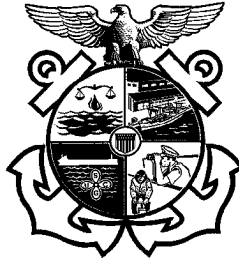


# United States Coast Guard



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

Name of MODU		Flag <input type="checkbox"/> No Change	
Official/IMO Number		Activity Number	
Date Completed	Priority	Points	
Location			
MODU in Compliance with 46 CFR Subchapter I-A: <input type="checkbox"/> Post-96 <input type="checkbox"/> Pre-96 <input type="checkbox"/> NVIC 4-78			
Type of Inspection/Exam: <input type="checkbox"/> COI <input type="checkbox"/> COC <input type="checkbox"/> Annual			
Inspection Team Members:			
1. _____		3. _____	
2. _____		4. _____	

Job Aid MUI-A  
Rev. Oct2018

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## **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

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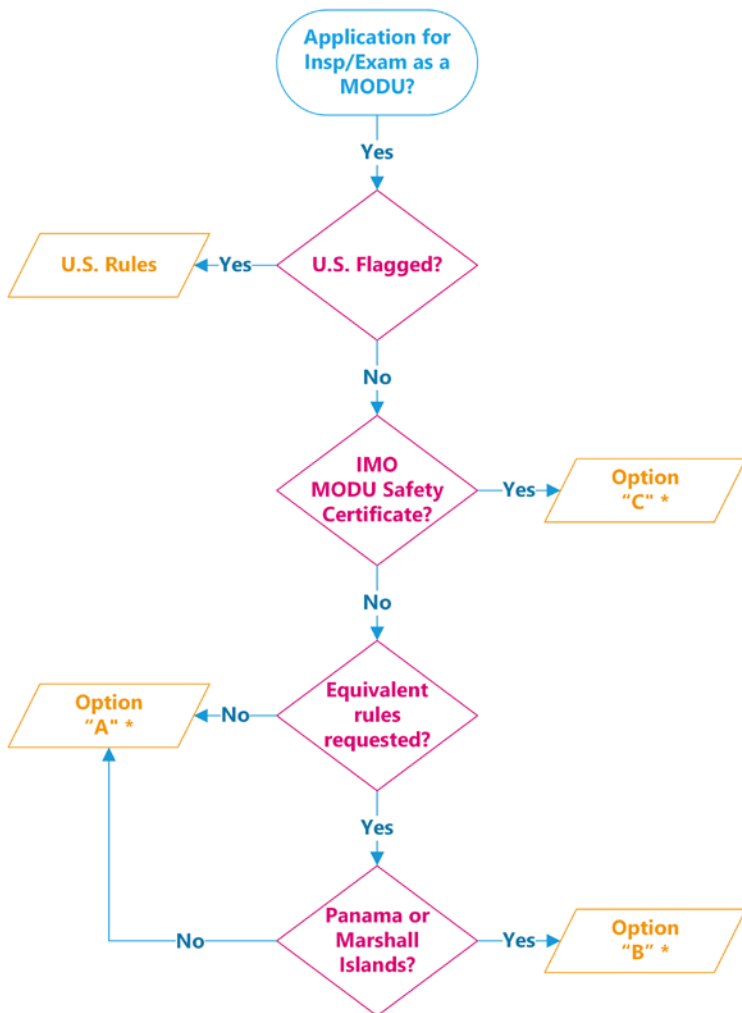
## Section 1: Administrative Items

### IMO Applicability Dates:

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

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

# MODU Applicability



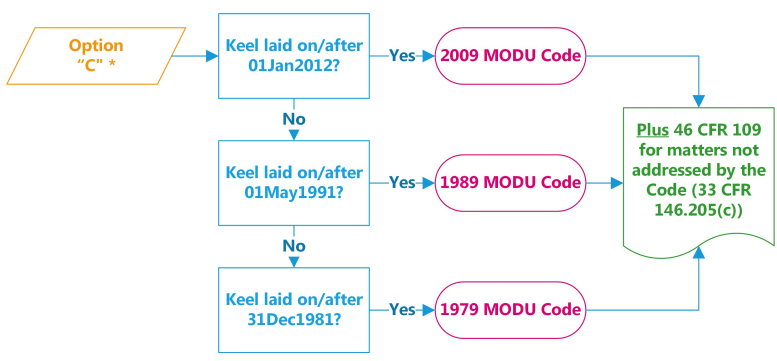
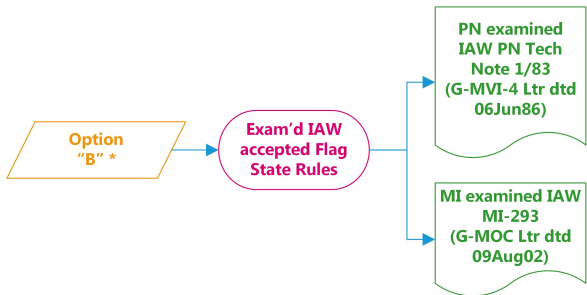
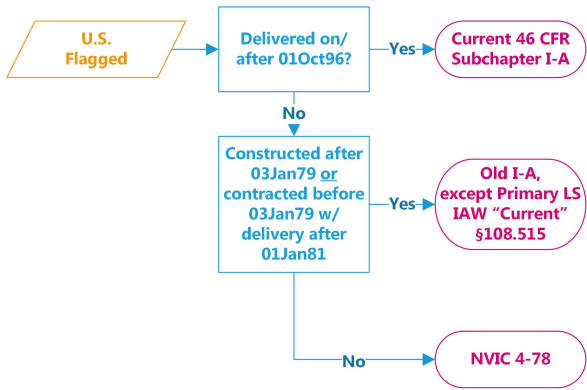
### Options A, B & C:

\* 33 CFR 143.207 Design & Equipment requirements for foreign MODUs

\* §146.205 Operations requirements for foreign MODUs



## MODU Applicability (Cont'd)



**Involved Parties & General Information:**

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

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

**MODU Information:**

Classification Society	
Last Drydocking Date	Next Drydocking Date
Location of Last Drydocking	
Date of Last Class Survey	
<input type="checkbox"/> Outstanding conditions of class or non-conformities	
Conversions/Modifications	
Date of Last Flag State Inspection	
Call Sign	<input type="checkbox"/> No Change
Gross Tons	<input type="checkbox"/> No Change
Built Date (use delivery date)	<input type="checkbox"/> No Change
Overall Length (in feet)	<input type="checkbox"/> No Change

**MODU Type:**

Self-Elevating

- Mat-Supported
- Independent Leg

Column-Stabilized

- Moored
- Dynamically Positioned

## Section 2: Certificates and Documents

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

## Certificates and Documents (Cont)

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp Date	Endors. Date
International Load Line (ILLIC) <input type="checkbox"/> No Change						
ISM Document of Compliance (DOC) <input type="checkbox"/> No Change						
ISM Safety Management (SMC) <input type="checkbox"/> No Change						
International Ship Security (ISSC) <input type="checkbox"/> No Change						
Continuous Synopsis Record (CSR) <input type="checkbox"/> No Change						
Minimum Safe Manning (MSM) <input type="checkbox"/> No Change						
International Oil Pollution Prevention (IOPP) <input type="checkbox"/> No Change						

## Certificates and Documents (Cont)

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

## Section 3: Inspection Items

### Pre-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<sup>(1)</sup> 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<sup>(1)</sup> & 04  
MMS Work Instruction
  - Verify status of user fees 46 CFR 2.10-101 & 130(b)
  - Prepare folder and required documents 46 CFR 2.01-5<sup>(1)</sup> or 2.01-6  
MPS-PR-SEC-04
  - Verify status of Certificate of Financial Responsibility (e-COFR) 33 CFR 138.15(b) & .85  
MMS Work Instruction
  - Generate new activity MMS Work Instruction
  - Verify submittal of Environmental Protection Agency (EPA) Notice of Intent (NOI) CG-543 Policy Ltr 11-01
  
- 2. Coordinate inspection/examination with vessel's representative
  - Identify vessel's representative MPS-PR-SEC-01<sup>(1)</sup> & -02<sup>(2)</sup>  
MPS-PR-SEC-04
  - Confirm vessel arrival time, destination, inspection/examination based on Advanced Notice of Arrival (ANOVA) 33 CFR 146.202 & .215  
MPS-PR-SEC-02<sup>(2)</sup>
  - Articulate examination expectations 33 CFR 143.205<sup>(1)</sup>, .207(a)<sup>(2)</sup>  
33 CFR 146.203<sup>(1)</sup>, .205(a)<sup>(2)</sup>
  - 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<sup>(2)</sup>

- 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 MPS-PR-SEC-05<sup>(1)</sup>  
MPS-PR-SEC-06<sup>(2)</sup>
    - Discuss examination procedures and expectations 33 CFR 143.205<sup>(1)</sup>, .207(a)<sup>(2)</sup>  
33 CFR 146.203<sup>(1)</sup>, .205(a)<sup>(2)</sup>
    - Assess ongoing operations to include well ops that could affect examination and equipment availability with Master/OIM MPS-PR-SEC-05<sup>(1)</sup>  
MPS-PR-SEC-06<sup>(2)</sup>
    - Coordinate actual machinery/equipment testing procedures MPS-PR-SEC-05<sup>(1)</sup>  
MPS-PR-SEC-06<sup>(2)</sup>
  
- 4. Issue Letter of Determination (LOD)
  - Determine applicability 43 USC 1356(c)  
33 CFR 141.5
    - Review request 33 CFR 141.5
    - Prepare LOD 33 CFR 141.5(c)  
NVIC 07-84
    - Retain a copy, log issued LODs and secure documentation received from employers/applicants 5 USC 552 & 552a  
COMDTINST M5260.3
  
- 5. Mitigate potential hazards encountered during an inspection/examination
  - Recognize potential hazards encountered during an exam NFPA 306
    - Determine confined spaces onboard vessel MSM I/CH10
    - Determine if exam scope will require a Marine Chemist certification for entry into spaces 29 CFR 1915, Part B
    - Verify Marine Chemist has been scheduled for the exam (when applicable) MSM II/G.1.J.1 & 2<sup>(1)</sup>
    - Prepare necessary personal protective equipment for exam MSM I/CH10 App. A  
Quattro Operator's Manual
    - Review CG policy for when to leave a space due to hazardous condition MSM I/CH10 App. A



# Security

- 6. Verify security training & records\*
  - Verify presence of trained and designated Ship Security Officer 33 CFR 104.215 & 104.220
  - Verify presence and approved and valid Ship Security Plan 33 CFR 104.400(c)
  - Examine security drill records 33 CFR 104.235(b)(2)
  - Examine security exercise records 33 CFR 104.235(b)(2)
  - Examine records of crew training 33 CFR 104.235(b)(1)
  - Examine Declarations of Security 33 CFR 104.255 & 235(b)(7)

## Certificates & Documents

- 7. Examine Certificate of Compliance (COC)
  - Verify compliance option 33 CFR 143.207(a)<sup>(2)</sup>  
33 CFR 146.205(a)<sup>(2)</sup>
  - Verify particulars are accurately reflected CG-3585<sup>(2)</sup>
  - Verify certificate is valid 33 CFR 143.210<sup>(2)</sup>  
46 CFR 2.01-6(a)(3)<sup>(2)</sup>
- 8. Review Certificate of Inspection (COI)
  - Verify COI 46 CFR 107.211 & .215  
46 CFR 109.563(c)<sup>(1)</sup>
  - Validate manning 46 CFR 15.501 & 520<sup>(1)</sup>
  - Validate number of industrial personnel authorized 46 CFR 107.113<sup>(1)</sup>
  - Validate firefighting & lifesaving equipment requirements 46 CFR 108, Subparts D & E<sup>(1)</sup>
  - Verify amendments 46 CFR 2.01-5(c)<sup>(1)</sup>  
46 CFR 107.227<sup>(1)</sup>
- 9. Examine Crew Certificates of Competency and Proficiency for U.S. MODUs
  - Verify original credentials are onboard and valid 46 CFR 10.203(a) & (c)<sup>(1)</sup>  
46 CFR 10.205 & .233<sup>(1)</sup>
  - Verify STCW & Flag State endorsements 46 CFR 10.203(c)<sup>(1)</sup> & .205<sup>(1)</sup>
  - Verify valid medical certificate 46 CFR 15.401(d)<sup>(1)</sup>
  - Verify Transportation Worker Identification Credential (TWIC) 46 CFR 10.203(b) & (d)<sup>(1)</sup>

- Verify required number of Lifeboatmen 46 CFR 109.323<sup>(1)</sup>
  - Verify letters of determination or exemption letter for foreign national(s) 33 CFR 141.15(c)<sup>(1)</sup> & .20(f)<sup>(1)</sup> NVIC 07-84<sup>(1)</sup>
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
  - Verify STCW & Flag State endorsements STCW 2011/2, 5 thru 10
  - Verify valid medical certificate STCW 2011 I/9.3
  - Verify Transportation Worker Identification Credential (TWIC) 46 CFR 10.203(b) & (d)
  - Verify required number of Lifeboatmen 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
11. Examine Code for the Construction and Equipment of Mobile Offshore Drilling Units Safety Certificate
- Determine applicability 46 CFR 107.401, 405 & 409<sup>(3)</sup> 46 CFR 109.563(c)
  - Verify presence MODU Code 09/1.6.7<sup>(3)</sup>
  - Verify validity MODU Code 09/1.6.11.8<sup>(3)</sup>
  - Review exemptions 46 CFR 107.413<sup>(3)</sup> MODU Code 09/1.6.8
12. Examine Certificate of Registry<sup>(2)\*</sup>
- Verify presence 46 USC 3303<sup>(2)</sup>
  - Verify validity 46 USC 3303<sup>(2)</sup>
13. Examine Classification Society Certificate\*
- Verify presence SOLAS 14 I/6(a)<sup>(2)(3)</sup>
  - Verify validity SOLAS 14 I/6(a)<sup>(2)(3)</sup>

- 14. Examine International Tonnage Certificate (ITC)\*
  - Verify presence ICTM 69 Article 7<sup>(2)(3)</sup>
  - Verify validity ICTM 69 Article 9<sup>(2)(3)</sup>
  - Verify certificate form ICTM 69 Article 10<sup>(2)(3)</sup>
  
- 15. Examine International Load Line Certificate (ILLC)\*
  - Verify presence 46 CFR 42.07-45
  - Verify validity 46 CFR 42.07-45(d)
  - Verify certificate form 46 CFR 42.07-45(g)
  - Confirm load line observed on hull matches certificate 46 CFR 42.07-45
  
- 16. Examine Cargo Ship Safety Construction Certificate (CSSCC)\*
  - Verify presence SOLAS 14 I/12(a)(ii)<sup>(3)</sup>  
SOLAS 14 I/16<sup>(3)</sup>
  - Verify validity SOLAS 14 I/10<sup>(3)</sup>  
SOLAS 14 I/14<sup>(3)</sup>
  - Verify certificate form SOLAS 14 I/15<sup>(3)</sup>
  
- 17. Examine Cargo Ship Safety Equipment Certificate (CSSEC) and Record of Equipment (Form-E)\*
  - Verify presence SOLAS 14 I/12(a)(iii)<sup>(3)</sup>  
SOLAS 14 I/16<sup>(3)</sup>
  - Verify validity SOLAS 14 I/8<sup>(3)</sup>  
SOLAS 14 I/14<sup>(3)</sup>
  - Verify form of certificate & Form-E SOLAS 14 I/15<sup>(3)</sup>
  
- 18. Examine Cargo Ship Safety Radio Certificate (CSSRC) and Record of Equipment (Form-R)\*
  - Verify presence SOLAS 14 I/12(a)(iv)<sup>(3)</sup>  
SOLAS 14 I/16<sup>(3)</sup>
  - Verify validity SOLAS 14 I/9<sup>(3)</sup>  
SOLAS 14 I/14<sup>(3)</sup>
  - Verify form of certificate & Form-R SOLAS 14 I/15<sup>(3)</sup>
  
- 19. Examine Cargo Ship Safety Certificate (CSSC) and Record of Equipment (Form-C)\*
  - Verify presence SOLAS 14 I/12(a)(v)<sup>(3)</sup>  
SOLAS 14 I/16<sup>(3)</sup>
  - Verify validity SOLAS 14 I/8-10<sup>(3)</sup>  
SOLAS 14 I/14<sup>(3)</sup>
  - Verify form of certificate & Form-C SOLAS 14 I/15<sup>(3)</sup>

- 20. Examine copy of Document of Compliance (ISM-DOC)\*
  - Verify presence 33 CFR 96.330<sup>(3)</sup>  
SOLAS 14 IX/4.2<sup>(2)(3)</sup>
  - Verify validity SOLAS 14 IX/5<sup>(2)(3)</sup>  
ISM Code 13.2-5<sup>(2)(3)</sup>
  - Verify document form ISM Code 16<sup>(2)(3)</sup>
  
- 21. Examine Safety Management Certificate (ISM-SMC)\*
  - Verify presence SOLAS 14 IX/4.3<sup>(2)(3)</sup>  
ISM Code 13.7<sup>(2)(3)</sup>
  - Verify validity SOLAS 14 IX/5<sup>(2)(3)</sup>  
ISM Code 13.5.1<sup>(2)(3)</sup>
  - Verify certificate form ISM Code 16<sup>(2)(3)</sup>
  
- 22. Examine Minimum Safe Manning Document\*
  - Verify presence SOLAS 14 V/14.1<sup>(2)</sup>
  - Verify validity SOLAS 14 V/14.2<sup>(2)</sup>
  - Verify manning in accordance with document STCW I/2.9<sup>(2)</sup>  
STCW I/14<sup>(2)</sup>
  
- 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<sup>(3)</sup>  
SOLAS 14 XI-1/5.10<sup>(3)</sup>
  - Verify presence of all records from 1 July 2004 SOLAS 14 XI-1/5.2.2<sup>(3)</sup>  
SOLAS 14 XI-1/5.6<sup>(3)</sup>
  - Verify validity SOLAS 14 XI-1/5.3<sup>(3)</sup>  
SOLAS 14 XI-1/5.4.1-4.3<sup>(3)</sup>
  - Verify record form SOLAS 14 XI-1/5.5.1<sup>(3)</sup>  
SOLAS 14 XI-1/5.5.2<sup>(3)</sup>

- 25. Examine International Ship Security Certificate (ISSC)\*
  - Verify presence SOLAS 14 XI-2/4.2<sup>(3)</sup>  
ISPS Code A/19.2.1<sup>(3)</sup>
  - Verify validity ISPS Code A/19.2.2<sup>(3)</sup>  
ISPS Code A/19.2.3<sup>(3)</sup>
  - Verify certificate form ISPS Code A/19.2.4<sup>(3)</sup>
  
- 26. Examine International Oil Pollution Prevention Certificate (IOPP) and Record of Construction and Equipment (Form-A)\*
  - Verify presence MARPOL I/7 & 8<sup>(3)</sup>
  - Verify validity MARPOL I/10<sup>(3)</sup>
  - Verify form of certificate and Form-A MARPOL I/9<sup>(3)</sup>
  
- 27. Examine International Sewage Pollution Prevention Certificate (ISPP)\*
  - Verify presence MARPOL IV/5<sup>(2)</sup>  
NVIC 01-09 Encl. 3<sup>(2)</sup>
  - Verify validity MARPOL IV/8<sup>(2)</sup>
  - Verify certificate form MARPOL IV/7<sup>(2)</sup>
  
- 28. 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
  
- 29. Examine the Engine International Air Pollution Prevention (EIAPP)\* Certificate(s)
  - Verify presence MARPOL VI/13.8  
NOx Code 2.1.1
  - Verify validity NOx Code 2.1.1
  - Verify certificate(s) form NOx Code 2.2.10
  
- 30. Verify compliance with the Vessel General Permit (VGP)\*
  - Verify Notice of Intent (NOI) has been submitted VGP 1.5.1.1 & 10  
VGP Table 1

- Verify compliance with ballast water record keeping requirements VGP 4.3  
CG-543 Policy Ltr 11-01
  - Verify noncompliance & reportable quantity reports have been submitted VGP 4.4.1  
VGP 4.4.2
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<sup>(2)(3)</sup>  
MSM II/D.1.G.1.t<sup>(2)(3)</sup>
  - 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<sup>(2)(3)</sup>
  - Verify validity CG-CVC Policy Ltr 13-02<sup>(2)(3)</sup>
35. Examine International Energy Efficiency Certificate (IEEC)\*
- Verify presence MARPOL VI/6<sup>(2)(3)</sup>  
CG-CVC Policy Ltr 13-02<sup>(2)(3)</sup>
  - Verify validity MARPOL VI/8<sup>(2)(3)</sup>
  - Verify form MARPOL VI/9<sup>(2)(3)</sup>
36. Examine Energy Efficiency Design Index (EEDI)\*
- Verify presence MARPOL VI/20<sup>(2)(3)</sup>
  - Verify validity MARPOL VI/9<sup>(2)(3)</sup>
  - Verify form MARPOL VI/8<sup>(2)(3)</sup>

- Verify presence of Ship Energy Efficiency Management Plan (SEEMP) MARPOL VI/22<sup>(2)(3)</sup>  
IMO Res MEPC.203(62)<sup>(2)(3)</sup>

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

- Verify presence AFS 2<sup>(2)(3)</sup>  
MSM II/D.1.G.t<sup>(2)(3)</sup>
- Verify validity AFS 4<sup>(2)(3)</sup>  
MSM II/D.1.G.t<sup>(2)(3)</sup>
- Verify certificate form AFS 2<sup>(2)(3)</sup>  
MSM II/D.1.G.t<sup>(2)(3)</sup>

## Logs & Manuals

38. Examine logbook entries

- Verify pre-arrival/departure checks 33 CFR 164.25
- Verify fire and lifesaving training/drills 46 CFR 109.433(d)
- Verify lifesaving equipment deficiencies and corrective actions 46 CFR 109.213(h)(1)(iii)  
46 CFR 109.433(d)
- Verify sanitary inspections 46 CFR 109.203 & .433(g)

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

- Examine record of inspection and maintenance 46 CFR 109.301(b)(1)(vii)
- Verify weekly inspection and test 46 CFR 109.301(d)
- Verify monthly inspection 46 CFR 109.301(e)
- Verify annual inspection and tests of launching appliance(s) and on-load release gear(s) 46 CFR 109.301(f)
- Verify periodic servicing and tests of launching appliance(s), fall(s), winch(s) and release gear(s) overhaul 46 CFR 109.301(i) & (j)
- Verify release hook meets IMO revised regulations CG-ENG Policy Ltr 01-14
- Verify discrepancies on servicing reports are corrected 46 CFR 107.231(z)<sup>(1)</sup>

40. Review records of emergency training and drills

- Verify crew and industrial personnel participated in abandonment drill and fire drills 46 CFR 109.213(c)(2) & (h)(iv)

- Verify drill includes lowering of at least one lifeboat 46 CFR 109.213(d)(1)(v)
- Verify drill includes operating davits used for launching liferafts (if applicable) 46 CFR 109.213(d)(1)(vii)
- Verify different lifeboat(s) are used for each drill 46 CFR 109.213(d)(2)
- Verify lifeboats and rescue boats are launched and operated 46 CFR 109.213(d)(3) & (4)
- Examine training records for davit-launched liferaft (if applicable) 46 CFR 109.213(g)(5)

41. Examine liferaft maintenance records and service logs/reports

- Examine log for record of inspections and maintenance 46 CFR 109.301(b)(1)(vii)
- Examine annual certificate 46 CFR 109.301(g)(3)  
46 CFR 160.151-57(p)
- Verify periodic examination of launching appliances and dynamic testing of winch(s) (if applicable) 46 CFR 109.301(b)(1)(vii)  
46 CFR 109.301(i)
- Verify maintenance of falls (if applicable) 46 CFR 109.301(b)(1)(vii)  
46 CFR 109.301(j)
- Verify discrepancies on servicing reports are corrected 46 CFR 107.231(z)<sup>(1)</sup>

42. Examine lifeboat maintenance records and service logs/reports

- Examine record of inspection and maintenance 46 CFR 109.301(b)(1)(vii)
- Verify weekly inspection and test 46 CFR 109.301(d)
- Verify monthly inspection 46 CFR 109.301(e)
- Verify annual inspection and tests of launching appliance(s) and on-load release gear(s) 46 CFR 109.301(b)(1)(vii)  
46 CFR 109.301(f)
- Verify periodic overhaul of release gear and tests of launching appliance(s), fall(s) and winch(es) 46 CFR 109.301(i) & (j)
- Verify release hook meets IMO revised regulations CG-ENG Policy Ltr 01-14
- Verify discrepancies on servicing reports are corrected 46 CFR 107.231(z)<sup>(1)</sup>

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

- Examine record of inspection and maintenance 46 CFR 107.235(a)<sup>(1)</sup>  
NFPA 10/7.2.4, 7.3.3 & 7.4.5



- Verify inspection and servicing IAW applicable standards or manufacturer's instructions 46 CFR 107.235(a)<sup>(1)</sup>  
NFPA 10/4.3
  - Verify discrepancies on servicing reports are corrected 46 CFR 107.231(z)<sup>(1)</sup>
44. Examine fire detection system maintenance and service logs/reports
- Verify annual inspection and servicing IAW with manufacturer's instructions 46 CFR 107.231(z)<sup>(1)</sup>
  - Verify discrepancies on servicing reports are corrected 46 CFR 107.231(z)<sup>(1)</sup>
  - Verify discrepancies on servicing reports are corrected 46 CFR 107.231(z)<sup>(1)</sup>
45. Examine crane maintenance and service logs/reports
- Verify installation is approved 46 CFR 108.601(a)  
API Spec 2C/3.2
  - Verify initial load test 46 CFR 109.521  
API RP 2D/3.2.1
  - Verify required inspection(s) 46 CFR 109.437 & .521  
API RP 2D/3.1.1.c
  - Verify each rated load test and recertifications 46 CFR 109.437(c) & .521  
API RP 2D/3.2.2(a) thru ©
  - Verify if de-rated and load rating chart has been revised (when applicable) 46 CFR 109.521  
API RP 2D/3.2(d) thru (e)
  - Verify maintenance manual(s) is available 46 CFR 109.521  
API RP 2D/3.3.1
  - Verify crane operators are designated in writing and qualified 46 CFR 109.527(a)
  - Verify discrepancies on servicing reports are corrected 46 CFR 109.437 & .521  
API RP 2D/3.33.c
46. Examine Unfired Pressure Vessels (UPVs) and relief valves maintenance and service logs/reports
- Verify required UPV tests conducted 46 CFR 61.10-1 & -5  
MSM II/G.3.G.4<sup>(2)</sup>
  - Verify UPV tests (when applicable) 46 CFR 61.10-5  
MSM II/G.3.G.4<sup>(2)</sup>
  - Verify UPV five year internal inspection (when applicable) 46 CFR 61.10-5(b)(2)  
MSM II/G.3.G.4<sup>(2)</sup>
  - Verify pressure relief valve (PRV) testing 46 CFR 61.10-5(i)  
MSM II/G.3.G.4<sup>(2)</sup>

- Verify discrepancies on servicing report(s) is corrected 46 CFR 107.231(z)<sup>(1)</sup>  
46 CFR 109.421
47. Examine Marine Operating Manual (MOM)
- Verify approval 46 CFR 107.305(ii)<sup>(1)</sup>  
MSM II/G.3.F<sup>(2)</sup>
  - Verify hazardous locations are identified 46 CFR 109.121(b)(23)<sup>(1)</sup>
  - 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<sup>(2)</sup>
  - 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)<sup>(1)</sup>
  - Verify approval 46 CFR 107.305(hh)<sup>(1)</sup>
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)

- 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 33 CFR 146.210(a) & .140 listed in the EEP
  
- 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)<sup>(1)</sup>
  - Verify means of communication with steering gear compartment, self-propelled units only 46 CFR 113.30-3 & -5<sup>(1)</sup>
  - Verify internal means of communication with necessary spaces 46 CFR 113.30-3 & -5<sup>(1)</sup>  
46 CFR 113.25-5 & .50-5<sup>(1)</sup>
  
- 62. Inspect/examine anchor(s) and chain
  - Verify anchoring arrangements 46 CFR 108.705  
Class Society Rules (ABS)
  - Verify condition of visible anchor chain 46 CFR 108.705  
Class Society Rules (ABS)
  
- 63. Inspect/examine hull for required markings
  - Verify Load Line is permanently marked 46 CFR 108.663  
46 CFR 42.13-25

- Verify presence of deck line 46 CFR 108.663  
46 CFR 42.13-20
  - Verify official or IMO number 46 CFR 108.657  
46 CFR 67.121
  - 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<sup>(5)</sup>
  - Verify presence of current and applicable U.S. Coast Pilot 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
  - Verify presence of International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual, Vol. III See footnote (5)
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

- Verify operation 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 See footnote (5)
  - Verify presence of deviation table 33 CFR 164.35(c)
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<sup>(5)</sup>
  - 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)

- 73. Examine Global Maritime Distress and Safety System (GMDSS) equipment\*
  - Verify appropriate equipment for assigned sea area(s) 47 CFR 80.1085 thru .1093<sup>(5)</sup>
  - Examine radio records 47 CFR 80.1075<sup>(5)</sup>
  - Verify emergency source of power 47 CFR 80.1099<sup>(5)</sup>
  - Verify stowage of Search and Rescue Transponder(s) (SART) 47 CFR 80.1095<sup>(5)</sup>
  - Verify operation of NAVTEX 47 CFR 80.1085(a)(4)<sup>(5)</sup>
  - Verify operation of INMARSAT ship earth station 47 CFR 80.1085(a)(5)<sup>(5)</sup>
  - Verify installation of 406MHz EPIRB 47 CFR 80.1085(a)(6)<sup>(5)</sup>
  
- 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  
46 CFR 108.201 & .203
  - Verify means of escape 46 CFR 108.151 thru .167
  - Verify ventilation 46 CFR 108.181  
MSM II/B.1.N.9
  - 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)  
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  
NVIC 9-97, CH-1, Encl (1) 5.2

- 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 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

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



- 80. Inspect/examine arrangements in machinery and working spaces
  - Verify operation of ventilation closures 46 CFR 108.181(b) & (d)
  - Verify operation of remote shutdowns 46 CFR 108.181(c)  
46 CFR 107.231(a)(2) & (3)<sup>(1)</sup>
  - Verify fuel tank(s) shutoff valve operation 46 CFR 56.50-75(a)<sup>(1)</sup>  
46 CFR 56.50-60(d)<sup>(1)</sup>
  - Verify communications 46 CFR 113.30(3)<sup>(1)</sup>
  - Verify clean and sanitary condition 46 CFR 109.203(b)
  
- 81. Inspect/examine storage of gas cylinders
  - Verify permanent piping for oxyacetylene installation (when applicable) 46 CFR 56.50-103<sup>(1)</sup>  
46 CFR 61.15-15<sup>(1)</sup>
  - Examine gas cylinders carried in enclosed spaces (when applicable) 46 CFR 147.70 & 85<sup>(1)</sup>
  - Verify storage of cylinders 46 CFR 147.60(b)<sup>(1)</sup>
  - Verify labeling/warning signs 46 CFR 147.30<sup>(1)</sup>
  
- 82. Inspect/examine means of escape
  - Verify means of escape and confirm accessibility 46 CFR 108.153 & .157
  - Verify emergency escape lighting arrangements 46 CFR 112.15-1(b), (c), (e) thru (g)<sup>(1)</sup>
  - Verify escape route is marked and illuminated 46 CFR 112.15-1(c)<sup>(1)</sup>
  - Verify arrangement of machinery space escape ladders 46 CFR 108.155  
46 CFR 108.159 thru 160
  
- 83. Avoid inadvertent entry into a confined space
  - Determine confined space(s) 29 CFR 1915, Part B  
MSM I/10 & App. A
  - Evaluate potential hazards MSM I/10 App. A, C, D, F & G  
MSM II/G.1.J
  - Mitigate potential hazards 29 CFR 1915, Part B  
MSM II/G.1.J
  
- 84. Examine refrigerator and dry food stores\*
  - Verify adequate food for size of crew & intended voyage See footnote (5)

- Verify free of insects and/or rodents 46 CFR 109.203
- Verify operation of emergency escape alarm/device (refrigerators) 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

## Lifesaving Equipment

86. Inspect/examine general emergency systems

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

87. Inspect/examine rescue boat

- Determine applicability<sup>(b)</sup> 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)<sup>(1)</sup>
  - 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  
46 CFR 160.151-59(c)
  - 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)  
46 CFR 160.035-13(c) & .135-17
  - Verify stowage 46 CFR 108.530
  - Determine rated capacity from data plate 46 CFR 160.135 & .035  
LSA Code 4.4.1.2 & 4.4.2.2

- Verify required exterior markings 46 CFR 108.645  
46 CFR 160.135-7(b)(27)
- Examine release gear 46 CFR 109.301(i)(3) thru (5)  
46 CFR 108.520(a)
- Verify required equipment is present 46 CFR 108.575
- Witness operation of engine 46 CFR 109.301(a)  
46 CFR 109.301(d)(2)
- Verify sprinkler system components and operation 46 CFR 160.135-7(a)  
MODU 09/10.3.1, 10.3.4
- Verify self-contained air system components and operation 46 CFR 160.135-7(a) & (b)(25)  
LSA Code 10/4.8
- Verify instructions inside for release gear 46 CFR 108.655  
46 CFR 160.133-19(c)
- Verify fire protection components and operations 46 CFR 108.520(a)  
46 CFR 160.135-7(a) & (b)(25)<sup>(6)</sup>
- If lifeboat is dual-service designated as a rescue boat, verify additional required equipment<sup>(b)</sup> 46 CFR Table 108.575(b)

92. Inspect/examine boat davits

- Examine condition of davit(s) and associated components 46 CFR 109.301(a)  
MSM II/B.1.P.3.a, .c & .d<sup>(1)</sup>
- Verify survival craft launching arrangement 46 CFR 108.550, 553 & 555
- Verify davit operator has unobstructed view during launching and recovery operations 46 CFR 108.555(c)
- Verify falls are of adequate length for survival craft to reach water 46 CFR 108.550(f)(2)  
46 CFR 108.553(c)
- Verify approval markings and labeling are present 46 CFR 108.550(a)  
46 CFR 160.115-17
- Verify conditions of falls, lay/spooling onto winch drum and that boat is hanging evenly in davit 46 CFR 108.553(a) & (e)
- Witness operational test of limit switches 46 CFR 108.553(j)  
46 CFR 111.95-7(c)
- Verify retrieval speed is satisfactory for lifeboats designated as rescue boat 46 CFR 108.560 & .570  
MSM II/B.1.P.2.c
- Verify operating instructions posted 46 CFR 108.655

93. Examine life jackets\*

- Verify quantity 46 CFR 108.580(b)(1)

- 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)  
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)  
46 CFR 160.040-4(h)
  - Verify age of pyrotechnics 46 CFR 108.597(a)  
46 CFR 160.040-6(a)
  - Verify stowage 46 CFR 108.597(b)
96. Examine pyrotechnics\*
- Verify number 46 CFR 108.595(b)(1)
  - Verify stowage 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 condition/serviceability of self-activating smoke signals 46 CFR 108.580(a)(1)(iv)  
46 CFR 108.580(a)(2)(iii)
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)

- Verify size/weight 46 CFR 108.580(a)  
46 CFR 160.150

## 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 107.305(v)<sup>(1)</sup>
  - Verify SFP is as built or per approved modifications 46 CFR 108.131  
NVIC 9-97 CH-1, Encl (1) Ch 3<sup>(1)</sup>
  - Evaluate fire door(s) operation 46 CFR 108.133 thru .143
  - Verify multi-cable transits (MCT's) are compatible with fire boundary 46 CFR 108.133 thru .145  
NVIC 9-97 CH-1, Encl (1) 2.13<sup>(1)</sup>
  - Verify ventilation closures are compatible with fire boundary 46 CFR 108.133 thru .145  
NVIC 9-97 CH-1, Encl (1) 5.2<sup>(1)</sup>
  - Verify pipes/standoffs are compatible with fire boundary 46 CFR 108.133 thru .145  
NVIC 9-97 CH-1, Encl (1) 2.13<sup>(1)</sup>
  - 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<sup>(1)</sup>
  
- 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

- 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)<sup>(1)</sup>  
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)<sup>(1)</sup>  
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)

- 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
46 CFR 109.563(a)
  - Verify sprinkler pump arrangement for automatic activation
 

46 CFR 108.430
NFPA 13
  
- 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)
-------------------



- 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  
46 CFR 109.223

## **Dynamic Positioning Systems**

- 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)

- Confirm thrusters are station keeping IAW WSOG See footnote (7)
- Witness standby thruster(s) automatically come on line See footnote (7)
- Verify thruster(s) not in operation are at zero pitch and speed See footnote (7)
- Verify manual thruster controls See footnote (7)

113. Examine DP's control systems

- Witness automatic transfer of operational control to redundant control system See footnote (7)
- Verify audible and visual alarms See footnote (7)
- Review alarms records See footnote (7)
- Verify arrangements to prevent failures from transferring from one system to another See footnote (7)
- Verify operation of uninterruptive power supply See footnote (7)
- Identify vessel position reference systems and sensors See footnote (7)
- Witness operation of loss of position reference system and sensor alarms See footnote (7)

## Heli-Deck

114. Inspect/examine helideck

- Examine operation and arrangement of helicopter deck lights 46 CFR 108.235(d)(4)  
46 CFR 108.241(a)(2)
- Examine periphery netting arrangement and condition 46 CFR 108.235(e)  
CG-ENG Policy Letter 03-15
- Verify deck markings 46 CFR 108.241(a)(3), (b)  
CG-ENG Policy Letter 03-15
- Verify deck is free of obstructions 46 CFR 108.233(b) & .235(d)(4)  
CG-ENG Policy Letter 03-15
- Verify condition and accessibility of main and emergency personnel access route 46 CFR 108.235(f)  
CG-ENG Policy Letter 03-15
- Verify structural fire protection requirements CG-ENG Policy Letter 03-15  
NVIC 9-97, CH-1, Encl (1) 5.2<sup>(1)</sup>
- Verify wind indicator 46 CFR 108.241(a)(1)  
CG-ENG Policy Letter 03-15

- Verify skid-resistant surface 46 CFR 108.235(d)(1)  
CG-ENG Policy Letter 03-15

115. Inspect/examine helideck fire fighting systems

- Verify dry powder extinguishers 46 CFR 108.495 & .496(b)(1)  
46 CFR Table 108.495
- Verify CO2 extinguishers 46 CFR 108.495 & .496(b)(1)  
46 CFR Table 108.495
- Verify foam is appropriate type 46 CFR 108.487(a) & .489<sup>(8)</sup>
- Verify CO2 foam extinguishing system 46 CFR 108.487(a) & .489<sup>(8)</sup>
- Verify condition of drainage 46 CFR 108.235(d)(2)

116. Inspect/examine refueling station (if equipped)

- Inspect portable fuel storage tank(s) 46 CFR 108.237  
46 CFR 109.577
- Verify tank(s) are remote as practical 46 CFR 108.237(a)
- Verify tank(s) are isolated from ignition source(s) 46 CFR 108.237(a)
- Verify tank area(s) have containment 46 CFR 108.237(d)  
46 CFR 108.239(f)
- Verify emergency shutdown(s) 46 CFR 108.239(e)
- Verify pump has running indicator light 46 CFR 108.239(d)
- Verify unit is outfitted with grounding device 46 CFR 108.239(c)
- Verify signs posted 46 CFR 108.653(a), (b) & (d)

## Machinery

117. Examine bilge pumps installation, piping, and valves

- Examine bilge system components 46 CFR 56.50-50<sup>(1)</sup>
- Verify system arrangement(s) including flooding protection 46 CFR 56.50-50(c)(1), (3) & (f)(6)<sup>(1)</sup>
- Verify valve indicators 46 CFR 56.50-1(g)(2)(iii)<sup>(1)</sup>
- Witness operation of alarms 46 CFR 62.35-10(c)<sup>(5)</sup>

118. Examine ballast pumps installation, piping and valves

- Verify emergency power requirements 46 CFR 112.15-5(q)<sup>(1)</sup>

- Verify local/remote valve operation 46 CFR 56.50-1(g)(1)<sup>(1)</sup>
- Verify piping material and condition 46 CFR 56.60-20(a)<sup>(1)</sup>
- Verify marking(s) of components 46 CFR 56.50-1(g)(2)(i)<sup>(1)</sup>

119. Inspect/examine oil/fuel service and transfer system(s)

- Verify condition 46 CFR 61.20-3  
46 CFR 56.50-75 & -60<sup>(1)</sup>
- Verify arrangement of system(s) 46 CFR 56.50-75 & -60<sup>(1)</sup>
- Verify condition of tank vent(s) 46 CFR 56.50-75 & -60<sup>(1)</sup>
- Verify arrangement of pressurized fuel piping 46 CFR 62.50-30(i)<sup>(9)</sup>
- Verify means to prevent overflow spillage 33 CFR 155.320  
46 CFR 56.50-90<sup>(1)</sup>
- Verify high temperature alarm 46 CFR 62.35-40(c)<sup>(1)</sup>
- Witness test of remote operated valve(s) 46 CFR 56.50-75 & -60(d)<sup>(1)</sup>
- Verify transfer procedures are posted or available 33 CFR 155.720 & .740(c)  
MSM II/B.6.D.16
- Verify flange or mechanical joints are fitted with a suitable shield 46 CFR 56.50-60(j)<sup>(1)</sup>
- Inspect nonmetallic flexible hoses and fittings 46 CFR 56.50-60(b)(2)(i) & (3)<sup>(1)</sup>  
46 CFR 56.60-25(b)<sup>(1)</sup>
- Verify operation of transfer pumps and remote shutdowns 46 CFR 58.01-25<sup>(1)</sup>

120. Inspect/examine Unfired Pressure Vessels (UPVs)

- Determine applicability 46 CFR 54.01-5<sup>(1)</sup>  
MOA OCS-08 Annex 1/22.J
- Verify arrangement of Pressure Relief Valve(s) (PRV) 46 CFR 54.15-5(a), (c), (e) & (i)<sup>(1)</sup>
- Verify marking(s) of PRV 46 CFR 54.10-20<sup>(1)</sup>  
46 CFR 54.15-1(b)<sup>(1)</sup>
- Verify arrangement of UPV 46 CFR 61.10-5(b)(2)<sup>(1)</sup>
- Verify marking(s) of UPV 46 CFR 54.10-20<sup>(1)</sup>
- Examine external condition of UPV 46 CFR 54.10-5(b)(1)<sup>(1)</sup>

121. Inspect/examine steering gear assembly and operation

- Examine condition of steering gear system See footnote (5)
- Verify automatic start after power failure See footnote (5)

- Verify accuracy of rudder angle indicator See footnote (5)
- Verify non-conventional rudder arrangements (thrusters) See footnote (5)
- Verify running indication for motors See footnote (5)
- Verify operation of means of communications See footnote (5)
- Witness functional system tests See footnote (5)

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

- Verify condition of components 46 CFR 61.20-3(a)<sup>(1)</sup>
- Verify installation of machinery covers and guards 46 CFR 108.223
- Verify required gauges 46 CFR 58.01-5 & 10-10<sup>(1)</sup>  
Class Society Rules
- Verify set point and operation of over speed shut-down 46 CFR 111.12-1(b)<sup>(1)</sup>
- Verify set point and operation of low lube oil pressure shut-down 46 CFR 111.12-1(c)<sup>(1)</sup>
- Verify set point and operation of high jacket water temperature alarm 46 CFR 58.01-5, .10-10<sup>(1)</sup>  
ABS SVR (2003) 4-2-1/7.17
- Verify operation of reverse power relays 46 CFR 111.12-11(f)<sup>(1)</sup>
- Verify means to bring vessel into operation from a dead ship condition 46 CFR 112.05-1(b)(3)<sup>(1)</sup>
- Verify manual override activation indicators 46 CFR 62.25-1(a) & -10(3)<sup>(3)</sup>

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

- Determine requirement 46 CFR 112.05-5<sup>(1)</sup>
- Examine condition of components 46 CFR 61.20-3(a)<sup>(1)</sup>
- Verify installation of machinery covers and guards 46 CFR 58.01-20<sup>(1)</sup>
- Verify starting system(s) 46 CFR 112.50-1(e)<sup>(1)</sup>  
46 CFR 112.50-3 thru .50-7<sup>(1)</sup>
- Verify two starting resources 46 CFR 112.50-1(k)<sup>(1)</sup>
- Verify operation of auto-start function 46 CFR 112.50-1(d) & (k)<sup>(1)</sup>  
MSM II/B.1.L.2
- Verify required gauges 46 CFR 58.03-1(c)<sup>(1)</sup>  
ABS Rules 4-2-1/7.17<sup>(1)</sup>

- Verify operation of remote fuel shutoff valve 46 CFR 56.50-75 & -60(d)<sup>(1)</sup>
- Verify set point and operation of over speed shut-down 46 CFR 111.12-1(b) & .50-(g)
- Verify set point and operation of lube oil pressure shut-down 46 CFR 112.50-1(g)<sup>(1)</sup>
- Verify set point and operation of high jacket water temperature alarm 46 CFR 112.50-1(h)<sup>(1)</sup>

124. Examine transfer procedures (when applicable)\*

- Determine applicability 33 CFR 155.100  
33 CFR 155.720
- Verify availability 33 CFR 155.720  
33 CFR 155.740(c)
- Verify contents 33 CFR 155.750

## Electrical Systems

125. Inspect/examine switchboards

- Verify openings and accesses in switchboard are guarded 46 CFR 111.40-9<sup>(1)</sup>
- Verify non-conductive mats or gratings 46 CFR 111.30-11<sup>(1)</sup>
- Verify condition of meters, controls, and gauges 46 CFR 111.30-25(b)(4), (5)<sup>(1)</sup>  
46 CFR 111.30-25(e)(2)<sup>(1)</sup>
- Verify markings 46 CFR 111.30-15<sup>(1)</sup>
- Verify equipment for parallel operation 46 CFR 111.30-25(d)<sup>(1)</sup>
- Verify ground detection 46 CFR 111.30-25(e)(1)<sup>(1)</sup>
- Verify rear access control 46 CFR 111.30-1<sup>(1)</sup>  
IEEE Std 45/8.2<sup>(1)</sup>
- Verify drip shields present

126. Inspect/examine motor controllers

- Verify condition of enclosure 46 CFR 111.01-1(a)(2)<sup>(1)</sup>
- Verify markings 46 CFR 111.70-3(d)<sup>(1)</sup>
- Verify drip-proof/watertight 46 CFR 111.95-3(a)<sup>(1)</sup>

- 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)<sup>(1)</sup>
  - Verify plan approval 46 CFR 107.305(aa)<sup>(1)</sup>  
46 CFR 110.25-1(i)<sup>(1)</sup>
  - Verify plan identifies all hazardous areas 46 CFR 108.170 thru .175  
46 CFR 110.25-1(i)<sup>(1)</sup>
  
- 129. Inspect/examine intrinsically safe electrical equipment in hazardous locations
  - Verify components/equipment are approved 46 CFR 111.105-11<sup>(1)</sup>  
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)<sup>(1)</sup>  
NEC 504.30(A)(3)
  - Verify equipment labeling 46 CFR 111.105-3<sup>(1)</sup> & .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<sup>(1)</sup>
  - Confirm equipment as marked is acceptable for location installed (Zone or Division) 46 CFR 111.105-3, -5 & -1<sup>(1)</sup>  
NEC 500.7 & 505.9<sup>(1)</sup>
  - Verify no unauthorized modifications or damage 46 CFR 111.105-3 & .105-5<sup>(1)</sup>  
NEC 500.8<sup>(1)</sup>

- Verify equipment has appropriate surface temperature class for gases or vapors that could be encountered in that space 46 CFR 111.105-1, -3 & -17<sup>(1)</sup>  
NEC 500.8<sup>(1)</sup>
- Verify wiring method 46 CFR 111.105-1<sup>(1)</sup>  
46 CFR 111.108-3
- Verify all cable entries are approved 46 CFR 111.105-1, -17(c) & (d)<sup>(1)</sup>  
46 CFR 111.108-3
- Verify equipment is protected against water and particulate ingress 46 CFR 111.01-9<sup>(1)</sup>  
46 CFR 111.108-3
- Verify arrangement for purged and pressurized equipment 46 CFR 111.105-7(b)<sup>(1)</sup>  
46 CFR 111.108-3
- Verify no obstructions around flameproof enclosures 46 CFR 111.105-9<sup>(1)</sup>  
46 CFR 111.108-3
- Verify fans for ventilation are non-sparking type 46 CFR 111.105-21<sup>(1)</sup>  
46 CFR 111.108-3

131. Inspect/examine machinery in hazardous areas

- Identify hazardous locations 46 CFR 108.170 thru 175  
46 CFR 111.105-33<sup>(1)</sup>
- Verify machinery is approved 46 CFR 111.108-3(g)<sup>(10)</sup>  
ASTM F2876-10/9

132. Inspect/examine openings, access and ventilation conditions in hazardous areas

- Verify arrangement of hazardous area openings 46 CFR 108.171 thru 175
- Verify arrangements for ventilation 46 CFR 108.185
- Examine condition of boundaries 46 CFR 108.171 thru 175
- Verify alarms 46 CFR 108.175(a)(3), (b)(3) & (c)(3)

## **Structural & Watertight Integrity**

133. Inspect/examine general condition of hull and structural members

- Examine condition of ladderways, guardrails, fire mains, piping, hatch covers & watertight/weathertight closures 33 CFR 143.110  
46 CFR 107.231(n)<sup>(1)</sup>
- Evaluate hull strength and integrity 46 CFR 107.261(1)<sup>(1)</sup>



- ☐ 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 local/remote alarms (when applicable) 46 CFR 108.114(c)(1)(ii)
  - 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 46 CFR 108.114(c)(1)(ii)

- ☐ 135. Inspect/examine external watertight integrity
  - Ensure all penetrations are watertight 46 CFR 56.50-1(a)<sup>(1)</sup>  
46 CFR 107.231(a)(4)<sup>(1)</sup>
  - Verify down-flooding openings have watertight closures 46 CFR 108.114(a)  
46 CFR 107.231(a)(4)<sup>(1)</sup>
  - Evaluate condition of watertight door(s) and hatches 46 CFR 108.114(c)  
46 CFR 107.231(a)(4)<sup>(1)</sup>

## 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)) 46 CFR 151.10(b)(5)<sup>(5)</sup>  
MARPOL I/14<sup>(5)</sup>
  - Witness operational test of oil filtering equipment 33 CFR 155.380<sup>(5)</sup>  
MARPOL I/14.6 & .7<sup>(5)</sup>
  - Review records MSM II/D.1.G.1.p(1)<sup>(5)</sup>  
G-MOC Policy Ltr 04-13<sup>(5)</sup>
  - Verify OCM is sealed MSM II/D.1.G.1.p(3)<sup>(5)</sup>  
MEPC.107(49)<sup>(5)</sup>
  - Verify OCM is calibrated MSM II/D.1.G.1.p(3)<sup>(5)</sup>  
G-MOC Policy Ltr 04-13<sup>(5)</sup>
  - Verify bilge alarm activation (MEPC.107(49)) MSM II/D.1.G.1.p(3)<sup>(5)</sup>  
G-PCV Policy Ltr 06-01<sup>(5)</sup>
  - Verify no dilution of processed oily water sample in line to OCM MSM II/D.1.G.1.p(3)<sup>(5)</sup>  
G-PCV Policy Ltr 06-01<sup>(5)</sup>
  - Verify presence of consumables IAW manufacturer's instructions MSM II/D.1.G.1.p(3)<sup>(5)</sup>

- Verify OCM activates overboard discharge valve MSM II/D.1.G.1.p(3)<sup>(5)</sup>

137.Examine Marine Sanitation Device (MSD)\*

- Verify type approval 33 CFR 159.7  
NVIC 01-09
- Verify labeling 33 CFR 159.55  
33 CFR 159.59
- Assess condition/operability MSM II/D.1.G.1.p(5)

138.Examine incinerator\*

- Verify approval See footnote (5)
- Verify presence of manufacturer's operating manual See footnote (5)
- Verify operating personnel training See footnote (5)
- Verify operation of fixed local fire extinguishing system See footnote (5)

139.Examine standard discharge connection\*

- Verify presence 33 CFR 155.430
- Verify condition 33 CFR 155.430

## Topside Equipment

140.Examine paint lockers\*

- Evaluate stowage of flammable and hazardous material 46 CFR 147.45
- Verify fire protection equipment provided for space 46 CFR 147.65
- Verify intrinsically safe electrical installations 46 CFR 111.105-11

## Cargo Systems

141.Examine portable tanks

- Determine applicability 46 CFR 109.557  
46 CFR 98.30-1
- Verify DOT labeling/placards 46 CFR 109.557  
49 CFR 172.326
- Verify additional firefighting equipment 46 CFR 109.557  
46 CFR 98.30-37
- Verify stowage and segregation 46 CFR 109.557  
46 CFR 98.30-9

- 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 46 CFR 109.213(f)(2)  
MSM II/B.1.P.3.v(1)(c)<sup>(1)</sup>
  - Verify effective communication between crew on scene and master in command center 46 CFR 109.213(f)(2)(iv)
  
- 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<sup>(1)</sup>  
IMO Res A.1052(17) 2.4<sup>(2)</sup>
  - Verify crew familiarity with vessel's Safety Management System (SMS) 33 CFR 96.240<sup>(1)</sup>  
ISM Code 6.1<sup>(2)</sup>

- Verify company responsibilities and authority are clearly defined 33 CFR Table 96.250(b)<sup>(1)</sup>  
ISM Code 3<sup>(2)</sup>
- Verify record keeping compliance 33 CFR 96.220(3)<sup>(1)</sup>  
ISM Code 11<sup>(2)</sup>
- Verify maintenance requirements 33 CFR Table 96.250(j)<sup>(1)</sup>  
ISM Code 10<sup>(2)</sup>
- Verify training requirements are IAW SMS 33 CFR Table 96.250(f)(4)-(7)<sup>(1)</sup>  
ISM Code 6.3 & .4<sup>(2)</sup>
- Review audit documentation and ensure follow-up actions completed/in-process 33 CFR Table 96.250(l)<sup>(1)</sup>  
ISM Code 1.4.6, 9.2<sup>(2)</sup>

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/timeframe 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<sup>(2)</sup>
- Issue documents to foreign flagged MSM II/G.3.N.9<sup>(2)</sup>  
CG-3585 & 5437 A/B<sup>(2)</sup>
- 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)<sup>(1)</sup>
- 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<sup>(1)</sup>  
BSEE/USCG MOA
- Issue control action(s) MMS Work Instruction

- 148. Verify deficiency corrections
  - Verify corrected deficiencies MSM II/A.2.C.4
  - Remove control action (when applicable) MSM II/A.2.C.2.d  
MMS Work Instruction
  - Clear deficiency in Misle activity MSM II/A.2.C.2.d  
MMS Work Instruction
  
- 149. Issue/endorse certificates
  - Issue/endorse COI/COC 46 CFR 107.283  
MPS-PR-SEC-05(04)
  - Obtain copy of endorsed certificates for foeriegn units MSM II/G.3.N.9<sup>(2)</sup>  
CG-3585 & 5437 A/B<sup>(2)</sup>
  - Obtain copy of endorsed certificates for U.S. units MSM I/12.E.7  
MPS-PR-SEC-05(04)
  
- 150. Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity
  - Update examination results with deficiencies issued on CG 835V/Form B MSM I/12.H.1  
MMS Work Instruction
  - Update activity narrative and special notes (as necessary) MSM I/12.G.2.a & 12.H.1  
MMS Work Instruction
  - Update details MSM I/12.F
  - Ensure unfired pressure vessel internal exam and relief valve test dates are documented in MISLE MSM II/G.3.G.4<sup>(2)</sup>  
MMS Work Instruction
  - Update documents MMS Work Instruction
  - Change status to "Open-Submitted for Review" MSM I/12.H.1  
MMS Work Instruction

## Section 4: Drill Record Sheets

### **Fire Drill:**

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

46 CFR 109.213(b); MSM Vol. II/D.1.G.1.r (2)

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

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

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**Abandonment Drill:**

General alarms / signals	Familiarity with duties	Boat release
Muster lists	Provide equipment	Boat operation
Muster of crew / passengers	Familiarity with equipment	Egress procedures
Crew response	Lower lifeboat	Davit-launched liferaft drill
Language understood by crew	Brake operation	Communication w/ bridge
Lifejackets	Engine start	Lighting

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: \_\_\_\_\_

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## Section 5: Appendices

### **Confined Space Entry Checklist**

#### **Sources for Policy**

- COMDTINST M5100.47, Chapter 6, change 11
- MSM Vol. 1, Chapter 10 & Appendix A, C, D to chap. 10
- MSM Vol. 2 Ch. 1, Section D, Chapter 6
- 29 CFR 1915, Part B

#### **A Confined Space for the purpose of this checklist is:**

A space that possess all of the following three distinct characteristics –

1. Is large enough and so configured that an employee can bodily enter & perform assigned work;
2. Has limited or restricted means for entry or exit; and
3. Is not designed for continuous employee occupancy

#### **Hazards associated with confined space entry**

- Oxygen deficient or enriched atmosphere
- Flammable atmosphere
- Toxic atmosphere
- Extreme temperature (hot or cold)
- Engulfment hazard (such as grain, coal, sand, gypsum or similar material)
- Extreme noise
- Slick / wet surfaces & tripping hazards
- Falling objects
- Potential for rapidly changing atmosphere

#### **USCG Confined Space Entry Requirement**

A certified Marine Chemist **shall** conduct the initial inspection & certify all confined spaces on merchant vessels “Safe for Workers” before entry by USCG personnel.

In rare circumstances, if a Marine Chemist is not available, the OCMI may designate a USCG Competent Person to certify a confined space “Safe for Workers”



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

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

<sup>(1)</sup>**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.**

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

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

<b><u>Non-confined spaces that may pose a risk (All vessel types)</u></b>	<b><u>Possible Hazard(s)</u></b>	<b><u>Safe Work Practice</u></b>
CO <sub>2</sub> Storage Room	O <sub>2</sub> deprivation due to leaking CO <sub>2</sub>	Ensure proper ventilation, wear O <sub>2</sub> meter
Machinery Spaces	Noise, Flammability, Toxicity; MSDs – H <sub>2</sub> S	Hearing protection
Flammable Storage Lockers/Paint Rooms	Flammability, Toxicity	Ensure proper ventilation
Battery Room	Toxicity -	Ensure proper ventilation
Bos'n Shop	O <sub>2</sub> deprivation	Ensure proper ventilation
Workshops	Toxicity from welding fumes, Flammability, Noise	Ensure proper ventilation
Compressor Rooms <sup>(1)</sup>	O <sub>2</sub> deprivation, Flammability	See Note 1
Provisions/Non-Flammable Storage	O <sub>2</sub> deprivation	Ensure proper ventilation
Open Cargo Deck	Flammability	Ensure use of intrinsically safe radios, flashlight, phone, etc.

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

## **IMMEDIATELY LEAVE ANY CONFINED SPACE IF:**

- A personal monitor alarms;
- You feel dizzy or lightheaded;
- The forced air ventilation stops or is apparently ineffective; or
- If you sense any unexpected chemical through smell or dermal sensation that concerns you. This is a judgment call; however, you should depart any time there is a burning sensation in your lungs or you experience a shortness of breath. Any of these sensations may indicate a life threatening situation and you must react promptly to avoid injury.

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

## **Steps to Take After Entry for All Confined Spaces**

- Immediately contact your chain of command if you left a confined space for any of the reasons noted above. Do not reenter any confined space until notification of appropriate senior personnel and direction from your supervisor is obtained.
- Report any inconsistencies in the marine chemist certificate or competent person log to your supervisor and follow-up with a letter to Commandant CG-1134 via your District (industrial hygienist).
- In the event of overexposure, personnel should be evacuated to appropriate medical facilities by the most expeditious means. Medical personnel should be provided with all known information on the suspected exposure, including concentration and duration of exposure. This should include the most probable route of exposure. Also provide the medical authority with the phone number to American Toxic Substance and Disease Registry (ATSDR).

# Primary Lifesaving Applicability

## U.S. & Option "A"

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

\*Pre-existing req's in 4-78, 3.d(8) replaced by 61 FR 25272; 63 FR 25802.

100% Fire-Protected Lifeboats



100% Lifeboats or Davit-Launched Liferrafts



or

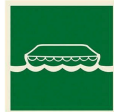


Built 01Jan1981 – 30Sep1996  
46 CFR 108.515

100% Fire-Protected Lifeboats



100% Lifeboats or Davit-Launched Liferrafts



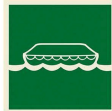
or



Built 01Oct1996 or later  
46 CFR 108.525

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

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



100% Float-Free Liferrafts



SEU Alternative, w/ OCMI Approval

100% Fire-Protected Lifeboats

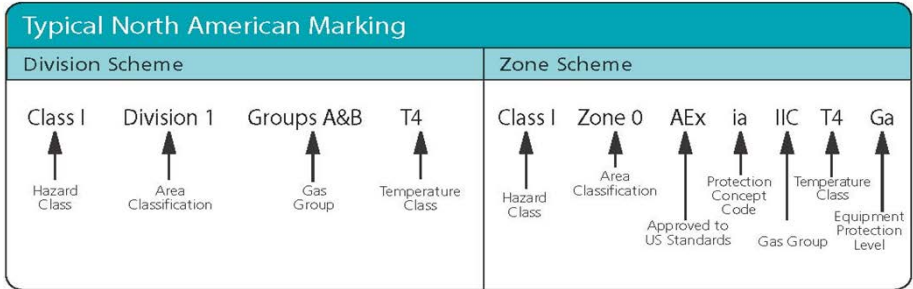


100% Davit-Launched Liferrafts (counted as req'd for float-free launch)

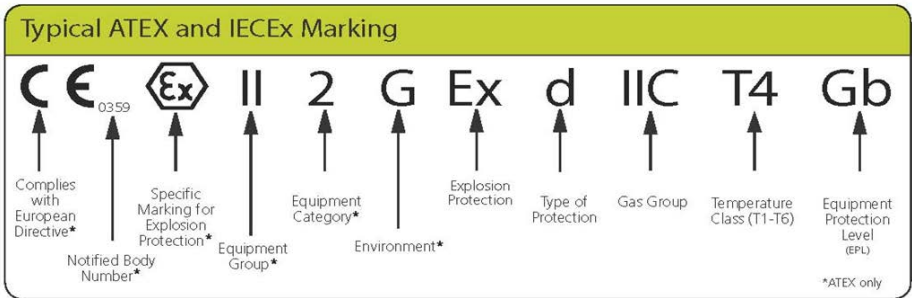


# HazLoc Marking Schemes

## Division & Zone (NEC):



## Zone (IEC):





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

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## Conversions:

<b>Distance and Energy</b>							
Kilowatts (kW)	X	1.341	=	Horsepower (hp)			
Feet (ft)	X	3.281	=	Meters (m)			
Long Ton (LT)	X	.98421	=	Metric Ton (t)			
<b>Liquid (NOTE: Values are approximate.)</b>							
Liquid	bbl/LT	m <sup>3</sup> /t	bbl/m <sup>3</sup>	bbl/t			
Freshwater	6.40	1.00	6.29	6.29			
Saltwater	6.24	.975	6.13	5.98			
Heavy Oil	6.77	1.06	6.66	7.06			
DFM	6.60	1.19	7.48	8.91			
Lube Oil	7.66	1.20	7.54	9.05			
<b>Weight</b>							
1 Long Ton	=	2240 lbs	1 Metric Ton	= 2204 lbs			
1 Short Ton	=	2000 lbs	1 Cubic Foot	= 7.48 gal			
1 Barrel (oil)	=	5.61 ft = 42 gal = 6.29 m <sup>3</sup>	1 psi	= .06895 Bar = 2.3106 ft of water			
<b>Temperature: Fahrenheit = Celsius (°F = 9/5 °C + 32 and °C = 5/9 (°F – 32))</b>							
0	=	-17.8	80	= 26.7	200	=	93.3
32	=	0	90	= 32.2	250	=	121.1
40	=	4.4	100	= 37.8	300	=	148.9
50	=	10.0	110	= 43.3	400	=	204.4
60	=	15.6	120	= 48.9	500	=	260
70	=	21.1	150	= 65.6	1000	=	537.8
<b>Pressure: Bars = Pounds per square inch</b>							
1 Bar	=	14.5 psi	5 Bars	= 72.5 psi	9 Bars	=	130.5 psi
2 bars	=	29.0 psi	6 Bars	= 87.0 psi	10 Bars	=	145.0 psi
3 Bars	=	43.5 psi	7 Bars	= 101.5 psi			
4 Bars	=	58.0 psi	8 Bars	= 116.0 psi			