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# U.S. COAST GUARD



## INSPECTED TOWING VESSEL INSPECTOR (ITVI)

### PERFORMANCE AND QUALIFICATION STANDARD



Marine Inspection and Investigation School  
Training Center Yorktown

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## Inspected Towing Vessel Inspector Performance and Qualification Standard

### Competency Code: ITVI

#### References:

- (a) U.S. Coast Guard Sector Organization Manual, COMDTINST M5401.6 (series)
- (b) Marine Safety Manual, COMDTINST M16000 (series)
- (c) Performance, Training & Education Manual, COMDTINST M1500.10 (series)
- (d) Safety and Environmental Health Manual, COMDTINST 5100.47 (series)

This Performance and Qualification Standard (PQS) workbook is your On the Job Training (OJT) performance checklist for certification as an Inspected Towing Vessel (ITV) Inspector. It is your responsibility to document all completed unit training items and keep track of all inspections completed during this process by filling out the Inspection Log located in appendix C in this workbook.

This qualification is intended for all Coast Guard Marine Inspectors (Active Duty Officers and Civilian GS Personnel).

Enlisted Assistant Marine Inspectors (EAMIs) may also complete this PQS in order to earn an Assistant Inspected Towing Vessel Inspector competency (AITVI) in accordance with CG-CVC Policy Letter 15-01. Per the policy letter, EAMIs are not required to attend the Marine Inspector Course as a prerequisite to attaining this competency, however all other prerequisites are required to be completed.

This PQS workbook contains the necessary tasks and steps for an ITVI to conduct an Inspection for Certification and drydock examination. The ITVI qualification is one of twelve Marine Inspector competencies. Those members who will be conducting inspections on ITVs are required to complete all tasks and steps in this PQS workbook. Certain tasks associated with inspections on specialized ITVs (i.e. international) were intentionally separated from this baseline qualification in order to streamline the national certification process and limit the need to defer tasks. To qualify for an endorsement to inspect specialized ITVs you will be required to complete the specific tasks and steps associated with that particular type of ITV, which are incorporated in the following addendum workbooks:

DCN: MPS-PQS-TCY-ITVII – International

The following is a brief overview of how this PQS workbook works. On each task card you will find:

1. **Job:** The formal title of the qualification.  
*Example: "Offshore Supply Vessel Inspector"*
2. **Job Accomplishment:** The main deliverable for the qualification.  
*Example: "Certificate of Inspection"*

3. **Major Accomplishment:** The valuable products of a job or specialty which collectively make up the job accomplishment.  
*Example: "Lifesaving Equipment Inspection"*
4. **Vessel types:** The specific type of vessels within the formal title of the qualification that the task is associated with.  
*Example: "Inspected Towing Vessel (ITV)"*
5. **Task:** Action to be performed on the job. A unit of behavior which has value for producing major accomplishments/output; has a definite beginning (stimulus); is made up of two or more steps; and results in a measurable output.
6. **Condition:** Specifies assistance, aids, or constraints the trainee will be given. It states the condition(s)/limit(s) under which the task will be performed.
7. **Standard:** Specifications of the levels of accuracy and quality necessary for success - that is, how well a trainee must carry out the desired performance to complete the task.
8. **Steps:** Sequence of actions which collectively make up the task's completion.

All tasks and steps must be validated by a certified Verifying Officer (VO). The VO shall observe the successful performance of each task and document such with signatures in the specific task card. VOs shall be experienced and competent personnel who have demonstrated the ability to evaluate, instruct and observe other personnel in the performance task criteria. VOs must be certified and recent in the competencies for which they are to verify and must be designated in writing, by the command. VOs must enter their title, name and initials in the Record of Verifying Officer's section before making entries in your PQS workbook.

Ideally, all steps and tasks within the PQS workbook shall be required to be completed prior to obtaining the ITVI competency. With the exception of the training prerequisites listed on page (I), the Officer in Charge of Marine Inspection (OCMI) or designee may defer PQS items as authorized by references (a) and (d). The deferment of tasks should only be done when all reasonable attempts have been exhausted that would allow the apprentice the opportunity to demonstrate proficiency with a particular task. If a task is deferred, the reason for the deferment must be clearly articulated in both the PQS workbook and the certification letter for record keeping and accountability. The certification will be considered a "local certification" per reference (b) (MSM I/7.C.2.g) and limited to the cognizant OCMI's zone. Upon transfer of the inspector or OCMI, the certification will be rescinded until the deferred items have completed to the satisfaction of the new OCMI. **Division Chiefs shall examine all qualifications and prerequisites of newly reported Marine Inspectors to identify any deferred items necessary for their port.**

Prior to any prerequisite being deferred the individual's command must seek a waiver from the Office of Commercial Vessel Compliance (CG-CVC-1).

A Certification Board should only be completed after all the tasks and steps are signed by a VO. Upon satisfactory completion of the board, a Letter of Certification/Designation will be issued and the **Unit Training Coordinator should enter the certification in Training Management Tool (TMT).**

**Appendices:**

- A. List of additional references
- B. Glossary
- C. Inspection Log

PQS Verifying Officer Signature Verification Log

RATE/ RANK	SIGNATURE/ PRINT NAME	EMPLID	INITIALS	UNIT
REMARKS:				

Inspected Towing Vessel Inspector (ITVI) PQS

<b>RECORD OF COMPLETION</b>		
<b>Training Prerequisites</b>	<b>Date</b>	<b>Training Coordinator's Signature</b>
A. Assign ITVI competency in TMT		
B. Completion of the following resident and on-line courses:		
1. Marine Inspector Course (501869); <i>and</i>		
2. Introduction to Confined Space Entry and Shipyard Competent Person for Marine Inspection/Port State Control (100028)		
C. Completion of this PQS Workbook		
D. Successful completion of final assessment under the observation of the Verifying Officer		
E. Successful completion of the final board by ITVICB		
<b>ITVICB Members Present for Board:</b>		
F. Completion of Inspected Tow Vessel Industry Familiarization		
G. Certification/Designation Letter submitted for approval		
H. Once Certification/Designation Letter is signed make appropriate entries in TMT		
<b>REMARKS:</b>		

## Inspected Towing Vessel Inspector (ITVI) PQS

<b>Task Number</b>	<b>Task Description</b>	<b>Date Completed</b>
ITV-PI01	Research vessel details in MISLE (Marine Information for Safety and Law Enforcement) database	
ITV-PI02	Determine authority, jurisdiction and applicable regulations	
ITV-PI03	Coordinate inspection with vessel representative	
ITV-PI04	Mitigate potential hazards encountered during an inspection	
ITV-DA01	Inspect external portions of vessel prior to embarkation	
ITV-SD01	Inspect Vessel Security Plan or Alternative Security Program	
ITV-SD02	Inspect security records	
ITV-SD03	Inspect security equipment	
ITV-SD04	Evaluate crew competency	
ITV-CD01	Review Certificate of Inspection (COI)	
ITV-CD02	Verify vessel's stability documents	
ITV-CD03	Inspect Merchant Mariner Credentials (MMCs)	
ITV-CD04	Inspect compliance with Drug and Alcohol Program	
ITV-CD05	Inspect personnel records and emergency duty station assignments	
ITV-CD06	Verify State Registration	
ITV-CD07	Verify Certificate of Documentation (COD)	
ITV-CD08	Inspect Federal Communication Commission (FCC) documents	
ITV-LM01	Review Health and Safety Plan	
ITV-LM02	Inspect logbooks, towing vessel record (TVR) or TSMS record	
ITV-LM03	Inspect Nontank Vessel Response Plan (NTVRP)	
ITV-LM04	Oil Record Book	
ITV-LM05	Inspect garbage management plan and placard(s)	
ITV-LM06	Inspect ballast water management documents	
ITV-LM07	Verify compliance with the Vessel General Permit (VGP)	
ITV-LM08	Verify crew training	
ITV-SM01	Inspect Towing Safety Management System (TSMS)	
ITV-SM02	Witness Towing Safety Management System (TSMS) audit	
ITV-BN01	Inspect navigation assessment	



## Inspected Towing Vessel Inspector (ITVI) PQS

<b>Task Number</b>	<b>Task Description</b>	<b>Date Completed</b>
ITV-BN02	Inspect charts and publications	
ITV-BN03	Inspect radar(s)	
ITV-BN04	Inspect communications equipment	
ITV-BN05	Inspect navigation lights and dayshapes	
ITV-BN06	Inspect sound signaling device(s)	
ITV-BN07	Inspect fathometer/echo depth-sounding device	
ITV-BN08	Inspect vessel search lights	
ITV-BN09	Inspect electronic position fixing device (GPS)	
ITV-BN10	Inspect magnetic compass/swing meter	
ITV-BN11	Inspect general alarm system	
ITV-BN12	Inspect alarms at operating station(s)	
ITV-BN13	Inspect internal communications	
ITV-BN14	Inspect pilothouse alerter system or Bridge Navigation Watch Alert System (BNWAS)	
ITV-BN15	Inspect Automated Identification System (AIS)	
ITV-BN16	Verify operating station visibility	
ITV-LS01	Inspect survival craft	
ITV-LS02	Inspect life jackets	
ITV-LS03	Inspect immersion suits	
ITV-LS04	Inspect ring life buoy	
ITV-LS05	Inspect distress signals	
ITV-LS06	Inspect Emergency Position Indicating Radio Beacon (EPIRB)	
ITV-LS07	Inspect line throwing equipment	
ITV-FF01	Verify fire hazards minimized	
ITV-FF02	Inspect fire fighter's outfit	
ITV-FF03	Inspect fire axe	
ITV-FF04	Inspect portable firefighting extinguishers	
ITV-FF05	Inspect semi-portable firefighting equipment	
ITV-FF06	Inspect fixed fire-extinguishing system	
ITV-FF07	Inspect portable fire pump and equipment	

## Inspected Towing Vessel Inspector (ITVI) PQS

<b>Task Number</b>	<b>Task Description</b>	<b>Date Completed</b>
ITV-FF08	Inspect fixed fire pump and fire main	
ITV-FF09	Inspect fire-detection system	
ITV-MI01	Inspect main propulsion system	
ITV-MI02	Inspect fuel system	
ITV-MI03	Inspect bilge system	
ITV-MI04	Inspect unfired pressure vessels (UPVs)	
ITV-MI05	Inspect steering gear	
ITV-MI06	Verify additional requirements for vessels that move tank barges carrying oil or hazardous materials in bulk	
ITV-ES01	Inspect electrical conductors, connections and equipment	
ITV-ES02	Inspect main service generator(s) and prime mover(s)	
ITV-ES03	Inspect battery installation	
ITV-ES04	Inspect distribution panels and switchboards	
ITV-SW01	Inspect hatches and Class-1 watertight doors	
ITV-SW02	Inspect watertight bulkhead penetrations	
ITV-SW03	Inspect hull structure	
ITV-PP01	Inspect Marine Sanitation Device (MSD)	
ITV-PP02	Inspect oil transfer procedures and pollution placard	
ITV-PP03	Inspect transfer hose(s)/piping, fittings and containment	
ITV-PP04	Inspect Oily Water Separator (OWS)	
ITV-TE01	Inspect handrails, bulwarks, storm rails & fall overboard prevention procedures	
ITV-TE02	Inspect freeing ports and scuppers	
ITV-TE03	Inspect air ports, dead covers and vent openings	
ITV-TE04	Inspect fuel tank vents	
ITV-TG01	Inspect towing gear for towing along side or pushing ahead	
ITV-TG02	Inspect terminal gear - towing astern	
ITV-TG03	Inspect administrative procedures	
ITV-HI01	Verify if vessel qualifies to participate in Underwater Survey Program (UWILD)	
ITV-HI02	Inspect hull for defects during an underwater survey	
ITV-HI03	Inspect steel and aluminum hulls	

## Inspected Towing Vessel Inspector (ITVI) PQS

<b>Task Number</b>	<b>Task Description</b>	<b>Date Completed</b>
ITV-HI04	Inspect hull markings	
ITV-HI05	Inspect main propulsion propeller(s)	
ITV-HI06	Inspect tailshaft(s) and stern bearing(s)	
ITV-HI07	Inspect rudder installation	
ITV-HI08	Inspect hull appendages	
ITV-HI09	Inspect non-propulsion thruster(s)	
ITV-IS01	Verify confined spaces are safe for entry	
ITV-IS02	Inspect vessel's internal structures	
ITV-WR01	Evaluate structural repair proposals	
ITV-WR02	Verify welding Procedure Qualification Record(s) (PQR)	
ITV-WR03	Verify welder is qualified to perform repair work	
ITV-WR04	Inspect fit-up	
ITV-WR05	Inspect back gouge	
ITV-WR06	Inspect welds	
ITV-NT01	Verify nondestructive testing (NDT) using the liquid (dye) penetrant method	
ITV-NT02	Verify nondestructive testing (NDT) using the magnetic particle method	
ITV-NT03	Verify nondestructive testing (NDT) using the radiography (gamma rays or x-rays) method	
ITV-NT04	Verify nondestructive testing (NDT) using the ultrasonic method	
ITV-NT05	Verify nondestructive testing (NDT) using the hydro-static method	
ITV-NT06	Verify nondestructive testing (NDT) using the pneumatic (air test) method	
ITV-FU01	Issue deficiencies & non-conformities	
ITV-FU02	Issue TSMS non-conformity notifications	
ITV-FU03	Issue/Endorse vessel's certificates	
ITV-FU04	Complete MISLE Activity	
ITV-FU05	Verify deficiency corrections	

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Pre-Inspection (PI)****Inspected Towing Vessel**

**Task:** ITV-PI01 Research vessel details in MISLE (Marine Information for Safety and Law Enforcement) database

**Condition:** *During preparation for inspection*

**Standard:** *In accordance with current policies, procedures and processes*

- References:**
1. Title 33, Code of Federal Regulations Part 138 Financial Responsibility for Water Pollution & OPA 90 Limits of Liability
  2. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  3. Title 46, Code of Federal Regulations Part 138 Towing Safety Management System (TSMS)
  4. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management

Steps		References	Initials
PI01.1	Locate vessel	MSM I/12.G.5	
PI01.2	Review vessel particulars	46 CFR 137.200 & .202 MSM I/12.G.5 MSM II/B.1.C.2	
PI01.3	Review history (narratives, deficiencies & special notes)	MSM I/12.G.2 MSM I/12.G.7 MSM II/B.1.C.2	
PI01.4	Verify user fees	MSM I/12.G.2	
PI01.5	Generate new activity	MSM I/12.G.2.a	
PI01.6	Verify Certificate of Financial Responsibility is valid	33 CFR 138.15 33 CFR 138.30 33 CFR 138.65	
PI01.7	Verify TSMS option vessel current on audits & surveys	46 CFR 138.305(a)	

**Verifying Officer Guidance:**

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Pre-Inspection (PI)****Inspected Towing Vessel**

**Task:** ITV-PI02 Determine authority, jurisdiction and applicable regulations

**Condition:** *Preparation for inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, United States Code § 3301 Vessels Subject to Inspection
2. Title 46, Code of Federal Regulations Part 136 Certification
3. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
PI02.1	Verify authority	46 USC 3301(15) 46 CFR 136.212 MSM II/A.1	
PI02.2	Verify route (freshwater/saltwater service)	46 CFR 137.300 46 CFR 136.230	
PI02.3	Verify Coast Guard option	46 CFR 137.200	
PI02.4	Verify TSMS option	46 CFR 137.202	

**Verifying Officer Guidance:**

**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Pre-Inspection (PI)****Inspected Towing Vessel****Task:** ITV-PI03 Coordinate inspection with vessel representative**Condition:** *During preparation for inspection***Standard:** *In accordance with current policies, procedures and processes*

- References:**
1. Title 46, Code of Federal Regulations Part 136 Certification
  2. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  3. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1
  5. MPS-PR-SEC-01 Scheduling Domestic Vessel Inspections
  6. MPS-PR-SEC-04 Preparing for Inspections and Examinations

Steps		References	Initials
PI03.1	Verify vessel's representative	46 CFR 137.202 MPS-PR-SEC-01	
PI03.2	Determine location and time of inspection	46 CFR 136.210 MPS-PR-SEC-01	
PI03.3	Discuss inspection expectations	MSM II/B.3.A 46 CFR 137.215 46 CFR 136.212(b)	
PI03.4	Verify vessel's owner/operator information	MPS-PR-SEC-04 46 CFR 136.210	
PI03.5	Verify vessel's Classification Society information	46 CFR 136.205	
PI03.6	Discuss outstanding conditions and/or CG-835s	MSM II/B.1.C.2 MPS-PR-SEC-04	
PI03.7	Review planned repairs and alterations	MSM II/B.1.C.2	

**Verifying Officer Guidance:** *To access CG-MMS (MPS-PR-SEC-01 & 04):*  
<https://cg.portal.uscg.mil/units/forcecom/Assessment/FC-Aemms/SitePages/Home.aspx>

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****All Inspections****Pre-Inspection (PI)****Inspected Towing Vessel****Task:** ITV-PI04 Mitigate potential hazards encountered during an inspection**Condition:** *During preparation for inspection***Standard:** *In accordance with current policies, procedures and processes*

- References:**
1. Title 29, Code of Federal Regulations Part 1915 Occupational Safety & Health Standards for Shipyard Employment
  2. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management
  3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1
  4. NFPA 306 Standard for the Control of Gas Hazards on Vessels, 2009
  5. Gas Alert Quattro Gas Detector Operator's Manual

Steps		References	Initials
PI04.1	Recognize potential hazards encountered during inspection	NFPA 306 29 CFR 1910 29 CFR 1915.4	
PI04.2	Determine confined spaces	MSM I/10 App.A	
PI04.3	Determine if exam scope will require a Marine Chemist certification for space entry	29 CFR 1915, Subpart B MSM II/A.5.H	
PI04.4	Verify Marine Chemist has been scheduled for exam (when applicable)	MSM I/10 App. A	
PI04.5	Prepare necessary personal protective equipment for exam	MSM I/10 App. A Quattro Operator's Manual	
PI04.6	Review CG policy for when to leave a space due to hazardous condition	MSM I/10 App. A	
PI04.7	Verify competent person scope of responsibilities	MSM II/A.5	

**Verifying Officer Guidance:** *Review Sector/local policy on confined space entry and interaction with Marine Chemists.*

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Dockside Assessment (DA)****Inspected Towing Vessel**

**Task:** ITV-DA01 Inspect external portions of vessel prior to embarkation

**Condition:** *While observing the vessel from dock or anchorage*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, United States Code § 1321 Oil & Hazardous Substance Liability
  2. Title 33, Code of Federal Regulations Part 104 Maritime Security - Vessels
  3. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
  4. Title 46, Code of Federal Regulations Part 67 Documentation of Vessels
  5. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  6. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement

Steps		References	Initials
DA01.1	Verify name, hailing port and official number markings	46 CFR 144.160(a) & (b) 46 CFR 67.121 46 CFR 67.123	
DA01.2	Verify draft marks	46 CFR 144.160(c)	
DA01.3	Verify Load Line markings	46 CFR 144.160(d) 46 CFR 144.125 46 CFR 42.13	
DA01.4	Verify IMO number	33 CFR 104.297	
DA01.5	Evaluate hull for signs of pollution/illegal discharge	33 USC 1321	
DA01.6	Evaluate hull condition	46 CFR 137.325	
DA01.7	Examine means of embarkation (gangway/ladders)	46 CFR 140.510(a)(10)	

**Verifying Officer Guidance:**

**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**



**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Security (Domestic) Inspection (SD)****Inspected Towing Vessel****Task:** **ITV-SD01 Inspect Vessel Security Plan or Alternative Security Program****Condition:** *During a Security Compliance Inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 104 Maritime Security - Vessels
  2. Title 46, Code of Federal Regulations Part 140 Operations
  3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
  4. International Ship & Port Facility Security (ISPS) Code, 2012
  5. NVIC 04-03 Guidance for Verification of Vessel Security Plans on Domestic Vessels
  6. CG-543 Policy Letter 11-04 Compliance Verification of Alternative Security Programs for MTSA Regulated Vessels & Facilities

Steps		References	Initials
SD01.1	Verify presence of approval letter for plan type	46 CFR 140.660 33 CFR 104.120(a) SOLAS 14 XI-2/4.2	
SD01.2	Verify plan is secured	33 CFR 104.400(c) ISPS Code A/9.7 NVIC 04-03	
SD01.3	Examine contents	33 CFR 104.400 CG-543 Policy Ltr 11-04	
SD01.4	Verify amendments(s)	33 CFR 104.415(a)	
SD01.5	Verify implementation	33 CFR 104.400(a) CG-543 Policy Ltr 11-04	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Security (Domestic) Inspection (SD)****Inspected Towing Vessel****Task:** ITV-SD02 Inspect security records**Condition:** *During a Security Compliance Inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 33, Code of Federal Regulations Part 104 Maritime Security - Vessels
2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
3. International Ship & Port Facility Security (ISPS) Code, 2012
4. NVIC 04-03 Guidance for Verification of Vessel Security Plans on Domestic Vessels

Steps		References	Initials
SD02.1	Verify records(s) of training	33 CFR 104.235(b)(1) SOLAS 14 XI-2/4.2 ISPS Code A/10.1.1	
SD02.2	Verify presence of Declarations of Security (DOS)	33 CFR 104.235(b)(7) ISPS Code A/5.7 NVIC 04-03	
SD02.3	Verify record(s) of drills	33 CFR 104.235(b)(2) ISPS Code A/10.1.1	
SD02.4	Verify annual exercise has been conducted	33 CFR 104.235(b)(2) ISPS Code A/10.1.1	
SD02.5	Verify records of breaches of security	33 CFR 104.235(b)(3) ISPS Code A/10.1.3 NVIC 04-03	
SD02.6	Verify record(s) of audits	33 CFR 104.235(b)(8) ISPS Code A/10.1.6	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Security (Domestic) Inspection (SD)**

**Inspected Towing Vessel**

**Task:** ITV-SD03 Inspect security equipment

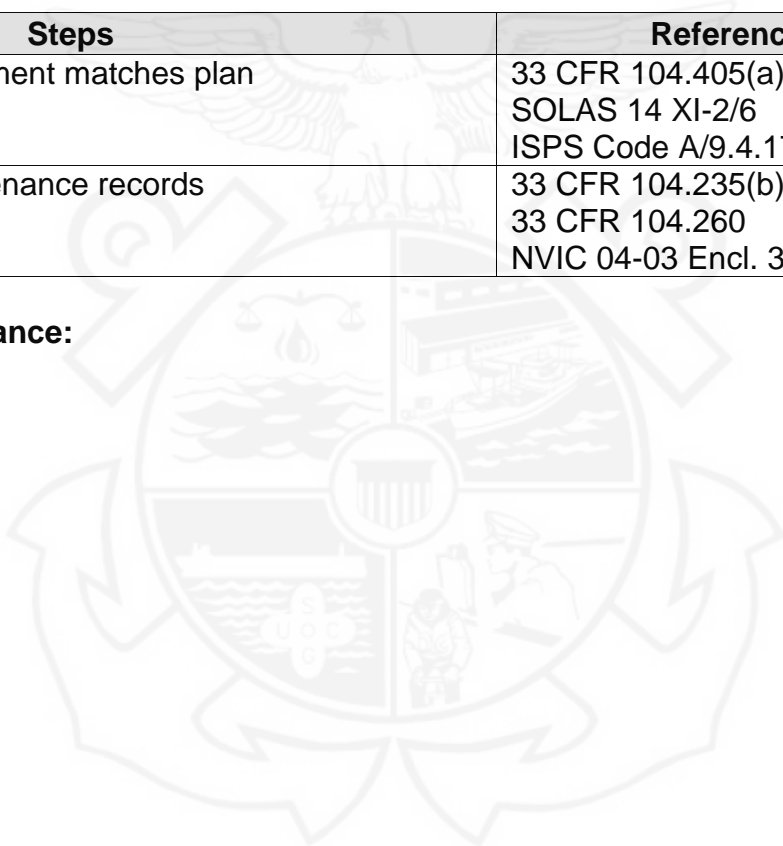
**Condition:** *During a Security Compliance Inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 104 Maritime Security - Vessels
  2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
  3. International Ship & Port Facility Security (ISPS) Code, 2012
  4. NVIC 04-03 Guidance for Verification of Vessel Security Plans on Domestic Vessels

Steps		References	Initials
SD03.1	Verify equipment matches plan	33 CFR 104.405(a)(9) SOLAS 14 XI-2/6 ISPS Code A/9.4.17	
SD03.2	Verify maintenance records	33 CFR 104.235(b)(5) 33 CFR 104.260 NVIC 04-03 Encl. 3 Section 10	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Security (Domestic) Inspection (SD)****Inspected Towing Vessel****Task:** ITV-SD04 Evaluate crew competency**Condition:** *During a Security Compliance Inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 33, Code of Federal Regulations Part 104 Maritime Security - Vessels
2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
3. International Ship & Port Facility Security (ISPS) Code, 2012
4. NVIC 04-03 Guidance for Verification of Vessel Security Plans on Domestic Vessels

Steps		References	Initials
SD04.1	Identify Company Security Officer (CSO)	33 CFR 104.200(b)(2) SOLAS 14 XI-2/4.2 ISPS Code A/11.1	
SD04.2	Identify Vessel Security Officer (VSO)	33 CFR 104.200(b)(2) ISPS Code A/12.1	
SD04.3	Evaluate VSO's knowledge regarding responsibilities	33 CFR 104.215(e) ISPS Code A/12.2 NVIC 04-03 Encl. 3 Section 9	
SD04.4	Evaluate crew's knowledge regarding responsibilities	33 CFR 104.220 ISPS Code A/13.3 NVIC 04-03 Encl. 3 Section 10	
SD04.5	Verify compliance with current Maritime security (MARSEC) level in effect	33 CFR 104.240 33 CFR 104.215(e)(9) ISPS Code A/12.2.9	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Certificates and Documents (CD)**

**Inspected Towing Vessel**

**Task:** ITV-CD01 Review Certificate of Inspection (COI)

**Condition:** *While validating certificates and documents*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 15 Manning Requirements
  2. Title 46, Code of Federal Regulations Part 136 Certification
  3. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  4. Title 46, Code of Federal Regulations Part 140 Operations
  5. COMDTINST M16000.8B Marine Safety Manual Volume III Marine Industry Personnel

Steps		References	Initials
CD01.1	Verify presence of original	46 CFR 136.200 46 CFR 136.220	
CD01.2	Verify amendments	46 CFR 136.235	
CD01.3	Verify manning	MSM III/?? 46 CFR 15.501 46 CFR 140.205(c)	
CD01.4	Verify certificate is endorsed	46 CFR 137.200(b)	
CD01.5	Verify appropriate for compliance option chosen	46 CFR 136.130	
CD01.6	Verify regulatory exceptions	46 CFR 136.110 46 CFR 136.230	

**Verifying Officer Guidance:**

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Certificates and Documents (CD)**

**Inspected Towing Vessels**

**Task:** ITV-CD02 Verify vessel's stability documents

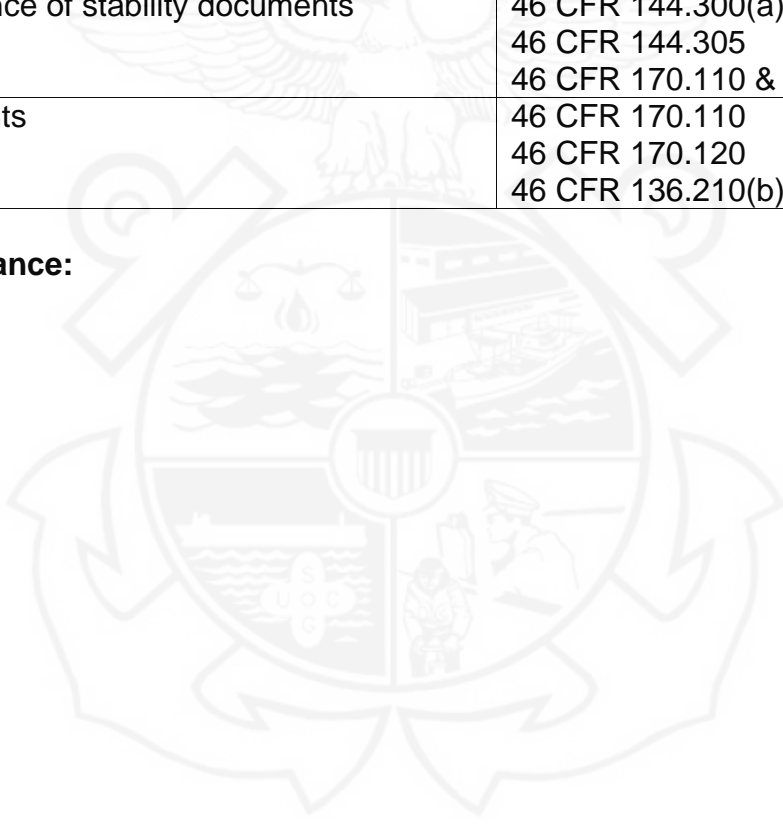
**Condition:** While validating certificates and documents

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 136 Certification
  2. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  3. Title 46, Code of Federal Regulations Part 170 Stability Requirements for All Inspected Vessels

Steps		References	Initials
CD02.1	Verify presence of stability documents	46 CFR 144.300(a) 46 CFR 144.305 46 CFR 170.110 & .120	
CD02.2	Verify contents	46 CFR 170.110 46 CFR 170.120 46 CFR 136.210(b)(2)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Certificates and Documents (CD)****Inspected Towing Vessels**

**Task:** ITV-CD03 Inspect Merchant Mariner Credentials (MMCs), Medical Certificates & Transportation Worker Identification Credentials (TWICs)

**Condition:** While validating certificates and documents

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 10 Merchant Mariner Credential
  2. Title 46, Code of Federal Regulations Part 15 Manning Requirements
  3. Title 46, Code of Federal Regulations Part 140 Operations
  4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
  5. International Convention on Standards of Training, Certification & Watchkeeping (STCW) 1978, as amended
  6. CG-543 Policy Letter 11-15 Processing of Merchant Mariner Credentials (MMC) for Mariners Not Requiring a TWIC

Steps		References	Initials
CD03.1	Verify MMCs meet COI manning requirements	46 CFR 15.515 46 CFR 15.805(a)(5) 46 CFR 15.810(b) & (d)	
CD03.2	Verify presence of original MMCs	46 CFR 10.201(b) 46 CFR 140.205	
CD03.3	Verify validity of MMCs	46 CFR 10.205	
CD03.4	Verify medical certificate	46 CFR 10.301 STCW I/9.3	
CD03.5	Verify Transportation Worker Identification Credential (TWIC)	46 CFR 10.203(b) CG-543 Policy Ltr 11-15	
CD03.6	Verify STCW Endorsements	46 CFR 15.815 STCW IV/1	
CD03.7	Verify valid radar endorsements	46 CFR 15.815	
CD03.8	Verify identification of non-credentialed personnel	46 CFR 140.205(e)	
CD03.9	Verify GMDSS endorsements	46 CFR 140.625 SOLAS 14 IV/16.1 STCW IV/2	
CD03.10	Verify Pilot endorsement or pilotage requirement met	46 CFR 15.812(a) 46 CFR 15.812(b)(3)	

**Verifying Officer Guidance:**

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Certificates and Documents (CD)****Inspected Towing Vessels**

**Task:** ITV-CD04 Inspect compliance with Drug and Alcohol Program

**Condition:** *While validating certificates and documents*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 4 Marine Casualties & Investigations  
2. Title 46, Code of Federal Regulations Part 16 Chemical Testing

Steps		References	Initials
CD04.1	Verify current Employee Assistance Program (EAP)	46 CFR 16.401	
CD04.2	Verify presence and currency of drug and alcohol testing equipment	46 CFR 4.06-15	
CD04.3	Verify training of designated testing crewmember (when applicable)	46 CFR 4.06-20(a)(3) 46 CFR 4.06-20(b)(2)	
CD04.4	Verify pre-employment testing program for dangerous drugs	46 CFR 16.210	
CD04.5	Verify random chemical testing program for dangerous drugs	46 CFR 16.230	
CD04.6	Verify means of post accident testing chemical testing for dangerous drugs	46 CFR 4.06-15	

**Verifying Officer Guidance:**

**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**



**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Certificates and Documents (CD)**

**Inspected Towing Vessels**

**Task:** ITV-CD05 Inspect personnel records and emergency duty station assignments

**Condition:** *While validating certificates and documents*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
CD05.1	Verify personnel records	46 CFR 140.400(a) 46 CFR 140.400(b) 46 CFR 140.915(a)(1)	
CD05.2	Verify emergency duty station assignments	46 CFR 140.405(b)	
CD05.3	Verify emergency duty station assignments posted	46 CFR 140.405(c)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Certificates and Documents (CD)**

**Inspected Towing Vessel**

**Task:** ITV-CD06 Verify State Registration

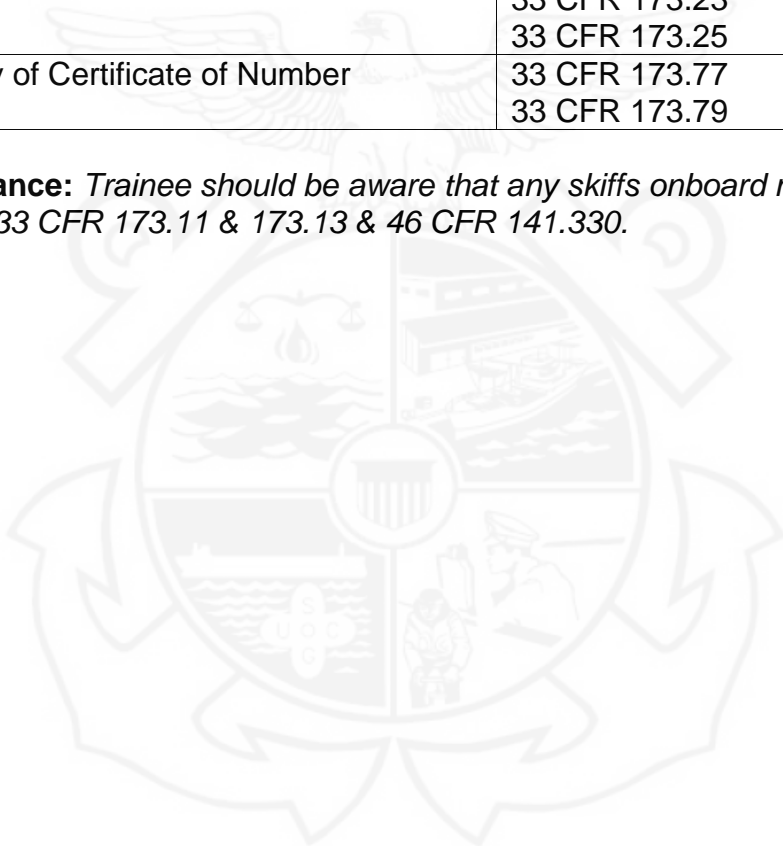
**Condition:** *While validating certificates and documents*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 33, Code of Federal Regulations Part 173 Vessel Numbering and Casualty & Accident Reporting

Steps		References	Initials
CD06.1	Verify presence of Certificate of Number	33 CFR 173.21 33 CFR 173.23 33 CFR 173.25	
CD06.2	Verify validity of Certificate of Number	33 CFR 173.77 33 CFR 173.79	

**Verifying Officer Guidance:** *Trainee should be aware that any skiffs onboard may also require a State Registration IAW 33 CFR 173.11 & 173.13 & 46 CFR 141.330.*



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Certificates and Documents (CD)**

**Inspected Towing Vessels**

**Task:** ITV-CD07 Verify Certificate of Documentation (COD)

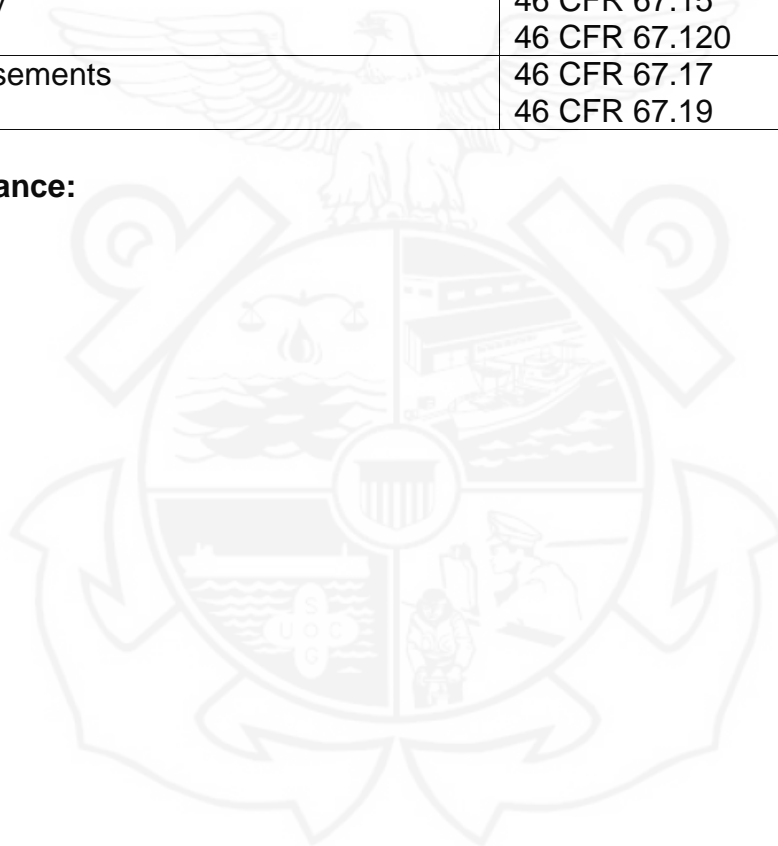
**Condition:** *While validating certificates and documents*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 67 Documentation of Vessels

Steps		References	Initials
CD07.1	Verify presence	46 CFR 67.7 46 CFR 67.313	
CD07.2	Verify validity	46 CFR 67.15 46 CFR 67.120	
CD07.3	Verify endorsements	46 CFR 67.17 46 CFR 67.19	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Certificates and Documents (CD)**

**Inspected Towing Vessels**

**Task:** ITV-CD08 Inspect Federal Communication Commission (FCC) documents

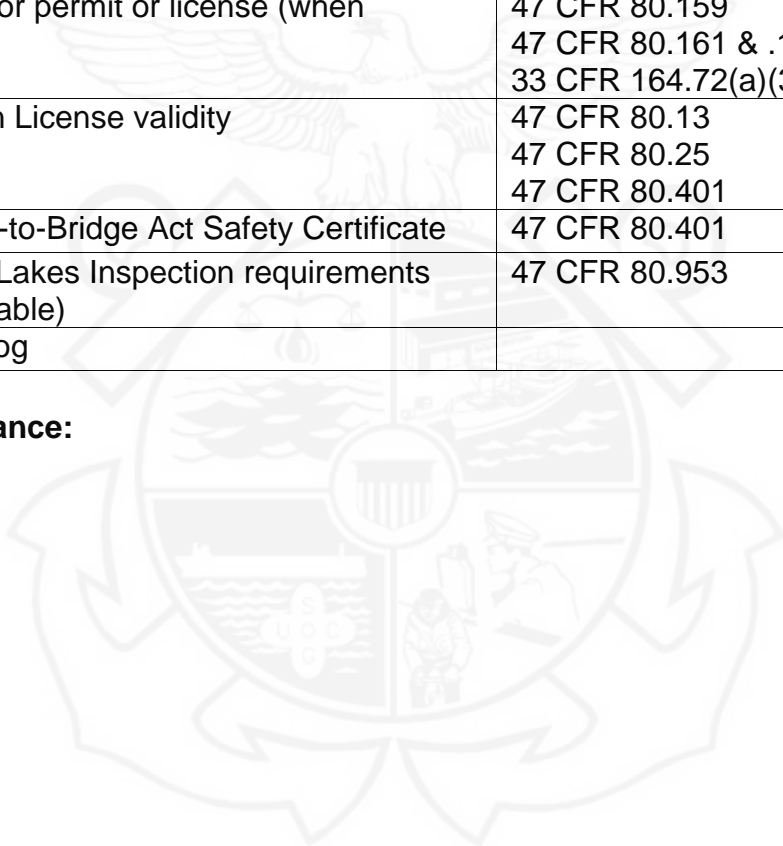
**Condition:** *While validating certificates and documents*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services
  2. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations

Steps		References	Initials
CD08.1	Verify documents	47 CFR 80.403	
CD08.2	Verify operator permit or license (when applicable)	47 CFR 80.159 47 CFR 80.161 & .163 33 CFR 164.72(a)(3)	
CD08.3	Verify Station License validity	47 CFR 80.13 47 CFR 80.25 47 CFR 80.401	
CD08.4	Verify Bridge-to-Bridge Act Safety Certificate	47 CFR 80.401	
CD08.5	Verify Great Lakes Inspection requirements (when applicable)	47 CFR 80.953	
CD08.6	Verify radio log		

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Logs and Manuals Inspection (LM)**

**Inspected Towing Vessels**

**Task:** ITV-LM01 Review Health and Safety Plan

**Condition:** *While validating logs and manuals*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
LM01.1	Verify presence of health and safety plan	46 CFR 140.500 46 CFR 140.505	
LM01.2	Verify procedures to report unsafe conditions	46 CFR 140.505(a) 46 CFR 140.515(a)(2)	
LM01.3	Verify recordkeeping	46 CFR 140.500(a) 46 CFR 140.505(a) 46 CFR 140.515(f)	
LM01.4	Verify appropriate personal protective equipment available to crew	46 CFR 140.505(d)	
LM01.5	Verify crew training	46 CFR 140.505 46 CFR 140.515	
LM01.6	Verify non-crew safety information	46 CFR 140.515(e)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Logs and Manuals Inspection (LM)**

**Inspected Towing Vessels**

**Task:** ITV-LM02 Inspect logbooks, towing vessel record (TVR) or TSMS record

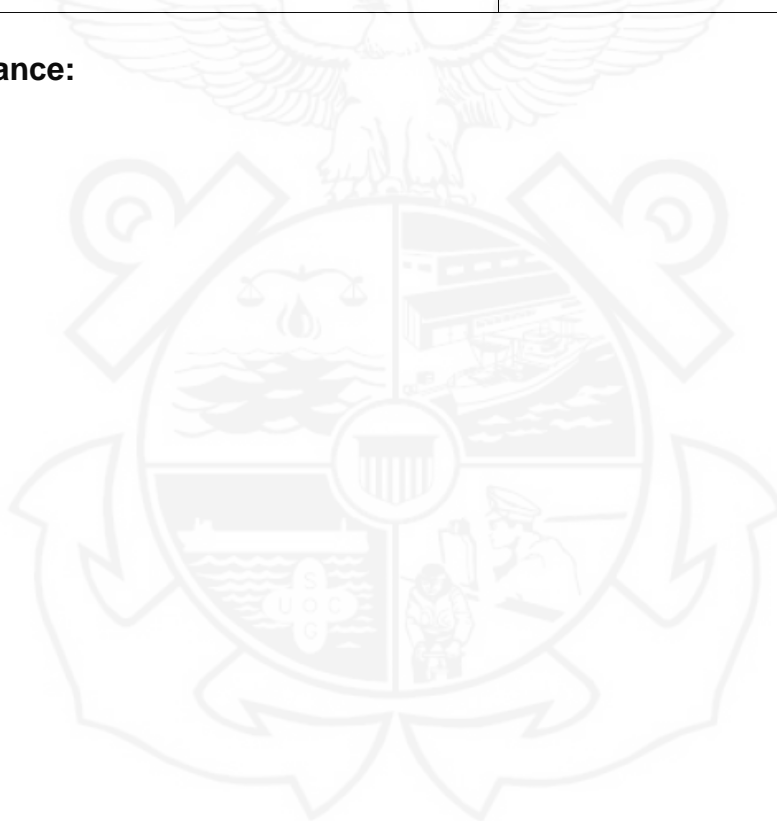
**Condition:** *While validating logs and manuals*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
LM02.1	Verify presence of official logbook	46 CFR 140.905	
LM02.2	Verify presence of TVR or TSMS record	46 CFR 140.910	
LM02.3	Verify all required entries are recorded	46 CFR 140.915	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Logs and Manuals Inspection (LM)**

**Inspected Towing Vessel**

**Task:** ITV-LM03 Inspect Nontank Vessel Response Plan (NTVRP)

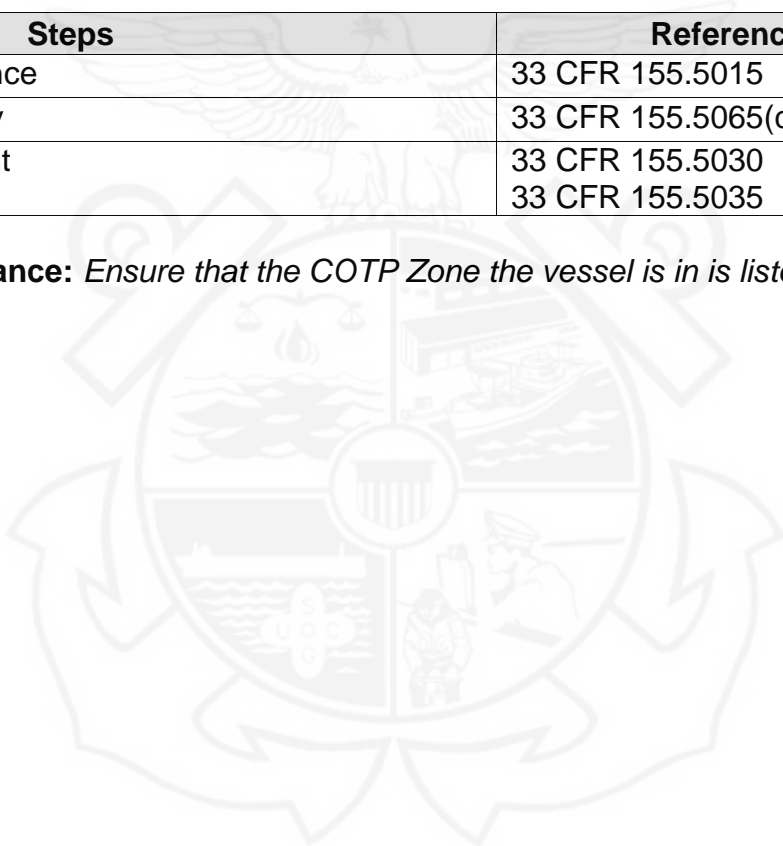
**Condition:** *While validating logs and manuals*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, United States Code § 1321 Oil & Hazardous Substance Liability
  2. Title 33, Code of Federal Regulations Part 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels
  3. NVIC 01-05 Interim Guidance for the Development and Review of Response Plans for Non Tank Vessels

Steps		References	Initials
LM03.1	Verify presence	33 CFR 155.5015	
LM03.2	Verify validity	33 CFR 155.5065(c)	
LM03.3	Verify content	33 CFR 155.5030 33 CFR 155.5035	

**Verifying Officer Guidance:** *Ensure that the COTP Zone the vessel is in is listed on the approval letter.*



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Logs and Manuals Inspection (LM)****Inspected Towing Vessel****Task:** ITV-LM04 Oil Record Book**Condition:** *While validating logs and manuals***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water
2. CG-CVC Letter, 16711 Serial #756 dated August 21, 2013 - Continued Use of 2007 Oil Record Book, CG-4602A (Rev. 01-07)

Steps		References	Initials
LM04.1	Verify presence	33 CFR 151.25(a) 33 CFR 151.25(i) 33 CFR 151.25(k)	
LM04.2	Verify edition of ORB	33 CFR 151.25(b) CG-CVC Letter	
LM04.3	Verify required entries	33 CFR 151.25(d) 33 CFR 151.25(g) 33 CFR 151.25(h) & (j)	
LM04.4	Verify required signatures	33 CFR 151.25(h)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**



**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Logs and Manuals Inspection (LM)**

**Inspected Towing Vessel**

**Task:** ITV-LM05 Inspect garbage management plan and placard(s)

**Condition:** *While validating logs and manuals*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water

Steps		References	Initials
LM05.1	Verify presence of garbage management plan	33 CFR 151.51 33 CFR 151.57(a)	
LM05.2	Verify plan content	33 CFR 151.57(b)	
LM05.3	Verify plastics retained or incinerated	33 CFR 151.67 33 CFR 151.59	
LM05.4	Verify presence of placard(s)	33 CFR 151.59	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Logs and Manuals Inspection (LM)**

**Inspected Towing Vessel**

**Task:** ITV-LM06 Inspect ballast water management documents

**Condition:** *While validating logs and manuals*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water

Steps		References	Initials
LM06.1	Verify Ballast Water Management System approval	33 CFR 151.2025(a)(1)	
LM06.2	Verify Ballast Water Management Plan	33 CFR 151.2050(g)	
LM06.3	Verify reporting compliance	33 CFR 151.2060	
LM06.4	Verify records	33 CFR 151.2070	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Logs and Manuals Inspection (LM)****Inspected Towing Vessel****Task:** ITV-LM07 Verify compliance with the Vessel General Permit (VGP)**Condition:** *While validating logs and manuals***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. EPA Vessel General Permit for Discharges Incidental to the Normal Operation of Vessels (VGP), 2013
2. CG-543 Policy Letter 11-01 Guidelines for CG Evaluations of Compliance with the EPA's Vessel General Permit

Steps		References	Initials
LM07.1	Verify Notice of Intent (NOI) has been submitted	VGP 1.5.1.1 & 10 VGP Table 1 CG-543 Policy Ltr 11-01	
LM07.2	Verify compliance with ballast water record keeping requirements	VGP 4.3 CG-543 Policy Ltr 11-01	
LM07.3	Verify noncompliance & reportable quantity reports have been submitted	VGP 4.4.1 VGP 4.4.2 CG-543 Policy Ltr 11-01	

**Verifying Officer Guidance:** *The EPA has posted electronic copies of the VGP and other related information, including VGP Fact Sheets, on the EPA's NPDES – Vessel Discharges webpage at [www.epa.gov/npdes/vessels-incident-discharge-permitting-3](http://www.epa.gov/npdes/vessels-incident-discharge-permitting-3).*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Logs and Manuals Inspection (LM)**

**Inspected Towing Vessel**

**Task:** ITV-LM08 Verify crew training

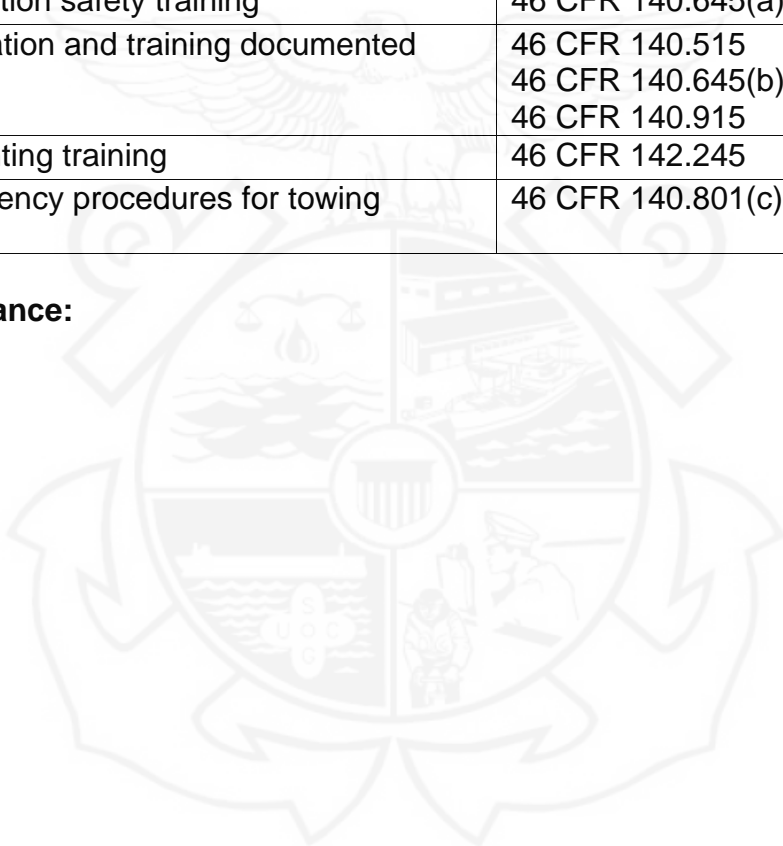
**Condition:** *While validating logs and manuals*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
LM08.1	Verify safety orientation	46 CFR 140.410 46 CFR 140.415	
LM08.2	Verify navigation safety training	46 CFR 140.645(a)	
LM08.3	Verify orientation and training documented	46 CFR 140.515 46 CFR 140.645(b) 46 CFR 140.915	
LM08.4	Verify firefighting training	46 CFR 142.245	
LM08.5	Verify emergency procedures for towing training	46 CFR 140.801(c)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Safety Management System (SM)****Inspected Towing Vessel****Task:** ITV-SM01 Inspect Towing Safety Management System (TSMS)**Condition:** While validating logs and manuals**Standard:** In compliance with applicable policies, laws, regulations and standards

**References:**

1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
2. Title 46, Code of Federal Regulations Part 138 Towing Safety Management System (TSMS)

Steps		References	Initials
SM01.1	Verify issuance of TSMS Certificate	46 CFR 138.115 46 CFR 138.305(f)	
SM01.2	Verify validity of TSMS Certificate	46 CFR 138.305(b)	
SM01.3	Verify internal audits conducted	46 CFR 138.310(c) 46 CFR 138.405	
SM01.4	Verify external audits conducted	46 CFR 138.315(c) 46 CFR 138.410 46 CFR 138.505	
SM01.5	Verify TSMS content	46 CFR 138.215 46 CFR 138.220	
SM01.6	Verify TSMS reports and documentation	46 CFR 137.135	
SM01.7	Verify policies and procedures applicable to the vessel are available to the crew	46 CFR 137.220(a)(2)	

**Verifying Officer Guidance:** *The TSMS Certificate may be kept at a shoreside office and a copy may be provided onboard the vessel IAW 46 CFR 138.305(a) and (f). SM01.5 may be a spot-check of the SMS. SM01.6 ensure trainee verifies document control, ensures Master's annual review is completed reviews the list of ongoing corrective actions. Non-conformities identified in external audits should be entered into MISLE by the responsible unit.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Safety Management System (SM)**

**Inspected Towing Vessel**

**Task:** **ITV-SM02 Witness Towing Safety Management System (TSMS) audit**

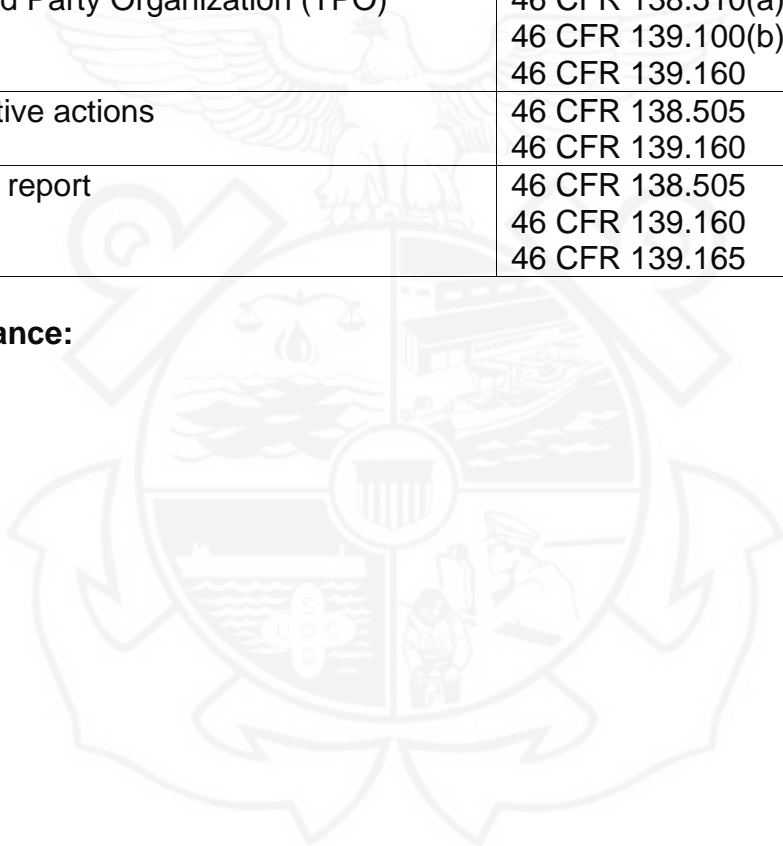
**Condition:** *During Third Party Organization vessel audit*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 138, Towing Safety Management System (TSMS)
  2. Title 46, Code of Federal Regulations Part 139, Third Party Organizations

Steps		References	Initials
SM02.1	Observe Third Party Organization (TPO) vessel audit	46 CFR 138.510(a) 46 CFR 139.100(b) 46 CFR 139.160	
SM02.2	Verify corrective actions	46 CFR 138.505 46 CFR 139.160	
SM02.3	Review audit report	46 CFR 138.505 46 CFR 139.160 46 CFR 139.165	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN01 Inspect navigation assessment

**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations  
 2. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
BN01.1	Verify navigation assessment conducted	46 CFR 140.635 46 CFR 140.640 33 CFR 164.80(c)(3)	
BN01.2	Verify navigation assessment entry is logged	46 CFR 140.635(d)	
BN01.3	Verify communication of navigation assessment	46 CFR 140.640(a)(1)	

**Verifying Officer Guidance:** *Interview Master/crew in regard to navigation assessment procedures.*



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Bridge/Navigation Inspection (BN)****Inspected Towing Vessel****Task:** ITV-BN02 Inspect charts and publications**Condition:** *Navigation systems and equipment inspected***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 33, Code of Federal Regulations Part 83 Inland Navigation Rules - Rules
2. Title 33, Code of Federal Regulations Part 161 Vessel Traffic Management
3. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
4. Title 46, Code of Federal Regulations Part 140 Operations
5. NVIC 01-16 Use of Electronic Charts and Publications In Lieu of Paper Charts, Maps and Publications

Steps		References	Initials
BN02.1	Verify presence of current and corrected charts or maps	46 CFR 140.705(b)(1) 33 CFR 164.72(b)(1) NVIC 01-16	
BN02.2	Verify presence of current and applicable U.S. Coast Pilot	46 CFR 140.705(b)(2) 33 CFR 164.72(b)(2) NVIC 01-16	
BN02.3	Verify presence of current and applicable U.S. Coast Guard Light List	46 CFR 140.705(b)(3) 33 CFR 164.72(b)(2) NVIC 01-16	
BN02.4	Verify presence of USACOE or river authority river stage(s) or Water Surface Elevations (Western Rivers)	46 CFR 140.705(b)(4) 33 CFR 164.72(b)(2)	
BN02.5	Verify presence of current and applicable Tidal-Current Tables or River-Current Tables	46 CFR 140.705(a) 33 CFR 164.72(b)(2) NVIC 01-16	
BN02.6	Verify presence of Inland Navigation Rules (when applicable)	33 CFR 83.01(g)	
BN02.7	Verify presence of applicable Notices to Mariners, Notices to Navigation and/or Local Notices to Mariners	33 CFR 164.72(b)(2) NVIC 01-16	
BN02.8	Verify presence of VTS rules (when applicable)	33 CFR 161.4 NVIC 01-16	

**Verifying Officer Guidance:**

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>



**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN03 Inspect radar(s)

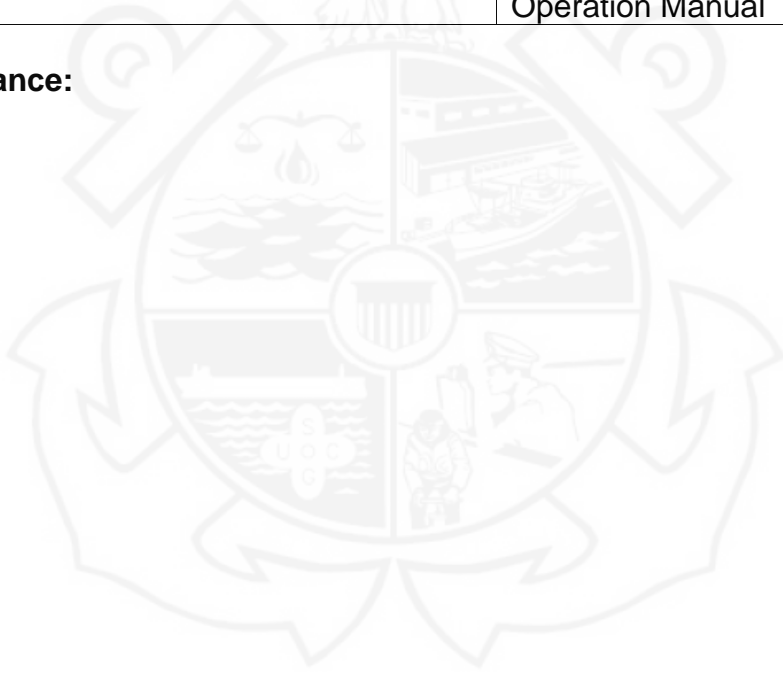
**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
  2. Title 46, Code of Federal Regulations Part 140 Operations
  3. Manufacturer's Operation Manual

Steps		References	Initials
BN03.1	Verify presence	46 CFR 140.710 33 CFR 164.72(a)(1)	
BN03.2	Verify safety precautions associated with the testing of radar equipment are followed	Operation Manual	
BN03.3	Witness operational test	33 CFR 164.80(a)(2) Operation Manual	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Bridge/Navigation Inspection (BN)****Inspected Towing Vessel****Task:** ITV-BN04 Inspect communications equipment**Condition:** *During bridge/navigation inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 33, Code of Federal Regulations Part 26 Vessel Bridge-To-Bridge Radiotelephone Regulations
2. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
3. Title 46, Code of Federal Regulations Part 140 Operations
4. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services

Steps		References	Initials
BN04.1	Verify presence	46 CFR 140.715(a) 33 CFR 164.72(a)(3) 33 CFR 26.03(a)(3)	
BN04.2	Verify installation	46 CFR 140.715(b) 33 CFR 26.03 47 CFR 80.955	
BN04.3	Verify operation	46 CFR 140.715 33 CFR 26.03	
BN04.4	Verify hand-held radio	46 CFR 140.715(c)	
BN04.5	Verify battery backup	46 CFR 140.715(b) 46 CFR 143.555(a)(3)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Bridge/Navigation Inspection (BN)****Inspected Towing Vessel****Task:** ITV-BN05 Inspect navigation lights and dayshapes**Condition:** *During bridge/navigation inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 33, Code of Federal Regulations Part 83 Inland Navigation Rules - Rules
2. Title 33, Code of Federal Regulations Part 84 Inland Navigation Rules - Annex I: Positioning & Technical Details of Lights & Shapes
3. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
BN05.1	Verify approved type navigation lights	46 CFR 140.720 46 CFR 143.415 33 CFR 84.13 & .15	
BN05.2	Verify proper installation (i.e. arc, side-screens, height)	33 CFR 84.03 33 CFR 84.05 33 CFR 84.09	
BN05.3	Verify light configuration and operation without a tow	33 CFR 83.23(a) (Rule 23) 33 CFR 83.04	
BN05.4	Verify configuration and operation for towing astern	33 CFR 83.24(a) (Rule 24) 33 CFR 83.04	
BN05.5	Verify configuration and operation for pushing ahead or towing alongside	33 CFR 83.24(c) (Rule 24) 33 CFR 83.04	
BN05.6	Verify configuration and operation for towing under Western River exceptions	33 CFR 83.24(i) (Rule 24) 33 CFR 83.04	
BN05.7	Inspect dayshapes	33 CFR 83.20(d) (Rule 20) 33 CFR 84.11	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN06 Inspect sound signaling device(s)

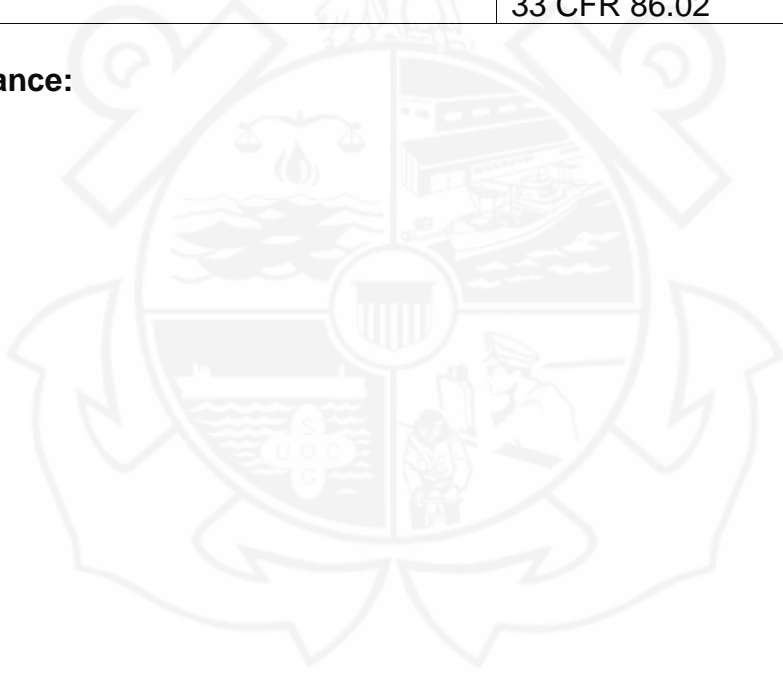
**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 140 Operations
  2. Title 33, Code of Federal Regulations Part 83 Inland Navigation Rules - Rules
  3. Title 33, Code of Federal Regulations Part 86 Inland Navigation Rules - Annex III: Technical Details of Sound Signal Appliances

Steps		References	Initials
BN06.1	Verify presence	46 CFR 140.720 33 CFR 83.33 (Rule 33)	
BN06.2	Witness operational test	33 CFR 83.33 (Rule 33) 33 CFR 86.01 33 CFR 86.02	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN07 Inspect fathometer/echo depth-sounding device

**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
  2. Title 46, Code of Federal Regulations Part 140 Operations
  3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
BN07.1	Verify presence	46 CFR 140.725(a) 33 CFR 164.72(a)(5) SOLAS 14 V/19.2.2.1	
BN07.2	Verify device is readable from main steering station	33 CFR 164.72(a)(5)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN08 Inspect vessel search lights

**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
  2. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
BN08.1	Verify presence	46 CFR 140.725(b) 33 CFR 164.72(a)(2)	
BN08.2	Verify control from main steering station	46 CFR 140.725(b) 33 CFR 164.72(a)(2)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN09 Inspect electronic position fixing device (GPS)

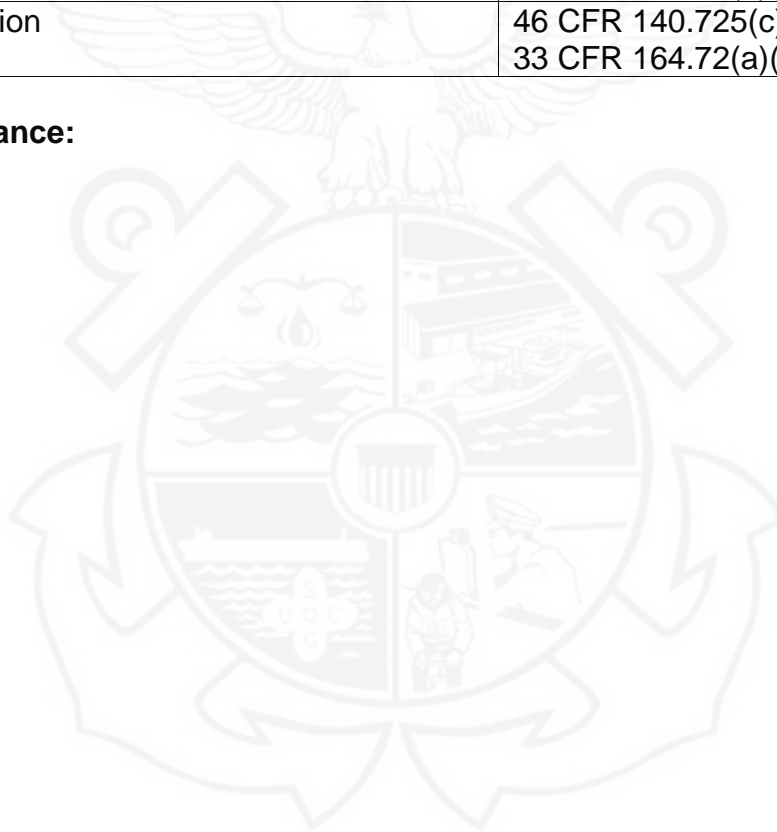
**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
  2. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
BN09.1	Verify presence	46 CFR 140.725(c) 33 CFR 164.72(a)(6)	
BN09.2	Verify operation	46 CFR 140.725(c) 33 CFR 164.72(a)(6)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN10 Inspect magnetic compass/swing meter

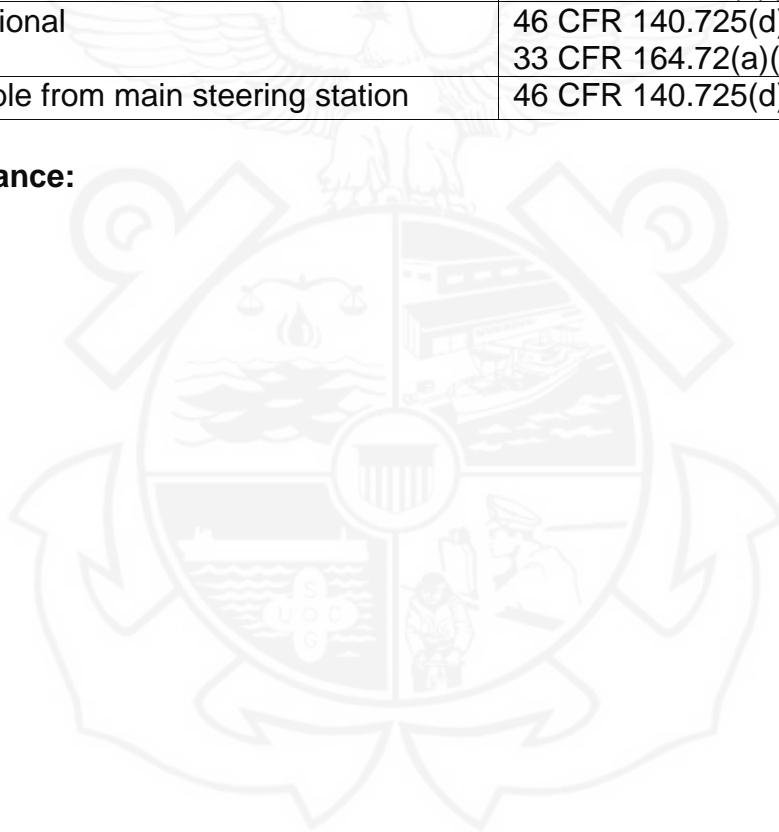
**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
  2. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
BN10.1	Verify illuminated	46 CFR 140.725(d) 33 CFR 164.72(a)(4)	
BN10.2	Verify operational	46 CFR 140.725(d) 33 CFR 164.72(a)(4)	
BN10.3	Verify readable from main steering station	46 CFR 140.725(d)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>



**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN11 Inspect general alarm system

**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
BN11.1	Witness test of general alarm	46 CFR 143.235 46 CFR 143.245	
BN11.2	Verify activation location(s)	46 CFR 143.235(b)(1)	
BN11.3	Verify audible location(s)	46 CFR 143.235(b)(2)	
BN11.4	Verify lights and signage	46 CFR 143.235(b)(3)	
BN11.5	Verify public address/alternate system	46 CFR 143.235(b)(4)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN12 Inspect alarms at operating station(s)

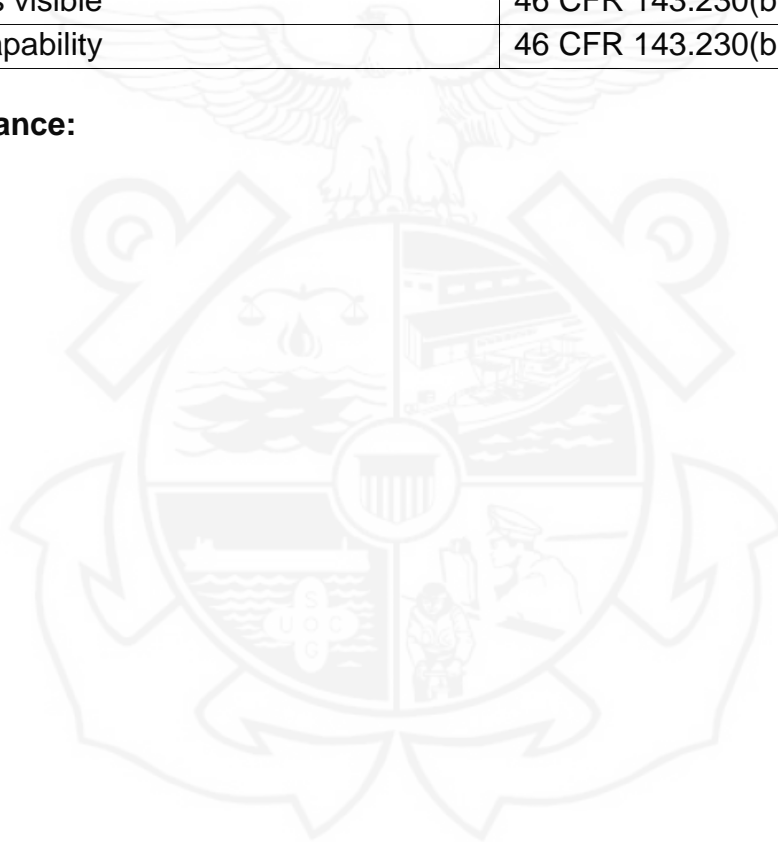
**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery, and Electrical Systems and Equipment

Steps		References	Initials
BN12.1	Verify presence at each operating station	46 CFR 143.230(a)	
BN12.2	Verify alarms visible	46 CFR 143.230(b)(1)	
BN12.3	Verify test capability	46 CFR 143.230(b)(2)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** **ITV-BN13 Inspect internal communications**

**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
  2. Title 46, Code of Federal Regulations Part 143 Machinery, and Electrical Systems and Equipment
  3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
BN13.1	Verify presence of required equipment	46 CFR 143.240(b)	
BN13.2	Verify operation of equipment	46 CFR 143.240(b)(2) 33 CFR 164.80 SOLAS 14 III/6.4.1	
BN13.3	Verify independent power supply	46 CFR 143.240(b)(1)	
BN13.4	Verify testing of communications equipment	46 CFR 143.245(b)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN14 Inspect pilothouse alerter system or Bridge Navigation Watch Alert System (BNWAS)

**Condition:** *During electrical systems inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 143 Machinery, and Electrical Systems and Equipment
  2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
BN14.1	Verify presence	46 CFR 143.450(a) SOLAS 14 V/19.2.2.4 46 CFR 143.200	
BN14.2	Verify time interval and operation information	46 CFR 143.450(b)	
BN14.3	Verify system test	46 CFR 143.245	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN15 Inspect Automated Identification System (AIS)

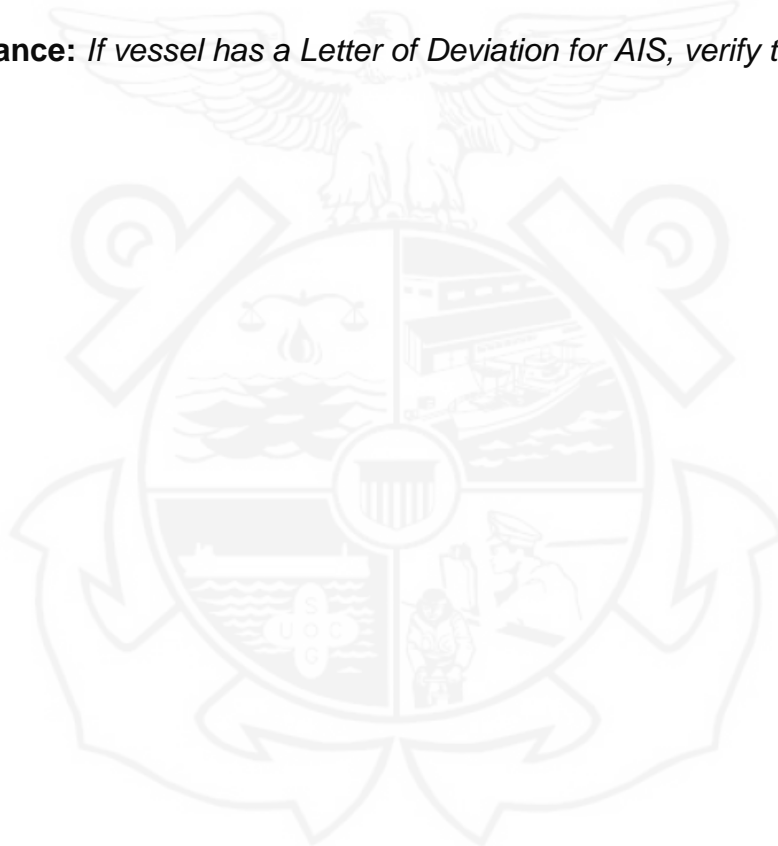
**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations

Steps		References	Initials
BN15.1	Verify presence	33 CFR 164.46(a)(3)(ii)	
BN15.2	Verify operation	33 CFR 164.46(b)	

**Verifying Officer Guidance:** *If vessel has a Letter of Deviation for AIS, verify that it is not expired.*



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Bridge/Navigation Inspection (BN)**

**Inspected Towing Vessel**

**Task:** ITV-BN16 Verify operating station visibility

**Condition:** *During bridge/navigation inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement

Steps		References	Initials
BN16.1	Verify provisions to maintain adequate visibility in all weather conditions	46 CFR 144.905(b)	
BN16.2	Verify field of vision from the operating station	46 CFR 144.905(c) 46 CFR 144.905(d)	
BN16.3	Verify window light transmission	46 CFR 144.905(e)	

**Verifying Officer Guidance:** *Verify applicability of window light transmission on vessel being inspected.*



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Lifesaving Equipment Inspection (LS)****Inspected Towing Vessel****Task:** ITV-LS01 Inspect survival craft**Condition:** *During lifesaving equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 141 Lifesaving
  2. Title 46, Code of Federal Regulations Part 199 Lifesaving Appliances & Arrangements
  3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LS01.1	Verify appropriate survival craft onboard	46 CFR 141.305 46 CFR 141.330 SOLAS 14 III/21	
LS01.2	Verify condition	46 CFR 141.305(b) 46 CFR 141.230 46 CFR 141.235	
LS01.3	Verify stowage	46 CFR 141.305(b)(1) 46 CFR 141.310 46 CFR 199.130	
LS01.4	Verify inflatable survival craft placards	46 CFR 141.320	
LS01.5	Verify markings	46 CFR 141.315 46 CFR 199.176 46 CFR 199.178	
LS01.6	Verify equipment	46 CFR 141.325 46 CFR 199.175	

**Verifying Officer Guidance:** *If the survival craft is a skiff over 10HP, verify State Registration IAW 33 CFR 173.11.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Lifesaving Equipment Inspection (LS)**

**Inspected Towing Vessel**

**Task:** ITV-LS02 Inspect life jackets

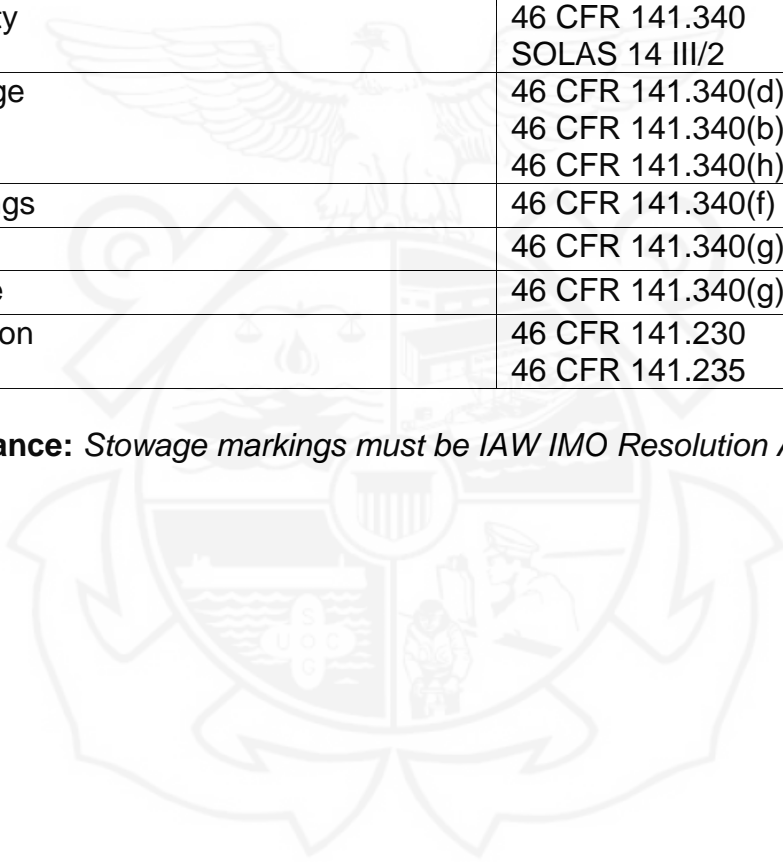
**Condition:** *During lifesaving equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 141 Lifesaving  
 2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LS02.1	Verify type approval	46 CFR 141.340	
LS02.2	Verify quantity	46 CFR 141.340 SOLAS 14 III/2	
LS02.3	Verify stowage	46 CFR 141.340(d) 46 CFR 141.340(b) 46 CFR 141.340(h)	
LS02.4	Verify markings	46 CFR 141.340(f)	
LS02.5	Verify lights	46 CFR 141.340(g)(1)	
LS02.6	Verify whistle	46 CFR 141.340(g)(2)	
LS02.7	Verify condition	46 CFR 141.230 46 CFR 141.235	

**Verifying Officer Guidance:** *Stowage markings must be IAW IMO Resolution A.760(18).*



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>



**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Lifesaving Equipment Inspection (LS)****Inspected Towing Vessel****Task:** ITV-LS03 Inspect immersion suits**Condition:** *During lifesaving equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 141 Lifesaving
  2. Title 46, Code of Federal Regulations Part 199 Lifesaving Appliances & Arrangements
  3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
  4. NVIC 01-08 Shipboard Inspection and Testing of Immersion Suits

Steps		References	Initials
LS03.1	Verify type approval	46 CFR 141.350(a)(1)	
LS03.2	Verify required quantity and size	46 CFR 141.350(a) SOLAS 14 III/32	
LS03.3	Verify stowage	46 CFR 141.350 46 CFR 199.70(c)(2) 46 CFR 199.70(d)	
LS03.4	Verify markings	46 CFR 141.350(b) 46 CFR 199.70(c)(3)	
LS03.5	Verify lights	46 CFR 141.350(b) 46 CFR 199.70(c)(4)(i)	
LS03.6	Verify whistles	46 CFR 141.350(b) 46 CFR 199.70(c)(4)(ii)	
LS03.7	Verify condition	46 CFR 141.235 46 CFR 141.230 NVIC 01-08	

**Verifying Officer Guidance:** *Stowage markings must be IAW IMO Resolution A.760(18).*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Lifesaving Equipment Inspection (LS)****Inspected Towing Vessel****Task:** ITV-LS04 Inspect ring life buoy**Condition:** *During lifesaving equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, Code of Federal Regulations Part 141 Lifesaving
2. Title 46, Code of Federal Regulations Part 160 Equipment, Construction & Materials: Specifications & Approval - Lifesaving Equipment

Steps		References	Initials
LS04.1	Verify type approval	46 CFR 141.360(b)(1) 46 CFR 160.050	
LS04.2	Verify quantity	46 CFR 141.360(a)	
LS04.3	Verify stowage	46 CFR 141.360(a) 46 CFR 141.360(b)	
LS04.4	Verify markings	46 CFR 141.360(b) 46 CFR 160.050-6	
LS04.5	Verify condition	46 CFR 141.360 46 CFR 141.230	
LS04.6	Inspect lifeline	46 CFR 141.360(c)(1)	
LS04.7	Inspect waterlight	46 CFR 141.360(c)	

**Verifying Officer Guidance:** *Stowage markings must be IAW IMO Resolution A.760(18).*

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Lifesaving Equipment Inspection (LS)**

**Inspected Towing Vessel**

**Task:** ITV-LS05 Inspect distress signals

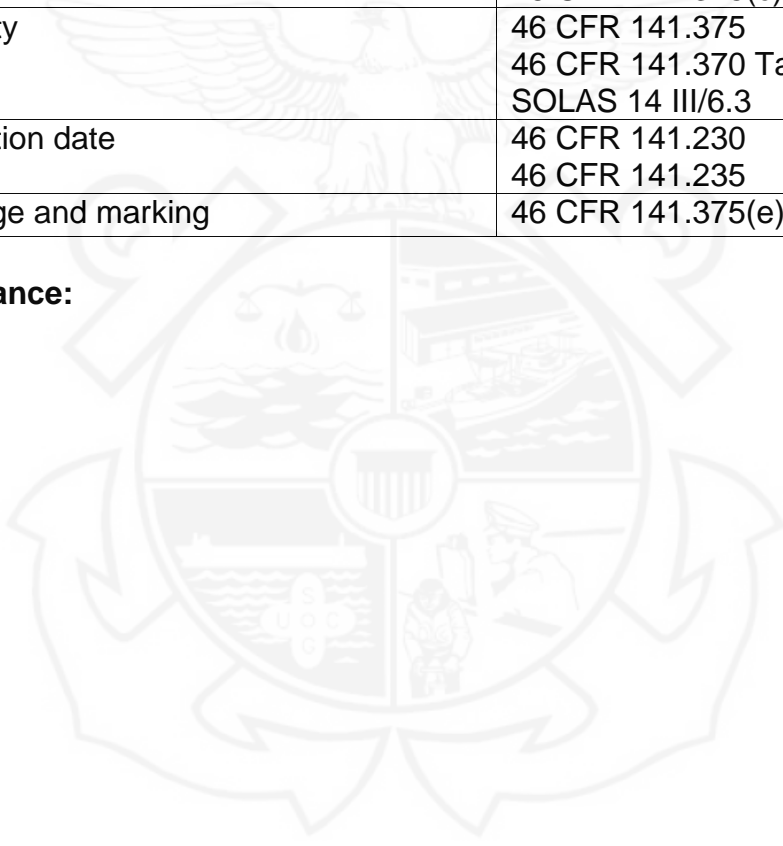
**Condition:** *During lifesaving equipment examination*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 141 Lifesaving
  2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LS05.1	Verify type approval	46 CFR 141.375(b) 46 CFR 141.375(c)	
LS05.2	Verify quantity	46 CFR 141.375 46 CFR 141.370 Table SOLAS 14 III/6.3	
LS05.3	Verify expiration date	46 CFR 141.230 46 CFR 141.235	
LS05.4	Verify stowage and marking	46 CFR 141.375(e)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Lifesaving Equipment Inspection (LS)****Inspected Towing Vessel****Task:** ITV-LS06 Inspect Emergency Position Indicating Radio Beacon (EPIRB)**Condition:** *During lifesaving equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, Code of Federal Regulations Part 141 Lifesaving
2. Title 46, Code of Federal Regulations Part 199 Lifesaving Appliances & Arrangements
3. Title 47, Code of Federal Regulations Part 80 Stations in the Maritime Services
4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LS06.1	Verify type	46 CFR 141.380(a) 47 CFR 80.1085(a)(6) SOLAS 14 IV/7.1.6	
LS06.2	Verify stowage	46 CFR 141.380(b)	
LS06.3	Examine hydrostatic release	46 CFR 141.380(b)	
LS06.4	Verify markings	46 CFR 141.380(c)	
LS06.5	Verify National Oceanic Atmospheric Administration (NOAA) registration	46 CFR 141.380(d) 47 CFR 80.1061(e) 47 CFR 80.1061(f)	
LS06.6	Verify testing & inspections	46 CFR 141.230 46 CFR 141.235 46 CFR 199.190(e)(2)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Lifesaving Equipment Inspection (LS)**

**Inspected Towing Vessel**

**Task:** ITV-LS07 Inspect line throwing equipment

**Condition:** *During lifesaving equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 141 Lifesaving
  2. Title 46, Code of Federal Regulations Part 160 Equipment, Construction & Materials: Specifications & Approval - Lifesaving Equipment
  3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
LS07.1	Verify type approval	46 CFR 141.385 46 CFR 160.040	
LS07.2	Verify quantity	46 CFR 141.385 46 CFR 160.040-4 SOLAS 14 III/18	
LS07.3	Verify stowage	46 CFR 141.385(a)	
LS07.4	Verify additional equipment	46 CFR 141.385(b)	
LS07.5	Verify markings	46 CFR 160.040-6	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Firefighting Systems Inspection (FF)****Inspected Towing Vessel****Task:** ITV-FF01 Verify fire hazards minimized**Condition:** *During general health and safety inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, Code of Federal Regulations Part 140 Operations
2. Title 46, Code of Federal Regulations Part 142 Fire Protection
3. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
FF01.01	Verify bilges free of excess accumulation of combustible and flammable materials and liquids	46 CFR 142.220(a) 46 CFR 143.220(a) 46 CFR 140.655(c)	
FF01.02	Verify storage areas free of excess accumulation of combustible and flammable materials	46 CFR 142.220(b)	
FF01.03	Verify presence of designated storage space for flammable or combustible products	46 CFR 142.225(a) 46 CFR 143.220(c)	
FF01.04	Verify designated storage room free of ignition sources	46 CFR 142.225(b)	
FF01.05	Inspect dedicated storage cabinet	46 CFR 142.225(c)	
FF01.06	Verify presence of portable fire extinguisher	46 CFR 142.225(d)	
FF01.07	Verify hot piping and machinery components are insulated	46 CFR 143.220(b)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Firefighting Systems Inspection (FF)****Inspected Towing Vessel****Task:** ITV-FF02 Inspect fire fighter's outfit**Condition:** *During firefighting equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 42, Code of Federal Regulations Part 84 Approval of Respiratory Protective Devices
2. Title 46, Code of Federal Regulations Part 142 Fire Protection
3. NFPA 1971 Standard on Protective Ensembles for Structural Fire-Fighting & Proximity Fire-Fighting, 2007

Steps		References	Initials
FF02.1	Verify outfit presence	46 CFR 142.226(a)	
FF02.2	Verify outfit compliance	46 CFR 142.226(a) NFPA 1971	
FF02.3	Verify self-contained breathing apparatus (SCBA) presence	46 CFR 142.226(b)	
FF02.4	Verify self-contained breathing apparatus (SCBA) approval	46 CFR 142.226(b) 42 CFR Part 84	
FF02.5	Verify SCBA air supply	46 CFR 142.226(b)	

**Verifying Officer Guidance:** *SCBA parts and inspections must be present & conducted IAW 46 CFR 142.230(b).*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Firefighting Systems Inspection (FF)**

**Inspected Towing Vessel**

**Task:** ITV-FF03 Inspect fire axe

**Condition:** *During firefighting equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 142 Fire Protection

Steps		References	Initials
FF03.1	Verify presence	46 CFR 142.227	
FF03.2	Verify location	46 CFR 142.227	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>



**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Firefighting Systems Inspection (FF)****Inspected Towing Vessel****Task:** ITV-FF04 Inspect portable firefighting extinguishers**Condition:** *During firefighting equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, Code of Federal Regulations Part 142 Fire Protection
2. Title 46, Code of Federal Regulations Part 162 Equipment, Construction & Materials: Specifications & Approval - Engineering Equipment
3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
4. NFPA 10 Standard for Portable Fire Extinguishers, 2007

Steps		References	Initials
FF04.1	Verify quantity	46 CFR 142.230(d) SOLAS 14 II-2/10.3	
FF04.2	Verify type approval	46 CFR 142.215 46 CFR 142.205	
FF04.3	Verify servicing compliance	46 CFR 142.240 NFPA 10 SOLAS 14 II-2/14.2.2	
FF04.4	Verify location and stowage	46 CFR 142.230(d)(2)(i) SOLAS 14 II-2/15.2	
FF04.5	Verify condition	46 CFR 142.240	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Firefighting Systems Inspection (FF)****Inspected Towing Vessel****Task:** ITV-FF05 Inspect semi-portable firefighting equipment**Condition:** *During firefighting equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, Code of Federal Regulations Part 142 Fire Protection
2. Title 46, Code of Federal Regulations Part 147 Hazardous Ships' Stores
3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
FF05.1	Verify presence	46 CFR 142.300 46 CFR 142.315(a)	
FF05.2	Verify servicing compliance	46 CFR 142.240 46 CFR 147.60 46 CFR 147.65	
FF05.3	Verify condition	46 CFR 142.240(b) SOLAS 14 II-2/14.1	
FF05.4	Verify stowage	46 CFR 142.230(e) 46 CFR 147.60	
FF05.5	Verify type approval	46 CFR 142.215	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Firefighting Systems Inspection (FF)**

**Inspected Towing Vessel**

**Task:** ITV-FF06 Inspect fixed fire-extinguishing system

**Condition:** *During firefighting equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 136 Certification
  2. Title 46, Code of Federal Regulations Part 142 Fire Protection
  3. Title 46, Code of Federal Regulations Part 147 Hazardous Ships' Stores
  4. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
FF06.1	Verify type approval & arrangement	46 CFR 142.240(a) 46 CFR 142.215 46 CFR 136.110	
FF06.2	Verify condition	46 CFR 142.240 46 CFR 147.65	
FF06.3	Verify servicing compliance	46 CFR 142.240 46 CFR 147.65 46 CFR 142.235(a)(5)	
FF06.4	Verify markings	46 CFR 142.240(a)(4) 46 CFR 147.60	
FF06.5	Verify stowage	46 CFR 147.65 46 CFR 147.66	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Firefighting Systems Inspection (FF)**

**Inspected Towing Vessel**

**Task:** ITV-FF07 Inspect portable fire pump and equipment

**Condition:** *During firefighting equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 142 Fire Protection

Steps		References	Initials
FF07.1	Verify arrangement	46 CFR 142.325(e)	
FF07.2	Verify pressure and flow rate	46 CFR 142.325(e)(1)	
FF07.3	Verify fire hose	46 CFR 142.325(e)(2) 46 CFR 142.240(a)(7)	
FF07.4	Verify nozzle	46 CFR 142.325(e)(3)	
FF07.5	Verify stowage	46 CFR 142.325(f)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Firefighting Systems Inspection (FF)**

**Inspected Towing Vessel**

**Task:** ITV-FF08 Inspect fixed fire pump and fire main

**Condition:** *During firefighting equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 142 Fire Protection
  2. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
FF08.1	Verify arrangement	46 CFR 142.325(a)	
FF08.2	Verify condition and operation	46 CFR 142.325(a)(1) 46 CFR 142.240(a)6)	
FF08.3	Verify control locations	46 CFR 142.325(a)(2) 46 CFR 142.325(b)	
FF08.4	Verify number and location of fire hydrants	46 CFR 142.325(c)	
FF08.5	Verify fire hoses	46 CFR 142.325(d) 46 CFR 142.325(c) 46 CFR 142.240(a)(7)	
FF08.6	Verify nozzles	46 CFR 142.325(d)	
FF08.7	Verify valves marked	46 CFR 143.250(c) 46 CFR 143.250(d)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Firefighting Systems Inspection (FF)****Inspected Towing Vessel****Task:** ITV-FF09 Inspect fire-detection system**Condition:** *During firefighting equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards***References:** 1. Title 46, Code of Federal Regulations Part 142 Fire Protection

Steps		References	Initials
FF09.1	Verify presence	46 CFR 142.330(a)	
FF09.2	Verify type approval or listing by nationally recognized testing laboratory	46 CFR 142.330(a)(1)	
FF09.3	Verify system is maintained IAW manufacturer's specifications	46 CFR 142.330(a)(2)	
FF09.4	Verify location of control panel	46 CFR 142.330(a)(3)	
FF09.5	Verify control panel components and operation	46 CFR 142.330(a)(4) 46 CFR 142.240(a)(8)	
FF09.6	Verify system power sources	46 CFR 142.330(a)(5)	
FF09.7	Verify smoke detection system	46 CFR 142.330(b) 46 CFR 142.240(a)(8)	
FF09.8	Verify heat detection system	46 CFR 142.330(c) 46 CFR 142.240(a)(8)	
FF09.9	Verify design and installation	46 CFR 142.330(a)(7)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Machinery Equipment Inspection (MI)****Inspected Towing Vessel****Task:** ITV-MI01 Inspect main propulsion system**Condition:** *During machinery equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 136 Certification
  2. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment
  3. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement

Steps		References	Initials
MI01.1	Inspect condition, installation and arrangement of system componentets	46 CFR 143.205(c)	
MI01.2	Verify required gauges	46 CFR 143.230(c)	
MI01.3	Verify installation of protective covers and/or guards	46 CFR 143.220(b) 46 CFR 144.820 46 CFR 144.830	
MI01.4	Inspect system's hull penetrations for structural integrity and markings	46 CFR 143.250(c) 46 CFR 143.250(d) 46 CFR 143.270	
MI01.5	Witness operational test of main propulsion machinery	46 CFR 136.212(b) 46 CFR 143.205(b)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Machinery Equipment Inspection (MI)**

**Inspected Towing Vessel**

**Task:** ITV-MI02 Inspect fuel system

**Condition:** *During machinery equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
MI02.1	Verify installation, arrangement and condition of piping, manifolds and filters	46 CFR 143.255 46 CFR 143.265 46 CFR 143.220	
MI02.2	Verify spare fuel filters	46 CFR 143.255(c)(1)	
MI02.3	Verify arrangement and marking of fuel system isolation and remote fuel shutoff valve(s)	46 CFR 143.260 46 CFR 143.250(c)	
MI02.4	Witness test of remote fuel shutoff valve(s)	46 CFR 143.260(d)	
MI02.5	Inspect nonmetallic flexible hoses and fittings	46 CFR 143.265(d)(2) 46 CFR 143.265(d)(3)	
MI02.6	Inspect portable fuel system	46 CFR 143.265(b)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>



**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Machinery Equipment Inspection (MI)**

**Inspected Towing Vessel**

**Task:** ITV-MI03 Inspect bilge system

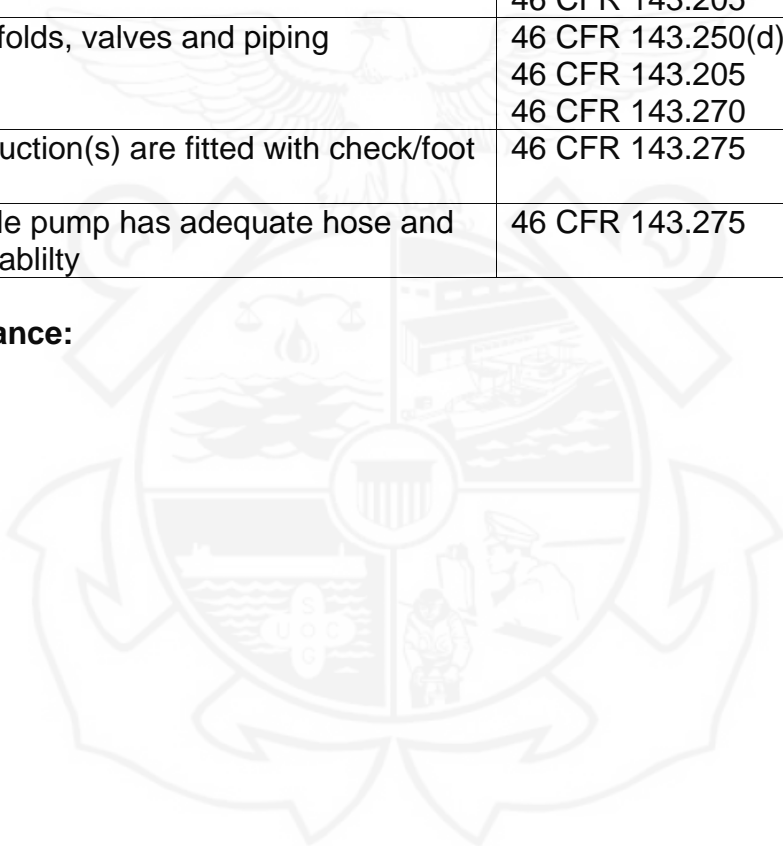
**Condition:** *During machinery equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
MI03.1	Verify location and operation of pumps	46 CFR 143.275 46 CFR 143.205	
MI03.2	Inspect manifolds, valves and piping	46 CFR 143.250(d) 46 CFR 143.205 46 CFR 143.270	
MI03.3	Verify bilge suction(s) are fitted with check/foot valve(s)	46 CFR 143.275	
MI03.4	Verify portable pump has adequate hose and pumping capability	46 CFR 143.275	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Machinery Equipment Inspection (MI)****Inspected Towing Vessel****Task:** ITV-MI04 Inspect unfired pressure vessels (UPVs)**Condition:** *During machinery equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards***References:** 1. Title 46, Code of Federal Regulations Part 143, Machinery, and Electrical Systems and Equipment

Steps		References	Initials
MI04.1	Verify MAWP is marked and legible	46 CFR 143.300(c)	
MI04.2	Verify UPV size and MAWP	46 CFR 143.300(a) 46 CFR 143.545	
MI04.3	Verify external exam and relief valve testing needs	46 CFR 143.300(b) 46 CFR 143.245(b)	
MI04.4	Verify installation and operation of pressure gauges	46 CFR 143.300(a)	
MI04.5	Verify installation and operation of relief valve(s)	46 CFR 143.300(a)	
MI04.6	Inspect externally	46 CFR 143.300(b) 46 CFR 143.545	

**Verifying Officer Guidance:** *UPVs installed 30 days after the publication of the rule must meet ABS standards IAW 46 CFR 143.300(d).*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Machinery Equipment Inspection (MI)**

**Inspected Towing Vessel**

**Task:** ITV-MI05 Inspect steering gear

**Condition:** *During machinery equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
MI05.1	Verify operation and control	46 CFR 137.220(d)	
MI05.2	Inspect electrical, mechanical and hydraulic connections and linkages of main and auxiliary (emergency) systems	46 CFR 143.400 46 CFR 143.220	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Machinery Equipment Inspection (MI)**

**Inspected Towing Vessel**

**Task:** ITV-MI06 Verify additional requirements for vessels that move tank barges carrying oil or hazardous materials in bulk

**Condition:** *During machinery equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
MI06.1	Inspect alternate means to control propulsion and steering systems	46 CFR 143.585(a) 46 CFR 143.600	
MI06.2	Verify internal communications	46 CFR 143.585(b) 46 CFR 143.585(i)	
MI06.3	Verify means of stopping propulsion engine(s) and steering motor(s)	46 CFR 143.585(c)	
MI06.4	Verify independent thrust, rudder angle and direction control monitors	46 CFR 143.585(d)	
MI06.5	Verify propulsion control system single failure default	46 CFR 143.585(e) 46 CFR 143.585(f)	
MI06.6	Verify audible and visual alarms at each operating station	46 CFR 143.585(g) 46 CFR 143.585(h)	
MI06.7	Verify emergency power	46 CFR 143.585(j) 46 CFR 143.585(k) 46 CFR 143.585(l)	
MI06.8	Verify propulsor redundancy	46 CFR 143.590 46 CFR 143.595	
MI06.9	Verify test procedures	46 CFR 143.605	

**Verifying Officer Guidance:**

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Electrical Systems Inspection (ES)****Inspected Towing Vessel****Task:** ITV-ES01 Inspect electrical conductors, connections and equipment**Condition:** *During electrical systems inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards***References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
ES01.1	Verify cable size and condition	46 CFR 143.575(a)(1) 46 CFR 143.575(a)(9) 46 CFR 143.575(a)(11)	
ES01.2	Verify cable run installation	46 CFR 143.575(a)(2) 46 CFR 143.575(a)(3) 46 CFR 143.400(h)	
ES01.3	Verify cable is protected	46 CFR 143.575(a)(6) 46 CFR 143.575(a)(7) 46 CFR 143.575(a)(8)	
ES01.4	Verify connections	46 CFR 143.575(a)(4) 46 CFR 143.400(e) 46 CFR 143.400(i)	
ES01.5	Verify no hazardous conditions exist	46 CFR 143.400(g) 46 CFR 143.575(b) 46 CFR 143.575(c)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Electrical Systems Inspection (ES)****Inspected Towing Vessel**

**Task:** ITV-ES02 Inspect main service generator(s) and prime mover(s)

**Condition:** *During electrical systems inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment  
2. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement

Steps		References	Initials
ES02.1	Verify power source requirements	46 CFR 143.555(a)(2) 46 CFR 143.555(b)(1) & (b)(3) 46 CFR 143.580	
ES02.2	Inspect condition of generator(s) and prime mover(s)' components	46 CFR 143.400(a) 46 CFR 143.400(b) 46 CFR 143.555(b)(6)	
ES02.3	Verify installation of protective covers and/or guards	46 CFR 143.220(b) 46 CFR 144.820 46 CFR 144.830	
ES02.4	Verify generator(s) data plate(s) attached	46 CFR 143.555(b)(2)	
ES02.5	Verify overcurrent protection	46 CFR 143.555(b)(3) 46 CFR 143.555(b)(4)	
ES02.6	Verify two independent sources of electricity for essential loads	46 CFR 143.555(a)(3) 46 CFR 143.555(b)(7) 46 CFR 143.555(b)(8)	

**Verifying Officer Guidance:**

**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Electrical Systems Inspection (ES)**

**Inspected Towing Vessel**

**Task:** ITV-ES03 Inspect battery installation

**Condition:** *During electrical systems inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
ES03.1	Verify adequate load for 3 hours of operation	46 CFR 143.555(b)(9)	
ES03.2	Verify means of monitoring condition	46 CFR 143.555(b)(9)	
ES03.3	Verify battery inspected every 3 months	46 CFR 143.245(b)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Electrical Systems Inspection (ES)**

**Inspected Towing Vessel**

**Task:** ITV-ES04 Inspect distribution panels and switchboards

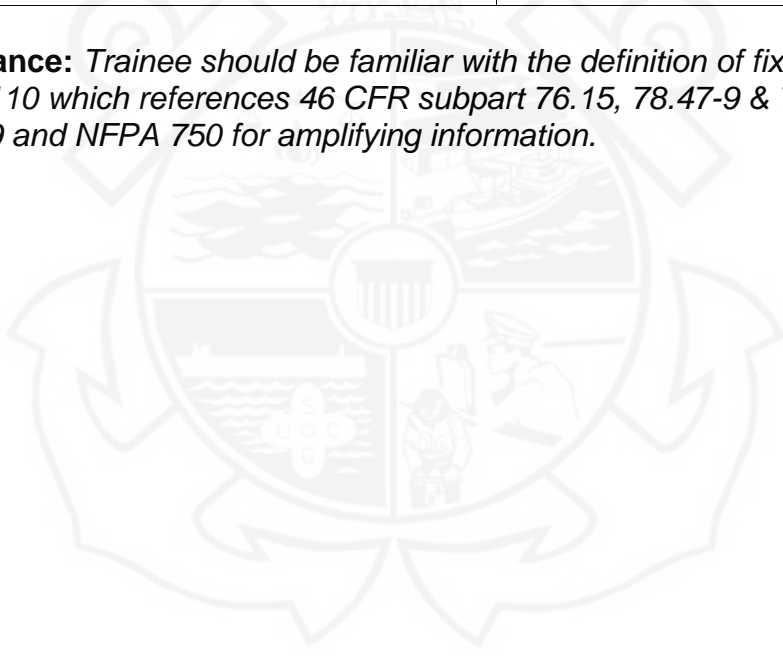
**Condition:** *During electrical systems inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
ES04.1	Verify installation	46 CFR 143.560	
ES04.2	Verify presence of nonconductive mats/grating	46 CFR 143.560(c)	
ES04.3	Verify overcurrent protection	46 CFR 143.565	
ES04.4	Verify grounding and ground detection	46 CFR 143.570	
ES04.5	Verify warning sign(s)	46 CFR 143.250(b)	
ES04.6	Verify markings/labeling	46 CFR 143.400	

**Verifying Officer Guidance:** *Trainee should be familiar with the definition of fixed fire-extinguishing system in 46 CFR 136.110 which references 46 CFR subpart 76.15, 78.47-9 & 78.47-11, 46 CFR subpart 95.16 & 97.37-9 and NFPA 750 for amplifying information.*



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>



**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Structural/Watertight Integrity Inspection (SW)****Inspected Towing Vessel****Task:** ITV-SW01 Inspect hatches and Class-1 watertight doors**Condition:** *Hull structure and appurtenances inspected***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
  2. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  3. Title 46, Code of Federal Regulations Part 170 Stability Requirements for All Inspected Vessels
  4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
SW01.1	Verify condition of knife edges	46 CFR 144.305 46 CFR 144.330 46 CFR 42.15-10	
SW01.2	Verify condition of gasket material	46 CFR 144.330 MSM II/B.1.E.5	
SW01.3	Verify watertight integrity between gasket and knife edge	46 CFR 144.330 46 CFR 140.610 MSM II/B.1.E.5	
SW01.4	Verify condition and operation of hinges and dogs	46 CFR 144.330 MSM II/B.1.E.5	
SW01.5	Verify design, operation and installation of quick acting closing-device	46 CFR 170.270(a) 46 CFR 170.270(b)	
SW01.6	Verify operation of indicator lights at operating station	46 CFR 170.270(e)	
SW01.7	Verify doors are installed in permissible locations	46 CFR 170.255	
SW01.8	Verify markings	46 CFR 144.160(e)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Structural/Watertight Integrity Inspection (SW)**

**Inspected Towing Vessel**

**Task:** ITV-SW02 Inspect watertight bulkhead penetrations

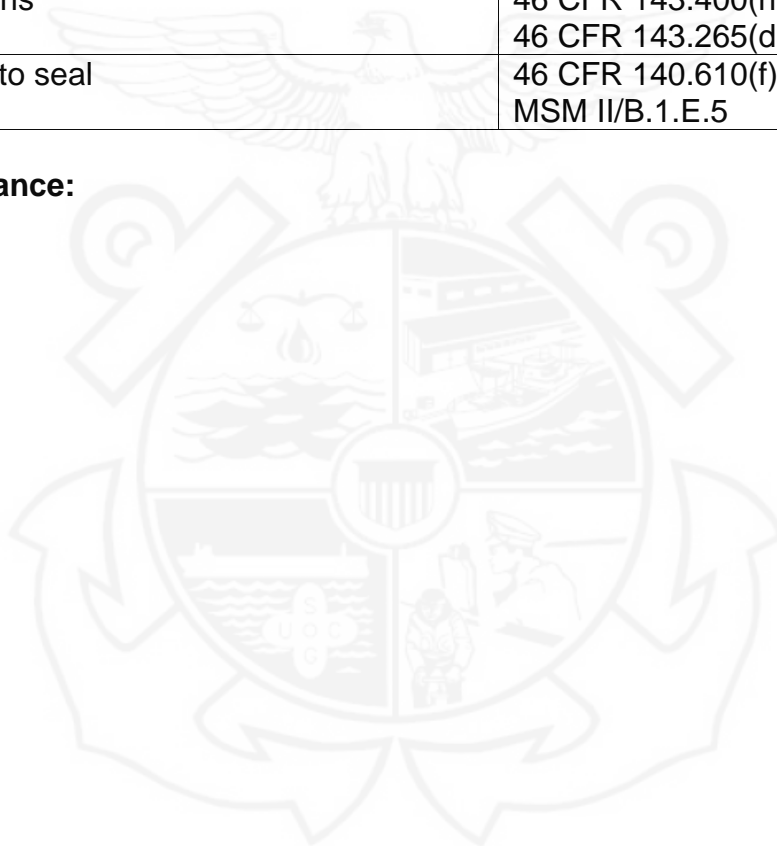
**Condition:** *During structural/watertight integrity inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement  
 2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
SW02.1	Verify locations	46 CFR 143.400(h) 46 CFR 143.265(d)(2)(iii)	
SW02.2	Verify ability to seal	46 CFR 140.610(f) MSM II/B.1.E.5	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Structural/Watertight Integrity Inspection (SW)**

**Inspected Towing Vessel**

**Task:** ITV-SW03 Inspect hull structure

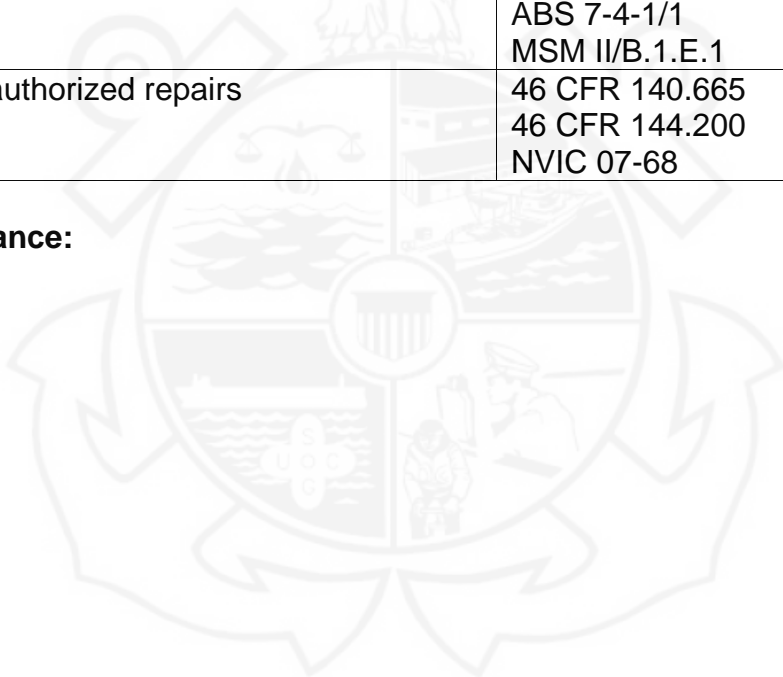
**Condition:** *During structural/watertight integrity inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 140 Operations
  2. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  3. ABS Rules for Building and Classing Steel Vessels, 1995 Part 7 Survey After Construction
  4. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
  5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
SW03.1	Inspect for damage, wastage and fractures	46 CFR 144.200 & .215 ABS 7-4-1/1 MSM II/B.1.E.1	
SW03.2	Verify no unauthorized repairs	46 CFR 140.665 46 CFR 144.200 NVIC 07-68	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Pollution Prevention Inspection (PP)****Inspected Towing Vessel****Task:** ITV-PP01 Inspect Marine Sanitation Device (MSD)**Condition:** *During pollution prevention inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards***References:** 1. Title 33, Code of Federal Regulations Part 159 Marine Sanitation Devices  
2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
PP01.1	Verify Type	33 CFR 159.7(a)(1) 33 CFR 159.7(a)(2)	
PP01.2	Verify certification label	33 CFR 159.5 MSM II/B.6.F.4	
PP01.3	Verify presence of manufacturer's instructions	33 CFR 159.57	
PP01.4	Verify placard posted	33 CFR 159.59	
PP01.5	Verify operation	33 CFR 159.57	
PP01.6	Verify Type I & II MSD securing device	33 CFR 159.7(b)	
PP01.7	Verify Type III MSD securing device	33 CFR 159.7(c)	
PP01.8	Verify Type I & II MSD chemical level indicators	33 CFR 159.65	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Pollution Prevention Inspection (PP)****Inspected Towing Vessel****Task:** ITV-PP02 Inspect oil transfer procedures and pollution placard**Condition:** *During pollution prevention inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels
  2. Title 33, Code of Federal Regulations Part 156 Oil & Hazardous Material Transfer Operations
  3. Title 46, Code of Federal Regulations Part 13 Certification of Tankermen
  4. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
PP02.1	Verify procedures	33 CFR 155.720 33 CFR 155.730 46 CFR 140.655(b)	
PP02.2	Verify availability	33 CFR 155.740(a) 33 CFR 155.740(c)	
PP02.3	Verify content	33 CFR 155.750 33 CFR 155.740(b)	
PP02.4	Examine Declarations of Inspection	33 CFR 155.820(d) 33 CFR 156.150	
PP02.5	Verify proper documentation for Persons in Charge (PIC)	33 CFR 155.700 33 CFR 155.715 46 CFR 13.129	
PP02.6	Verify presence of placard	33 CFR 155.450	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Pollution Prevention Inspection (PP)****Inspected Towing Vessel****Task:** ITV-PP03 Inspect transfer hose(s)/piping, fittings and containment**Condition:** *During pollution prevention inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 154 Facilities Transferring Oil or Hazardous Materials in Bulk
  2. Title 33, Code of Federal Regulations Part 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels
  3. Title 46, Code of Federal Regulations Part 140 Operations

Steps		References	Initials
PP03.1	Verify hose minimum design burst pressure	33 CFR 154.500(a)	
PP03.2	Verify hose maximum allowable working pressure (MAWP)	33 CFR 154.500(b)	
PP03.3	Verify nonmetallic hoses are suitable for product transferred	33 CFR 154.500(c)	
PP03.4	Inspect hose assembly	33 CFR 154.500(d) 33 CFR 155.800	
PP03.5	Verify hose markings	33 CFR 154.500(e) 33 CFR 154.500(f) 33 CFR 154.500(g)	
PP03.6	Verify back pressure shutoff nozzle (when applicable)	33 CFR 154.500(h)	
PP03.7	Verify means for blanking off disconnected hose(s)	33 CFR 155.805	
PP03.8	Verify discharge piping systems arrangements	33 CFR 155.410 33 CFR 155.420	
PP03.9	Verify containment capacity (when applicable)	33 CFR 155.320(a) 33 CFR 155.320(b) 46 CFR 140.655(b)(2)	
PP03.10	Verify tests and inspection records	33 CFR 155.820(b)	
PP03.11	Verify oil is not stored forward of the collision bulkhead	33 CFR 155.470	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Pollution Prevention Inspection (PP)****Inspected Towing Vessel****Task:** ITV-PP04 Inspect Oily Water Separator (OWS)**Condition:** *Pollution prevention equipment inspected***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 151 Vessels Carrying Oil, NLS, Garbage, Municipal or Commercial Waste & Ballast Water
  2. Title 33, Code of Federal Regulations Part 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels
  3. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as modified
  4. Manufacturer's Instructions

Steps		References	Initials
PP06.1	Verify approval	33 CFR 155.380 MARPOL I/14	
PP06.2	Verify overboard discharge valve is closed	33 CFR 151.10 MARPOL I/15	
PP06.3	Witness operation	33 CFR 155.380 33 CFR 151.10 Manufacturer's Instructions	
PP06.4	Verify means to retain oily waste	33 CFR 155.330 33 CFR 155.350 MARPOL I/14.3-.5	

**Verifying Officer Guidance:** *Trainee shall demonstrate a working knowledge of equipment components, requirements, function(s), type approval and operation and how to use the information to verify active compliance.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Topside Equipment Inspection (TE)**

**Inspected Towing Vessel**

**Task:** ITV-TE01 Inspect handrails, bulwarks, storm rails & fall overboard prevention procedures

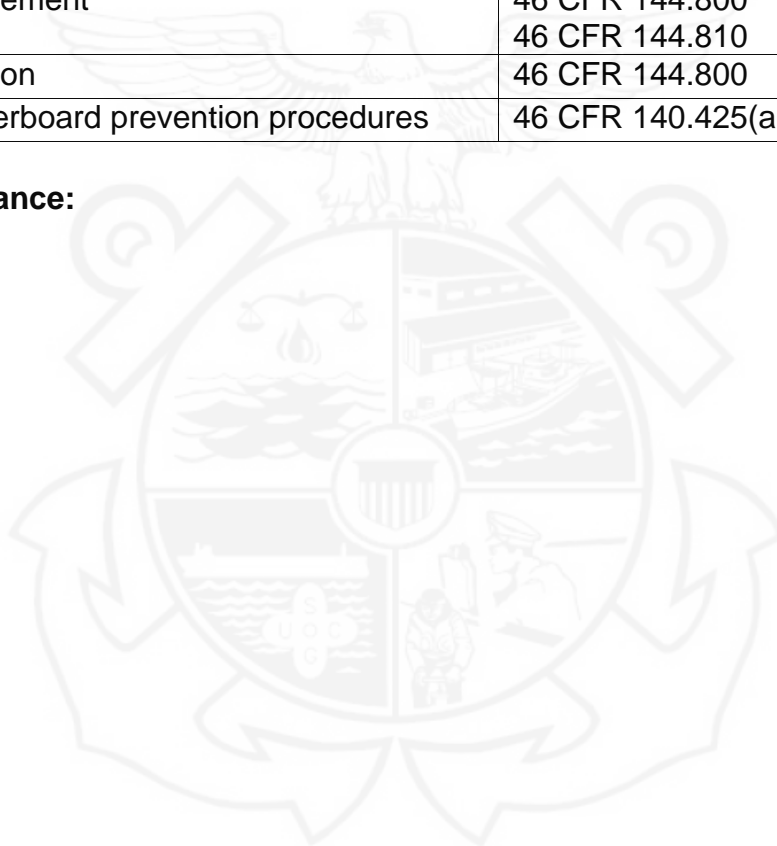
**Condition:** *During topside equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 140 Operations
  2. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement

Steps		References	Initials
TE01.1	Verify arrangement	46 CFR 144.800 46 CFR 144.810	
TE01.2	Verify condition	46 CFR 144.800	
TE01.3	Verify fall overboard prevention procedures	46 CFR 140.425(a)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>



**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Topside Equipment Inspection (TE)**

**Inspected Towing Vessel**

**Task:** ITV-TE02 Inspect freeing ports and scuppers

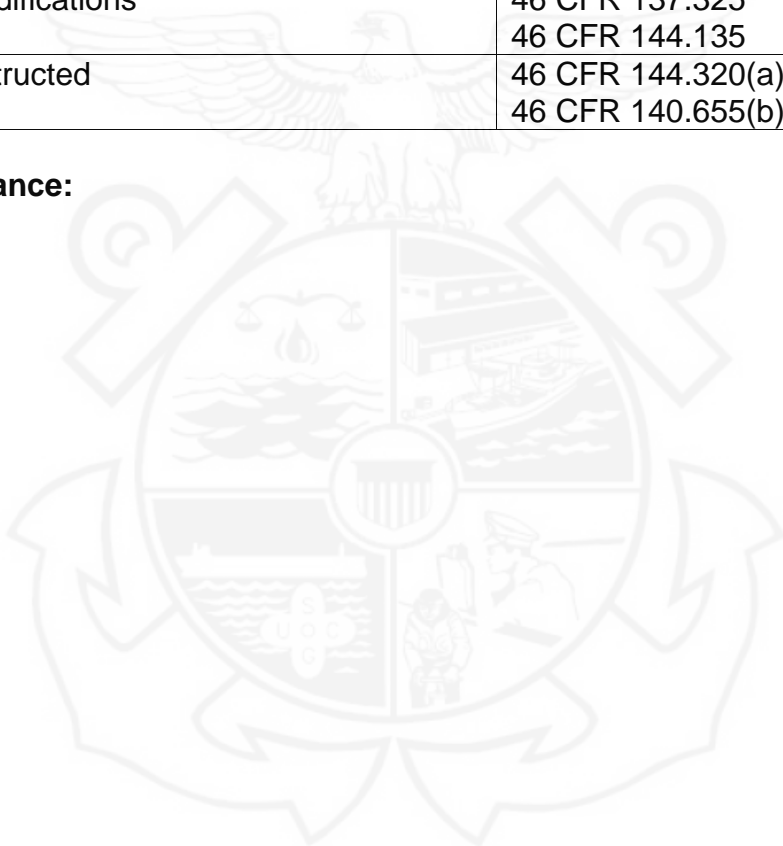
**Condition:** *During topside equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. Title 46, Code of Federal Regulations Part 140 Operations
  3. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement

Steps		References	Initials
TE02.1	Verify no modifications	46 CFR 137.325 46 CFR 144.135	
TE02.2	Verify unobstructed	46 CFR 144.320(a) 46 CFR 140.655(b)(1)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Topside Equipment Inspection (TE)**

**Inspected Towing Vessel**

**Task:** ITV-TE03 Inspect air ports, dead covers and vent openings

**Condition:** *During topside equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement

Steps		References	Initials
TE03.1	Verify vent covers are readily available and operational	46 CFR 144.605	
TE03.2	Inspect condition	46 CFR 144.605	
TE03.3	Inspect covers for proper fit and seal	46 CFR 144.605	
TE03.4	Inspect accomodation space ventilation	46 CFR 144.600 46 CFR 144.320(b)	
TE03.5	Inspect means to secure ventilation	46 CFR 144.605	
TE03.6	Inspect mechanical ventilation system	46 CFR 144.610	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Topside Equipment Inspection (TE)**

**Inspected Towing Vessel**

**Task:** ITV-TE04 Inspect fuel tank vents

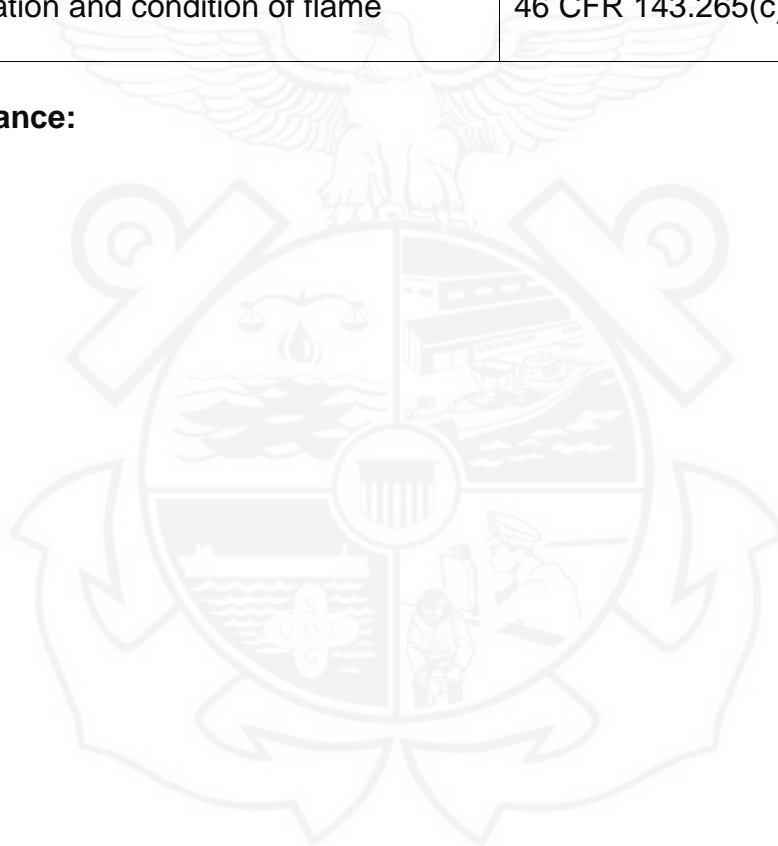
**Condition:** *During topside equipment inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment

Steps		References	Initials
TE04.1	Verify condition and location	46 CFR 143.265(c)	
TE04.2	Verify installation and condition of flame screens	46 CFR 143.265(c)	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Terminal Gear Inspection (TG)****Inspected Towing Vessel**

**Task:** ITV-TG01 Inspect towing gear for towing along side or pushing ahead

**Condition:** *During topside equipment and ground tackle inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, Code of Federal Regulations Part 140 Operations
2. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
3. NVIC 05-92 Guidelines for Wire Rope Towing Hawsers

Steps		References	Initials
TG01.1	Visually examine vessel rigging and wires	46 CFR 140.801 & .805 46 CFR 140.820 33 CFR 164.76(c) & (d)	
TG01.2	Verify towing safety conditions	46 CFR 140.805	
TG01.3	Visually examine deck machinery (i.e. controls, guards, alarms & safety features)	46 CFR 140.801 33 CFR 164.76 NVIC 05-92	
TG01.4	Visually examine fittings (i.e. bits, cleats, chocks & push gear )	46 CFR 140.801 33 CFR 164.76	

**Verifying Officer Guidance:**

**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Terminal Gear Inspection (TG)****Inspected Towing Vessel****Task:** ITV-TG02 Inspect terminal gear - towing astern**Condition:** *During topside equipment and ground tackle inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
  2. Title 46, Code of Federal Regulations Part 140 Operations
  3. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment
  4. NVIC 05-92 Guidelines for Wire Rope Towing Hawsers

Steps		References	Initials
TG02.1	Verify condition of towline (i.e. hawsers, wires)	46 CFR 140.801 & .805 33 CFR 164.74 NVIC 05-95	
TG02.2	Verify fairleads are fitted/available	33 CFR 164.74(b)(3) 46 CFR 140.805	
TG02.3	Verify method for releasing towline	33 CFR 164.74(b)(4)	
TG02.4	Verify presence of chafing gear	33 CFR 164.74(b)(5) NVIC 05-95	
TG02.5	Verify winch is fitted with brake and towline spooling gear (when applicable)	33 CFR 164.74(b)(6) & (7) 46 CFR 143.460 NVIC 05-95	
TG02.6	Inspect deck machinery (i.e. norman pins, capstan, controls, guards, alarms & safety features)	33 CFR 164.74(b) 46 CFR 143.460	
TG02.7	Visually examine towing equipment foundations and structures for integrity	33 CFR 164.74 46 CFR 143.460	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Terminal Gear Inspection (TG)****Inspected Towing Vessel****Task:** ITV-TG03 Inspect administrative procedures**Condition:** *During topside equipment and ground tackle inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 164 Navigation Safety Regulations
  2. Title 46, Code of Federal Regulations Part 140 Operations
  3. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment
  4. NVIC 05-92 Guidelines for Wire Rope Towing Hawsers

Steps		References	Initials
TG03.1	Verify emergency procedures	46 CFR 140.801(c)	
TG03.2	Verify record of tow gear	46 CFR 140.820(b) 33 CFR 164.74(a)(3) NVIC 05-92	
TG03.3	Verify inspection of towing gear is recorded	46 CFR 140.915(a)(9) 46 CFR 140.820(a)	
TG03.4	Verify analysis of connection has been conducted	46 CFR 143.460(e)	

**Verifying Officer Guidance:****Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Drydock Inspection**

**Hull Inspection (HI)**

**Inspected Towing Vessel**

**Task:** ITV-HI01 Verify if vessel qualifies to participate in Underwater Survey Program (UWILD)

**Condition:** Given a request to participate in underwater inspection in lieu of drydocking (UWILD) program

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. NVIC 01-89 Underwater Survey Guidance
  3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
HI01.1	Review application	46 CFR 137.335(b) NVIC 01-89	
HI01.2	Inspect condition of hull and protection system	46 CFR 137.335(a) NVIC 01-89 Encl.1/1.a	
HI01.3	Verify reference points	46 CFR 137.330(a)(1) NVIC 01-89 Encl.1/1.b	
HI01.4	Verify all sea chest(s) are accessible	46 CFR 137.330(a)(6) NVIC 01-89 Encl.1/1.c	
HI01.5	Verify means for taking shaft-bearing and rudder-bearing clearances	46 CFR 137.330	
HI01.6	Review hull gauging report	46 CFR 137.335(c)(2) NVIC 01-89 Encl.1/1.a	
HI01.7	Review reference video	NVIC 01-89 Encl.1/1.d	
HI01.8	Forward application with OCMI's recommendation	MSM II/B.9.K.7	

**Verifying Officer Guidance:**

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Hull Inspection (HI)****Inspected Towing Vessel**

**Task:** ITV-HI02 Inspect hull for defects during an underwater survey

**Condition:** *During underwater inspection in lieu of drydocking (UWILD) on vessels enrolled in the program*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. Title 46, Code of Federal Regulations Part 197 Marine Occupational Safety And Health Standards
  3. NVIC 01-89 Underwater Survey Guidance

Steps		References	Initials
HI02.1	Review vessel's application for UWILD drydocking examination	46 CFR 137.335(b) NVIC 01-89 Encl. 1/2.a	
HI02.2	Verify procedures to be followed	46 CFR 137.335(b) 46 CFR 197.202	
HI02.3	Verify suitability of location	46 CFR 137.335(b)(2) NVIC 01-89 Encl. 1/5.c	
HI02.4	Review reference plans and video	NVIC 01-89 Encl. 1/2.a(12)	
HI02.5	Meet with the vessel's representative, TSMS representative and diving supervisor to discuss the details of survey	NVIC 01-89 Encl. 1/4 46 CFR 137.325(e)	
HI02.6	Verify that details of survey meet TSMS requirements	46 CFR 137.335(a)	
HI02.7	Verify vessel's representative submitted a signed letter stating vessel's overall condition	46 CFR 137.335(b)(5) NVIC 01-89 Encl. 1/2.a(7)	
HI02.8	Verify qualification of divers, type of diving equipment and their nondestructive testing (NDT) capabilities	46 CFR 137.335(b)(7) 46 CFR 197.346 NVIC 01-89 Encl. 1/5.f	
HI02.9	Verify all areas of the hull have been cleaned	NVIC 01-89 Encl. 1/5.g	
HI02.10	Witness underwater survey from a video monitor	NVIC 01-89 Encl. 1/5.i	

**Verifying Officer Guidance:**

**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**



**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Hull Inspection (HI)****Inspected Towing Vessel****Task:** ITV-HI03 Inspect steel and aluminum hulls**Condition:** *During drydock inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1
  3. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 7 Survey After Construction
  4. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls

Steps		References	Initials
HI03.1	Examine for wastage, defect(s) and damage	46 CFR 144.200 46 CFR 144.205 ABS 7-4-1/1	
HI03.2	Inspect critical areas (stringer plate, sheer strake)	NVIC 07-68 IV(B) NVIC 11-80	
HI03.3	Inspect seachests and overboard discharges for wastage, defect(s) and damage	NVIC 07-68 II(A)	
HI03.4	Verify condition of drydock (bottom) plugs	NVIC 07-68 II(A) ABS 7-4-1/1 MSM II/B.3.B	
HI03.5	Verify wastage/corrosion is within limits	NVIC 07-68 III(C) ABS 7-A-4/27	

**Verifying Officer Guidance:** *The trainee shall also demonstrate a working knowledge of vessel construction and repair nomenclature including scantlings/structural members. Trainee should be familiar with NVIC 11-80 Structural Plan Review Guidelines for Aluminum Small Passenger Vessels.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Drydock Inspection**

**Hull Inspection (HI)**

**Inspected Towing Vessel**

**Task:** ITV-HI04 Inspect hull markings

**Condition:** *During drydock inspection*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
  2. Title 46, Code of Federal Regulations Part 67 Documentation of Vessels
  3. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement

Steps		References	Initials
HI04.1	Verify placement of hull markings	46 CFR 144.160 46 CFR 67.120 46 CFR 42.13-40	
HI04.2	Verify markings are permanently affixed	46 CFR 144.160 46 CFR 67.121 46 CFR 42.13-40	
HI04.3	Verify markings are of contrasting colors	46 CFR 42.13-40	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Hull Inspection (HI)****Inspected Towing Vessel****Task:** ITV-HI05 Inspect main propulsion propeller(s)**Condition:** During drydock inspection**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. Title 46, Code of Federal Regulations Part 143 Machinery, and Electrical Systems and Equipment
  3. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  4. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 7 Survey After Construction
  5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
HI05.1	Inspect condition	46 CFR 137.330 46 CFR 144.200 46 CFR 144.205	
HI05.2	Verify locking nut is installed and secured	ABS 7-4-1/1 ABS 7-5-1/1.5 ABS 7-5-1/3.5	
HI05.3	Witness NDT of propeller coupling bolts and flange radius	ABS 7-5-1/3	
HI05.4	Verify no leaks (variable pitch)	46 CFR 137.330 46 CFR 143.205 ABS 7-4-1/1	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of propeller components and the proper examination procedures to follow.

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Drydock Inspection**

**Hull Inspection (HI)**

**Inspected Towing Vessel**

**Task:** **ITV-HI06 Inspect tailshaft(s) and stern bearing(s)**

**Condition:** *During drydock inspection, giving consideration to the number of separate propulsion shaft(s), the materials of fabrication and the type of bearing lubrication used*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1
  3. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2014
  4. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 7 Survey After Construction

Steps		References	Initials
HI06.1	Determine if tailshaft(s) need to be drawn	46 CFR 137.300 46 CFR 137.330(a)(2) MSM II/B.3.D.3	
HI06.2	Verify bearing clearance and inboard seal assembly	46 CFR 137.330(a)(2)	
HI06.3	Visually examine shaft	ABS 7-5-1/1 ABS 7-5-1/3 ABS 7-5-2/1	
HI06.4	Witness non-destructive testing (NDT) of shaft's taper section and keyway	ABS 7-5-1/1 ABS NDT Guide	
HI06.5	Verify condition and wear down of strut bearing(s)	MSM II/B.3.D.10	
HI06.6	Verify condition of blade hardware on Controllable Pitch Propeller (CPP)	ABS 7-5-1/3	

**Verifying Officer Guidance:** *Trainee shall demonstrate a working knowledge of equipment's components and the proper inspection procedures to follow.*

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Hull Inspection (HI)****Inspected Towing Vessel****Task:** ITV-HI07 Inspect rudder installation**Condition:** During drydock inspection**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. Title 46, Code of Federal Regulations Part 143 Machinery, and Electrical Systems and Equipment
  3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1
  4. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2014
  5. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 3 Hull Construction and Equipment
  6. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 7 Survey After Construction

Steps		References	Initials
HI07.1	Verify type of assembly installed	46 CFR 137.330 & 143.550 ABS 3-2-14/1 MSM II/B.3.E.2	
HI07.2	Examine assembly	46 CFR 137.330 ABS 7-4-1/1 ABS 7-4-4/27	
HI07.3	Verify bearing clearance(s)	ABS 7-4-1/1	
HI07.4	Verify tightness of rudder assembly by pneumatic test	ABS 7-4-1/1 ABS NDT Guide	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of rudder components and the proper examination procedures to follow.

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Hull Inspection (HI)****Inspected Towing Vessel****Task:** ITV-HI08 Inspect hull appendages**Condition:** During drydock inspection**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 7 Survey After Construction
  3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1
  4. NVIC 02-81 Coast Guard Guidance Regarding Integrated Tug Barge Combinations

Steps		References	Initials
HI08.1	Inspect condition and structural integrity of bilge keel	46 CFR 137.220/.330 ABS 7-4-1/1	
HI08.2	Inspect condition of coolers (keel or grid)	46 CFR 137.220 46 CFR 137.330	
HI08.3	Examine condition of transducers and other similar appendages	ABS 7-4-1/1	
HI08.4	Examine underwater components of steering & propulsion	46 CFR 137.330(a)(3)	
HI08.5	Inspect ATB/ITB tug/barge connector appendage	ABS 7-9-14 NVIC 02-81	
HI08.6	Inspect through hull fittings	46 CFR 137.220(b)(2) 46 CFR 137.330(a)(6)	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of equipment/vessel nomenclature including scantlings/structural members, hull penetrations (valves), and major system components external to hull (appendages).

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Drydock Inspection**

**Hull Inspection (HI)**

**Inspected Towing Vessel**

**Task:** ITV-HI09 Inspect non-propulsion thruster(s)

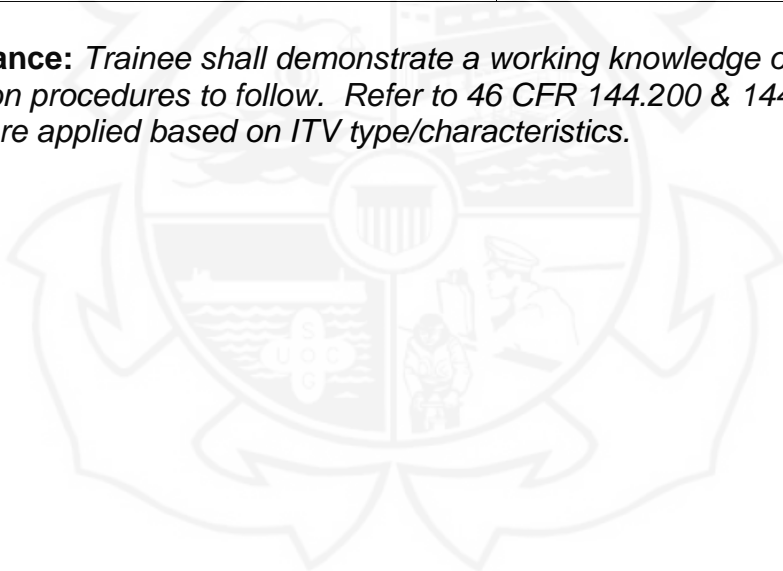
**Condition:** During drydock inspection

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1
  3. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 7 Survey After Construction

Steps		References	Initials
HI09.1	Inspect propeller	46 CFR 137.330 ABS 7-4-1/1 & 7-9-6/1.3	
HI09.2	Inspect thruster tunnel	ABS 7-4-1/1 ABS 7-A-4/27	
HI09.3	Verify shaft seal or packing gland in place	ABS 7-4-1/1 ABS 7-9-6/1.3	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of thruster components and the proper inspection procedures to follow. Refer to 46 CFR 144.200 & 144.205 to verify the appropriate ABS rules are applied based on ITV type/characteristics.



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Internal Structural Examination****Internal Structural Examination (IS)****Inspected Towing Vessel**

**Task:** ITV-IS01 Verify confined spaces are safe for entry

**Condition:** During drydock inspection

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 29, Code of Federal Regulations Part 1915 Occupational Safety & Health Standards for Shipyard Employment
  2. Title 46, Code of Federal Regulations Part 140 Operations
  3. COMDTINST 5100.47 Safety and Environmental Health Manual
  4. NFPA 306 Standard for the Control of Gas Hazards on Vessels, 2009

Steps		References	Initials
IS01.1	Review Marine Chemist Certificate	29 CFR 1915.12(f) CIM 5100.47A 13.B.3 NFPA 306/4.3	
IS01.2	Verify Competent Person has maintained Marine Chemist Certificate	29 CFR 1915.15 CIM 5100.47A 13.B.8 NFPA 306/4.6.2	
IS01.3	Verify no changes to vessel's condition	29 CFR 1915.15(b)	
IS01.4	Verify forced ventilation is provided (when applicable)	29 CFR 1915.13(b)(3)	
IS01.5	Verify condition of space access point	29 CFR 1915.76 46 CFR 140.510(a)(5)	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of the USCG's confined space entry program, PPE requirements and USCG/unit's safe working practices.

<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>



**Inspected Towing Vessel Inspector (ITVI)****Internal Structural Examination****Internal Structural Examination (IS)****Inspected Towing Vessel****Task:** ITV-IS02 Inspect vessel's internal structures**Condition:** *During drydock inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. Title 46, Code of Federal Regulations Part 143 Machinery and Electrical Systems and Equipment
  3. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  4. Title 46, Code of Federal Regulations Part 144, Construction and Arrangement
  5. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
  6. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
IS02.1	Inspect internal structures	46 CFR 137.330(b) 46 CFR 137.300(a)	
IS02.2	Inspect coamings, closures and other fittings	46 CFR 137.330(b) 46 CFR 144.320(b) MSM II/B.3.B	
IS02.3	Verify wastage discovered is within acceptable limits	NVIC 07-68 III(C)	
IS02.4	Inspect cathodic protection arrangement	46 CFR 143.570(f)	

**Verifying Officer Guidance:** *Trainee shall demonstrate a working knowledge of vessel nomenclature including scantlings/structural members and the proper examination procedures to follow.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Welding Repair Inspection (WR)****Inspected Towing Vessel****Task:** ITV-WR01 Evaluate structural repair proposals**Condition:** *During initial examination of steel repair work***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
2. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
3. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
WR01.1	Verify extent of damage and/or wastage/corrosion	46 CFR 137.330(a)(1) NVIC 07-68	
WR01.2	Review repair proposal	MSM II/A.1.F.2.a NVIC 07-68 IV	
WR01.3	Verify repair materials	NVIC 07-68	
WR01.4	Verify welding procedures	NVIC 07-68	
WR01.5	Evaluate alternative repair methods for equivalency	46 CFR 144.200 46 CFR 144.205 MSM II/A.1.F.2.c	

**Verifying Officer Guidance:** *Trainee shall demonstrate a working knowlede of acceptable structural repair standards, processes and procedures.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Drydock Inspection**

**Welding Repair Inspection (WR)**

**Inspected Towing Vessel**

**Task:** ITV-WR02 Verify welding Procedure Qualification Record(s) (PQR)

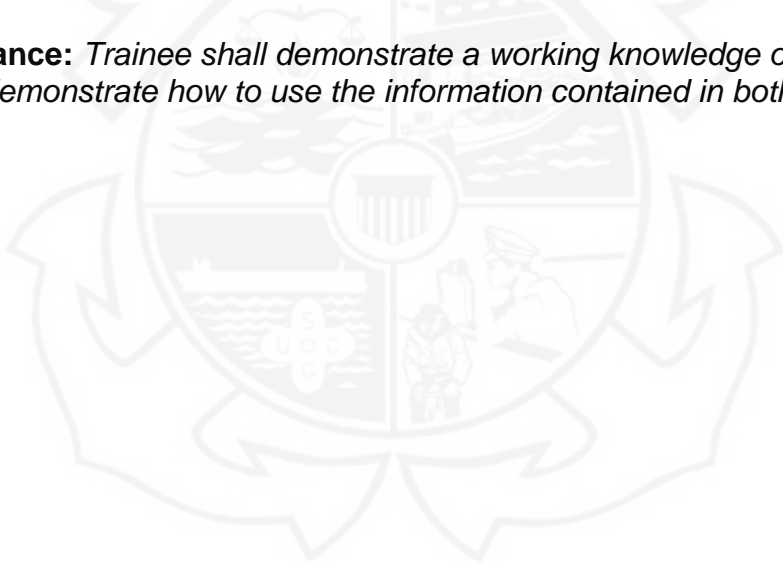
**Condition:** During initial examination of steel repair work

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  2. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 2 Materials and Welding
  3. ABS Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways, 2007 Part 2 Materials and Welding

Steps		References	Initials
WR02.1	Confirm need for qualified welding procedure	46 CFR 144.200 46 CFR 144.205 ABS 2-4-4/3.1	
WR02.2	Verify variables on PQR(s) meet the Welding Procedure Specification(s)(WPS)	ABS 2-4-4/3.1	
WR02.3	Verify tests and results	ABS 2-4-3	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of the elements of a PQR and WPS. Also, demonstrate how to use the information contained in both.



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Drydock Inspection**

**Welding Repair Inspection (WR)**

**Inspected Towing Vessel**

**Task:** ITV-WR03 Verify welder is qualified to perform repair work

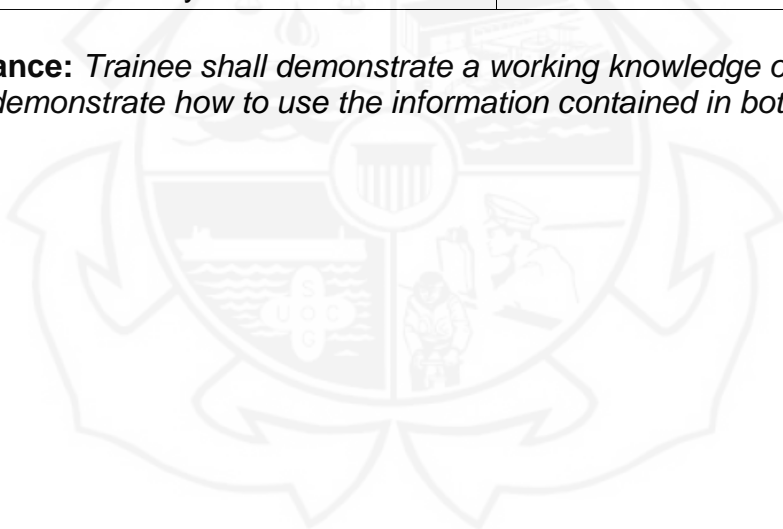
**Condition:** During initial examination of steel repair work

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
  2. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 2 Materials and Welding
  3. ABS Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways, 2007 Part 2 Materials and Welding

Steps		References	Initials
WR03.1	Confirm need for qualified welding procedure	46 CFR 144.200 46 CFR 144.205 ABS 2-4-1/1.5	
WR03.2	Verify Welder Performance Qualification (WPQ) is valid	ABS 2-4-1/1.7.1	
WR03.3	Verify variables on WPQ(s)	ABS 2-4-1/1.7.1	
WR03.4	Verify tests are satisfactory	ABS 2-4-1/7.1	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of the elements of a WPQ and WPS. Also, demonstrate how to use the information contained in both.



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Welding Repair Inspection (WR)****Inspected Towing Vessel****Task:** ITV-WR04 Inspect fit-up**Condition:** *During initial examination of steel repair work***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. Title 46, Code of Federal Regulations Part 144 Construction and Arrangement
2. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
3. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 2 Materials and Welding
4. ABS Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways, 2007 Part 2 Materials and Welding

Steps		References	Initials
WR04.1	Examine material and verify it is fitted to approved joint detail	46 CFR 144.200 & .205 NVIC 07-68 V ABS 2-4-1/3.1	
WR04.2	Verify materials (base, filler, gas)	ABS 2-4-1/1.5	
WR04.3	Verify welding processes	ABS 2-4-1/5.15 ABS 2-4-1/5.7 ABS 2-4-1/5.19	

**Verifying Officer Guidance:** *Trainee shall demonstrate a working knowledge of structural repair standards, processes and procedures. Note: Marine Safety Manual Vol II, Chapter 5 directs you to NVIC 07-68.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Welding Repair Inspection (WR)****Inspected Towing Vessel****Task:** ITV-WR05 Inspect back gouge**Condition:** *During intermediate examination of full penetration weld on steel repair work***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 2 Materials and Welding
2. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls

Steps		References	Initials
WR05.1	Examine welds for defects (discontinuity)	ABS 2-4-1/5.9 NVIC 07-68 V(G)(2)	
WR05.2	Verify weld sequencing	ABS 2-4-1/1.7 NVIC 07-68 V(F)	
WR05.3	Verify joints are cleaned between interpasses	ABS 2-4-1/3.5 NVIC 07-68 V(H)	

**Verifying Officer Guidance:** *Trainee shall demonstrate a working knowledge of structural repair standards, processes and procedures.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Welding Repair Inspection (WR)****Inspected Towing Vessel****Task:** ITV-WR06 Inspect welds**Condition:** *During final visual inspection of steel repair work***Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:**

1. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1
2. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
3. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 2 Materials and Welding

Steps		References	Initials
WR06.1	Examine welds for uniformity and reinforcement	ABS 2-4-1/5.15.1 MSM II/A.5 NVIC 07-68 V	
WR06.2	Examine welds for defects (discontinuity)	ABS 2-4-1/5.15.1 NVIC 07-68 V(H) MSM II/A.5	
WR06.3	Examine adjacent base metal for injurious arc strikes, spatter, undercut, overlap, slag and irregular and/or sharp edges	ABS 2-4-1/5.15.1 MSM II/A.5	
WR06.4	Verify workmanship through a nondestructive test	ABS 2-4-1/5.15.2	

**Verifying Officer Guidance:** *Trainee shall demonstrate a working knowledge of structural repair standards, processes and procedures.*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Nondestructive Testing (NT)****Inspected Towing Vessel**

**Task:** ITV-NT01 Verify nondestructive testing (NDT) using the liquid (dye) penetrant method

**Condition:** During inspection or after completion of a weld repair

**Standard:** In compliance with applicable policies, laws, regulations and standards

**References:**

1. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2014
2. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 2 Materials and Welding

Steps		References	Initials
NT01.1	Verify technician's qualification and certification	ABS NDT Guide 1/5.0 ABS 2-4-1/5.17	
NT01.2	Witness application	ABS NDT Guide 4/5.1	
NT01.3	Witness removal of excess after dwell time	ABS NDT Guide 4/5.7	
NT01.4	Witness application of developer	ABS NDT Guide 4/5.7	
NT01.5	Evaluate test results or technician's report	ABS NDT Guide 4/7.1	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of dye penetrant testing methods and procedures (may vary depending on the manufacturer). Trainee shall demonstrate knowledge of Type 1, 2 and 3 NDT certifications.

**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**



**Inspected Towing Vessel Inspector (ITVI)**

**Drydock Inspection**

**Nondestructive Testing (NT)**

**Inspected Towing Vessel**

**Task:** ITV-NT02 Verify nondestructive testing (NDT) using the magnetic particle method

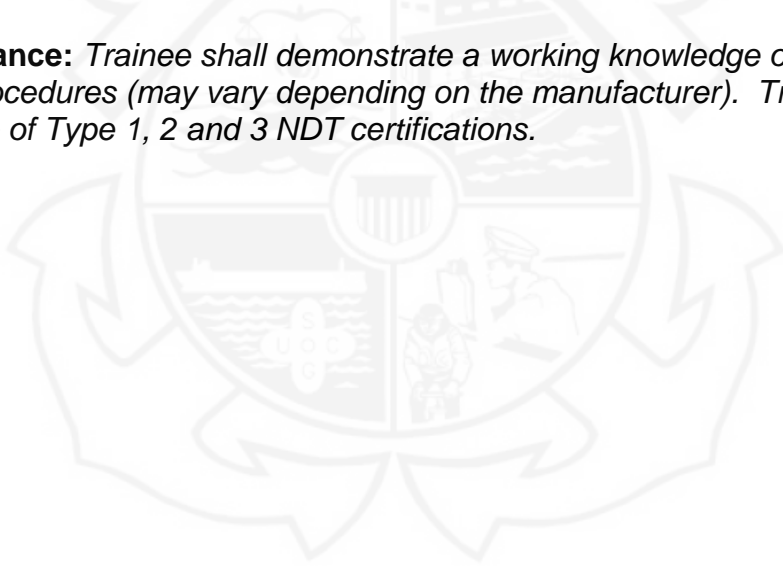
**Condition:** During inspection or after completion of a weld repair

**Standard:** In compliance with applicable policies, laws, regulations and standards

**References:** 1. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2014

Steps		References	Initials
NT02.1	Verify technician's qualification and certification	ABS NDT Guide 5/5.1	
NT02.2	Verify magnetic field strength	ABS NDT Guide 5/5.7.2	
NT02.3	Witness proper application of visible magnetic particles	ABS NDT Guide 5/5.3	
NT02.4	Witness the technician examine/interpret readings	ABS NDT Guide 5/5.9	
NT02.5	Evaluate test results or review technician's report	ABS NDT Guide 5/5.9	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of magnetic particle testing methods and procedures (may vary depending on the manufacturer). Trainee shall demonstrate knowledge of Type 1, 2 and 3 NDT certifications.



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Drydock Inspection**

**Nondestructive Testing (NT)**

**Inspected Towing Vessel**

**Task:** ITV-NT03 Verify nondestructive testing (NDT) using the radiography (gamma rays or x-rays) method

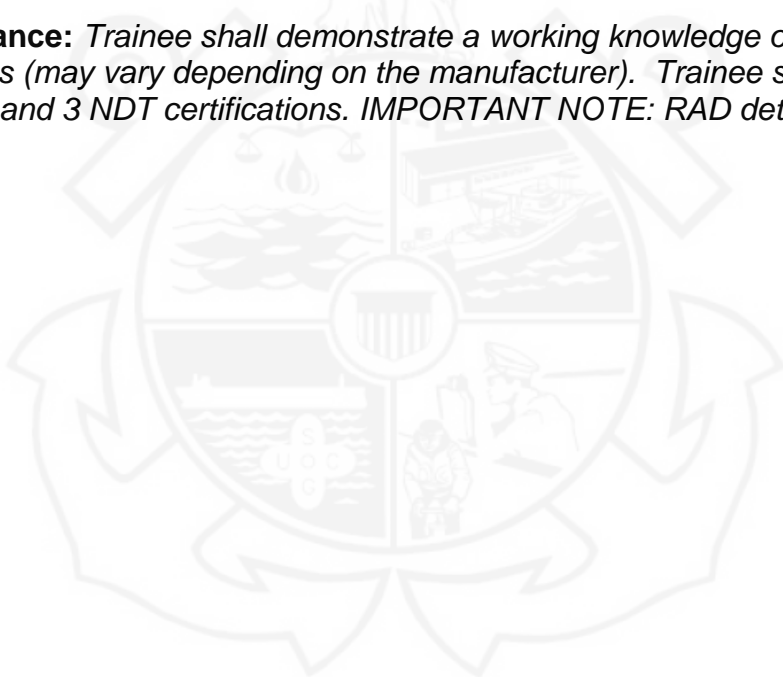
**Condition:** During inspection or after completion of a weld repair

**Standard:** In compliance with applicable policies, laws, regulations and standards

**References:** 1. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2014

Steps		References	Initials
NT03.1	Verify technician's qualification and certification	ABS NDT Guide 1/5.0	
NT03.2	Verify technique	ABS NDT Guide 2/5.3	
NT03.3	Witness technician examine/interpret readings	ABS NDT Guide 2/5.15	
NT03.4	Review technician's report	ABS NDT Guide 2/9	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of radiograph testing methods and procedures (may vary depending on the manufacturer). Trainee shall demonstrate knowledge of Type 1, 2 and 3 NDT certifications. **IMPORTANT NOTE:** RAD detectors have a habit of



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Nondestructive Inspection (NT)****Inspected Towing Vessel****Task:** ITV-NT04 Verify nondestructive testing (NDT) using the ultrasonic method**Condition:** During initial examination of steel repair work**Standard:** In compliance with applicable policies, laws, regulations and standards**References:** 1. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2014

Steps		References	Initials
NT04.1	Verify technician's qualification and certification	ABS NDT Guide 1/5.0 ABS NDT Guide 3/3.1	
NT04.2	Witness technician calibrate equipment	ABS NDT Guide 3/3.5.1 ABS NDT Guide 3/3.5.2	
NT04.3	Witness technician examine/interpret readings	ABS NDT Guide 3/9.1	
NT04.4	Evaluate test results or review technician's report	ABS NDT Guide 3/13	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of ultrasonic testing methods and procedures (may vary depending on the manufacturer). Trainee shall demonstrate knowledge of Type 1, 2 and 3 NDT certifications.

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Nondestructive Testing (NT)****Inspected Towing Vessel**

**Task:** ITV-NT05 Verify nondestructive testing (NDT) using the hydro-static method

**Condition:** After completion of construction, repair or during routine inspection

**Standard:** In compliance with applicable policies, laws, regulations and standards

**References:** 1. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 3 Hull Construction and Equipment

Steps		References	Initials
NT05.1	Verify test pressure	ABS 3-7-1/5.1	
NT05.2	Verify air has been purged	ABS 3-7-1/5.1	
NT05.3	Verify test pressure is attained and maintained	ABS 3-7-1/5.1	
NT05.4	Examine all joints, connections and high stress regions	ABS 3-7-1/5.1	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of hydrostatic testing methods and procedures.

**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**

**Inspected Towing Vessel Inspector (ITVI)****Drydock Inspection****Nondestructive Testing (NT)****Inspected Towing Vessel**

**Task:** ITV-NT06 Verify nondestructive testing (NDT) using the pneumatic (air test) method

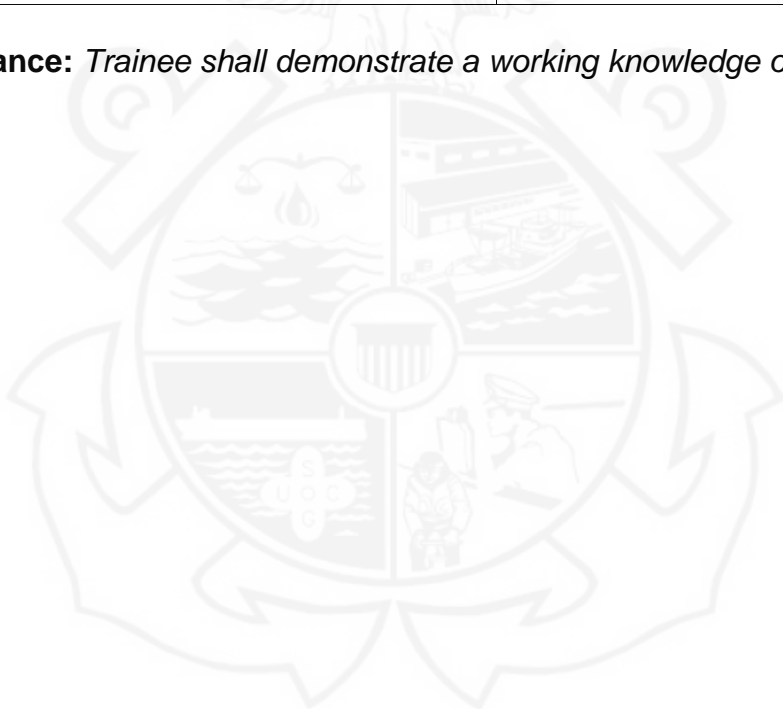
**Condition:** After completion of construction, repair or during routine inspection

**Standard:** In compliance with applicable policies, laws, regulations and standards

**References:** 1. ABS Rules for Building and Classing Steel Vessels Under 90 Meters in Length, 2006 Part 3 Hull Construction and Equipment

Steps		References	Initials
NT06.1	Verify test pressure	ABS 3-7-1/5.3	
NT06.2	Verify test pressure is attained and maintained	ABS 3-7-1/5.3	
NT06.3	Examine joints and connections with leak indicating solution	ABS 3-7-1/5.3	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of air testing methods and procedures.



**Inspector's Name:** (Last, First, Initial)

**EMPLID:**

**Verifying Officer's Signature:**

**Date:**

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Follow Up Actions (FU)**

**Inspected Towing Vessels**

**Task:** ITV-FU01 Issue deficiencies & non-conformities

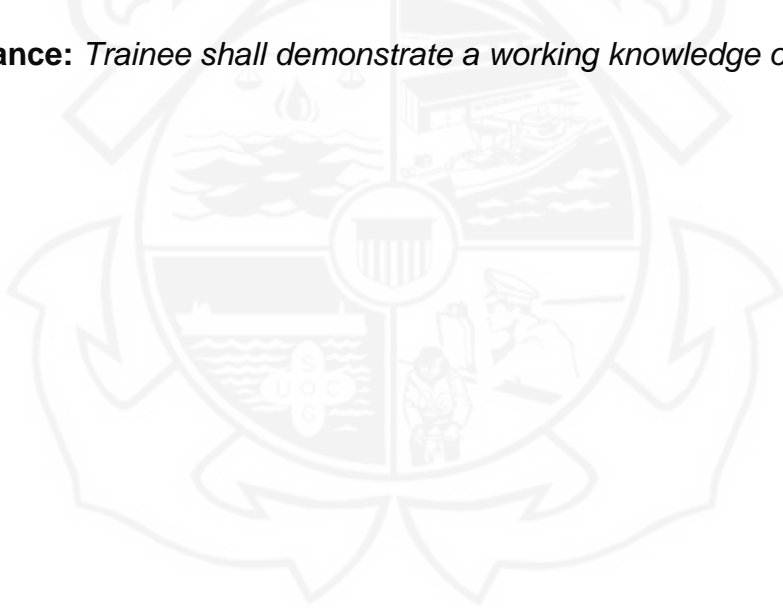
**Condition:** Upon completion of inspection and identification of deficiencies

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
FU01.1	Determine deficiency's reference cite	46 CFR 137.200 MSM II/A.2.C.4.b	
FU01.2	Discuss deficiencies and corrective measures/timeframe with vessel's master or representative	46 CFR 137.200 MSM II/A.2.C.2	
FU01.3	Issue signed CG-835 to vessel's master or representative	46 CFR 137.200 MSM II/A.2.C	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of MISLE processes and procedures.



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Follow Up Actions (FU)**

**Inspected Towing Vessel**

**Task:** ITV-FU02 Issue TSMS non-conformity notifications

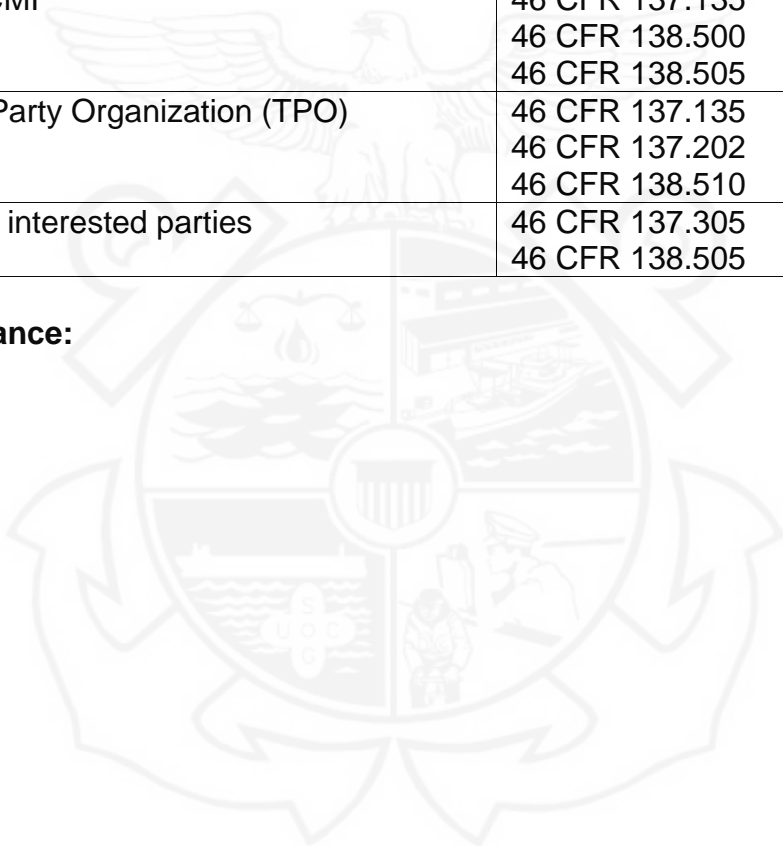
**Condition:** Upon completion of inspection and identification of deficiencies

**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
  2. Title 46, Code of Federal Regulations Part 138 Towing Safety Management System (TSMS)

Steps		References	Initials
FU02.1	Report to OCMI	46 CFR 137.135 46 CFR 138.500 46 CFR 138.505	
FU02.2	Notify Third Party Organization (TPO)	46 CFR 137.135 46 CFR 137.202 46 CFR 138.510	
FU02.3	Notify USCG interested parties	46 CFR 137.305 46 CFR 138.505	

**Verifying Officer Guidance:**



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Follow Up Actions (FU)****Inspected Towing Vessel****Task:** ITV-FU03 Issue/Endorse vessel certificates**Condition:** Upon completion of the inspection**Standard:** In compliance with applicable policies, laws, regulations and standards

**References:**

1. Title 46, Code of Federal Regulations Part 136 Certification
2. Title 46, Code of Federal Regulations Part 137 Vessel Compliance
3. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management
4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
FU03.1	Issue/Endorse certificates, as applicable	46 CFR 136.200 46 CFR 136.212(c) 46 CFR 137.200	
FU03.2	Obtain a copy of all endorsed certificates for the unit's vessel file	MSM I/12.E.7	
FU03.3	Issue amended COI	46 CFR 136.235 MSM II/A.3.J MSM II/A.6.B	
FU03.4	Issue Permit to Proceed	46 CFR 136.240 MSM II/A.6.B	
FU03.5	Issue Excursion Permit	46 CFR 136.245 MSM II/B.4.B	

**Verifying Officer Guidance:** *If available, CVC-approved Process Guides must be used when preparing certificates/documents. FU03 should be completed per unit policy, but should include pre-inspection steps (vessel research, TSMS review, etc.) and include disposition of the original COI (disposal, forwarding, etc.).*

**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**



**Inspected Towing Vessel Inspector (ITVI)****Certificate of Inspection****Follow Up Actions (FU)****Inspected Towing Vessel****Task:** ITV-FU04 Complete MISLE Activity**Condition:** Upon completion of the inspection**Standard:** In compliance with applicable policies, laws, regulations and standards

**References:**

1. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management
2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
FU04.1	Open existing activity in MISLE	MSM I/12.G.2.a	
FU04.2	Update inspection results	MSM I/12.H.1 MSM II/A.2.C.2.d	
FU04.3	Update activity narrative	MSM I/12.H.1	
FU04.4	Update vessel details	MSM I/12.H.1	
FU04.5	Amend Certificate of Inspection (as needed)	MSM I/12.H.1	
FU04.6	Print new or amended Certificate of Inspection	MSM II/A.2.C.6	
FU04.7	Change activity status to "Open - Submitted for Review"	MSM I/12.H.1	

**Verifying Officer Guidance:** Trainee shall demonstrate a working knowledge of MISLE processes and procedures.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

**Inspected Towing Vessel Inspector (ITVI)**

**Certificate of Inspection**

**Follow Up Actions (FU)**

**Inspected Towing Vessel**

**Task:** ITV-FU05 Verify deficiency corrections

**Condition:** *During follow-up visit*

**Standard:** *In compliance with applicable policies, laws, regulations and standards*

**References:** 1. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

Steps		References	Initials
FU05.1	Determine an appropriate verification method for identified deficiency(s)	MSM II/A.2.C.4	
FU05.2	Verify corrective action(s) meet appropriate regulations	MSM II/A.2.C.4.a	
FU05.3	Clear deficiency(s) in MISLE activity	MSM II/A.2.C.2.d	

**Verifying Officer Guidance:** *Trainee shall demonstrate a working knowledge of MISLE processes and procedures.*



<b>Inspector's Name:</b> (Last, First, Initial)	<b>EMPLID:</b>
<b>Verifying Officer's Signature:</b>	<b>Date:</b>

Appendix A

**List of Additional References:**

**American Bureau of Shipping (ABS), ABS Plaza, 16855 North chase Drive Houston TX 77060**

Rules for Building and Classing Steel Vessels Under 61 Meters (200 Ft) in Length (1983)

Rules for Building and Classing Steel Vessels (1995)

Rules for Building and Classing Aluminum Vessels (1975)

Rules for Building and Classing Mobile Offshore Drilling Units (1994)

Rules for Building and Classing Mobile Offshore Drilling Units (1994)

**American National Standards Institute (ANSI), 11 West 42nd St., New York, NY 10036**

B 31.1-1986, Code for Pressure Piping, Power Piping

Z 26.1-1977 (including 1980 Supplement), Safety Code for Safety Glazing Materials for Glazing Motor Vehicles Operating on Land Highways

**American Society of Mechanical Engineers (ASME) International, Three Park Avenue, New York, NY 10016-5990**

Boiler and Pressure Vessel Code Section I, Power Boilers, July 1989 with 1989 addenda

**American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959**

ASTM D 93-97, Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester

**American Yacht and Boat Council, Inc. (AYBC), 3069 Solomon's Island Rd., Edgewater, MD 21037-1416**

A-3-1993, Galley Stoves

A-7-1970, Recommended Practices and Standards Covering Boat Heating Systems

E-1-1972, Bonding of Direct-Current Systems

E-8-1994, Alternating-Current (AC) Electrical Systems on Boats

E-9-1990, Direct-Current (DC) Electrical Systems on Boats

**Institute of Electrical and Electronics Engineers (IEEE), IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08855**

No. 45-1977, Recommended Practice for Electric Installations on Shipboard

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Appendix A

**International Maritime Organization (IMO), Publications Section, 4 Albert Embankment, London SE1 7SR, United Kingdom**

Resolution A.520(13), Code of Practice for the Evaluation, Testing and Acceptance of Prototype Novel Life-saving Appliances and Arrangements, dated 17 November 1983

Resolution A.658(16), "Use and Fitting of Retro-Reflective Materials on Life-saving Appliances", dated 20 November 1989

Resolution A.760(18), "Symbols Related to Life-Saving Appliances and Arrangements", dated 17 November 1993

International Convention for the Safety of Life at Sea (SOLAS), Consolidated Edition, 1992

**National Fire Protection Association (NFPA).1 Battery march Park, Quincy, MA 02269-9101**

NFPA 70, National Electrical Code, 1993 Edition

NFPA 306, Control of Gas Hazards on Vessels, 1993 Edition

NFPA 1963, Fire Hose Connections, 1993 Edition

NFPA 10, Standard for Portable Fire Extinguishers, 1994 Edition

NFPA 302—Fire Protection Standard for Pleasure and Commercial Motor Craft, 1994 Edition

**Underwriters Laboratories, Inc. (UL), 12 Laboratory Drive, Research Triangle Park, NC 27709-3995**

UL 19-1992, Lined Fire Hose and Hose Assemblies

UL 486A-1992, Wire Connectors and Soldering Lugs for Use with Copper Conductors

UL 489-1995, Molded-Case Circuit Breakers and Circuit-Breaker Enclosures

UL 57-1976, Electric Lighting Fixtures

UL 595-1991, Marine-Type Electric Lighting Fixtures

UL 1570-1995, Fluorescent Lighting Fixtures

UL 1571-1995, Incandescent Lighting Fixtures

UL 1572-1995, High Intensity Discharge Lighting Fixtures

UL 1573-1995, Stage and Studio Lighting Units

UL 1574-1995, Track Lighting Systems

## Appendix B

**Glossary:** The following terms are used in this workbook and should be reviewed in order to better understand its contents:

**Advise:** to counsel or recommend

**Assign:** to give responsibility, to place under the control of a task

**Amend (Modify):** to make minor changes in/to

**Brief:** to give information or final precise instructions

**Change:** to make different in some particular way

**Check:** to inspect for satisfactory condition, accuracy, safety or performance

**Compare:** to examine (two or more objects, ideas, people, etc.) in order to note similarities and/or differences

**Communicate:** to convey knowledge of or information about: make known

**Confirm:** to validate, establish the truth, accuracy or genuineness of something

**Create:** to cause to happen; bring about; arrange, as by intention or design

**Discuss:** to verbally present a topic in detail for examination or consideration

**Determine:** to settle or decide by choice of alternatives or possibilities. “Decide” refers to arriving at a conclusion and to pronounce that decision. “Determine” is to settle or decide by choice of alternatives or possibilities and to fix precisely.

**Endorse:** to approve, support or sustain; to sign one’s name on a document or other instrument

**Ensure:** to make certain, to guarantee

**Enter:** to make a record of; record or register

**Evaluate:** to determine the significance or worth of, usually by careful appraisal and study

**Examine:** to look at or consider a thing carefully and in detail in order to discover something about it

**Identify:** to determine critical or necessary conditions or other factors; to determine the specific model of an item; to ascertain the origin, nature or definitive characteristics of; to recognize or establish as being a particular person or thing

**Inspect:** to examine officially; to look carefully at or over; view closely and critically

**Issue:** to serve legally binding federal documentation, notices or declarations to an individual, business or other distinctive entity

## Appendix B

**Locate:** to determine or set the position of; to find

**Make:** to create or cause to happen

**Modify** (Amend): to make minor changes in/to

**Observe** (Witness): to watch carefully

**Obtain:** to gain or attain

**Open:** to set in action, begin, start or commence

**Prepare:** plan, gather and assemble information to produce a document (i.e. COI); to put together, to combine elements and produce a product, to make ready

**Provide:** to supply or make available

**Review:** to go over for the purpose of determining correctness or currency; to examine a document or process for accuracy in content and/or format and report errors or updates to the author or controlling authority

**Schedule:** to appoint, assign, or designate for a fixed time

**Update:** to bring up to date or make current

**Validate:** to substantiate accuracy or truth of by comparison or investigation

**Verify:** to confirm or establish the accuracy or truth of something

**Witness** (Observe): to watch carefully

Appendix C

<b>DATE</b>	<b>LOCATION</b>	<b>VESSEL NAME</b>	<b>VESSEL TYPE</b>	<b>INSPECTION TYPE</b>	<b>LEAD INSPECTOR</b>

Appendix C

DATE	LOCATION	VESSEL NAME	VESSEL TYPE	INSPECTION TYPE	LEAD INSPECTOR



Appendix C

<b>DATE</b>	<b>LOCATION</b>	<b>VESSEL NAME</b>	<b>VESSEL TYPE</b>	<b>INSPECTION TYPE</b>	<b>LEAD INSPECTOR</b>







**Performance Qualification Standard and Job Aid Change  
Recommendation Form**

From: \_\_\_\_\_ Date: \_\_\_\_\_

PQS/CG-840 Title:


Section(s) Affected:


Remark(s)/Comment(s):


Reference(s):


Signature: \_\_\_\_\_

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