
U.S. COAST GUARD



BARGE INSPECTOR (BI)

PERFORMANCE AND QUALIFICATION STANDARD



Marine Inspection and Investigation School
Training Center Yorktown

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Barge Inspector Performance and Qualification Standard

Competency Code: BI

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 a Barge 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 B in this workbook.

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

This PQS workbook contains the necessary tasks and steps for a BI to conduct an Inspection for Certification and drydock examination. Those members who will be conducting inspections on barges are required to complete all tasks and steps in this PQS workbook. Certain tasks associated with inspections on specialized barges (i.e. international, manned, gas, etc.) 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 barges, you will be required to complete the specific tasks and steps associated with that particular type of barge, which are incorporated in the following addendum workbooks:

BII – International

BIM – Manned

BIG – Liquefied Gas

BIO – Subchapter O

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: "Small Passenger Vessel (T)"
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 BI 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 (CB) 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. Glossary
- B. Inspection Log

PQS Verifying Officer Signature Verification Log

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

Barge Inspector (BI) PQS

RECORD OF COMPLETION		
Training Prerequisites	Date	Training Coordinator's Signature
A. Assign BI 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 BI CB		
BI CB Members Present for Board:		
F. Certification/Designation Letter submitted for approval		
G. Once Certification/Designation Letter is signed make appropriate entries in TMT		
REMARKS:		

Barge Inspector (BI) PQS

Task Number	Task Description	Date Completed
BI-PI01	Research vessel details in MISLE (Marine Information for Safety and Law Enforcement) database	
BI-PI02	Coordinate inspection with vessel's representative	
BI-PI03	Mitigate potential hazards encountered during an inspection	
BI-PI04	Review Initial/Periodic mid-body gauging report	
BI-DA01	Conduct initial vessel visual examination (upon arrival)	
TI-CD01	Review Certificate of Inspection (COI)	
TI-CD02	Review Certificate of Documentation (COD)	
TI-CD03	Examine Dangerous Cargo Manifest	
TI-CD04	Examine maintenance and service records (firefighting)	
TI-CD05	Review Vessel Security Plan (VSP)	
TI-CD06	Examine stability letter, book and loading criteria	
TI-CD07	Reviewing loading information	
BI-SD01	Review Vessel Security Plan (VSP) or Alternate Security Plan (ASP)	
BI-SD02	Examine security records	
BI-SD03	Examine security equipment	
BI-BN01	Inspect navigation lights & shapes	
BI-FF01	Inspect portable fire extinguishers	
BI-ES01	Inspect main service generators and prime mover(s)	
BI-ES02	Inspect electrical cables and fixtures	
BI-ES03	Inspect components installed in designated hazardous locations	
BI-SW01	Inspect watertight bulkhead penetrations	
BI-SW02	Inspect hull structure	
BI-PP01	Inspect deck containment	
BI-PP02	Inspect pollution prevention equipment	
BI-PP03	Review fuel oil transfer procedures	
BI-CS01	Inspect cargo tank venting arrangements	
BI-CS02	Inspect liquid cargo transfer systems	
BI-CS03	Inspect Vapor Collection System (VCS)	
BI-CS04	Inspect tank liquid high level and overfill protection	
BI-CS05	Inspect packaged hazardous material(s)	

Barge Inspector (BI) PQS

Task Number	Task Description	Date Completed
BI-MI01	Inspect main and auxiliary machinery and related systems	
BI-MI02	Inspect fuel tank components	
BI-MI03	Inspect fired thermal fluid heaters	
BI-TE01	Inspect freeing ports and scuppers	
BI-IS01	Verify confined spaces are safe for entry	
BI-IS02	Inspect internal structures and cargo tanks	
BI-WR01	Evaluate structural repair proposals	
BI-WR02	Inspect fit-up	
BI-WR03	Inspect back gouge	
BI-WR04	Inspect welds	
BI-WR05	Verify welding Procedure Qualification Record(s) (PQR)	
BI-WR06	Verify welder is qualified to perform repair work	
BI-NT01	Inspect nondestructive testing (NDT) using the liquid (dye) penetrant method	
BI-NT02	Inspect nondestructive testing (NDT) using the magnetic particle method	
BI-NT03	Verify nondestructive testing (NDT) using the radiography (gamma rays or x-rays) method	
BI-NT04	Verify nondestructive testing (NDT) using the ultrasonic method	
BI-NT05	Inspect nondestructive testing (NDT) using the hydrostatic method (Pressure Vessels)	
BI-NT06	Inspect nondestructive testing (NDT) using the hydrostatic method (Piping Systems)	
BI-NT07	Inspect nondestructive testing (NDT) using the hydrostatic method (Tanks and Bulkheads)	
BI-NT08	Inspect nondestructive testing (NDT) using the pneumatic method (Pressure Vessels)	
BI-NT09	Inspect nondestructive testing (NDT) using the pneumatic method (Piping Systems)	
BI-NT10	Inspect nondestructive testing (NDT) using the tank air test (pneumatic) method (Tanks & Bulkheads)	
BI-NT11	Inspect nondestructive testing (NDT) using the hose test method (Tanks & Bulkheads)	
BI-NT12	Inspect nondestructive testing (NDT) using the vacuum box method (Tanks & Bulkheads)	
BI-HI01	Inspect hull	
BI-HI02	Inspect hull markings	

Barge Inspector (BI) PQS

Task Number	Task Description	Date Completed
BI-HI03	Determine if vessel qualifies to participate in Underwater Survey Program (UWILD)	
BI-HI04	Inspect hull during an underwater survey	
BI-FU01	Issue/endorse vessel's Certificate of Inspection and vessel's certificates	
BI-FU02	Issue control action(s)	
BI-FU03	Complete MISLE Activity	
BI-FU04	Conduct deficiency check	
BI-FU05	Ensure completion of drydock examination	

Appendix A

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 A

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 B

DATE	LOCATION	VESSEL NAME	VESSEL TYPE	INSPECTION TYPE	LEAD INSPECTOR

Appendix B

DATE	LOCATION	VESSEL NAME	VESSEL TYPE	INSPECTION TYPE	LEAD INSPECTOR

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

Condition: During 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 33, Code of Federal Regulations Part 138 Financial Responsibility for Water Pollution & OPA 90 Limits of Liability
 3. Title 46, Code of Federal Regulations Part 30 Tank Vessels - General Provisions
 4. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management & COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 5. MISLE Vessels User Guide
 6. MPS-PR-SEC-04 Preparing for Inspections and Examinations & MPS-PR-SEC-05 Conducting Domestic Vessel Inspections

Steps		References	Initials
PI01.1	Determine authority, jurisdiction, applicable regulations and enrollment in alternate inspection programs (ACP, SIP, MSP, etc.)	46 USC 3301 46 CFR 30.01-5, & 91-15-5 MSM II/B.9 & B 10	
PI01.2	Locate vessel in MISLE	MSM I/12.G.5	
PI01.3	Verify documents are current in MISLE (VRP, SOPEP, SMPEP etc.)	MISLE User Guide MSM II/B.1.C.2	
PI01.4	Review history (narratives, deficiencies & special notes)	MSM II/B.1.C.2	
PI01.5	Verify status of user fees	MSM II/B.1.C.2	
PI01.6	Enter title and point(s) of contact	MSM II/B.1.C.2	
PI01.7	Verify status of Certificate of Financial Responsibility (e-COFR)	33 CFR 138.15 & .30(c) 33 CFR 138.65 33 CFR 138.90(a)	
PI01.8	Generate new activity	MSM I/12.G	
PI01.9	Prepare folder and required documents	MPS-PR-SEC-04 & 05	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of MISLE including Coast Guard's Mission Management System (MMS) processes and procedures.

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

Pre-Inspection (PI)**Tank Barge****Task:** BI-PI02 Coordinate inspection with vessel's representative**Condition:** *During preparation for drydock examination***Standard:** *In accordance with current policies, procedures and processes*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 3. MPS-PR-SEC-01 Scheduling Domestic Vessel Inspections
 4. MPS-PR-SEC-04 Preparing for Inspection and Examinations

Steps		References	Initials
PI02.1	Verify vessel's representative	MPS-PR-SEC-01	
PI02.2	Determine location and time of inspection	MPS-PR-SEC-01	
PI02.3	Discuss inspection expectations	46 CFR 31.10 MSM II/B.1.D.1 & B.2.A.1	
PI02.4	Verify vessel's owner/operator information	MPS-PR-SEC-04	
PI02.5	Verify vessel's classification society information	MPS-PR-SEC-04	
PI02.6	Review outstanding conditions from third party reports and/or CG-835s	MPS-PR-SEC-04	
PI02.7	Review repairs and alterations	46 CFR 31.10-22 & -25	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of MISLE including Coast Guard's Mission Management System (MMS) processes and procedures.*

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

Pre-Inspection (PI)**Tank Barge****Task:** BI-PI03 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-2
 4. NFPA 306 Standard for the Control of Gas Hazards on Vessels, 2009
 5. NFPA 350 Guide for Safe Confined Space Entry and Work
 6. Gas Detector Operator's Manual

Steps		References	Initials
PI03.1	Recognize potential hazards encountered during inspection	NFPA 306 NFPA 350	
PI03.2	Determine confined spaces	MSM I/10 App.A NFPA 350	
PI03.3	Determine if exam scope will require a Marine Chemist certification for space entry	29 CFR 1915, Subpart B MSM II/A.5.H	
PI03.4	Verify Marine Chemist has been scheduled for exam	MSM I/10 App. A	
PI03.5	Prepare necessary personal protective equipment for exam	MSM I/10 App. A MSM I/8.A.3. Operator's Manual	
PI03.6	Review CG policy for when to leave a space due to hazardous condition	MSM I/10 App. A	

Verifying Officer Guidance: *Trainees shall be familiar with Quattro Gas Detector and how to bump test and calibrate.*

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

Task: BI-PI04 Review Initial/Periodic mid-body gauging report

Condition: *During preparation for drydock examination*

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

References: 1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification

Steps		References	Initials
PI04.1	Verify need for initial or periodic regauging	46 CFR 31.10-21a(a) & (b)	
PI04.2	Verify location of mid-body survey gauging	46 CFR 31.10-21a(a) & (c)	
PI04.3	Verify results, engineering analysis and repair proposal(s)	46 CFR 31.10-21a(d) & (f)	
PI04.4	Verify availability of permanent approved copies	46 CFR 31.10-21a(e)	

Verifying Officer Guidance:



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

Dockside Assessment (DA)

Tank Barge

Task: BI-DA01 Initial vessel visual examination (upon arrival)

Condition: While observing the vessel from dock or anchorage

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 33, Code of Federal Regulations Part 104 Maritime Security - Vessels
 3. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 4. Title 46, Code of Federal Regulations Parts 32, 42, 67
 5. International Convention on Load Lines (ICLL) 1966, as amended
 6. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as amended

Steps		References	Initials
DA01.1	Verify presence of anchor(s)	46 CFR 32.15-15(a), (e) & (f)	
DA01.2	Verify Load Line markings	46 CFR 31.25-1 46 CFR 42.07-5, .13-25 & .35	
DA01.3	Verify draught (draft) marks	46 CFR 32.05-1	
DA01.4	Verify name, homeport and official number markings	46 CFR 32.05-15 46 CFR 67.121 & .123	
DA01.5	Evaluate hull for signs of pollution/illegal discharge	33 USC 1321 33 CFR 151.10(b) MARPOL I/15	
DA01.6	Evaluate hull condition	46 CFR 31.10-15(b) ICLL I/1	
DA01.7	Examine cargo ports and other similar openings	46 CFR 31.25-1 46 CFR 42.15-55 ICLL I/21	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of hull markings, loadline requirements, equipment's components, function, purpose and operation.

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

Task: BI-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, United States Code Part F Manning of Vessels
 2. Title 46, Code of Federal Regulations Part 15 Manning Requirements
 3. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
CD01.1	Verify presence of original	46 CFR 31.05-5	
CD01.2	Validate route(s) and service	46 CFR 31.05-1(b)	
CD01.3	Validate fire fighting and lifesaving equipment	46 CFR 31.10-15(b)	
CD01.4	Validate Cargo Carriage requirements	46 CFR 31.05-1(b)	
CD01.5	Review amendment(s)	MSM Vol II/A.3.H.3.b.3 MSM II/A.3.J	
CD01.6	Verify pressure vessel date(s)	46 CFR 31.30-1 46 CFR 61.10-5(b)	
CD01.7	Verify hull exams date	46 CFR 31.10-21	
CD01.8	Verify Internal Structural Exam (ISE) date	46 CFR 31.10-21	
CD01.9	Verify Cargo Tank(s) Internal Exam (CTIE) date	46 CFR 31.10-24	

Verifying Officer Guidance:

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

Task: BI-CD02 Review Certificate of Documentation (COD)

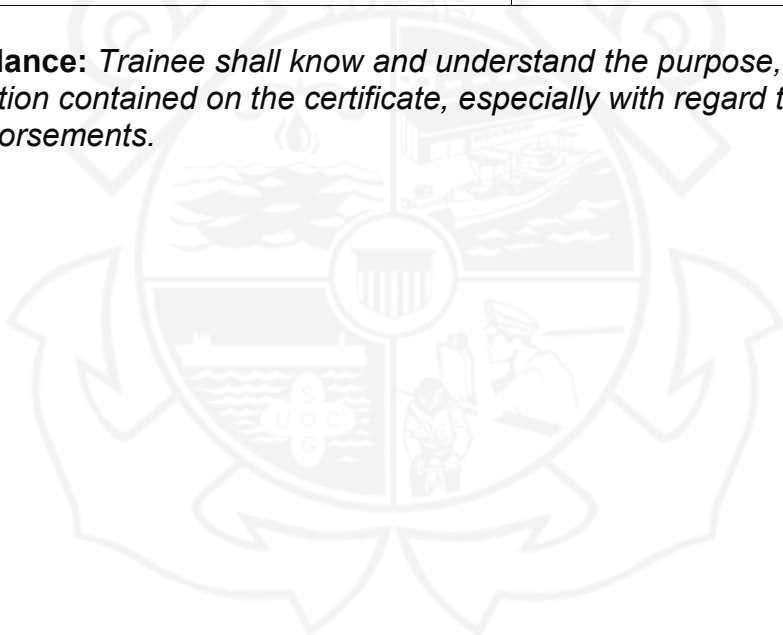
Condition: While validating certificates and documents

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
CD02.1	Verify presence of original	46 CFR 67.9(c) 46 CFR 67.313	
CD02.2	Verify contact information is correct	46 CFR 67.321	
CD02.3	Verify endorsement(s) for current service(s)	46 CFR 67.17 46 CFR 67.19	
CD02.4	Verify validity	46 CFR 67.7 & .9 46 CFR 67.161	
CD02.5	Confirm renewal of endorsement	46 CFR 67.163	

Verifying Officer Guidance: Trainee shall know and understand the purpose, format, contents and how to use the information contained on the certificate, especially with regard to issuance, periods of validity and proper endorsements.



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

Certificates and Documents (CD)

Deck Barge

Task: BI-CD03 Examine Dangerous Cargo Manifest

Condition: *During cargo environmental control examination*

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

References: 1. Title 49, Code of Federal Regulations Part 176 Carriage by Vessel

Steps		References	Initials
CD03.1	Verify presence	49 CFR 176.30	
CD03.2	Verify contents	49 CFR 176.30	
CD03.3	Confirm location of dangerous cargo with stowage plan	49 CFR 176.30	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of document requirements.*



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

Certificates and Documents (CD)

Tank Barge

Task: BI-CD04 Examine maintenance and service records (fire fighting)

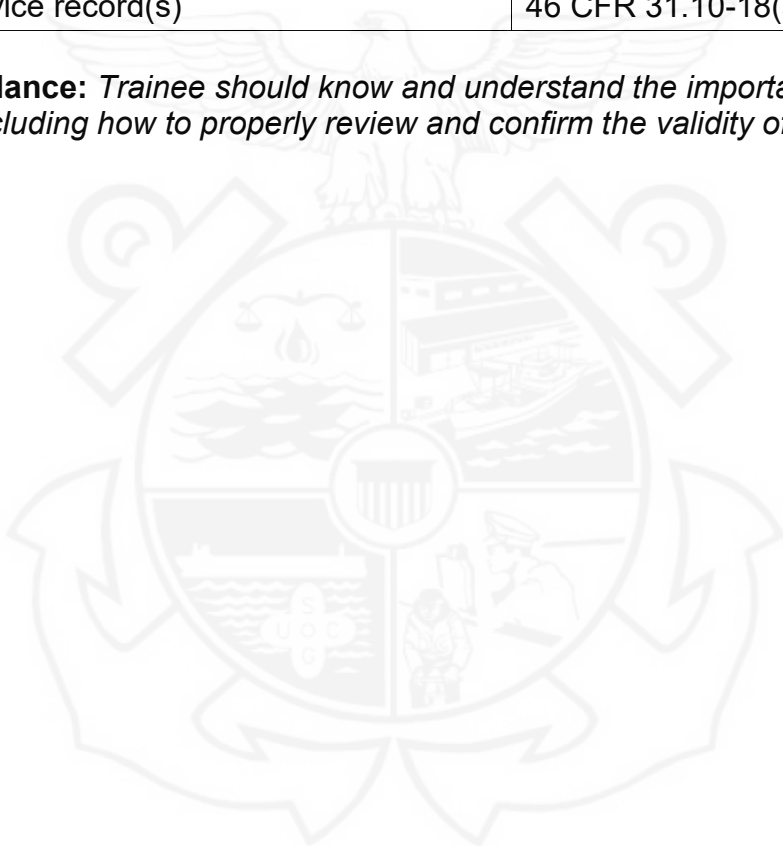
Condition: While validating certificates and documents

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

References: 1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification

Steps		References	Initials
CD04.1	Verify presence	46 CFR 31.10-18(a)	
CD04.2	Review service record(s)	46 CFR 31.10-18(a)	

Verifying Officer Guidance: Trainee should know and understand the importance of maintenance and service records including how to properly review and confirm the validity of a third party servicing report.



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

Certificates and Documents (CD)**Tank Barge****Task:** BI-CD05 Review Vessel Security Plan (VSP)**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 104 Maritime Security: Vessels
2. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations

Steps		References	Initials
CD05.1	Verify applicability and responsibility of company and crew	33 CFR 104.105, .200-220	
CD05.2	Verify approval	33 CFR 104.400 & .410	
CD05.3	Verify completion of Declarations of Security (DoS)	33 CFR 104.255	
CD05.4	Verify completion vessel drills and company exercise	33 CFR 104.230 & .235	
CD05.5	Review required security records	33 CFR 104.235	
CD05.6	Verify Vessel Security Officer qualifications and duties for manned and unmanned barges	46 CFR 35.05-15 33 CFR 104.215 33 CFR 104.290 & 415	

Verifying Officer Guidance: *Trainee shall know and understand the purpose, format, contents and how to use the information contained on the certificate, especially with regard to issuance, periods of validity and proper endorsements.***Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

Certificates and Documents (CD)

Tank Barge

Task: BI-CD06 Examine stability letter, book and loading criteria

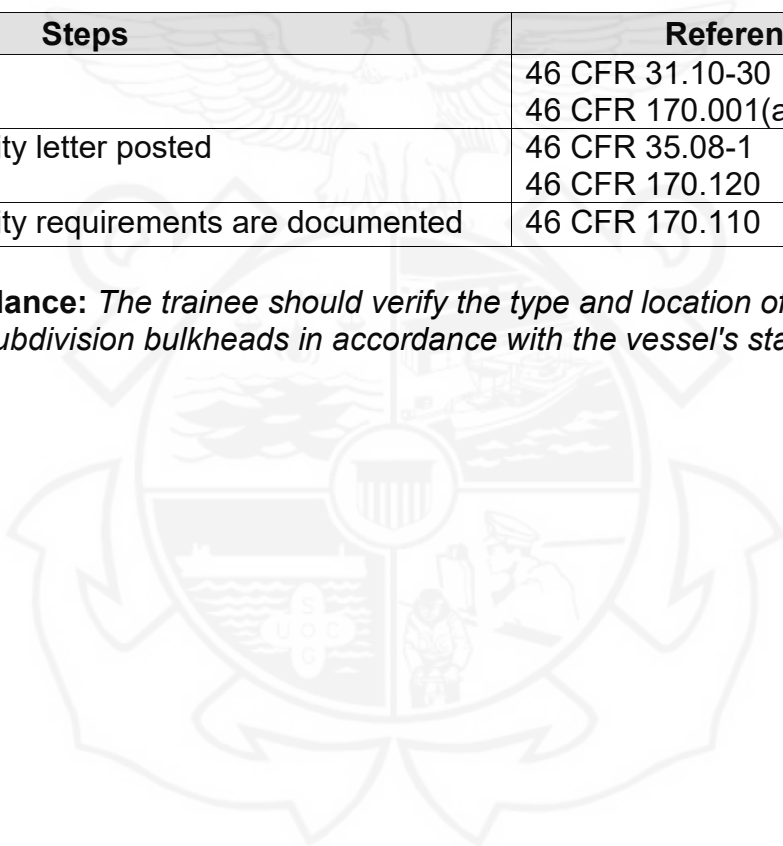
Condition: While validating certificates and documents

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 3. Title 46, Code of Federal Regulations Part 170 Stability Requirements for All Inspected Vessels

Steps		References	Initials
CD06.1	Parent cite	46 CFR 31.10-30 46 CFR 170.001(a)	
CD06.2	Verify stability letter posted	46 CFR 35.08-1 46 CFR 170.120	
CD06.3	Verify stability requirements are documented	46 CFR 170.110	

Verifying Officer Guidance: *The trainee should verify the type and location of fixed ballast and the location of watertight subdivision bulkheads in accordance with the vessel's stability documentation.*



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

Certificates and Documents (CD)

Tank Barge

Task: BI-CD07 Reviewing loading information

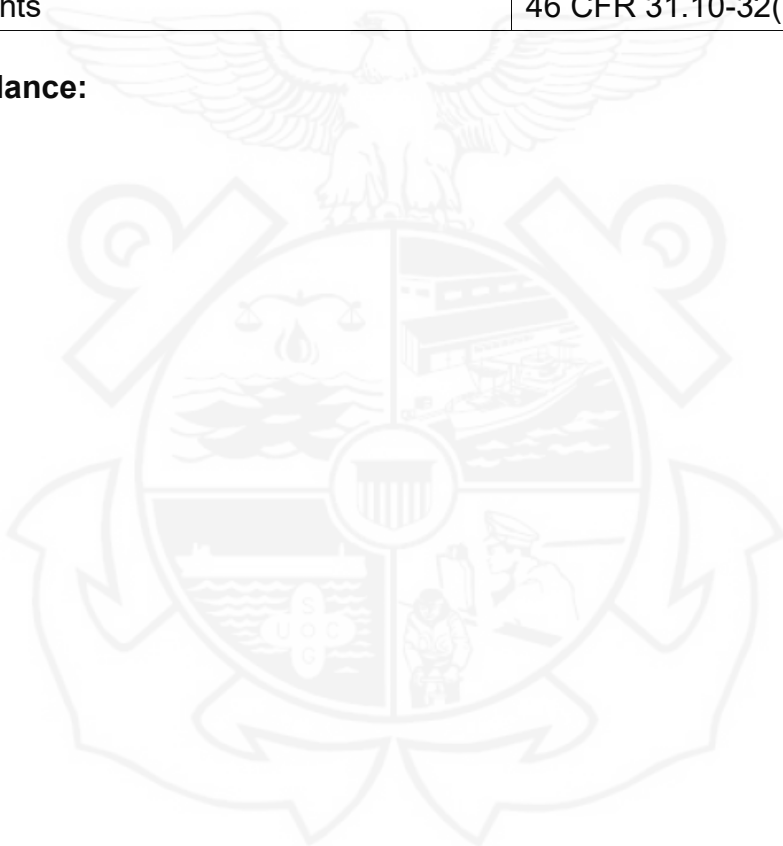
Condition: While validating certificates and documents

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

References: 1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification

Steps		References	Initials
CD07.1	Verify presence	46 CFR 31.10-32(b)	
CD07.2	Verify contents	46 CFR 31.10-32(b)	

Verifying Officer Guidance:



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

Task: BI-SD01 Review Vessel Security Plan (VSP) or Alternate Security Plan (ASP)

Condition: During security compliance inspection

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

- References:**
1. Title 33, Code of Federal Regulations Part 101 Maritime Security: General
 2. Title 33, Code of Federal Regulations Part 104 Maritime Security: Vessels
 3. NVIC 04-03 Guidance for Verification of Vessel Security Plans on Domestic Vessels Chs-1, 2 & 3
 4. NVIC 10-04 Guidelines for Handling of Sensitive Security Information (SSI), Parts 1 and 2
 5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
SD01.1	Verify presence of approval letter for plan type	33 CFR 104.105, .120 & .140 33 CFR 101.120(b) & (c)	
SD01.2	Verify participation with sponsoring organizations	NVIC 04-03 Ch-1 Encl (6) 5. C.	
SD01.3	Verify plan is secured	33 CFR 104.400(c) ISPS Code A/9.7 NVIC 04-03 Ch-1 Encl (4)	
SD01.4	Examine contents	33 CFR 104.405	
SD01.5	Verify amendment(s)	33 CFR 104.415(a)	
SD01.6	Verify implementation	33 CFR 101.120(b)(2) 33 CFR 104.140(c) & 400(a)	
SD01.7	Verify security inspection/deficiency documentation	NVIC 10-04 Part 1 MSM II/A.2.C	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of plan format, purpose and how to use the information contained therein to confirm active compliance with the procedures outlined in the plan.

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

Security (Domestic) Inspection (SD)**Tank Barge****Task:** BI-SD02 Examine security records**Condition:** *During 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. NVIC 04-03 Guidance for Verification of Vessel Security Plans on Domestic Vessels Chs-1, 2 & 3

Steps		References	Initials
SD02.1	Verify record(s) of security training	33 CFR 104.235(b)(1)	
SD02.2	Verify presence of Declarations of Security (DoS)	33 CFR 104.255 & .235(b)(7) NVIC 04-03 Encl. 3 Section 10	
SD02.3	Verify record(s) of security drills	33 CFR 104.230 33 CFR 104.235(b)(2)	
SD02.4	Verify annual exercise has been conducted	33 CFR 104.235(b)(2)	
SD02.5	Verify record(s) of annual audit	33 CFR 104.235(b)(8)	
SD02.6	Verify VSA/SSA is reviewed and revalidated when VSP is submitted for reapproval or revisions	33 CFR 104.310 (c) NVIC 04-03 Encl (2), 2.C & 2.D	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of format, purpose and how to use the information contained therein to ensure active compliance.*

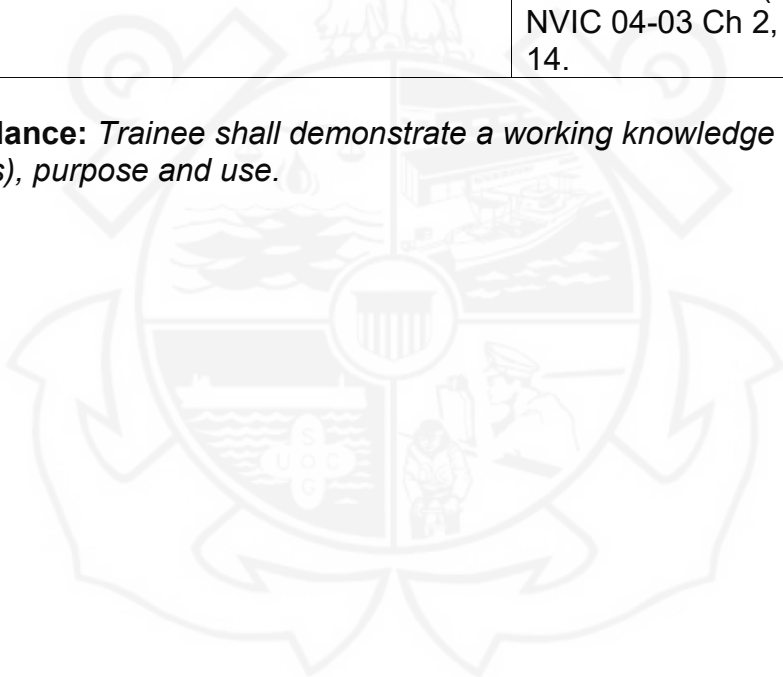
Inspector's Name: (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

Security (Domestic) Inspection (SD)**Tank Barge****Task:** BI-SD03 Examine security equipment**Condition:** *During security compliance inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 101 Maritime Security - General
 2. Title 33, Code of Federal Regulations Part 104 Maritime Security - Vessels
 3. NVIC 04-03 Guidance for Verification of Vessel Security Plans on Domestic Vessels Chs 1, 2 & 3

Steps		References	Initials
SD03.1	Verify location of Ship Security Alert System	33 CFR 101.310	
SD03.2	Verify maintenance records	33 CFR 104.235(b)(5) NVIC 04-03 Encl. 3 Section 10	
SD03.3	Verify operation	33 CFR 104.260(a) NVIC 04-03 Ch 2, Encl 5, Sec 14.	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function(s), purpose and use.*

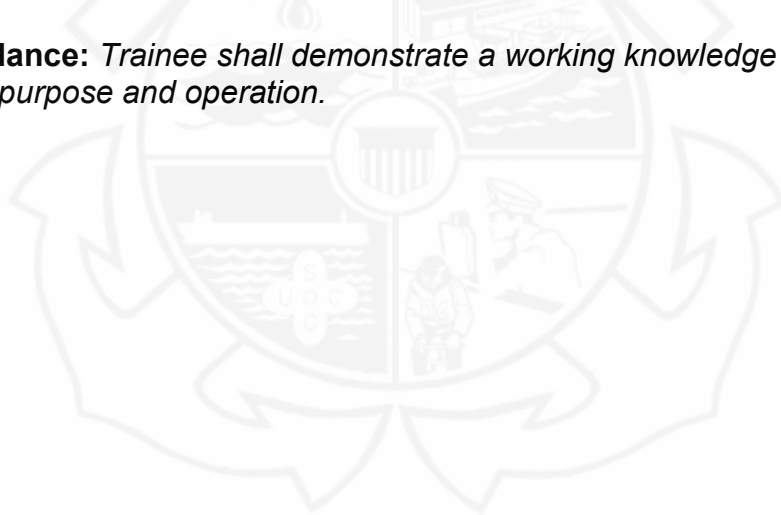
**Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

Task: BI-BN01 Inspect navigation lights & shapes**Condition:** *During bridge and navigation inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 33, Code of Federal Regulations Part 81 72 COLREGS: Implementing Rules
 2. Title 33, Code of Federal Regulations Part 82 72 COLREGS: Interpretative Rules
 3. Title 33, Code of Federal Regulations Part 83 Navigation Rules
 4. Title 33, Code of Federal Regulations Part 84 Inland Navigation Rules: Annex I: Positioning & Technical Details of Lights & Shapes
 5. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements

Steps		References	Initials
BN01.1	Parent cites	46 CFR 32.45-1	
BN01.2	Verify operation of navigation and anchor lights	33CFR 82.5 & 83.30	
BN01.3	Examine day shapes	33 CFR 83.20(d) 33 CFR 84.06	
BN01.4	Review Certificate of Alternative Compliance	33 CFR 81.9	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, function, purpose and operation.*



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

EMPLID:

Verifying Officer's Signature:

Date:

Task: BI-FF01 Inspect portable fire 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 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 34 Tank Vessels - Firefighting Equipment
 3. Title 46, Code of Federal Regulations Part 147 Hazardous Ships' Stores
 4. NFPA 10 Standard for Portable Fire Extinguishers, 2010 Edition
 5. NVIC 13-86 Use of Underwriters Laboratories (UL) Listed Fire Extinguishers
 6. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
FF01.1	Verify inspection/maintenance compliance	46 CFR 31.10-18(a) NFPA 10 Chap 7 & 8	
FF01.2	Examine condition of cylinders and hoses	46 CFR 31.10-18(a) NFPA 10 Chapter 7	
FF01.3	Verify type, quantity and locations	46 CFR 34.50-10 46 CFR 147.45(i)2 MSM II/C.2.I.3 & .4	
FF01.4	Verify markings	46 CFR 34.05-10(a) 46 CFR 34.50-25 & -40 NVIC 13-86, MSM II/C.2.I.3	
FF01.5	Confirm spare units	46 CFR Table 34.50-10(a)	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment components, functions, type approval and operation.

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

Electrical Systems Inspection (ES)

Tank Barge

Task: BI-ES01 Inspect main service generators and prime mover(s)

Condition: During machinery equipment inspection while engine(s) is/are running

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 58 Main & Auxiliary Machinery & Related Systems
 3. Title 46, Code of Federal Regulations Part 61 Marine Engineering - Periodic Tests & Inspections
 4. Title 46, Code of Federal Regulations Part 111 Electric Systems General Requirements
 5. ABS Rules for Building and Classing Steel Vessels, 2003 Part 4 Vessel Systems and Machinery

Steps		References	Initials
ES01.1	Parent cite	46 CFR 31.35-1	
ES01.2	Examine condition of components	46 CFR 61.20-3(a)	
ES01.3	Verify installation of machinery covers and guards	46 CFR 58.01-20	
ES01.4	Verify generator(s) nameplates are attached	46 CFR 111.12-5 ABS 4-2-1/1.1 ABS 4-8-3/3.11.8	
ES01.5	Verify set point and operation of prime mover over speed shut-down	46 CFR 111.12-1(b) ABS 4-2-1/7.5.3	
ES01.6	Verify set point and operation of prime mover lube oil shut-down	46 CFR 111.12-1(c)	
ES01.7	Verify power source requirements	46 CFR 111.10	
ES01.8	Examine generator protections	46 CFR 111.12-11	
ES01.9	Verify operation of reverse power relays	46 CFR 111.12-11(f)	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's components, function and safe operation. Refer to the appropriate ABS rules are applied based on type/characteristics.

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

Electrical Systems Inspection (ES)**Tank Barge****Task:** BI-ES02 Inspect electrical cables and fixtures**Condition:** *During machinery equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 111 Electric Systems General Requirements
 3. IEEE Std 45, Recommended Practice for Electrical Installations on Shipboard, 2002

Steps		References	Initials
ES02.1	Parent cite	46 CFR 31.35-1	
ES02.2	Verify supports for vertical and horizontal installations	46 CFR 111.60-5 IEEE 45-2002 25.5	
ES02.3	Verify radius of bends	IEEE 45-2002 25.6	
ES02.4	Verify no hazardous conditions exist	46 CFR 111.60-17 46 CFR 111.60-19	
ES02.5	Verify condition of outlets	46 CFR 111.79-1 46 CFR 111.81-1	
ES02.6	Verify use of flexible cords	46 CFR 111.60-13 IEEE 45-2002 24.6.1	
ES02.7	Verify material condition/installation of fixtures	46 CFR 111.75-20	
ES02.8	Verify wire type and conductor size	46 CFR 111.60-1 thru -4 & -11	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment nomenclature, function and safe operation.*

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

EMPLID:

Verifying Officer's Signature:

Date:

Electrical Systems Inspection (ES)

Tank Barge

Task: BI-ES03 Inspect components installed in designated hazardous locations

Condition: During machinery equipment inspection

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Cargo & Miscellaneous Vessels - General Provisions
 3. Title 46, Code of Federal Regulations Part 111 Electric Systems General Requirements

Steps		References	Initials
ES03.1	Parent cite	46 CFR 31.35-1 46 CFR 32.45-1	
ES03.2	Determine what is a hazardous location	46 CFR 111.105-1 46 CFR 111.105-41 & -43	
ES03.3	Verify equipment approval & integrity	46 CFR 111.105-3, -5 & -7 46 CFR 111.105-9 & -11 46 CFR 111.105-15	
ES03.4	Verify wiring methods & equipment used	46 CFR 111.105-17 & -19 46 CFR 111.105-21 & -27	
ES03.5	Verify installation on combustible liquid cargo carriers	46 CFR 111.105-29	
ES03.6	Verify installation on flammable or combustible cargo below 140 F degrees	46 CFR 111.105-31	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment components, function and safe operation. Trainee shall clearly state the risks that equipment installed in hazardous areas pose to the vessel and personnel.

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

Structural/Watertight Integrity Inspection (SW)**Tank Barge****Task:** BI-SW01 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 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 56 Piping Systems & Appurtenances

Steps		References	Initials
SW01.1	Parent cite	46 CFR 31.10-30	
SW01.2	Verify ability to seal	46 CFR 56.50-1	
SW01.3	Verify sealing material approvals	46 CFR 56.50-1	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment components, function and operation. Also, clearly state the reasons for maintaining effective watertight boundaries especially with regards to bulkhead/deck penetrations.*

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

Structural/Watertight Integrity Inspection (SW)**Tank Barge****Task:** BI-SW02 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 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
SW02.1	Examine for damage, wastage and fractures	46 CFR 32.60-1 MSM II/B.1.B.1	
SW02.2	Verify no unauthorized repairs	46 CFR 31.10-25	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of vessel scantling nomenclature.*

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

EMPLID:
Verifying Officer's Signature:
Date:

Pollution Prevention Inspection (PP)**Tank Barge****Task:** BI-PP01 Inspect deck 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 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels
 2. Title 33, Code of Federal Regulations Part 156 Oil & Hazardous Material Transfer Operations

Steps		References	Initials
PP01.1	Verify adequate containment	33 CFR 155.310(a) 33 CFR 156.120(n)	
PP01.2	Verify adequate peripheral cargo deck coamings	33 CFR 155.310(c)(4) 33 CFR 156.120(n)	
PP01.3	Verify means of drainage	33 CFR 155.310(a)(2) 33 CFR 156.120(o)	
PP01.4	Verify mechanical means of closing drains or scuppers	33 CFR 155.310(a)(3) 33 CFR 156.120(o)	

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

Pollution Prevention Inspection (PP)

Tank Barge

Task: BI-PP02 Inspect pollution prevention equipment

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 33, Code of Federal Regulations Part 156 Oil & Hazardous Material Transfer Operations
 4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
PP02.1	Verify communication between participants in transfer operations	33 CFR 155.785	
PP02.2	Verify transfer hoses tested and marked	33 CFR 155.800 33 CFR 154.500 MSM II/B.6.E.8	
PP02.3	Verify locations of pollution/MARPOL placards	33 CFR 155.450	
PP02.4	Verify condition of cargo handling equipment	33 CFR 155.310 33 CFR 156.130 & 170(1)	
PP02.5	Verify condition and size of containment	33 CFR 155.310 & .320 MSM II/B.6.D.6	
PP02.6	Verify containment closures	33 CFR 155.310 33 CFR 156.120(n) & (o)	
PP02.7	Verify sufficient deck lighting	33 CFR 155.790	
PP02.8	Verify signed copies of Declaration of Inspection are present	33 CFR 156.150(f) MSM II/B.6.E.6	

Verifying Officer Guidance: *Trainee shall demonstrate working knowledge of pollution prevention equip requirements (33 CFR 155.100 & MSM II/B.6.D.1). Portable radio devices used during transfer of flammable/combustible liquids must be intrinsically safe (Class 1, Div 1, Group D).*

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

Pollution Prevention Inspection (PP)

Tank Barge

Task: BI-PP03 Review fuel oil transfer procedures

Condition: *During pollution prevention inspection*

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

- References:**
- Title 33, Code of Federal Regulations Part 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels
 - COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
PP03.1	Verify contents of PIC designation letter and endorsement	33 CFR 155.700, .710 & .715	
PP03.2	Verify procedure are posted or available	33 CFR 155.720 33 CFR 155.740(c) MSM II B.6.D.16	
PP03.3	Verify contents of procedures	33 CFR 155.750	
PP03.4	Verify amendments to procedures	33 CFR 155.760	

Verifying Officer Guidance:



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

Cargo Systems Inspection (CS)

Tank Barge

Task: BI-CS01 Inspect cargo tank venting arrangements

Condition: *During cargo environmental control inspection*

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

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 39 Tank Vessels - Vapor Control Systems
 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
CS01.1	Verify material condition	46 CFR 32.55-25	
CS01.2	Verify condition of flame screens and arresters	46 CFR 32.20-10 MSM II/F.3.F.17	
CS01.3	Verify height of tank venting system	46 CFR 32.55-25	
CS01.4	Verify horizontal distance from air intakes and openings	46 CFR 32.55-25(b)	
CS01.5	Verify operation of overpressure/vacuum protection	46 CFR 32.20-5 46 CFR 32.20-10 46 CFR 39.2011	

Verifying Officer Guidance: *Maintenance of the pressure vacuum valves is not directly addressed in the regulations. The vessel's Safety Management System should address the inspection intervals and routine maintenance which is developed from the manufacturer's recommendations.*

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

Cargo Systems Inspection (CS)

Tank Barge

Task: BI-CS02 Inspect liquid cargo transfer systems

Condition: During cargo systems 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 33, Code of Federal Regulations Part 156 Oil & Hazardous Material Transfer Operations
 4. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 5. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 6. Title 46, Code of Federal Regulations Parts 39 & 56

Steps		References	Initials
CS02.1	Examine condition of piping and hose(s)	46 CFR 32.50-15 33 CFR 155.800	
CS02.2	Verify pressure gage and operation of cargo pump remote shutdown devices	46 CFR 32.50-5 & -30 33 CFR 155.780 33 CFR 156.170(c)(5)	
CS02.3	Verify hoses are marked	33 CFR 155.800 33 CFR 154.500(e) & (f) 33 CFR 155.785(d)	
CS02.4	Verify hose and hose assembly	46 CFR 32.50-30 33 CFR 155.800 33 CFR 154.500 (a)-(d)	
CS02.5	Verify transfer equipment tests and inspections	33 CFR 156.170(c)(1)	
CS02.6	Verify warning signals and signs	46 CFR 35.30-1	
CS02.7	Verify operation of visual indicators	46 CFR 39.2009 46 CFR 56.50-1(g)(2)(iii)	
CS02.8	Verify means of sounding tanks and closing tube	46 CFR 56.50-90(a) & (e)	

Verifying Officer Guidance: Trainee should use the vessel's transfer procedures to assist with this examination and understand the different types of gauging (sounding) types defined in 46 CFR 151.15-10.

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

Cargo Systems Inspection (CS)

Tank Barge

Task: BI-CS03 Inspect Vapor Collection System (VCS)**Condition:** *During cargo systems inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

References:

1. Title 46, Code of Federal Regulations Part 39 Tank Vessels - Vapor Control Systems
2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
CS03.1	Verify electrically bonded	46 CFR 39.2001(c)	
CS03.2	Examine drain lines	46 CFR 39.2001(d)	
CS03.3	Verify system can be isolated from Inert Gas System	46 CFR 39.2001(e)	
CS03.4	Verify presence of isolation valve and indicator	46 CFR 39.2001(g)	
CS03.5	Verify markings on vapor piping	46 CFR 39.2001(h)	
CS03.6	Verify presence of flange stud	46 CFR 39.2001(j)	
CS03.7	Verify closed gauging system	46 CFR 39.2003(a) & (b)	
CS03.8	Verify installation of pressure sensing indicating device	46 CFR 39.2015	

Verifying Officer Guidance: *The Vapor Collection System approval letter and/or manual should also indicate the vessel's transfer procedures have been reviewed to include a description of the VCS on the vessel outlined in 33 CFR 155.750(d).*

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

EMPLID:

Verifying Officer's Signature:

Date:

Cargo Systems Inspection (CS)**Tank Barge****Task:** BI-CS04 Inspect tank liquid high level and overfill protection**Condition:** *During cargo systems 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 46, Code of Federal Regulations Part 39 Tank Vessels - Vapor Control Systems

Steps		References	Initials
CS04.1	Verify overfill alarms	33 CFR 155.480(b)(2) 46 CFR 39.2009(a)	
CS04.2	Verify high level alarm settings	33 CFR 155.480(b)(2) 46 CFR 39.2009(a)(2)	
CS04.3	Witness operational test of audible and visual alarm indicators	33 CFR 155.480(b)(2) 46 CFR 39.2009(a)(2)	
CS04.4	Verify high level alarm markings	46 CFR 39.2009(a)(2)(ix)(B)	
CS04.5	Verify tank overfill alarm markings	46 CFR 39.2007(d) 46 CFR 39.2009(a)(2)(ix)(B)	

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

Cargo Systems Inspection (CS)

Deck Barge

Task: BI-CS05 Inspect packaged hazardous material(s)

Condition: While on deck walk

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

- References:**
1. Title 49, Code of Federal Regulations Part 172 Hazardous Materials Regulations - Hazardous Materials Table, Special Provisions, Communications, Emergency Response Information, Training Requirements & Security Plans
 2. Title 49, Code of Federal Regulations Part 176 Carriage by Vessel
 3. International Maritime Dangerous Goods (IMDG) Code

Steps		References	Initials
CS05.1	Review Dangerous Cargo Manifest	49 CFR 176.30	
CS05.2	Verify packaging	49 CFR 172.101 Table IMDG Code Vol. I & II	
CS05.3	Verify marked and labeled	49 CFR 172.300 - .338 49 CFR 172.400 - .450 IMDG Code I/5	
CS05.4	Verify placarding	49 CFR 172.500 - .560 IMDG Code I/5	
CS05.5	Verify stowage and segregation	49 CFR 176.57 - .78 49 CFR 176.80 - .84 IMDG Code I/7	

Verifying Officer Guidance: Trainee shall demonstrate a working ability to utilize tables in regulations. 49 CFR 176.11(a) allows the use of the IMDG code with some limitations.

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

Machinery Equipment Inspection (MI)

Tank Barge

Task: BI-MI01 Inspect main and auxiliary machinery and related systems

Condition: During machinery equipment inspection

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

- References:**
1. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 2. Title 46, Code of Federal Regulations Part 56 Piping Systems & Appurtenances
 3. Title 46, Code of Federal Regulations Part 58 Main & Auxiliary Machinery & Related Systems
 4. Title 46, Code of Federal Regulations Part 61 Marine Engineering - Periodic Tests & Inspections
 5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
MI01.1	Parent cite	46 CFR 32.35-10	
MI01.2	Examine condition, installation and arrangements of system components	46 CFR 58.05-1 46 CFR 61.20-3(a) MSM II/B.1.F.4	
MI01.3	Verify installation of protective covers or guards	46 CFR 58.01-20	
MI01.4	Verify means of stopping machinery	46 CFR 32.50-35 46 CFR 58.01-25 46 CFR 61.20-3(b)	
MI01.5	Examine inlet and discharge piping	46 CFR 56.50-95(d)(1) & (2)	
MI01.6	Verify machinery space ventilation	46 CFR 58.01-45	

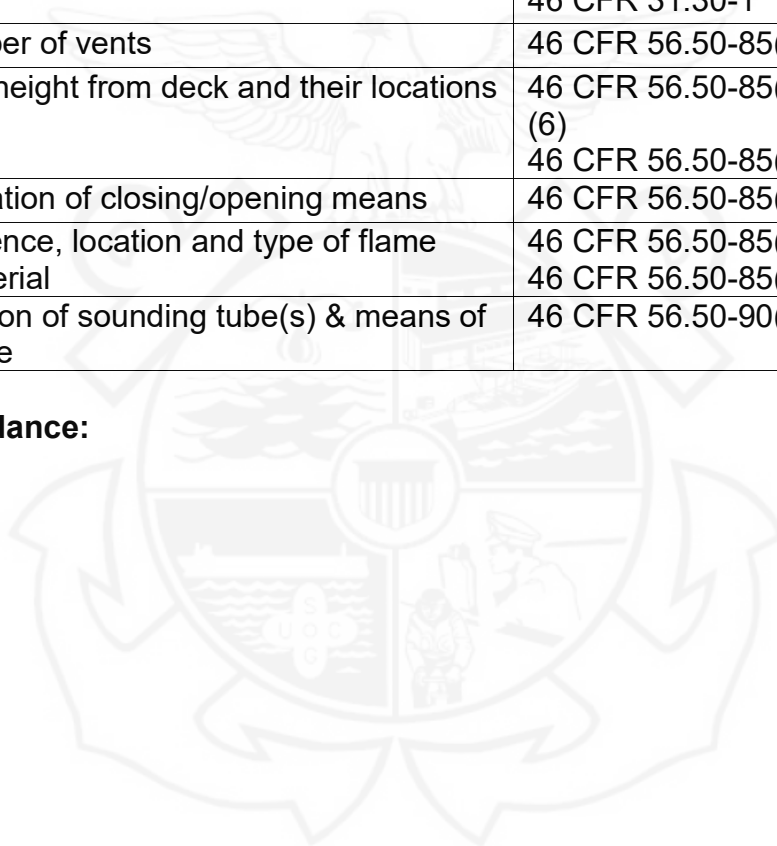
Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's arrangements, components and safe operation based on level of automation. Also, have a basic understanding of engineering principles and concepts.

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

Machinery Equipment Inspection (MI)**Tank Barge****Task:** BI-MI02 Inspect fuel tank components**Condition:** *During machinery equipment inspection and/or on deck walk***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 56 Piping Systems & Appurtenances

Steps		References	Initials
MI02.1	Parent cite	46 CFR 31.30-1	
MI02.2	Verify number of vents	46 CFR 56.50-85(a)(2)	
MI02.3	Verify vent height from deck and their locations	46 CFR 56.50-85(a)(4), (5) & (6) 46 CFR 56.50-85(b)	
MI02.4	Verify operation of closing/opening means	46 CFR 56.50-85(a)(7)	
MI02.5	Verify presence, location and type of flame screen material	46 CFR 56.50-85(a)(8) 46 CFR 56.50-85(a)(9)	
MI02.6	Verify location of sounding tube(s) & means of capping pipe	46 CFR 56.50-90(a)-(e)	

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

Machinery Equipment Inspection (MI)**Tank Barge****Task:** BI-MI03 Inspect fired thermal fluid heaters**Condition:** *During machinery equipment inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 61 Marine Engineering - Periodic Tests & Inspections
 2. Manufacturer's Operation Manual

Steps		References	Initials
MI03.1	Verify ready for inspection	46 CFR 61.30-5 Operations Manual	
MI03.2	Witness hydrostatic test	46 CFR 61.30-10 Operations Manual	
MI03.3	Examine visually	46 CFR 61.30-15 Operations Manual	
MI03.4	Verify prepurge and burner ignition sequence	46 CFR 61.30-20 Operations Manual	
MI03.5	Verify operation of combustion controls	46 CFR 61.30-20 Operations Manual	
MI03.6	Verify operation of limits, flow and fluid controls	46 CFR 61.30-20 Operations Manual	
MI03.7	Verify operation of high temperature control	46 CFR 61.30-20 Operations Manual	
MI03.8	Verify operation of postpurge control	46 CFR 61.30-20 Operations Manual	
MI03.9	Verify operation of flame safe-guard	46 CFR 61.30-20 Operations Manual	

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

Topside Equipment Inspection (TE)**Tank Barge****Task:** BI-TE01 Inspect freeing ports and scuppers**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 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 35 Tank Vessels - Operations
 3. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 4. Title 46, Code of Federal Regulations Part 174 Subdivision & Stability - Specific Vessel Types

Steps		References	Initials
TE01.1	Parent cite	46 CFR 31.25-1	
TE01.2	Verify no modifications	46 CFR 31.10-30 46 CFR 174.215 46 CFR 42.15-60 & -70	
TE01.3	Verify unobstructed	46 CFR 35.35-10 46 CFR 42.15-60 & -70	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components, functions and operation.*

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

EMPLID:

Verifying Officer's Signature:

Date:

Internal Structural Examination (IS)

Tank Barge

Task: BI-IS01 Verify confined spaces are safe for entry

Condition: Prior to entry of any confined spaces during inspection or examining repair work

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. COMDTINST M5100.47C Safety and Environmental Health Manual
 3. NFPA 306 Standard for the Control of Gas Hazards on Vessels, 2009
 4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
IS01.1	Review Marine Chemist Certificate	29 CFR 1915.12(f) CIM 5100.47C 13.B.3 NFPA 306/4.3	
IS01.2	Verify Competent Person has maintained Marine Chemist Certificate	29 CFR 1915.15 CIM 5100.47C 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	29 CFR 1915.13(b)(3)	
IS01.5	Verify condition of space access point	29 CFR 1915.76	
IS01.6	Verify compliance with competent person program	MSM II/A.5.H.6	

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

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

Internal Structural Examination (IS)**Tank Barge****Task:** BI-IS02 Inspect internal structures and cargo tanks**Condition:** *During Internal structural inspection***Standard:** *In compliance with applicable policies, laws, regulations, and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 3. Title 46, Code of Federal Regulations Part 56 Piping Systems & Appurtenances
 4. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
 5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 6. ABS Rules for Building and Classing Steel Vessels, 1995 Part 7 Survey After Construction

Steps		References	Initials
IS02.1	Parent cite	46 CFR 31.10-1 & -25-1	
IS02.2	Examine internal structures	46 CFR 31.10-20(b) & -21(c) 46 CFR 42.03-5(a)(1) ABS 7-3-1/1	
IS02.3	Verify condition of sounding tube striker plate in cargo tank(s)	46 CFR 56.50-90(e)	
IS02.4	Examine coamings, closures and other fittings	46 CFR 42.09-25(b)(2) MSM II/B.3.B	
IS02.5	Verify wastage discovered is within acceptable limits	ABS 7-A-4/27 NVIC 07-68 III(C) NVIC 07-68 III(H)-(N)	
IS02.6	Verify unsatisfactory condition(s) are resolved	46 CFR 42.09-45	

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:

Welding Repair Inspection (WR)**Tank Barge****Task:** BI-WR01 Evaluate structural repair proposals**Condition:** *During examination of repair work***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 2 Vessel Inspections
 2. Title 46, Code of Federal Regulations Parts 31, 32 & 42
 3. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
 4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 5. ABS Rules for Building and Classing Steel Vessels, 1995 Part 2 Materials and Welding
 6. ABS Rules for Building and Classing Steel Vessels, 1995 Part 7 Survey After Construction

Steps		References	Initials
WR01.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
WR01.2	Evaluate extent of damage and/or wastage/corrosion	46 CFR 42.09-50 ABS 7-A-4/17 NVIC 07-68 IV	
WR01.3	Review repair proposal	46 CFR 42.09-50 & ABS 7-A-4/29 MSM II/A.1.F.2.a NVIC 07-68 IV	
WR01.4	Verify repair materials	46 CFR 42.09-50(c) ABS 7-A-4/29 ABS 2-1-1/7	
WR01.5	Verify welding procedures	46 CFR 42.09-50(c) 46 CFR 2.75-70 ABS 2-4-1/1.3	

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

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

Welding Repair Inspection (WR)**Tank Barge****Task:** BI-WR02 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 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Parts 42 & 57
 4. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
 5. ABS Rules for Building and Classing Steel Vessels, Part 2 Materials and Welding
 6. American Welding Society Guide for Steel Hull Welding - ANSI/AWS D3.5-93

Steps		References	Initials
WR02.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
WR02.2	Examine material and verify it is fitted to approved joint detail	46 CFR 42.09-50 ANSI/AWS D3.5-93 NVIC 07-68 IV & V	
WR02.3	Verify materials (base, filler, gas)	46 CFR 57.02-5 ABS 2-1-1/1.1	
WR02.4	Verify welding processes	ABS 2-4-1/1.7	

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 7-68.*

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

Welding Repair Inspection (WR)**Tank Barge****Task:** BI-WR03 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. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
 4. ABS Rules for Building and Classing Steel Vessels, 1995 Part 2 Materials and Welding
 5. American Welding Society Guide for Steel Hull Welding - ANSI/AWS D3.5-93

Steps		References	Initials
WR03.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
WR03.2	Examine welds for defects (discontinuity)	ABS 2-4-1/5.9 NVIC 07-68 V(G)(2)	
WR03.3	Verify weld sequencing	ANSI/AWS D3.5-93 NVIC 07-68 V(F)	
WR03.4	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:

Welding Repair Inspection (WR)**Tank Barge****Task:** BI-WR04 Inspect welds**Condition:** *During final visual examination of steel repair work***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
 4. ABS Rules for Building and Classing Steel Vessels, 1995 Part 2 Materials and Welding
 5. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2014

Steps		References	Initials
WR04.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
WR04.2	Examine welds for uniformity and reinforcement	ABS 2-4-1/5.15.1 NVIC 07-68 V	
WR04.3	Examine welds for defects (discontinuity)	ABS 2-4-1/5.15.1 NVIC 07-68 V(H)	
WR04.4	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	
WR04.5	Verify workmanship through an nondestructive test	ABS 2-4-1/5.15.2 ABS NDT Guide	

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:

Welding Repair Inspection (WR)**Tank Barge****Task:** BI-WR05 Verify welding Procedure Qualification Record(s) (PQR)**Condition:** *During examination of repair work on hull that require a qualified welder***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 2 Vessel Inspections
 2. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 3. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 4. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls

Steps		References	Initials
WR05.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
WR05.2	Confirm need for qualified welding procedure	46 CFR 2.75-70 NVIC 07-68	
WR05.3	Verify variables on PQR(s) to the Welding Procedure Specification (WPS(s))	46 CFR 2.75-70	
WR05.4	Verify tests and results	46 CFR 2.75-70	

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.*

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

EMPLID:

Verifying Officer's Signature:

Date:

Welding Repair Inspection (WR)**Tank Barge****Task:** BI-WR06 Verify welder is qualified to perform repair work**Condition:** *During examination of repair work***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 2 Vessel Inspections
 2. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 3. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements

Steps		References	Initials
WR06.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
WR06.2	Confirm need for qualified welding procedure	46 CFR 2.75-70	
WR06.3	Verify Welder Performance Qualification (WPQ) is valid	46 CFR 2.75-70	
WR06.4	Verify variables on WPQs	46 CFR 2.75-70	
WR06.5	Verify tests are satisfactory	46 CFR 2.75-70	

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.*

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

EMPLID:

Verifying Officer's Signature:

Date:

Nondestructive Testing Inspection (NT)**Tank Barge**

Task: BI-NT01 Inspect 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. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. ABS Rules for Building and Classing Steel Vessels, 2018 Part 2 Materials and Welding
 4. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2018

Steps		References	Initials
NT01.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
NT01.2	Verify technician's qualification and certification	ABS 2-4-1/5.17 NDT Guide 4/5.3	
NT01.3	Verify application technique	NDT Guide 4/5.5	
NT01.4	Witness application procedures	ABS NDT Guide 4/5.7	
NT01.5	Witness visible penetrant examination	ABS NDT Guide 4/7.5	
NT01.6	Witness fluorescent penetrant examination	ABS NDT Guide 4/7.7	
NT01.7	Evaluate test results or technician's report	ABS NDT Guide 4/9 & .11	

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:

Nondestructive Testing Inspection (NT)

Tank Barge

Task: BI-NT02 Inspect 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. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. ABS Rules for Building and Classing Steel Vessels, 2018 Part 2 Materials and Welding
 4. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2018

Steps		References	Initials
NT02.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
NT02.2	Verify technician's qualification and certification	ABS 2-4-1/5.17 ABS NDT Guide 7/5.3	
NT02.3	Verify inspection technique	ABS NDT Guide 7/5.5	
NT02.4	Verify equipment and magnetic field strength	ABS NDT Guide 7/5.7.1 & .2	
NT02.5	Witness application of visible magnetic particles	ABS NDT Guide 7/5.7.3	
NT02.6	Witness application of fluorescent particles	ABS NDT Guide 7/5.7.4	
NT02.7	Witness technician examine/interpret readings	ABS NDT Guide 5/5.7 & 9	
NT02.8	Evaluate test results or review technician's report	ABS NDT Guide 5/5.7 & 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.*

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

Nondestructive Testing Inspection (NT)

Tank Barge

Task: BI-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. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. ABS Rules for Building and Classing Steel Vessels, 2018 Part 2 Materials and Welding
 4. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2018

Steps		References	Initials
NT03.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
NT03.2	Verify technician's qualification and certification	ABS 2-4-1/5.17 ABS NDT Guide 2/5.1	
NT03.3	Verify inspection technique	ABS NDT Guide 2/5.3	
NT03.4	Verify film identification markings	ABS NDT Guide 2/5.5	
NT03.5	Verify radiography quality level	ABS NDT Guide 2/5.7	
NT03.6	Verify Image Quality Indicator (IQI)	ABS NDT Guide 2/5.9	
NT03.7	Witness technician examine/interpret readings	ABS NDT Guide 2/5.15	
NT03.8	Review technician's report	ABS NDT Guide 2/9 & .11	

Verifying Officer Guidance: RAD detectors frequently go off when isotubes are being used. All USCG personnel in the area should be advised of this ahead of time for awareness and to ensure other/alternative personnel protection actions are taken as needed.

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

Nondestructive Testing Inspection (NT)**Tank Barge****Task:** BI-NT04 Verify nondestructive testing (NDT) using the ultrasonic method**Condition:** During inspection or after completion of a weld repair**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. ABS Rules for Building and Classing Steel Vessels, 2018 Part 2 Materials and Welding
 4. ABS Nondestructive Inspection of Hull Welds (NDT Guide), 2018

Steps		References	Initials
NT04.1	Parent cite	46 CFR 31.10-1 46 CFR 32.60-1	
NT04.2	Verify technician's qualification, certification and techniques	ABS 2-4-1/5.17 ABS NDT Guide 3/3	
NT04.3	Verify calibrate block's material and thickness	ABS NDT Guide 3/3.5	
NT04.4	Verify type of equipment/instrument used	ABS NDT Guide 3/3.7	
NT04.5	Verify equipment is calibrated	ABS NDT Guide 3/3.9	
NT04.6	Witness technician examine/interpret readings	ABS NDT Guide 3/3.11	
NT04.7	Evaluate test results or review technician's report	ABS NDT Guide 3/3.13	

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 as well as shear/L wave capabilities machines.

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

Nondestructive Testing Inspection (NT)**Tank Barge**

Task: BI-NT05 Inspect nondestructive testing (NDT) using the hydro-static method (Pressure Vessels)

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

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Part 54 Pressure Vessels
 4. Title 46, Code of Federal Regulations Part 61 Marine Engineering - Periodic Tests & Inspections

Steps		References	Initials
NT05.1	Parent cite	46 CFR 31.10-1 & .30-1 46 CFR 32.60	
NT05.2	Verify requirement for test	46 CFR 54.10-10(a)	
NT05.3	Verify ready for testing	46 CFR 54.10-10(b)	
NT05.4	Verify air has been purged	46 CFR 54.10-10(b)	
NT05.5	Verify piping components are isolated	46 CFR 54.10-10(b) 46 CFR 61.10	
NT05.6	Verify test pressure	46 CFR 54.10-10(b) 46 CFR 54.10-20	
NT05.7	Verify test pressure is attained and maintained	46 CFR 54.10-10(c)	
NT05.8	Witness test	46 CFR 54.10-10(c)	

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:

Nondestructive Testing Inspection (NT)**Tank Barge**

Task: BI-NT06 Inspect nondestructive testing (NDT) using the hydro-static method (Piping Systems)

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

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Part 56 Piping Systems & Appurtenances

Steps		References	Initials
NT06.1	Parent cite	46 CFR 31.10-1 & .30-1 46 CFR 32.60	
NT06.2	Verify test pressure of nonstandard piping components	46 CFR 56.97-5	
NT06.3	Verify system is ready for testing	46 CFR 56.97-25	
NT06.4	Verify air has been purged	46 CFR 56.97-30(a)	
NT06.5	Verify test medium	46 CFR 56.97-30(b)	
NT06.6	Verify piping components are isolated	46 CFR 56.97-30(c)	
NT06.7	Verify test pressure	46 CFR 56.97-30(e) & (f)	
NT06.8	Witness test	46 CFR 56.97-30(d)	
NT06.9	Verify test pressure is attained and maintained	46 CFR 56.97-30(g)	
NT06.10	Verify pressures for Installation tests	46 CFR 56.97-40	

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:

Nondestructive Testing Inspection (NT)**Tank Barge**

Task: BI-NT07 Inspect nondestructive testing (NDT) using the hydro-static method (Tanks and Bulkheads)

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

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. ABS Rules for Building and Classing Steel Vessels, 2018 Part 3 Hull Construction and Equipment

Steps		References	Initials
NT07.1	Parent cite	46 CFR 31.10-1 & .30-1 46 CFR 32.60	
NT07.2	Verify tanks/space is ready for testing	ABS 3-7-1/3.5.4(a) & (b)	
NT07.3	Verify test medium being used	ABS 3-7-1/3.5.4(a) & (b)	
NT07.4	Verify piping components are isolated	ABS 3-7-1/3.5.4(a) & (b)	
NT07.5	Verify test pressure	ABS 3-7-1/3.5.4(a) & (b)	
NT07.6	Witness test	ABS 3-7-1/3.5.4(a) & (b)	

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:

Nondestructive Testing Inspection (NT)**Tank Barge**

Task: BI-NT08 Inspect nondestructive testing (NDT) using the pneumatic method (Pressure Vessels)

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

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Part 54 Pressure Vessels

Steps		References	Initials
NT08.1	Parent cite	46 CFR 31.10-1 & .30-1 46 CFR 32.60	
NT08.2	Determine suitability for test	46 CFR 54.10-15(a) & (b)	
NT08.3	Ensure all safety precaution are taken	46 CFR 54.10-15(g)	
NT08.4	Verify test pressure	46 CFR 54.10-15(c)	
NT08.5	Witness gradual pressure increase	46 CFR 54.10-15(d)	
NT08.6	Witness test	46 CFR 54.10-15(e)	

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

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

EMPLID:

Verifying Officer's Signature:

Date:

Nondestructive Testing Inspection (NT)**Tank Barge**

Task: BI-NT09 Inspect nondestructive testing (NDT) using the pneumatic method (Piping Systems)

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

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. Title 46, Code of Federal Regulations Part 56 Piping Systems & Appurtenances

Steps		References	Initials
NT09.1	Parent cite	46 CFR 31.10-1 & .30-1 46 CFR 32.60	
NT09.2	Verify test medium and temperature	46 CFR 56.97-35(b)	
NT09.3	Verify piping components are isolated	46 CFR 56.97-35(c)	
NT09.4	Verify test pressure	46 CFR 56.97-35(f) & (g)	
NT09.5	Witness gradual pressure increase	46 CFR 56.97-35(d)	
NT09.6	Verify test pressure is attained and maintained	46 CFR 56.97-35(h)	
NT09.7	Witness test	46 CFR 56.97-35(e)	

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

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

EMPLID:

Verifying Officer's Signature:

Date:

Nondestructive Testing Inspection (NT)

Tank Barge

Task: BI-NT10 Inspect nondestructive testing (NDT) using the tank air test (pneumatic) method (Tanks & Bulkheads)

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

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. ABS Rules for Building and Classing Steel Vessels, 2018 Part 3 Hull Construction and Equipment

Steps		References	Initials
NT10.1	Parent cite	46 CFR 31.10-1 & .30-1 46 CFR 32.60	
NT10.2	Verify tanks/space is ready for testing	ABS 3-7-1/3.5.4(d)	
NT10.3	Verify piping components are isolated	ABS 3-7-1/3.5.4(d)	
NT10.4	Verify test pressure	ABS 3-7-1/3.5.4(d)	
NT10.5	Verify presence of leak indicating solution	ABS 3-7-1/3.5.4(d)	
NT10.6	Verify calibration of means to measure pressure	ABS 3-7-1/3.5.4(d)	
NT10.7	Witness initial test	ABS 3-7-1/3.5.4(d)	
NT10.8	Witness secondary test	ABS 3-7-1/3.5.4(d)	

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

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

EMPLID:

Verifying Officer's Signature:

Date:

Nondestructive Testing Inspection (NT)**Tank Barge**

Task: BI-NT11 Inspect nondestructive testing (NDT) using the hose test method (Tanks & Bulkheads)

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

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. ABS Rules for Building and Classing Steel Vessels, 2018 Part 3 Hull Construction and Equipment

Steps		References	Initials
NT11.1	Parent cite	46 CFR 31.10-1 & .30-1 46 CFR 32.60	
NT11.2	Verify tanks/space is ready for testing	ABS 3-7-1/3.5.4(c)	
NT11.3	Verify nozzle size	ABS 3-7-1/3.5.4(c)	
NT11.4	Verify water pressure	ABS 3-7-1/3.5.4(c)	
NT11.5	Verify nozzle distance from joints/seams during test	ABS 3-7-1/3.5.4(c)	
NT11.6	Witness test	ABS 3-7-1/3.5.4(c)	

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

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

EMPLID:

Verifying Officer's Signature:

Date:

Nondestructive Testing Inspection (NT)**Tank Barge**

Task: BI-NT12 Inspect nondestructive testing (NDT) using the vacuum box method (Tanks & Bulkheads)

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

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 3. ABS Rules for Building and Classing Steel Vessels, 2018 Part 3 Hull Construction and Equipment

Steps		References	Initials
NT12.1	Parent cite	46 CFR 31.10-1 & .30-1 46 CFR 32.60	
NT12.2	Verify tanks/space is ready for testing	ABS 3-7-1/3.5.4(f)	
NT12.3	Verify condition of gauge and injector	ABS 3-7-1/3.5.4(f)	
NT12.4	Verify presence of leak indicating solution	ABS 3-7-1/3.5.4(f)	
NT12.5	Verify test gauge pressure	ABS 3-7-1/3.5.4(f)	
NT12.6	Witness test	ABS 3-7-1/3.5.4(f)	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of vacuum box methods and procedures.

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

EMPLID:

Verifying Officer's Signature:

Date:

Hull Inspection (HI)

Tank Barge

Task: BI-HI01 Inspect hull

Condition: *During drydock inspection*

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

- References:**
1. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 3. Title 46, Code of Federal Regulations Part 61 Marine Engineering - Periodic Tests & Inspections
 4. NVIC 07-68 Notes on Inspection and Repair of Steel Hulls
 5. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 6. ABS Rules for Building and Classing Steel Vessels, Part 7 Survey After Construction

Steps		References	Initials
HI01.1	Examine for wastage, defect(s) and damage	46 CFR 31.10-1 & -20 ABS 7-4-1/1	
HI01.2	Examine stress areas (stringer plate, sheer plate, etc.)	NVIC 07-68 II & III	
HI01.3	Examine seachest(s), strainers and emergency bilge suction and overboard discharges for wastage, defect(s), and damage	46 CFR 61.20-5 NVIC 07-68 II & III	
HI01.4	Verify condition of drydock (bottom) plugs	NVIC 07-68 II & III MSM II/B.3.B.2	
HI01.5	Verify wastage/corrosion is within limits	ABS 7-A-4/27 NVIC 07-68 III(C) & H-N	
HI01.6	Ensure unsatisfactory condition(s) are resolved	46 CFR 42.09-45 MSM II/B.3.B	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of vessel construction & repair nomenclature including scantlings/structural members.*

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

Hull Inspection (HI)**Tank Barge****Task:** BI-HI02 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 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 32 Tank Vessels - Special Equipment, Machinery & Hull Requirements
 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 69 Measurement of Vessels

Steps		References	Initials
HI02.1	Verify placement of hull markings	46 CFR 31.25 46 CFR 32.05-1, -5, -15 46 CFR 67.120 & 69.177	
HI02.2	Verify markings are permanently affixed	46 CFR 32.05 46 CFR 42.13-40 46 CFR 67.121	
HI02.3	Verify markings are of contrasting colors	46 CFR 32.05 46 CFR 42.13-40	

Verifying Officer Guidance: *Marking required for UWILD will be found on DI-HI10 card.*

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

EMPLID:

Verifying Officer's Signature:

Date:

Hull Inspection (HI)**Tank Barge**

Task: BI-HI03 Determine 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 31 Tank Vessels - Inspection & Certification
 2. NVIC 01-89 Underwater Survey Guidance
 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
HI03.1	Review application	46 CFR 31.10-21(d) NVIC 01-89 MSM II/B.3.C.1	
HI03.2	Inspect condition of hull and protection system	NVIC 01-89 Encl.1/1.a	
HI03.3	Verify reference points (when applicable)	46 CFR 31.10-21(d)(3) NVIC 01-89 Encl.1/1.b MSM II/B.3.C.1.b	
HI03.4	Verify hinged gratings are installed on sea chest(s)	46 CFR 31.10-21(d)(4) NVIC 01-89 Encl.1/1.c MSM II/B.3.C.1.c	
HI03.5	Review hull gauging report	NVIC 01-89 Encl.1/1.a	
HI03.6	Review reference video	NVIC 01-89 Encl.1/1.d MSM II/B.3.C.1.d	
HI03.7	Forward application with OCMI's recommendation	MSM II/B.9.K.7 MSM II/G.2.V.6.a	

Verifying Officer Guidance:

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

EMPLID:

Verifying Officer's Signature:

Date:

Hull Inspection (HI)

Tank Barge

Task: BI-HI04 Inspect hull 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 31 Tank Vessels - Inspection & Certification
 2. Title 46, Code of Federal Regulations Part 197 Marine Occupational Safety & Health Standards
 3. NVIC 01-89 Underwater Survey Guidance
 4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
HI04.1	Review vessel's application for (UWILD) drydocking examination	46 CFR 31.10-21(d) NVIC 01-89 Encl.1/2.a MSM II/B.3.C.2	
HI04.2	Verify procedures to be followed	46 CFR 31.10-21(d)(1) 46 CFR 197.202 MSM II/B.3.C.2	
HI04.3	Verify suitability of location	46 CFR 31.10-21(d)(2) NVIC 01-89 Encl.1/5.c MSM II/B.3.C.5.c	
HI04.4	Review reference plans and video	46 CFR 31.10-21(d)(3) NVIC 01-89 Encl.1/2.a(12)	
HI04.5	Meet with vessel's representative and diving supervisor to discuss details of survey	46 CFR 91.40-3(d)(5) NVIC 01-89 Encl.1/4 MSM II/B.3.C.4	
HI04.6	Verify vessel's representative submitted a signed letter of vessel's overall condition	46 CFR 31.10-21(d) NVIC 01-89 Encl.1/2.a(7) MSM II/B.3.C.3	
HI04.7	Verify qualification of divers, type of diving equipment, and their nondestructive testing (NDT) and damage repair capabilities	46 CFR 31.10-21(d) 46 CFR 197.200 NVIC 01-89 Encl.1/5.f & MSM II/B.3.C.5.k.5	
HI04.8	Verify all areas of the hull have been cleaned	NVIC 01-89 Encl.1/5.g	
HI04.9	Witness underwater survey from a video monitor	NVIC 01-89 Encl.1/5.l MSM II/B.3.C.5.k.3	

Verifying Officer Guidance:

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

Follow Up Actions (FU)**Tank Barge****Task:** BI-FU01 Issue/endorse vessel's Certificate of Inspection and vessel's certificates**Condition:** Upon completion of inspection**Standard:** In accordance with current policies, procedures and processes

- References:**
1. Title 46, Code of Federal Regulations Part 2 Vessel Inspections
 2. Title 46, Code of Federal Regulations Part 31 Tank Vessels - Inspection & Certification
 3. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 4. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management

Steps		References	Initials
FU01.1	Issue and/or endorse COI	46 CFR 31.05-1 & 91.01 46 CFR 2.01-5 46 CFR 153.8	
FU01.2	Verify COI endorsements are accurate	46 CFR 31.05-15 46 CFR 153.8	
FU01.3	Obtain a copy of all endorsed certificates for the unit's vessel file	MSM I/12.E.7	

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

Follow Up Action (FU)

Tank Barge

Task: BI-FU02 Issue control action(s)

Condition: Upon discovery of substantial non-compliance

Standard: In accordance with current policies, procedures and processes

- References:**
1. Title 46, United States Code § 3313 Compliance with Certificate of Inspection
 2. Mission Management System (MMS) Procedure CVC-PR-001(2)- Documenting Deficiencies on U.S. Flag Vessels
 3. Form CG-835V Vessel inspection Requirements
 4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2

Steps		References	Initials
FU02.1	Determine control action	46 USC 3313(b) MMS CVC-PR-001(2)	
FU02.2	Conduct reports and notifications (when applicable)	MMS CVC-PR-001(2)	
FU02.3	Issue control action(s)	MMS CVC-PR-001(2) CG-835V	
FU02.4	Explain control action(s) to responsible parties/stakeholders	MMS CVC-PR-001(2) CG-835V MSM II/A.1.F.3	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of MISLE.

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

Follow Up Action (FU)

Tank Barge

Task: BI-FU03 Complete MISLE Activity**Condition:** During follow-up portion of the inspection**Standard:** In accordance with current policies, procedures and processes

- References:**
1. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management
 2. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 3. IMO Resolution A.1076(28) Amendments to the Survey Guidelines Under the Harmonized System of Survey and Certification (HSSC), 2011
 4. MISLE Vessels User Guide
 5. CG-CVC Mission Management System (MMS) PR-009(2) MISLE Vessel Inspection Activity Entry and Review Process-Domestic Inspections

Steps		References	Initials
FU03.1	Open existing activity in MISLE	MSM I/12.G.2.a IMO Res A.1076(28) MISLE User Guide	
FU03.2	Update inspection results	MSM I/12.H.1 / MSM II/A.2.C.2.d MMS PR-009(2) MISLE User Guide	
FU03.3	Update activity narrative	MSM I/12.H.1 MMS PR-009(2) MISLE User Guide	
FU03.4	Update vessel details	MSM I/12.H.1 MISLE User Guide MMS PR-009(2)	
FU03.5	Amend Certificate of Inspection	MSM I/12.H.1 MISLE User Guide MMS PR-009(2)	
FU03.6	Print new or amended Certificate of Inspection and Deficiency Letter	MSM II/A.2.C.6 MISLE User Guide MMS PR-009(2)	
FU03.7	Change activity status to "Open - Submitted for Review"	MSM I/12.H.1 MISLE User Guide	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of MISLE. If available, CVC-approved Process Guides must be used when preparing certificates/documents.

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

EMPLID:

Verifying Officer's Signature:

Date:

Task: BI-FU04 Conduct deficiency check

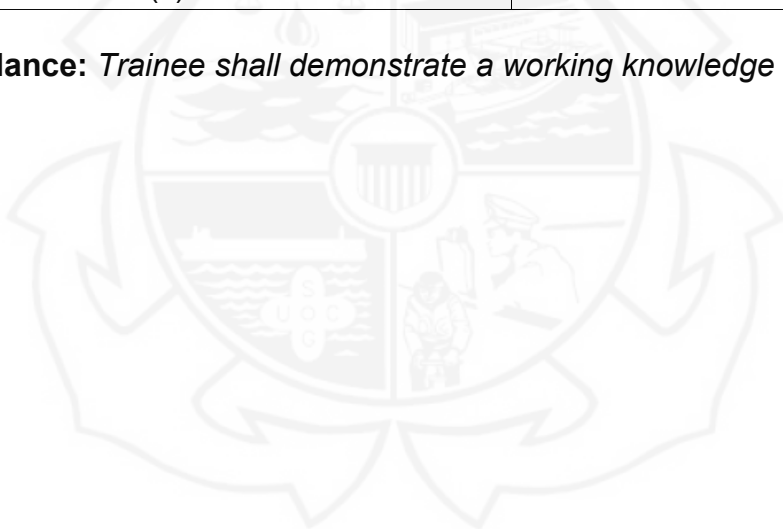
Condition: During follow-up visit

Standard: In accordance with current policies, procedures and processes

- References:**
1. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 2. MISLE User Guide
 3. CG-CVC Mission Management System (MMS) PR-001(2) Documenting Deficiencies on U.S. Flag Vessels and OCS Floating Offshore Installations (FOIs)

Steps		References	Initials
FU04.1	Determine an appropriate verification method for identified deficiencies	MSM II/A.2.C.4	
FU04.2	Verify corrections meet appropriate regulations	MSM II/A.2.C.4.a	
FU04.3	Clear deficiencies in MISLE activity	MSM II/A.2.C.2.d MISLE User Guide MMS PR-001(2)	
FU04.4	Remove control action(s)	MISLE User Guide	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of MISLE.



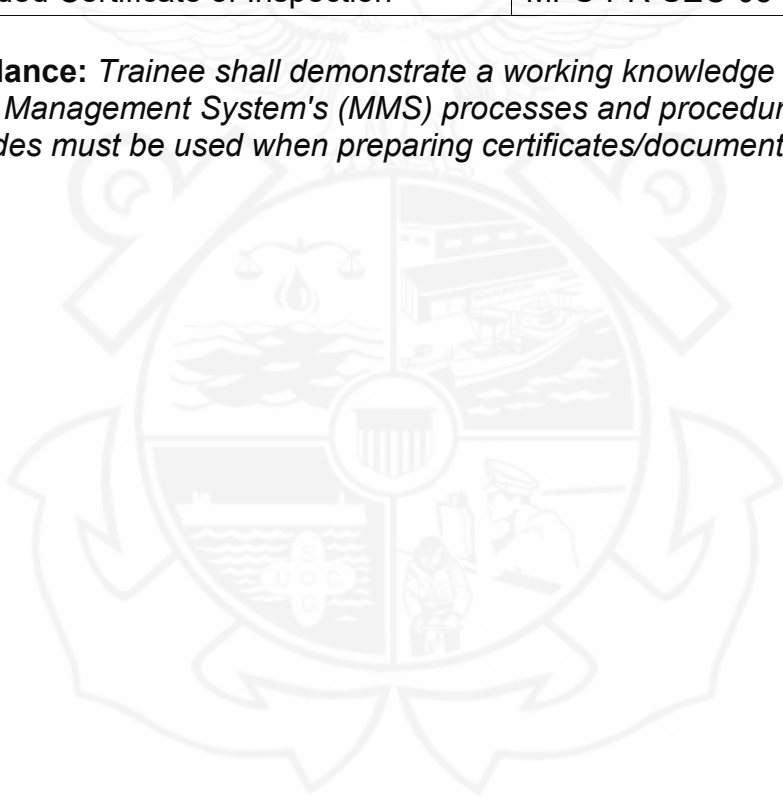
Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Follow Up Actions (FU)**Tank Barge****Task:** BI-FU05 Ensure completion of drydock examination**Condition:** *During drydock examination***Standard:** *In accordance with current policies, procedures and processes*

- References:**
1. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-2
 2. MPS-PR-SEC-05 Conducting Domestic Vessel Inspections

Steps		References	Initials
FU05.1	Verify completions of all repairs	MSM II/A.2.C	
FU05.2	Issue amended Certificate of Inspection	MPS-PR-SEC-05	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of MISLE and the Coast Guard's Mission Management System's (MMS) processes and procedures. If available, CVC-approved Process Guides must be used when preparing certificates/documents.*



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

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

From: _____ Date: _____

PQS/Job Aid Title:

Section(s) Affected:

Remark(s)/Comment(s):

Reference(s):

Signature: _____

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