tr>
</tbody>
</table>

**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 Rooms¹</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.

MODU Information:

<table>
<thead>
<tr>
<th>Classification Society</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Drydocking Date</td>
<td>Next Drydocking Date</td>
</tr>
<tr>
<td>Location of Last Drydocking</td>
<td></td>
</tr>
<tr>
<td>Date of Last Class Survey</td>
<td></td>
</tr>
<tr>
<td>Outstanding conditions of class or non-conformities</td>
<td></td>
</tr>
<tr>
<td>Conversions/Modifications</td>
<td></td>
</tr>
<tr>
<td>Date of Last Flag State Inspection</td>
<td></td>
</tr>
<tr>
<td>Call Sign</td>
<td>No Change</td>
</tr>
<tr>
<td>Gross Tons</td>
<td>No Change</td>
</tr>
<tr>
<td>Built Date (use delivery date)</td>
<td>No Change</td>
</tr>
<tr>
<td>Overall Length (in feet)</td>
<td>No Change</td>
</tr>
</tbody>
</table>

MODU Type:

- Self-Elevating
  - Mat-Supported
  - Independent Leg
- Column-Stabilized
  - Moored
  - Dynamically Positioned
Examples (not limited to) of confined spaces:

<table>
<thead>
<tr>
<th>Confined Spaces</th>
<th>Hazard^{(2)}</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voids/Cofferdams^{(1)}</td>
<td>P– O; S– F,T</td>
</tr>
<tr>
<td>Sealed Compartments^{(1)}</td>
<td>P– O; S– F,T</td>
</tr>
<tr>
<td>Double Bottoms/Sides/Duct Keels^{(1)}</td>
<td>P– O; S– F,T</td>
</tr>
<tr>
<td>Spaces Coated with a Preservative^{(1)}</td>
<td>P– O; S– F,T</td>
</tr>
<tr>
<td>Engine Crankcases/Scavenging Spaces^{(1)}</td>
<td>P– O; S– F,T</td>
</tr>
<tr>
<td>Large Heat Exchangers^{(1)}</td>
<td>P– O; S– F,T</td>
</tr>
<tr>
<td>Fuel/Lube Oil/Sludge Tanks^{(1)}</td>
<td>P– F,T; S– O</td>
</tr>
<tr>
<td>Water tanks^{(1)}</td>
<td>P– O; S– F,T</td>
</tr>
<tr>
<td>Cargo/Slop Tanks^{(1)}</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>

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

^{(2)}Hazards –  
P (Primary);  
S (Secondary);  
O (Oxygen Deprivation);  
F (Flammability);  
T (Toxicity)
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”
### 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**: Communication w/ bridge
- **Engine start**: Lighting
- **Egress procedures**: Davit-launched liferaft drill

46 CFR 109.213(d)(1)(i) & (ii), 46 CFR 108.901(b)(6); MSM Vol. II/D.1.G.1.r(1)

**Location:** _______________

**Time to Water:** __________

**Notes:**

---

**Certificates and Documents (Cont)**

<table>
<thead>
<tr>
<th>Name of Certificate</th>
<th>Issuing Agency</th>
<th>Exp Date</th>
<th>Issue Date</th>
<th>Port Issued/ Country</th>
<th>ID #</th>
<th>No Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Sewage Pollution Prevention (ISPP)</td>
<td>Internat...</td>
<td>No Change</td>
<td>No Change</td>
<td>Cargo Ship Certificate</td>
<td>No Change</td>
<td></td>
</tr>
<tr>
<td>International Air Pollution Prevention (IAPP)</td>
<td>Internat...</td>
<td>No Change</td>
<td>No Change</td>
<td>Cargo Ship Certificate</td>
<td>No Change</td>
<td></td>
</tr>
<tr>
<td>International Anti-Fouling Systems (IAFS)</td>
<td>Internat...</td>
<td>No Change</td>
<td>No Change</td>
<td>Cargo Ship Certificate</td>
<td>No Change</td>
<td></td>
</tr>
<tr>
<td>Safety Construction Certificate</td>
<td></td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety Equipment Certificate</td>
<td></td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety Radio Certificate</td>
<td></td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 3: Inspection Items

Pre-Inspection

1. Schedule inspection/examination in Maritime Information for Safety and Law Enforcement (MISLE)
   - Determine the authority, jurisdiction, and applicable regulation(s)
     - 33 CFR 140.3 & .101(a)
     - 33 CFR 143.205(a) or 207(a)
   - Locate vessel in MISLE
     - MPS-PR-SEC-04
     - MSM I/12.F
   - Verify documents are current in MISLE
     - MPS-PR-SEC-04
   - Review history (narratives, deficiencies & special notes)
     - MPS-PR-SEC-01
   - Verify status of user fees
     - 46 CFR 2.10-101 & 130(b)
   - Prepare folder and required documents
     - 46 CFR 2.01-5
   - Verify status of Certificate of Financial Responsibility (e-COFR)
     - 33 CFR 138.15(b) & .85
   - Generate new activity
     - MMS Work Instruction
   - Verify submittal of Environmental Protection Agency (EPA) Notice of Intent (NOI)
     - CG-543 Policy Ltr 11-01

2. Coordinate inspection/examination with vessel’s representative
   - Identify vessel’s representative
     - MPS-PR-SEC-01 & -02
     - MPS-PR-SEC-04
   - Confirm vessel arrival time, destination, inspection/examination based on Advanced Notice of Arrival (ANOA)
     - 33 CFR 146.202 & .215
   - Articulate examination expectations
     - 33 CFR 143.205(a), 207(a)
     - 33 CFR 146.203(a), 205(a)
   - Verify owner/operator information
     - MPS-PR-SEC-04
   - Verify Classification Society information
     - MPS-PR-SEC-04
   - Confirm MISLE targeting score with information attained from vessel representative
     - MSM II/G.3.N

Section 4: Drill Record Sheets

**Fire Drill:**

- Initial notifications: Familiarity with duties, Space isolation
- General alarms / signals: Familiarity with equipment, Smoke control
- Crew response: Fire pumps started, Arrange care of passengers
- Properly dressed / equipped: Two jets of water, Communications w/ bridge
- Language understood by crew: Fire doors and dampers
- 46 CFR 109.213(b); MSM Vol. II/D.1.G.1.r (2)

Notes: ____________________________________________  Time on Scene: ________

Location: ____________________________
3. Conduct meeting with vessel's representative to discuss scope of the inspection/examination
   - Discuss outstanding Conditions of 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/examination
   - 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

148. Verify deficiency corrections
   - Verify corrected deficiencies
   - Remove control action (when applicable)
   - Clear deficiency in Misle activity

149. Issue/endorse certificates
   - Issue/endorse COI/COC
   - Obtain copy of endorsed certificates for foreign units
   - Obtain copy of endorsed certificates for U.S. units

150. Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity
   - Update examination results with deficiencies issued on CG 835V/Form B
   - 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"
- Verify company responsibilities and authority are clearly defined
  33 CFR Table 96.250(b)\(^{(1)}\)
  ISM Code 3\(^{(2)}\)
- Verify record keeping compliance
  33 CFR 96.220(3)\(^{(3)}\)
  ISM Code 11\(^{(2)}\)
- Verify maintenance requirements
  33 CFR Table 96.250(j)\(^{(1)}\)
  ISM Code 10\(^{(2)}\)
- Verify training requirements are IAW SMS
  33 CFR Table 96.250(f)(4)-(7)\(^{(1)}\)
  ISM Code 6.3 & .4\(^{(2)}\)
- Review audit documentation and ensure follow-up actions completed/in-process
  33 CFR Table 96.250(l)\(^{(1)}\)
  ISM Code 1.4.6, 9.2\(^{(2)}\)

146. Issue deficiencies
- Identify deficiencies
  46 CFR 2.01-10(a)
  MSM II/A.2.C.4
- Determine deficiency reference cite for U.S. units
  46 USC 3313(b)
  CVC-PR-001(1) E.8.e & f
- Discuss deficiencies and corrective measures/timeoutframe with vessel's master or representative
  46 CFR 2.01-10
  MSM II/A.2.C.2
- Document deficiencies
  46 USC 3313(b)
  MSM II/A.2.C.4.b
- Sign forms (examiner & vessel's representative)
  MSM II/G.3.N.9
  CG-3585 & 5437 A/B\(^{(2)}\)
- Issue documents to foreign flagged
  MSM II/G.3.N.9
  CG-3585 & 5437 A/B\(^{(2)}\)
- Issue CG-835V to U.S. flagged
  46 CFR 2.01-10(a)
  CVC-PR-001(1) E & F

147. Issue control action(s)
- Determine if suspension/non-issuance of COI/COC is warranted
  46 CFR 107.279(a) thru (e)\(^{(1)}\)
- Determine control action
  MMS Work Instruction
- Determine impact to drilling operations
  BSEE/USCG MOA
- Evaluate potential well control hazards
  BSEE/USCG MOA
- Consult with OCMI and BSEE District to determine appropriate point to interrupt drilling operations
  BSEE/USCG MOA
- Explain control action(s) to responsible parties/stakeholders
  46 CFR 107.279\(^{(1)}\)
  BSEE/USCG MOA
- Issue control action(s)
  MMS Work Instruction

<table>
<thead>
<tr>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Verify security training &amp; records*</td>
</tr>
<tr>
<td>- Verify presence of trained and designated Ship Security Officer</td>
</tr>
<tr>
<td>33 CFR 104.215 &amp; 104.220</td>
</tr>
<tr>
<td>- Verify presence and approved and valid Ship Security Plan</td>
</tr>
<tr>
<td>33 CFR 104.400(c)</td>
</tr>
<tr>
<td>- Examine security drill records</td>
</tr>
<tr>
<td>33 CFR 104.235(b)(2)</td>
</tr>
<tr>
<td>- Examine security exercise records</td>
</tr>
<tr>
<td>33 CFR 104.235(b)(2)</td>
</tr>
<tr>
<td>- Examine records of crew training</td>
</tr>
<tr>
<td>33 CFR 104.235(b)(1)</td>
</tr>
<tr>
<td>- Examine Declarations of Security</td>
</tr>
<tr>
<td>33 CFR 104.255 &amp; 235(b)(7)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificates &amp; Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>7. Examine Certificate of Compliance (COC)</td>
</tr>
<tr>
<td>- Verify compliance option</td>
</tr>
<tr>
<td>33 CFR 143.207(a)(^{(2)})</td>
</tr>
<tr>
<td>33 CFR 146.205(a)(^{(2)})</td>
</tr>
<tr>
<td>- Verify particulars are accurately reflected</td>
</tr>
<tr>
<td>CG-3585(^{(2)})</td>
</tr>
<tr>
<td>- Verify certificate is valid</td>
</tr>
<tr>
<td>33 CFR 143.210(^{(2)})</td>
</tr>
<tr>
<td>46 CFR 2.01-6(a)(3)(^{(2)})</td>
</tr>
<tr>
<td>8. Review Certificate of Inspection (COI)</td>
</tr>
<tr>
<td>- Verify COI</td>
</tr>
<tr>
<td>46 CFR 107.211 &amp; .215</td>
</tr>
<tr>
<td>46 CFR 109.563(c)(^{(1)})</td>
</tr>
<tr>
<td>- Validate manning</td>
</tr>
<tr>
<td>46 CFR 15.501 &amp; 520(^{(1)})</td>
</tr>
<tr>
<td>- Validate number of industrial personnel authorized</td>
</tr>
<tr>
<td>46 CFR 107.113(^{(1)})</td>
</tr>
<tr>
<td>- Validate firefighting &amp; lifesaving equipment requirements</td>
</tr>
<tr>
<td>46 CFR 108, Subparts D &amp; E(^{(1)})</td>
</tr>
<tr>
<td>- Verify amendments</td>
</tr>
<tr>
<td>46 CFR 2.01-5(c)(^{(1)})</td>
</tr>
<tr>
<td>46 CFR 107.227(^{(1)})</td>
</tr>
<tr>
<td>9. Examine Crew Certificates of Competency and Proficiency for U.S. MODUs</td>
</tr>
<tr>
<td>- Verify original credentials are onboard and valid</td>
</tr>
<tr>
<td>46 CFR 10.203(a) &amp; (c)(^{(1)})</td>
</tr>
<tr>
<td>46 CFR 10.205 &amp; .233(^{(1)})</td>
</tr>
<tr>
<td>- Verify STCW &amp; Flag State endorsements</td>
</tr>
<tr>
<td>46 CFR 10.203(c)(^{(1)}) &amp; .205(^{(1)})</td>
</tr>
<tr>
<td>- Verify valid medical certificate</td>
</tr>
<tr>
<td>46 CFR 15.401(d)(^{(1)})</td>
</tr>
<tr>
<td>- Verify Transportation Worker Identification Credential (TWIC)</td>
</tr>
<tr>
<td>46 CFR 10.203(b) &amp; (d)(^{(1)})</td>
</tr>
</tbody>
</table>
10. Examine Crew Certificates of Competency and Proficiency for Foreign-Flagged MODUs
- Verify original credentials are onboard and valid
- STCW 2011/2.11
- MSM II/G.3.A.10.c
- STCW 2011/2, 5 thru 10
- STCW 2011 I/9.3
- 46 CFR 10.203(b) & (d)
- Verify required number of Lifeboatmen
- 46 CFR 109.323
- Verify letters of determination or exemption letter for foreign national(s)
- 33 CFR 141.15(c) & .20(f)
- NVIC 07-84

- Determine applicability
- 46 CFR 107.401, 405 & 409
- 46 CFR 109.563(c)
- MODU Code 09/1.6.7
- MODU Code 09/1.6.8
- Verify presence
- 46 CFR 107.413
- MODU Code 09/1.6.8
- Review exemptions
- MODU Code 09/1.6.11.8
- MODU Code 09/1.6.8
- 46 CFR 109.563(c)
- MODU Code 09/1.6.7

12. Examine Certificate of Registry
- Verify presence
- 46 USC 33303
- 46 USC 33303
- Verify validity
- 46 USC 33303

13. Examine Classification Society Certificate
- Verify presence
- SOLAS 14 I/6(a)
- SOLAS 14 I/6(a)
- Verify validity
- SOLAS 14 I/6(a)

142. Examine crane(s)
- Examine components
- 46 CFR 108.601
- Verify controls are marked
- 46 CFR 108.601(b)(1)
- Verify instruments have lighting
- 46 CFR 108.601(b)(2)
- Verify correct load chart for configuration in use
- 46 CFR 108.601(a)
- Verify alarms
- 46 CFR 109.521
- API RP 2D/3.1.2.3 & 3.2.1.4
- Verify crane book/manual
- 46 CFR 109.437
- Ensure operator visibility
- API RP 2C/9.2
- Verify boom angle indicator
- API RP 2C/10.1

Emergency Drills

143. Evaluate fire drill
- Witness firefighting drill procedures and crew perform assigned duties
- 46 CFR 109.213(b)
- 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

144. Evaluate abandonment drill
- Witness abandonment drill procedures and crew perform assigned duties
- 46 CFR 109.213(d)(1)(i) & (ii)
- 46 CFR 108.901(b)(6)
- Witness crew's competency to deploy and launch different lifeboats
- 46 CFR 109.213(d)(2)
- 46 CFR 109.213(d)(2)
- 46 CFR 109.213(d)(2)
- 46 CFR 109.213(g)
- Verify crew is proficient at donning lifejackets
- 46 CFR 109.213(d)(1)(iv)

Follow-Up

145. Verify Compliance with International Safety Management (ISM) Code
- Determine clear grounds to initiate expanded exam
- 33 CFR 96.200
- IMO Res A.1052(17) 2.4
- Verify crew familiarity with vessel’s Safety Management System (SMS)
- 33 CFR 96.240
- ISM Code 6.1
17. Examine International Tonnage Certificate (ITC)*
   - Verify presence
   - ICTM 69 Article 7(2)(3)
   - ICTM 69 Article 9(2)(3)
   - ICTM 69 Article 10(2)(3)

18. Examine International Load Line Certificate (ILLC)*
   - Verify presence
   - 46 CFR 42.07-45
   - 46 CFR 42.07-45(d)
   - 46 CFR 42.07-45(g)
   - Confirm load line observed on hull matches certificate

19. Examine Cargo Ship Safety Certificate (CSSC) and Record of Equipment (Form-C)*
   - Verify presence
   - SOLAS 14 l/12(a)(v)(3)
   - SOLAS 14 l/16(3)
   - SOLAS 14 l/9(3)
   - SOLAS 14 l/14(3)
   - Verify form of certificate & Form-C
   - SOLAS 14 l/15(3)
20. Examine copy of Document of Compliance (ISM-DOC)*
   - Verify presence 33 CFR 96.330⑵
   - Verify validity SOLAS 14 IX/4.2(2)(1)
   - Verify document form ISM Code 16(2)(3)

21. Examine Safety Management Certificate (ISM-SMC)*
   - Verify presence SOLAS 14 IX/4(2)(1)
   - Verify validity ISM Code 13.7⑵
   - Verify certificate form ISM Code 16(2)(3)

22. Examine Minimum Safe Manning Document*
   - Verify presence SOLAS 14 V/14.1(2)
   - Verify validity SOLAS 14 V/14.2(2)
   - Verify manning in accordance with STCW I/2.9(1)
   - Verify document form STCW I/14(2)

23. Examine Medical Certificates*
   - Verify presence 46 CFR 10.301
   - Verify validity 46 CFR 10.301(b)(1) thru (4)

24. Examine Continuous Synopsis Record (CSR)*
   - Verify presence of current record SOLAS 14 XI-1/5.1(3)
   - Verify presence of all records from 1 July 2004 SOLAS 14 XI-1/5.10(3)
   - Verify validity SOLAS 14 XI-1/5.2.2(5)
   - Verify record form SOLAS 14 XI-1/5/1(3)

134. Inspect/examine internal watertight bulkheads and doors/closures
   - Assess condition of components 46 CFR 108.114
   - Assess condition of ventilator closures 46 CFR 108.114(b)
   - Verify quick-acting type doors 46 CFR 108.114(c)(1)(ii)
   - Local/remote alarms (when applicable)
   - Verify local/remote operation of power operated watertight door opening and closing controls 46 CFR 108.114(c)(1)(i)
   - Verify local/remote operation of audible and visual alarm/indicators

135. Inspect/examine external watertight integrity
   - Ensure all penetrations are watertight 46 CFR 56.50-1(a)
   - Verify down-flooding openings have watertight closures 46 CFR 108.114(a)
   - Evaluate condition of watertight door(s) and hatches 46 CFR 108.114(c)
   - Verify local/remote operation of audible and visual alarm/indicators

Pollution Prevention

136. Examine Oily Water Separator (OWS) and bilge monitor/alarm (OCM)*
   - Verify type of oily water separator and bilge monitor/alarm (MEPC.107(49) or MEPC.60(33))
   - Witness operational test of oil filtering equipment 33 CFR 155.380(a)
   - Review records 46 CFR 107.231(a)(4)
   - Verify OCM is sealed 46 CFR 108.114(a)
   - Verify OCM is calibrated 46 CFR 107.231(a)(4)
   - Verify bilge alarm activation (MEPC.107(49)) 46 CFR 107.231(a)(4)
   - Verify no dilution of processed oily water sample in line to OCM 46 CFR 107.231(a)(4)
   - Verify presence of consumables IAW manufacturer's instructions
\[\begin{align*}
\text{131. Inspect/examine machinery in hazardous areas} & \\
- \text{Identify hazardous locations} & \quad \text{46 CFR 108.170 thru 175} \\
& \quad \text{46 CFR 111.105-33(1)}
\end{align*}\]

\[\begin{align*}
\text{132. Inspect/examine openings, access and ventilation conditions in hazardous areas} & \\
- \text{Verify arrangement of hazardous area openings} & \quad \text{46 CFR 108.171 thru 175}
\end{align*}\]

\[\begin{align*}
\text{Structural & Watertight Integrity} & \\
\text{133. Inspect/examine general condition of hull and structural members} & \\
- \text{Examine condition of ladderways, guardrails, fire mains, piping, hatch covers & watertight/weathertight closures} & \quad \text{33 CFR 143.110} \\
& \quad \text{46 CFR 107.231(n)(1)}
\end{align*}\]
- Verify compliance with ballast water record keeping requirements
  VGP 4.3
  CG-543 Policy Ltr 11-01
- Verify noncompliance & reportable quantity reports have been submitted
  VGP 4.4.1
  VGP 4.4.2

31. Examine muster lists and emergency instructions*
- Verify muster lists and emergency instructions are available 46 CFR 108.901(a)
- Verify muster lists and emergency instructions are posted 46 CFR 108.901(b) & (c)
- Verify information on muster lists and emergency instructions 46 CFR 108.901

32. Examine ballast water management documents*
- Verify Coast Guard approved Ballast Water Management System 33 CFR 151.2025(a)(1)
- Verify validity of AFS certificate AFS 12(3)
  MSM IID.1.G.1.1(2)(3)
- Verify Ballast Water Management Plan 33 CFR 151.2050(g)
  NVIC 07-04

33. Examine Long-Range Identification & Tracking (LRIT) conformance test report*
- Verify presence 33 CFR 169.200
  SOLAS 14 V/19-1
- Verify validity IMO MSC.1/Circ. 1307

34. Examine Ship Energy Efficiency Management Plan (SEEMP)*
- Verify presence MARPOL VI/22(2)(3)
- Verify validity CG-CVC Policy Ltr 13-02(2)(3)

35. Examine International Energy Efficiency Certificate (IEEC)*
- Verify presence MARPOL VI/9(2)(3)
  CG-CVC Policy Ltr 13-02(2)(3)
- Verify validity MARPOL VI/9(2)(3)
- Verify form MARPOL VI/9(2)(3)

36. Examine Energy Efficiency Design Index (EEDI)*
- Verify presence MARPOL VI/20(2)(3)
- Verify validity MARPOL VI/9(2)(3)
- Verify form MARPOL VI/9(2)(3)

127. Inspect/examine controls and alarms for unattended machinery spaces (when applicable)
- Verify administration approved documentation  See footnote (7)
- Witness fire detection system alarms  See footnote (7)
- Verify engineer's alarm is operational  See footnote (7)
- Verify malfunction of any machinery or boiler operations initiates automatic shutdown  See footnote (7)
- Verify operation of Oil Mist Detection system  See footnote (7)

128. Inspect/examine hazardous location plan
- Verify presence of plan 46 CFR 109.121(23)
  46 CFR 110.25-1(i)(1)
- Verify plan approval 46 CFR 107.305(aa)
- Verify plan identifies all hazardous areas 46 CFR 108.170 thru .175
  46 CFR 110.25-1(i)(1)

129. Inspect/examine intrinsically safe electrical equipment in hazardous locations
- Verify components/equipment are approved 46 CFR 111.105-11(10)
  UL 913; IEC 60079-11
- Verify intrinsically safe components (cables, boxes, etc.) are separated from non-intrinsically safe equipment 46 CFR 111.105-11(b)(1)
  NEC 504.30(A)(3)
- Verify equipment labeling 46 CFR 111.105-3 & .108-3
  IEC 60079-11 (12.2)
- Verify equipment has approved control drawings 46 CFR 111.105-1
  NEC 500.2 & 504.10(A)

130. Inspect/examine non-intrinsically safe electrical equipment in hazardous locations
- Verify installed equipment is listed, certified or purged 46 CFR 108.170
  46 CFR 111.105-7(1)
- Confirm equipment as marked is acceptable for location installed (Zone or Division) 46 CFR 111.105-3.5 & -1(1)
  NEC 500.7 & 505.9(1)
- Verify no unauthorized modifications or damage 46 CFR 111.105-3 & .105-5(1)
  NEC 500.8(1)
Verify presence of Ship Energy Efficiency Management Plan (SEEMP)

Verifying presence of SEEMP

Examine International Anti-fouling System Certificate (IAFS)

Verify presence of AFS 2

Verify validity of AFS 4

Verify certificate form of AFS 2

Examine logbook entries

Verify pre-arrival/departure checks

Verify fire and lifesaving training/drills

Verify lifesaving equipment deficiencies and corrective actions

Verify sanitary inspections

Examine rescue boat maintenance records and service logs/reports

Examine record of inspection and maintenance

Verify weekly inspection and test

Verify monthly inspection

Verify annual inspection and test of launching appliance(s) and on-load release gear(s)

Verify periodic servicing and tests of launching appliance(s), fall(s), winch(s) and release gear(s) overhaul

Verify release hook meets IMO revised regulations

Verify discrepancies on servicing reports are corrected

Review records of emergency training and drills

Verify crew and industrial personnel participated in abandonment drill and fire drills

Verify operation of remote fuel shutoff valve

Verify set point and operation of over speed shut-down

Verify set point and operation of lube oil pressure shut-down

Verify set point and operation of high jacket water temperature alarm

Determine applicability of transfer procedures (when applicable)

Verify availability

Verify contents

Verify equipment for parallel operation

Verify ground detection

Verify rear access control

Verify drip shields present

Verify drip-proof/watertight

Verify openings and accesses in switchboard are guarded

Verify non-conductive mats or grating

Verify condition of meters, controls, gauges

Verify markings

Verify equipment for parallel operation

Verify condition of emergency (endorsement)

Verify fire and lifesaving equipment for parallel operation

Verify ground detection

Verify rear access control

Verify drip shields present

Verify drip-proof/watertight
• Verify drill includes lowering of at least one lifeboat
• Verify drill includes operating davits used for launching liferafts (if applicable)
• Verify different lifeboat(s) are used for each drill
• Verify lifeboat(s) are launched and operated
• Examine training records for davit-launched liferaft (if applicable)

46 CFR 109.213(d)(1)(v)
46 CFR 109.213(d)(1)(vii)
46 CFR 109.213(d)(2)
46 CFR 109.213(d)(3) & (4)
46 CFR 109.213(g)(5)

☐ 41. Examine liferaft maintenance records and service logs/reports

• Examine log for record of inspections and maintenance
• Examine annual certificate
• Verify periodic examination of launching appliances and dynamic testing of winch(s) (if applicable)
• Verify maintenance of falls (if applicable)
• Verify discrepancies on servicing reports are corrected

46 CFR 109.301(b)(1)(vii)
46 CFR 109.301(g)(3)
46 CFR 109.301(b)(1)(vii)
46 CFR 109.301(i)
46 CFR 109.301(b)(1)(vii)

☐ 42. Examine lifeboat maintenance records and service logs/reports

• Examine record of inspection and maintenance
• Verify weekly inspection and test
• Verify monthly inspection
• Verify annual inspection and tests of launching appliance(s) and on-load release gear(s)
• Verify periodic overhaul of release gear and tests of launching appliance(s), fall(s) and winch(es)
• Verify release hook meets IMO revised regulations
• Verify discrepancies on servicing reports are corrected

46 CFR 109.301(b)(1)(vii)
46 CFR 109.301(d)
46 CFR 109.301(e)
46 CFR 109.301(b)(1)(vii)
46 CFR 109.301(f)
46 CFR 109.301(i) & (j)
CG-ENG Policy Ltr 01-14
46 CFR 107.231(z)

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

• Examine record of inspection and maintenance

46 CFR 107.235(a)
NFPA 10/7.2.4, 7.3.3 & 7.4.5

• Verify accuracy of rudder angle indicator
• Verify non-conventional rudder arrangements (thrusters)
• Verify running indication for motors
• Verify operation of means of communications
• Witness functional system tests

See footnote (5)
See footnote (5)
See footnote (5)
See footnote (5)
See footnote (5)

122. Inspect/examine main service and propulsion generator(s) and prime mover(s)

• Verify condition of components
• Verify installation of machinery covers and guards
• Verify required gauges
• Verify set point and operation of over speed shut-down
• Verify set point and operation of low lube oil pressure shut-down
• Verify set point and operation of high jacket water temperature alarm
• Verify operation of reverse power relays
• Verify means to bring vessel into operation from a dead ship condition
• Verify manual override activation indicators

46 CFR 61.20-3(a)\(^{(5)}\)
46 CFR 108.223
46 CFR 58.01-5 & 10-10\(^{(1)}\)
Class Society Rules
46 CFR 111.12-1(b)\(^{(1)}\)
46 CFR 111.12-1(c)\(^{(1)}\)
46 CFR 58.01-5, 10-10\(^{(3)}\)
ABS SVR (2003) 4-2-1/7.17
46 CFR 111.12-11(f)\(^{(1)}\)
46 CFR 112.05-1(b)(3)\(^{(1)}\)
46 CFR 112.50-1(k)\(^{(1)}\)
46 CFR 112.50-1(k)\(^{(1)}\)
MSM II/B.1.L.2
46 CFR 112.50-1(d) & (k)\(^{(1)}\)

123. Inspect/examine emergency generator(s) and prime mover(s)

• Determine requirement
• Examine condition of components
• Verify installation of machinery covers and guards
• Verify starting system(s)
• Verify two starting resources
• Verify operation of auto-start function
• Verify required gauges

46 CFR 112.05-5\(^{(1)}\)
46 CFR 61.20-3(a)\(^{(4)}\)
46 CFR 58.01-20\(^{(1)}\)
46 CFR 112.50-1(e)\(^{(1)}\)
46 CFR 112.50-1(k)\(^{(1)}\)
46 CFR 112.50-1(k)\(^{(1)}\)
MSM II/B.1.L.2
46 CFR 112.50-1(d) & (k)\(^{(1)}\)

ABS Rules 4-2-1/7.17\(^{(1)}\)
- Verify local/remote valve operation
- Verify piping material and condition
- Verify marking(s) of components

Verify inspection and servicing IAW applicable standards or manufacturer's instructions
Verify discrepancies on servicing reports are corrected

NFPA 10/4.3

46 CFR 107.231(z)

119. Inspect/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 and fittings
- Verify operation of transfer pumps and remote shutdowns

46 CFR 62.35-40(c)(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-60(j)(i)
46 CFR 58.01-25(a)

120. Inspect/examine Unfired Pressure Vessels (UPVs)

- Determine applicability
- Verify arrangement of Pressure Relief Valve(s) (PRV)
- Verify marking(s) of PRV
- Verify arrangement of UPV
- Verify marking(s) of UPV
- Examine external condition of UPV

46 CFR 56.50-75 & -60(d)(i)
46 CFR 62.35-40(c)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 62.35-40(c)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
46 CFR 56.50-75 & -60(d)(i)
46 CFR 56.50-60(j)(i)
46 CFR 56.60-25(b)(2)(i)
46 CFR 56.50-1(g)(2)(i)
46 CFR 56.60-19(i)
47. Examine Marine Operating Manual (MOM)

- Verify approval
  46 CFR 107.305(ii)(1)
  MSM II/G.3.F(2)
- Verify hazardous locations are identified
  46 CFR 109.121(b)(23)(1)
- Verify manual addresses normal and emergency activities
  46 CFR 109.121(b)
- Verify contents are in English and other language(s) understood by personnel on board
  MSM II/G.3.F(2)
- Verify stability calculations contained in manual are approved (stamp/letter)
  46 CFR 109.121 & .563(b)
- Verify changes affecting lightship data are maintained in lightship data alterations log
  46 CFR 109.121(b)(5) & .227

48. Examine Emergency Evacuation Plan (EEP)

- Determine applicability
  33 CFR 146.201 & .210
- Verify approval letter is on board
  33 CFR 146.210(a) & .140(b)
- Verify content
  33 CFR 146.140(d)
  MSM II/G.3.K
- Verify revision pages for changes
  33 CFR 146.140(d)(3)
- Verify EEP is applicable to unit's current location and reflects on site conditions
  33 CFR 146.140(a) & (d)(11)

49. Examine construction portfolio (booklet)

- Verify presence of copy
  46 CFR 107.305(hh)(1)
- Verify approval
  46 CFR 107.305(hh)(1)

50. Examine Oil Record Book Part I (ORB)*

- Verify presence
  33 CFR 151.25
- Verify validity and proper entries
  33 CFR 151.25
- Verify presence of completed ORBs
  33 CFR 151.25

51. Examine Oil Record Book (ORB) Part II (when applicable)

- Determine applicability
  See footnote (4)

52. Examine Oil Record Book (ORB) Part III (when applicable)

- Verify presence
  33 CFR 151.25
- Verify validity and proper entries
  33 CFR 151.25
- Verify presence of completed ORBs
  33 CFR 151.25

53. Examine Oil Record Book (ORB) Part IV (when applicable)

- Verify presence
  33 CFR 151.25
- Verify validity and proper entries
  33 CFR 151.25
- Verify presence of completed ORBs
  33 CFR 151.25

54. Examine Oil Record Book (ORB) Part V (when applicable)

- Verify presence
  33 CFR 151.25
- Verify validity and proper entries
  33 CFR 151.25
- Verify presence of completed ORBs
  33 CFR 151.25

55. Examine Oil Record Book (ORB) Part VI (when applicable)

- Verify presence
  33 CFR 151.25
- Verify validity and proper entries
  33 CFR 151.25
- Verify presence of completed ORBs
  33 CFR 151.25

56. Examine Oil Record Book (ORB) Part VII (when applicable)

- Verify presence
  33 CFR 151.25
- Verify validity and proper entries
  33 CFR 151.25
- Verify presence of completed ORBs
  33 CFR 151.25

57. Examine Oil Record Book (ORB) Part VIII (when applicable)

- Verify presence
  33 CFR 151.25
- Verify validity and proper entries
  33 CFR 151.25
- Verify presence of completed ORBs
  33 CFR 151.25

58. Examine Oil Record Book (ORB) Part IX (when applicable)

- Verify presence
  33 CFR 151.25
- Verify validity and proper entries
  33 CFR 151.25
- Verify presence of completed ORBs
  33 CFR 151.25

Machinery

59. Examine bilge pumps installation, piping, and valves

- Examine bilge pump components
  46 CFR 56.50-50(a)(1)
  46 CFR 56.50-50(c)(1), (3) & (f)(6)(1)
- Verify system arrangement(s) including flooding protection
  46 CFR 56.50-1(g)(2)(ii)(1)
- Verify valve indicators
  46 CFR 56.50-50(c)(1)
- Witness operation of alarms
  46 CFR 62.35-10(c)(6)

60. Examine ballast pumps installation, piping and valves

- Verify emergency power requirements
  46 CFR 112.15-5(q)(1)
Verify operation entries See footnote (4)
Verify each completed operation and page is signed See footnote (4)
Verify entries for any failures of oil discharge monitoring system See footnote (4)

52. Examine Shipboard Oil Pollution Emergency Plan (SOPEP)*
   - Verify presence 33 CFR 151.09
   - Verify validity 33 CFR 151.27

53. Examine Non-Tank Vessel Response Plan (NTVRP)*
   - Verify presence 33 USC 1321(a)(26)
     33 USC 1321(j)(5)(A)(ii)
   - Verify validity 33 USC 1321(j)(5)(I)
     33 USC 1321(j)(5)(F)(i)
   - Verify contents 33 USC 1321(j)(5)(D)
     33 CFR 155.5030

54. 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

55. Examine Garbage Management Plan*
   - Verify presence 33 CFR 151.57
   - Verify validity 33 CFR 151.57
   - Verify contents 33 CFR 151.57

56. Examine Garbage Record Book*
   - Verify presence 33 CFR 151.55
   - Verify validity 33 CFR 151.55
   - Verify contents 33 CFR 151.55
Bridge & Navigation

57. Inspect/examine propulsion and operational mode indicators
   - Verify propeller indicator(s)  See footnote (5)
   - Verify control station indicator(s)  See footnote (5)

58. Verify operation of communication equipment
   - Verify communications equipment listed in the EEP 33 CFR 146.210(a) & .140

59. Examine sound reception system on totally enclosed bridge
   - Determine applicability  See footnote (5)
   - Witness operation  See footnote (5)

60. Witness operational test of steering gear
   - Witness operational test of steering gear controls  See footnote (5)
   - Verify rudder angle indicator accuracy  See footnote (5)
   - Verify motor overload and phase failure audible and visual alarms  See footnote (5)

61. Inspect/examine internal communications
   - Verify means of communication with control room(s)  46 CFR 113.30-3 & -5(i)(v)
   - Verify means of communication with steering gear compartment, self-propelled units only  46 CFR 113.30-3 & -5(ii)
   - Verify internal means of communication with necessary spaces  46 CFR 113.30-3 & -5(i)

62. Inspect/examine anchor(s) and chain
   - Verify anchoring arrangements  46 CFR 108.705
   - Verify condition of visible anchor chain  46 CFR 108.705

63. Inspect/examine hull for required markings
   - Verify Load Line is permanently marked  46 CFR 108.663

Dynamic Positioning Systems

109. Examine fixed high-expansion foam fire extinguishing system*
   - Verify system is arranged as indicated in the fire control and/or general arrangement plan(s)  46 CFR 109.563
   - Verify quantity and performance of foam concentrates  46 CFR 108.469

110. Examine operational capabilities of Dynamic Positioning (DP) systems
   - Determine equipment class  See footnote (7)
   - Verify Well Specific Operating Guidelines (WSOGs)  See footnote (7)
   - Verify records of DP incidents  See footnote (7)
   - Verify presence of DP operating manual  See footnote (7)
   - Verify initial, periodic and annual survey(s)  See footnote (7)
   - Verify tests after modifications and non-conformities  See footnote (7)
   - Verify Class Approved Failure Modes and Effects Analysis (FMEA)  See footnote (7)

111. Examine DP’s power management system
   - Conduct meeting on test procedures  See footnote (7)
   - Verify power available in accordance with WSOG and CAMO modes  See footnote (7)
   - Witness bus-tie breakers separate automatically and standby generator comes on line (when not latched up)  See footnote (7)
   - Verify system meets stated classification  See footnote (7)

112. Examine DP’s thruster system(s)
   - Conduct meeting on test procedures  See footnote (7)
   - Verify system meets stated classification  See footnote (7)
106. 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) 46 CFR 108.430
- Verify sprinkler pump arrangement for automatic activation 46 CFR 108.430

107. Examine fixed high pressure CO2 system*
- Verify system is arranged as indicated in fire control and/or general arrangement plan 46 CFR 109.563
- Verify control valves are arranged and marked 46 CFR 108.631(a)
- Verify operating instructions at control stations 46 CFR 108.631(b)
- Verify closures for protected space openings 46 CFR 108.455
- Verify storage room arrangements 46 CFR 108.451
- Evaluate testing and inspection procedures 46 CFR 109.223

108. Examine low pressure CO2 fixed fire fighting system*
- Verify system is arranged as indicated in fire control and/or general arrangement plan(s) 46 CFR 109.563
- Verify control valves are arranged and marked 46 CFR 108.631(a)
- Verify operating instructions at control stations 46 CFR 108.631(b)
- Verify closures for protected space openings 46 CFR 108.455
- Verify storage room arrangements 46 CFR 108.451
- Evaluate testing and inspection procedures 46 CFR 109.223
- Verify alarms and indicators 46 CFR 108.445
- Verify safety relief valves 46 CFR 108.447(d)

- Verify presence of deck line 46 CFR 108.663
- Verify official or IMO number 46 CFR 108.657
- Verify draught (draft) marks 46 CFR 108.661

64. Inspect/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 33 CFR 151.2050(e)
- Evaluate condition of hull anti-fouling coating 33 CFR 151.2050(f)

65. Examine charts and publications (when applicable)*
- Verify presence of current, applicable and corrected charts and/or Electronic Chart Display & Information System (ECDIS) 46 CFR 109.565(a)
- Verify presence of current and applicable Tide Tables 46 CFR 109.565(f)
- Verify presence of current and applicable Coast Guard Light List 46 CFR 109.565(d)
- Verify presence of Inland Navigation Rules 33 CFR 83.01(g)
- Verify presence of COLREGs COLREG A/1(s) See footnote (5)
- Verify presence of current and applicable U.S. Coast Pilot COLREG A/1(d) 46 CFR 109.565(c)
- Verify presence of International Code of Signals See footnote (5)
- Verify presence and contents of maneuvering fact sheet 46 CFR 109.564

66. Examine echo-sounding device*
- Verify presence of echo-sounding device or other electronic means 33 CFR 164.35(h)
- Verify continuous recording of depth readings 33 CFR 164.35(i)

67. Examine electronic position fixing device*
- Verify presence 33 CFR 164.41
68. Examine radar(s) and Automatic Radar Plotting Aid (ARPA)*
- Verify presence and type 33 CFR 164.35(a) & .37
- Witness operational test 33 CFR 164.35(a) & .37
- Verify independent operation 33 CFR 164.37(a)
- Witness operational test of ARPA 33 CFR 164.38(b) 33 CFR 164.38 Appendix A

69. Examine compasses*
- Verify presence of illuminated magnetic compass 33 CFR 164.35(b)
- Verify presence of gyrocompass and illuminated repeater(s) 33 CFR 164.35(d) & (e)
- Verify presence of spare magnetic compass 33 CFR 164.35(c)
- Verify presence of deviation table See footnote (5)

70. Examine Voyage Data Recorder (VDR)*
- Verify presence of VDR or simplified VDR (S-VDR) See footnote (3)
- Examine Certificate of Compliance See footnote (3)

71. Examine Automatic Identification System (AIS)*
- Verify presence 33 CFR 164.46
- Witness operation 33 CFR 164.46(d)(2)

72. Examine radiotelephone (VHF)*
- Verify installation 33 CFR 26.03
- Verify digital selective calling (DSC) capability 47 CFR 80.1085(a)(1)
- Witness operation 33 CFR 26.03
- Verify adequate independent illumination N/A\(^5\)
- Verify radio is clearly marked with call sign, ship station identity and other codes as applicable 47 CFR 80.1083(b)(5)
- Verify operation of lifeboat radios 47 CFR 80.1095(a)

102. Examine fire-fighter's outfits*
- Verify storage location consistent with Fire Control Plan 46 CFR 109.563
- Verify quantity 46 CFR 108.497
- Verify condition of personal equipment 46 CFR 108.497(e) thru (g)
- Verify condition of breathing apparatus 46 CFR 108.497(a)
- Verify condition of lifeline 46 CFR 108.497(d)
- Verify presence of spare charges 46 CFR 108.497(a)

103. Examine portable fire extinguishers*
- Verify locations consistent with Fire Control Plan 46 CFR 109.563
- Verify stowage 46 CFR 108.493 46 CFR Table 108.495(a)
- Verify condition of extinguishers 46 CFR 107.235 NFPA 10 Chapter 7
- Verify presence of spare charges CVC Policy Ltr 18-04

104. Examine Fire Control Plan*
- Verify currency of plan(s) or booklets 46 CFR 107.305(v)\(^5\) 46 CFR 109.563(a)
- Verify plan or booklet is in required languages See footnote (5)
- Verify content of plan(s) or booklet 46 CFR 107.305(v)\(^5\) 46 CFR 109.563(a)
- Verify stowage of duplicate set of plan(s) See footnote (5)

105. Examine fixed fire detection and alarm systems*
- Verify operation 46 CFR 108.405
- Verify power sources 46 CFR 112.15-1(p)
- Verify operation of alarms 46 CFR 108.405(a)(2)
- Verify operation of manually operated call points 46 CFR 108.405(a)
- Verify periodic testing See footnote (5)
99. Examine Global Maritime Distress and Safety System (GMDSS) equipment
- Verify appropriate equipment for assigned sea area(s) 47 CFR 80.1085 thru .1093(s)
- Examine radio records 47 CFR 80.1075(s)
- Verify emergency source of power 47 CFR 80.1099(s)
- Verify stowage of Search and Rescue Transponder(s) (SART) 47 CFR 80.1095(s)
- Verify operation of NAVTEX 47 CFR 80.1085(a)(4)(s)
- Verify operation of INMARSAT ship earth station 47 CFR 80.1085(a)(5)(s)
- Verify installation of 406MHz EPIRB 47 CFR 80.1085(a)(6)(s)

74. Examine Long-Range Identification & Tracking (LRIT) equipment
- Verify presence 33 CFR 169.200
- Verify operation 33 CFR 169.210

75. Examine daylight signaling lamp
- Verify operation See footnote (5)
- Verify independent source of power See footnote (5)

General Health & Safety

76. Inspect/examine accommodations
- Verify berth arrangement and size 46 CFR 108.199
- Verify means of escape 46 CFR 108.201 thru .203
- Verify ventilation 46 CFR 108.181
- Verify segregation from adjoining spaces 46 CFR 108.193 thru .197
- Verify wash, toilet, shower and laundry facilities 46 CFR 108.205, .211(a) & (b)
- Verify housekeeping practices 46 CFR 108.205(n)
- Verify condition of vents and ducts 46 CFR 109.203(a)

77. Inspect/examine galley
- Verify sanitary conditions 46 CFR 109.203(a)
- Verify condition of vents and ducts 46 CFR 108.123

Firefighting Systems

99. Inspect/examine areas for compliance with Structural Fire Protection (SFP) requirements
- Determine structural fire protection needed 46 CFR 108.133 thru .143
- Verify SFP boundaries with fire control plan 46 CFR 108.131
- Evaluate fire door(s) operation 46 CFR 108.133 thru .143
- Verify multi-cable transits (MCT’s) are compatible with fire boundary NVIC 9-97 CH-1, Encl (1) 2.13(s)
- Verify ventilation closures are compatible with fire boundary 46 CFR 108.133 thru .145
- Verify pipes/standoffs are compatible with fire boundary NVIC 9-97 CH-1, Encl (1) 5.2(s)
- Verify no unapproved space modification(s) that would affect space categorization 46 CFR 108.133 thru .145

100. Inspect/examine fixed fire detection and alarm system
- Verify operation 46 CFR 108.404 thru 413
- Verify power sources 46 CFR 113.10-.9(s)

101. Inspect/examine fire main system(s)
- Verify number of pumps 46 CFR 108.415
- Verify location(s) 46 CFR 108.421
- Verify pressure 46 CFR 108.415
- Verify relief valve installation 46 CFR 108.417(a) & (d)
- Verify fire station arrangements 46 CFR 108.423 thru .427
- Verify connection arrangements for pumps allowed to be used for other purposes 46 CFR 108.417(c)
- Verify presence of international shore connection, as applicable 46 CFR 108.427
- Witness function of galley serving window closures and doors 46 CFR 108.135
- Verify galley/adjacent spaces meet structural fire protection requirements 46 CFR 108.135 & .137

78. Inspect/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

79. Inspect/examine hospital space
- Verify sanitary conditions 46 CFR 109.203(a)
- Verify adequate number of berths 46 CFR 108.209(e) thru (h) 46 CFR 108.209(j)
- Verify hot and cold water 46 CFR 108.205(i) 46 CFR 108.209(i)
- Ensure excess materials not stored 46 CFR 108.209(c)
- Verify water closet and bathroom 46 CFR 108.209(i)
- Verify litter is capable of being used for type of helicopter serving installation 46 CFR 108.709
- Verify alternative arrangements, if utilized 46 CFR 108.210

- Verify approvals 46 CFR 108.580(b)
- Verify light 46 CFR 108.580(b)(3)(i)
- Verify whistle 46 CFR 108.580(b)(3)(ii)
- Verify retro-reflective tape 46 CFR 108.580(b)
- Verify retro-reflective tape 46 CFR 160.155, .176 & .177
- Verify stowage 46 CFR 108.580(b)(2)

94. Examine immersion suits and stowage (when applicable)*
- Verify quantity 46 CFR 108.580(c)(1)(i) thru (iii)
- Verify approvals 46 CFR 108.580(c)
- Verify stowage 46 CFR 108.580(c)(1)(ii) & (iii)

95. Examine line throwing appliance*
- Verify presence 46 CFR 108.597
- Examine instructions or diagrams illustrating use 46 CFR 108.597(a)
- Verify age of pyrotechnics 46 CFR 108.597(a)
- Verify stowage 46 CFR 108.597(b)

96. Examine pyrotechnics*
- Verify number 46 CFR 108.595(b)(1)
- Verify quantity 46 CFR 108.595(b)(2)
- Verify condition/serviceability 46 CFR 108.595(b)

97. Examine quick-release life buoys*
- Verify number and location 46 CFR 108.580(a)(iv)
- Verify size 46 CFR 160.050-2
- Verify presence of self-igniting lights 46 CFR 108.580(a)(2)(iii)
- Verify alternative arrangements, if utilized 46 CFR 108.210

98. Examine life buoys*
- Verify type approval 46 CFR 108.580(a)
- Verify quantity 46 CFR 108.580(a)(iii)
- Verify stowage 46 CFR 108.580(a)(1)
- Verify markings 46 CFR 108.649(e)
- Examine attachments and fittings 46 CFR 108.580(a)(2)
31. Inspect/examine arrangements in machinery and working spaces

- Verify operation of ventilation closures
- Verify operation of remote shutdowns
- Verify fuel tank(s) shut off valve operation
- Verify communications
- Verify clean and sanitary condition

46 CFR 108.181(b) & (d)
46 CFR 108.181(c)
46 CFR 107.231(a)(2) & (3)(i)
46 CFR 56.50-75(a)(v)
46 CFR 113.30(3)(i)
46 CFR 109.203(b)

80. Inspect/examine arrangements in machinery and working spaces

- Verify operation of ventilation closures
- Verify operation of remote shutdowns
- Verify fuel tank(s) shut off valve operation
- Verify communications
- Verify clean and sanitary condition

46 CFR 108.181(b) & (d)
46 CFR 108.181(c)
46 CFR 107.231(a)(2) & (3)(i)
46 CFR 56.50-75(a)(v)
46 CFR 113.30(3)(i)
46 CFR 109.203(b)

81. Inspect/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 labeling/warning signs

46 CFR 56.50-103
46 CFR 61.15-15(i)
46 CFR 147.70 & 85
46 CFR 147.60(b)
46 CFR 147.30

82. Inspect/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 retrieval speed is satisfactory for lifeboats designated as rescue boat
- Verify operating instructions posted

46 CFR 108.153 & .157
46 CFR 112.15-1(b), (c), (e) thru (g)(i)
46 CFR 112.15-1(c)(i)
46 CFR 108.155
46 CFR 108.159 thru 160

83. Avoid inadvertent entry into a confined space

- Determine confined space(s)
- Evaluate potential hazards
- Mitigate potential hazards

29 CFR 1915, Part B
MSM I/10 & App. A
MSM I/10 App. A, C, D, F & G
MSM II/G.1.J

84. Examine refrigerator and dry food stores*

- Verify adequate food for size of crew & intended voyage

See footnote (5)
85. Examine sanitation areas*
- Verify quantity of showers and toilets 46 CFR 108.205(e)
- Verify operation of toilets 46 CFR 108.205
- Verify hot and cold running water 46 CFR 108.205(i)
- Verify lighting, heating and ventilation 46 CFR 108.203(i)
- Assess for unsanitary or hazardous conditions 46 CFR 109.203

86. Inspect/examine general emergency systems
- Verify alarm activation points 46 CFR 113.25-5(c) & (d)(1)
- Verify operational test of audible and visual general alarm signals 46 CFR 113.25-12 & -10(1)
- Verify connection to emergency power source 46 CFR 113.25-6(1)
- Verify public address system is audible 46 CFR 113.50-5 & -15(1)
- Verify general alarm system tests 46 CFR 109.301(d)(3) & .433(a)

87. Inspect/examine rescue boat
- Determine applicability(6)
  46 CFR 108.560
- Verify embarkation and launching arrangement 46 CFR 108.570
- Verify stowage 46 CFR 108.565
- Verify operating instructions are posted in the vicinity 46 CFR 108.655
- Verify boat markings 46 CFR 108.645(a)
- Verify type approval data plate 46 CFR 108.560
  46 CFR 160.156-17
- Witness operation of engine 46 CFR 109.301(d)(2)
- Verify required equipment and proper storage 46 CFR 108.575

88. Inspect/examine muster and embarkation stations
- Verify muster and embarkation stations arrangements 46 CFR 108.540(a) thru (d) & (f)
- Verify arrangement to allow for stretcher accessibility into survival craft before launching 46 CFR 108.540(e)
- Verify davit-launched liferaft embarkation stations arrangements (if installed) 46 CFR 108.540(g)
- Verify emergency lighting configuration and operation 46 CFR 112.15-1(g) & -5(a)(1)
- Witness emergency lighting testing 46 CFR 109.213(d)(6) & (h)(iii) 46 CFR 109.433(c)

89. Inspect/examine fixed metal ladders
- Verify locations and accessibility to waterline 46 CFR 108.540(h)(3)
- Verify ladders and sea areas are illuminated by emergency lighting 46 CFR 112.15-1(g) & -5(a)
- Verify alternative means of escape to waterline (if fixed ladders are not installed) 46 CFR 108.540(h)(4)

90. Inspect/examine inflatable liferafts and davit-launched liferaft arrangements
- Verify type approval 46 CFR 108.520(b)
- Verify liferaft capacity requirements 46 CFR 108.525(a)(2) & (b)
- Verify stowage 46 CFR 108.530(a) & (c)
- Evaluate launching arrangements 46 CFR 108.550, 553
  46 CFR 109.213(d)(vii)
- Verify launching illustrations and instructions posted 46 CFR 108.655
- Verify container markings 46 CFR 108.646 & .647
- Verify identification/maintenance cards are accurate 46 CFR 108.520(b)
  46 CFR 160.151-57(m)(2)

91. Inspect/examine lifeboats
- Verify type approval 46 CFR 108.105 & .520(a)
- Verify stowage 46 CFR 160.035-13(c) & .135-17
- Determine rated capacity from data plate 46 CFR 160.135 & .035
  LSA Code 4.4.1.2 & 4.4.2.2

Lifesaving Equipment

- Verify free of insects and/or rodents 46 CFR 109.203
- Verify operation of emergency escape alarm/device (refrigerators)
  - See footnote (5)
- Verify muster and embarkation stations arrangements
  - 46 CFR 108.540(a) thru (d) & (f)
  - Verify arrangement to allow for stretcher accessibility into survival craft before launching
  - 46 CFR 108.540(e)
  - Verify davit-launched liferaft embarkation stations arrangements (if installed)
  - 46 CFR 108.540(g)
  - Verify emergency lighting configuration and operation
  - 46 CFR 112.15-1(g) & -5(a)(1)
  - Witness emergency lighting testing
  - 46 CFR 109.213(d)(6) & (h)(iii) 46 CFR 109.433(c)