
U.S. COAST GUARD



FOREIGN CHEMICAL TANKER EXAMINER (FCTE)

PORT STATE CONTROL OFFICER PERFORMANCE AND QUALIFICATION STANDARD



Marine Inspection and Investigation School
Training Center Yorktown

[This page intentionally left blank]

Foreign Chemical Tanker Examiner Performance and Qualification Standard

Competency Code: FCTE

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 M1500.10C
- (d) Safety and Environmental Health Manual, COMDTINST 5100.47

This Performance and Qualification Standard (PQS) workbook is your On the Job Training (OJT) performance checklist for certification as a Foreign Chemical Tanker Examiner (FCTE). It is your responsibility to document all completed unit training items and keep track of all examinations completed during this process by filling out the Port State Control (PSC) Examination Log located in appendix C of this workbook.

This qualification is not restricted to any particular rank or rate. Civilian GS employees are also eligible.

The FCTE competency is one of five “specific cargo/vessel related” Port State Control Officer (PSCO) competencies.

This PQS workbook cites SOLAS regulations from the 2009 Consolidated Edition (SOLAS 09). In some cases, the regulations in SOLAS 09 may not apply due to the keel laid date of the vessel. PSC personnel must pay close attention to the applicability dates of the SOLAS chapters and regulations when conducting PSC exams.

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: “Port State Control Examiner”
2. **Job Accomplishment:** the main deliverable for the qualification.
Example: “Port State Control Examination”
3. **Major Accomplishment:** the valuable products of a job or specialty which collectively make up the job accomplishment.
Example: “Lifesaving Equipment Examination”
4. **Vessel types:** the specific type of vessels within the formal title of the qualification that the task is associated with.
Example: “Port State Control Vessel”
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, i.e. how well a trainee must carry out the desired performance to complete the task.
8. **Steps:** the sequence of actions required to complete the task.

Ideally, all steps and tasks within the PQS workbook shall be required to be completed prior to obtaining the FCTE competency. With the exception the training prerequisites listed on page (I) and discussed below, the Sector Commander or designee may defer PQS items as authorized by references (a) and (d). If a task is deferred, the reason for deferment must be clearly articulated in both the PQS workbook and the certification letter for record keeping and accountability. Additionally, if a task is deferred that member is not authorized to conduct that specific task.

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 must enter their title, name and initials in the Record of Verifying Officer's section before making entries in your PQS workbook.

A Certification Board should only be completed after all 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 the Training Management Tool (TMT).**

Appendices:

- A. List of Additional References
- B. Glossary
- C. Port State Control Examination Log

Foreign Chemical Tanker Examiner PQS

RECORD OF COMPLETION		
Training Prerequisites	Date	Training Coordinator's Signature
A. Completion of the following resident and on-line courses:		
1. Port State Control Officer Course (501864); or		
2. MST A-School (only if completed after January 2010); or		
3. Marine Inspector Course (only if completed before March 2006).		
B. Completion of Port State Control Examiner (PSCE) competency		
C. Completion of this PQS Workbook		
D. Completion of Chemical Tank Vessel Indoctrination (Encl. 1)		
E. Successful completion of final assessment under the observation of the Verifying Officer		
F. Successful completion of the final oral qualification board		
Qualification Board Members:		
G. Certification/Designation Letter submitted for approval		
H. Once Certification/Designation Letter is signed, enter competency and certification in TMT		
REMARKS:		

Foreign Chemical Tanker Examiner PQS

Task Number	Task Description	Date Completed
FCTE-PE01	Schedule examination in Maritime Information for Safety and Law Enforcement (MISLE)	
FCTE-PE02	Coordinate examination with vessel's representative	
FCTE-PE03	Conduct meeting with vessel's representative to discuss scope of the examination	
FCTE-PE04	Mitigate potential hazards encountered during an exam	
FCTE-CD01	Examine cargo documentation	
FCTE-CD02	Examine Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk (CoF)	
FCTE-CD03	Examine International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances (IPPC-NLS)	
FCTE-CD04	Examine Tank Vessel Response Plan (TVRP)	
FCTE-CD05	Examine Certificate of Protection	
FCTE-LM01	Examine Cargo Record Book	
FCTE-LM02	Examine Shipboard Marine Pollution Emergency Plan (SMPEP)	
FCTE-LM03	Examine Procedures & Arrangements (P&A) Manual	
FCTE-LM04	Examine cargo/ballast operations manuals	
FCTE-LM05	Examine Inert Gas Manual(s)	
FCTE-CS01	Examine cargo tank venting arrangements	
FCTE-CS02	Examine cargo pump room	
FCTE-CS03	Examine designated observation area (when applicable)	
FCTE-CS04	Examine liquid cargo transfer systems	
FCTE-CS05	Examine Vapor Control System (VCS)	
FCTE-CS06	Examine high/low vapor pressure protection	
FCTE-CS07	Examine tank liquid high level and overfill protection	
FCTE-CS08	Examine fixed/portable vapour detection instruments	
FCTE-CS09	Examine Inert Gas System (IGS)	
FCTE-CS10	Examine operational tests of Inert Gas System (IGS) audible and visual alarms and shutdowns	
FCTE-CS11	Examine oil discharge monitoring and control system (ODME) (when applicable)	
FCTE-CS12	Examine cargo temperature control systems	
FCTE-CS13	Examine cargo sample stowage	
FCTE-LS01	Examine lifeboats	

Foreign Chemical Tanker Examiner PQS

Task Number	Task Description	Date Completed
FCTE-LS02	Examine emergency equipment	
FCTE-FF01	Examine water spray system	
FCTE-FF02	Examine fixed deck foam system	
FCTE-FF03	Examine additional personal fire fighting equipment	
FCTE-ES01	Examine components installed in designated hazardous locations	
FCTE-PP01	Examine containment on deck	
FCTE-TE01	Examine access to bow and emergency towing arrangements	
FCTE-FU01	Verify International Safety Management (ISM) compliance	
FCTE-FU02	Issue deficiency(s)	
FCTE-FU03	Issue control action(s)	
FCTE-FU04	Verify deficiency corrections	
FCTE-FU05	Endorse certificates	
FCTE-FU06	Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity	

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Pre-Exam (PE)****Foreign Chemical Tank Vessel**

Task: FCTE-PE01 Schedule examination in Maritime Information for Safety and Law Enforcement (MISLE)

Condition: *During preparation for examination*

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

- References:**
1. Title 33, Code of Federal Regulations Part 138 Financial Responsibility for Water Pollution & OPA 90 Limits of Liability
 2. Title 46, Code of Federal Regulations Part 2 Vessel Inspections
 3. CG-543 Policy Letter 11-01 Guidelines for CG Evaluations of Compliance with the EPA's Vessel General Permit
 4. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management
 5. MPS-PR-SEC-02 Scheduling Foreign Vessel Examinations & MPS-PR-SEC-04 Preparing for Inspections and Examinations
 6. MPS-PR-SEC-07 Preparing and Issuing Certificates & MISLE Data Entry Work Instruction

Steps		References	Initials
PE01.1	Locate vessel in MISLE	MPS-PR-SEC-02 MSM I/12.F	
PE01.2	Verify documents are current in MISLE	MPS-PR-SEC-04 MSM I/12.G.5	
PE01.3	Review history (narratives, deficiencies & special notes)	MSM I/12.G.2.a MPS-PR-SEC-02 & 04 MISLE Work Instruction	
PE01.4	Verify status of user fees	46 CFR 2.10-1(a) 46 CFR 2.10-1(b)	
PE01.5	Enter title and point(s) of contact	MSM I/12.G.2.a	
PE01.6	Prepare folder and required documents	46 CFR 2.01-6 MPS-PR-SEC-04 MPS-PR-SEC-07	
PE01.7	Verify status of Certificate of Financial Responsibility (e-COFR)	33 CFR 138.15(a)(2)	
PE01.8	Generate new activity	MPS-PR-SEC-04 MSM I/12.G.2.a	
PE01.9	Verify submittal of Environmental Protection Agency (EPA) Notice of Intent (NOI)	CG-543 Policy Ltr 11-01	
PE01.10	Determine QUALSHIP 21 participation	MISLE Work Instruction	

Verifying Officer Guidance:

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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Pre-Exam (PE)****Foreign Chemical Tank Vessel**

Task: FCTE-PE02 Coordinate examination with vessel's representative

Condition: During initial introduction and discussion with vessel master

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

- References:**
1. Title 33, Code of Federal Regulations Part 160 Ports & Waterways Safety - General
 2. Title 46, Code of Federal Regulations Part 2 Vessel Inspections
 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1
 4. MPS-PR-SEC-02 Scheduling Foreign Vessel Examinations
 5. MPS-PR-SEC-04 Preparing for Inspections and Examinations
 6. IMO Resolution A.739(18) Guidelines for the Authorization of Organizations Acting on Behalf of the Administration

Steps		References	Initials
PE02.1	Identify vessel's representative	MPS-PR-SEC-02 MSM II/D.5.C.2	
PE02.2	Confirm vessel arrival time, destination, exam with Advanced Notice of Arrival (ANOA)	33 CFR 160.206 MPS-PR-SEC-02	
PE02.3	Articulate examination expectations	MPS-PR-SEC-02	
PE02.4	Verify owner/operator information	MPS-PR-SEC-04	
PE02.5	Verify Classification Society information	46 CFR 2.45 IMO Res A.739(18) MPS-PR-SEC-04	
PE02.6	Confirm targeting score information attained from representative with MISLE data	MSM II/D.4 MPS-PR-SEC-04	
PE02.7	Verify if Law Enforcement division has interest for Condition of Entry (COE)	MSM II/D.1.H.5 MPS-PR-SEC-04	

Verifying Officer Guidance: *When determining the potential impact of cargo pump shutdowns, identify the direction of cargo flow (load/discharge/both). Always assess the risks associated with any cargo system tests. Respect all chemical cargos as TOXIC and limit exposure risk.*

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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Pre-Exam (PE)****Foreign Chemical Tank Vessel**

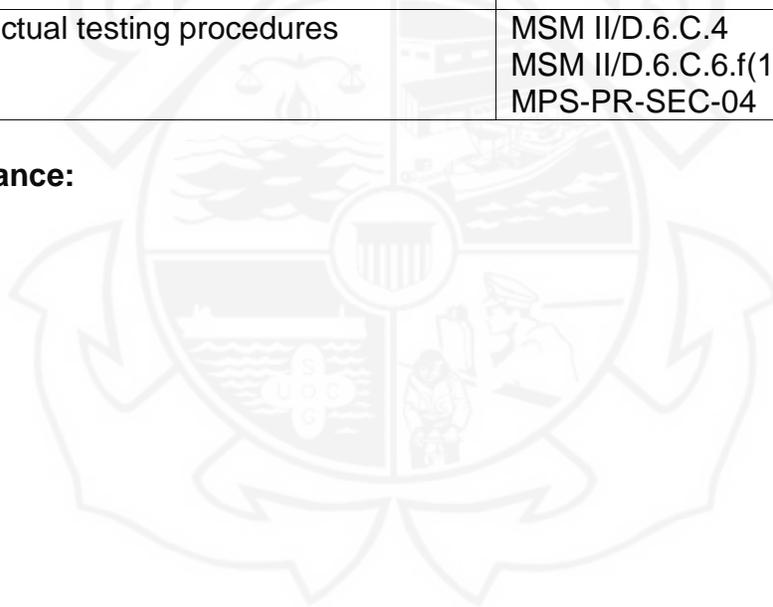
Task: FCTE-PE03 Conduct meeting with vessel's representative to discuss scope of the examination

Condition: *During preparation for examination*

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

- References:**
1. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1
 2. MPS-PR-SEC-04 Preparing for Inspections and Examinations

Steps		References	Initials
PE03.1	Review outstanding Conditions of Class	MPS-PR-SEC-04	
PE03.2	Discuss examination procedures and expectations	MSM II/B.8	
PE03.3	Review any ongoing operations that could affect examination and equipment availability with Master	MPS-PR-SEC-04	
PE03.4	Coordinate actual testing procedures	MSM II/D.6.C.4 MSM II/D.6.C.6.f(1)(e) MPS-PR-SEC-04	

Verifying Officer Guidance:

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

EMPLID:

Verifying Officer's Signature:

Date:

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Pre-Exam (PE)****Foreign Chemical Tank Vessel**

Task: FCTE-PE04 Mitigate potential hazards encountered during an exam

Condition: *During preparation for examination*

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

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

Steps		References	Initials
PE04.1	Recognize potential hazards encountered during an exam	NFPA 306	
PE04.2	Determine confined spaces	MSM I/10 App.A	
PE04.3	Determine if exam scope will require a Marine Chemist certification for space entry	29 CFR 1915, Part B MSM II/D.6.C.1.f	
PE04.4	Verify Marine Chemist has been scheduled for the exam (when applicable)	MSM I/10 App. A	
PE04.5	Prepare necessary personal protective equipment for exam	MSM I/10 App. A MSM I/8.A.3 Quattro Operator's Manual	
PE04.6	Review CG policy for when to leave a space due to hazardous condition	MSM I/10 App. A	

Verifying Officer Guidance:

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

EMPLID:

Verifying Officer's Signature:

Date:

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Certificates and Documents (CD)****Foreign Chemical Tank Vessel****Task:** FCTE-CD01 Examine cargo documentation**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 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
2. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
CD01.1	Verify presence of IBC code	IBC Code 16.2.1	
CD01.2	Verify cargoes listed on shipping documents use IBC code names	IBC Code 16.2.2	
CD01.3	Verify content of cargo stowage plan	46 CFR 153.907 IBC Code 16.2.3.1	
CD01.4	Verify cargo compatibility utilizing cargo stowage plan	46 CFR 150 Figure 1 46 CFR 150 Table 1	
CD01.5	Verify presence of certificate of stabilization or inhibition (when applicable)	46 CFR 153.912 IBC Code 15.13.3 IBC Code 16.2.3.2	
CD01.6	Verify cargoes carried are approved for carriage on the International Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk (CoF)	IBC Code Appendix	

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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Certificates and Documents (CD)

Task: FCTE-CD02 Examine Certificate of Fitness (CoF) for the carriage of dangerous chemicals in bulk

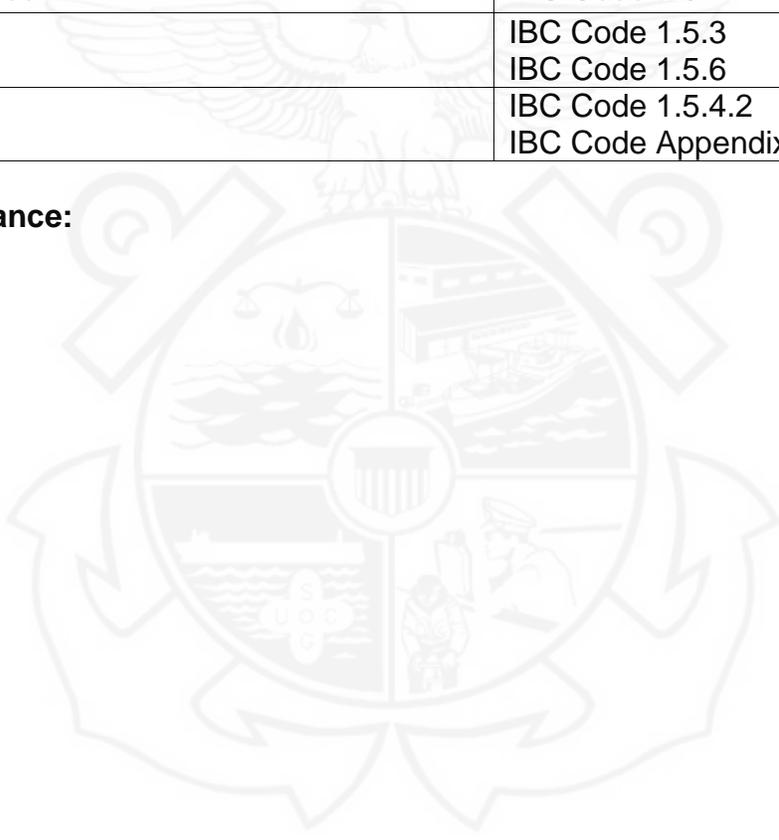
Condition: While validating certificates and documents

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

References: 1. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
CD02.1	Verify presence	IBC Code 1.5.4	
CD02.2	Verify validity	IBC Code 1.5.3 IBC Code 1.5.6	
CD02.3	Verify form	IBC Code 1.5.4.2 IBC Code Appendix	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Certificates and Documents (CD)

Foreign Chemical Tank Vessel

Task: FCTE-CD03 Examine International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances (IPPC-NLS)

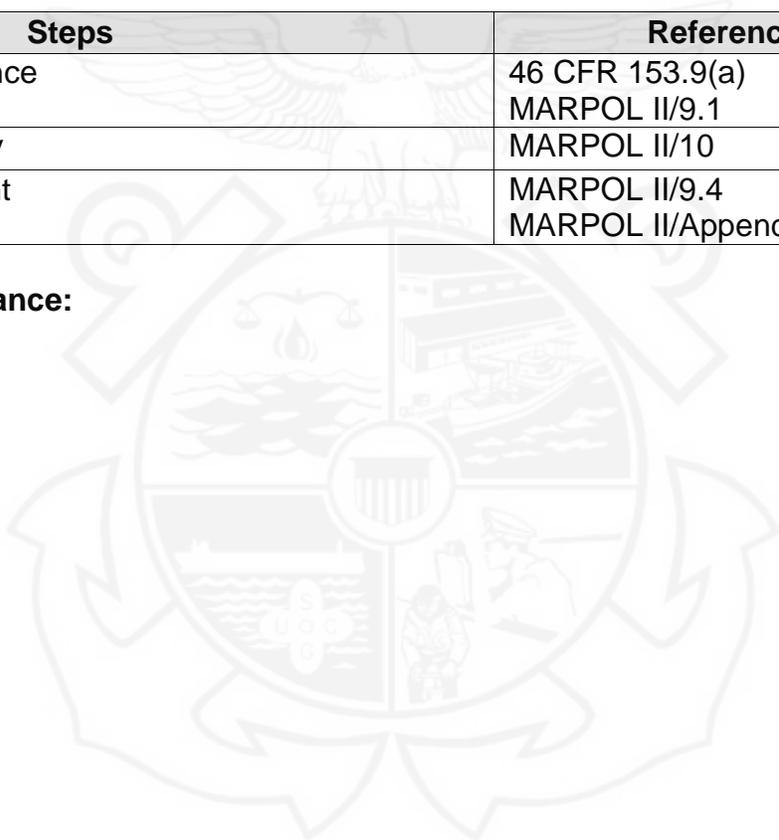
Condition: While validating certificates and documents

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

- References:**
1. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 2. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as modified

Steps		References	Initials
CD03.1	Verify presence	46 CFR 153.9(a) MARPOL II/9.1	
CD03.2	Verify validity	MARPOL II/10	
CD03.3	Verify content	MARPOL II/9.4 MARPOL II/Appendix III	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Certificates and Documents (CD)

Foreign Chemical Tank Vessel

Task: FCTE-CD04 Examine Tank Vessel Response Plan (TVRP)

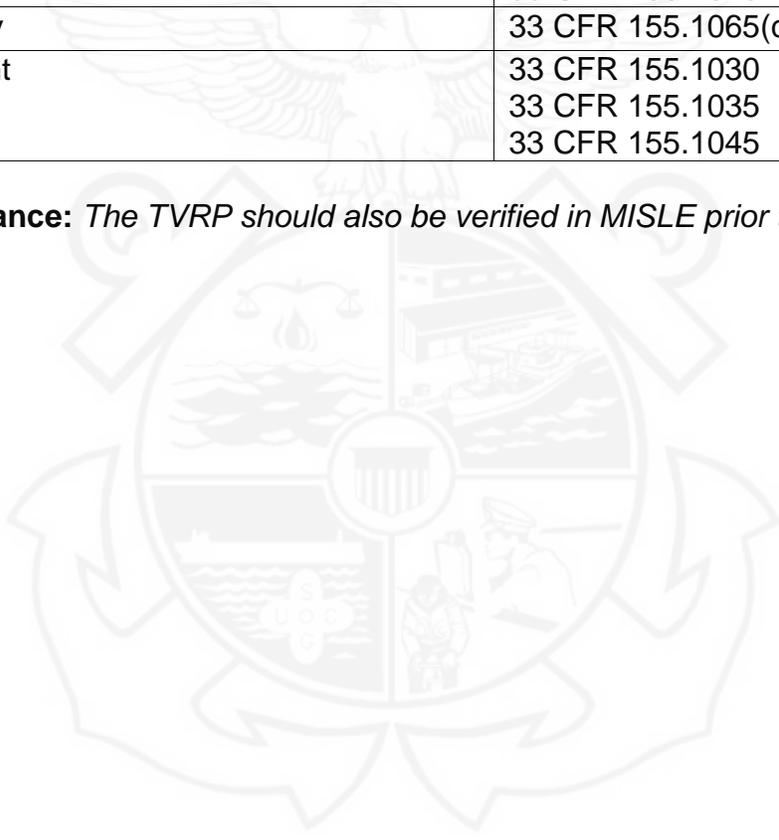
Condition: While validating logs and manuals

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

References: 1. Title 33, Code of Federal Regulations Part 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels

Steps		References	Initials
CD04.1	Verify presence	33 CFR 155.1015 33 CFR 155.1025	
CD04.2	Verify validity	33 CFR 155.1065(c)	
CD04.3	Verify content	33 CFR 155.1030 33 CFR 155.1035 33 CFR 155.1045	

Verifying Officer Guidance: *The TVRP should also be verified in MISLE prior to the vessel examination.*



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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Certificates and Documents (CD)****Foreign Chemical Tank Vessel****Task:** FCTE-CD05 Examine Certificate of Protection**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 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
2. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
CD05.1	Verify content	46 CFR 153.912 IBC Code 15.13.3	
CD05.2	Verify systems are suitable for carriage of cargoes	IBC Code 15.13.2 IBC Code 15.13.4 & .7	

Verifying Officer Guidance: *Only applicable when vessel is carrying cargoes with a reference in column "o" in the table of IBC chapter 17 (cargoes protected by additives) or when 46 CFR 153 Table 1, column "I" references 46 CFR 153.912. May also be referred to as a Certificate of Inhibition.*

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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Logs and Manuals Examination (LM)****Foreign Chemical Tank Vessel****Task:** FCTE-LM01 Examine Cargo Record Book**Condition:** *While validating logs and manuals***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 2. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as modified

Steps		References	Initials
LM01.1	Verify presence	46 CFR 153.490(a)(1) MARPOL II/15.1 MARPOL II/15.5	
LM01.2	Verify validity and content	46 CFR 153.909 MARPOL II/15.2 & 15.3 MARPOL II/15.4	
LM01.3	Verify presence of completed books	46 CFR 153.909(e) MARPOL II/15.5	
LM01.4	Verify form	46 CFR 153.490(a)(1) MARPOL II/Appendix II	

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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Logs and Manuals Examination (LM)

Foreign Chemical Tank Vessel

Task: FCTE-LM02 Examine Shipboard Marine Pollution Emergency Plan (SMPEP)

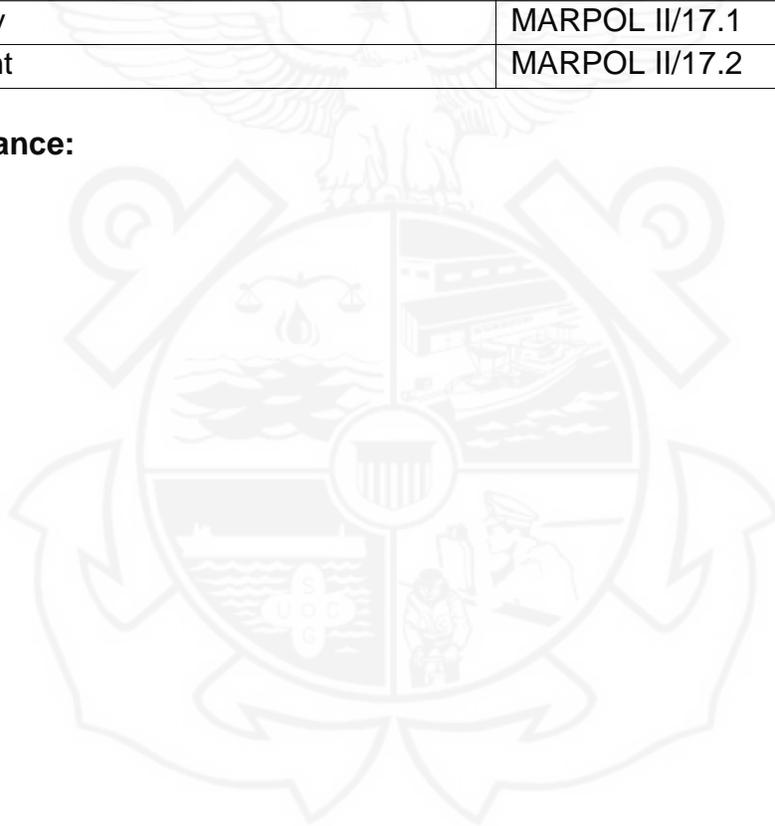
Condition: *While validating logs and manuals*

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

References: 1. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as modified

Steps		References	Initials
LM02.1	Verify presence	MARPOL II/17.1 MARPOL II/17.3	
LM02.2	Verify validity	MARPOL II/17.1	
LM02.3	Verify content	MARPOL II/17.2	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Logs and Manuals Examination (LM)****Foreign Chemical Tank Vessel**

Task: FCTE-LM03 Examine Procedures & Arrangements (P&A) Manual

Condition: *While validating logs and manuals*

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

- References:**
1. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 2. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as modified
 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1

Steps		References	Initials
LM03.1	Verify presence	46 CFR 153.490(a)(2) MARPOL II/14.1 MSM II/E.1.E.3.b	
LM03.2	Verify validity	MARPOL II/14.1 MSM II/E.1.E.2.e.2	
LM03.3	Verify content	46 CFR 153.490(b) MARPOL II/14.2 MARPOL II/Appendix IV	

Verifying Officer Guidance: *Verify that the plans have been updated to list X, Y, Z & OS pollution categories as opposed to A, B, C & D.*

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

EMPLID:

Verifying Officer's Signature:

Date:

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Logs and Manuals Examination (LM)****Foreign Chemical Tank Vessel****Task:** FCTE-LM04 Examine cargo/ballast operations manuals**Condition:** *While validating logs and manuals***Standard:** *In compliance with applicable policies, laws, regulations and standards***References:** 1. Title 33, Code of Federal Regulations Part 157 Rules for the Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Bulk

Steps		References	Initials
LM04.1	Verify validity of operations manual	33 CFR 157.208 33 CFR 157.216 33 CFR 157.224	
LM04.2	Verify presence of instruction manual	33 CFR 157.23(a)	
LM04.3	Verify format and content of instruction manual	33 CFR 157.23(b)	

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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Logs and Manuals Examination (LM)

Foreign Chemical Tank Vessel

Task: FCTE-LM05 Examine Inert Gas Manual(s)

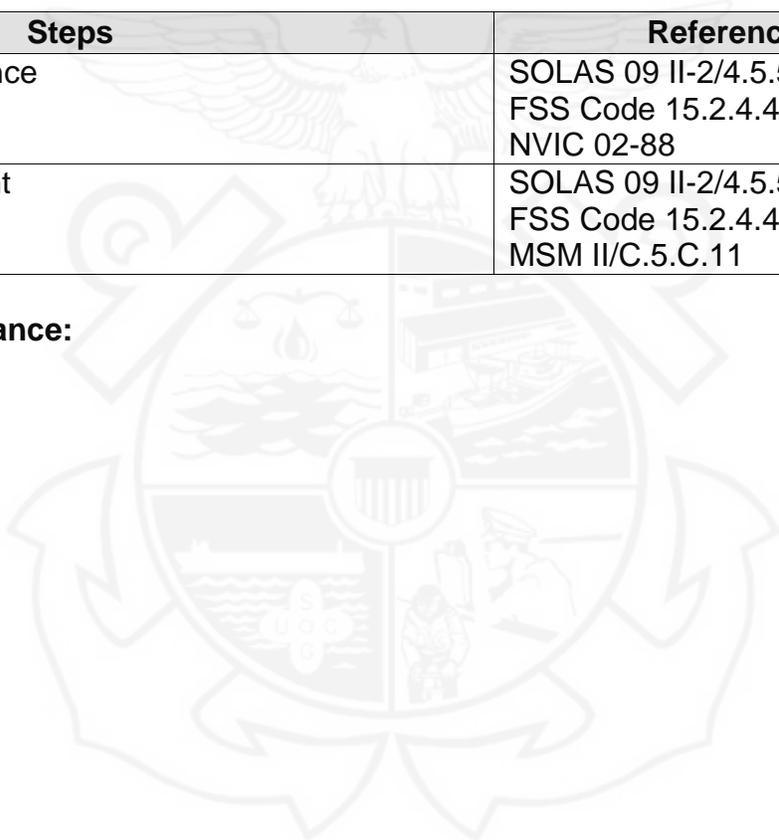
Condition: *While validating logs and manuals*

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

- References:**
1. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 2. International Code for Fire Safety Systems (FSS Code), 2007
 3. NVIC 02-88 Inerting Requirements for Chemical Tankers and Gas Carriers
 4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1

Steps		References	Initials
LM05.1	Verify presence	SOLAS 09 II-2/4.5.5.1.1 FSS Code 15.2.4.4 NVIC 02-88	
LM05.2	Verify content	SOLAS 09 II-2/4.5.5.1.1 FSS Code 15.2.4.4 MSM II/C.5.C.11	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel****Task:** FCTE-CS01 Examine cargo tank venting arrangements**Condition:** During cargo environmental control examination**Standard:** In compliance with applicable policies, laws, regulations and standards

References:

1. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
2. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
3. International Convention on Load Lines (ICLL) 1966, as amended
4. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1

Steps		References	Initials
CS01.1	Verify materiel condition	SOLAS 09 II-2/4.5.3 IBC Code 8.2	
CS01.2	Verify condition of flame screens and arresters	SOLAS 09 II-2/4.5.3.3 IBC Code 8.3.6 - 8.3.7 MSM II/D.6.B.4 & F.3.F.17	
CS01.3	Verify operation of permanently attached closures (when applicable)	ICLL I/20 IBC Code 8.3.1 & 8.3.2 IBC Code 8.3.8	
CS01.4	Verify height of tank venting system	46 CFR 153.350 - 153.353 SOLAS 09 II-2/4.5.3.4 & 11.6.2.1 IBC Code 8.3.4.1 & 8.3.5	
CS01.5	Verify horizontal distance from air intakes and openings	46 CFR 153.350 - 150.351 SOLAS 09 II-2/4.5.3.4.1 & 11.6.2.2 IBC Code 8.3.4.2	
CS01.6	Verify operation of visual indicators (when applicable)	SOLAS 09 II-2/4.5.3.2.2 SOLAS 09 II-2/11.6.3.3	
CS01.7	Verify presence of blank flanges (when applicable)	SOLAS 09 II-2/4.5.3.5	
CS01.8	Verify operation of pressure/vacuum valves	SOLAS 09 II-2/11.6.1	
CS01.9	Verify operation of vapor line pressure sensors and alarms	SOLAS 09 II-2/11.6.3.2	

Verifying Officer Guidance: CV01.8 spot check

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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel****Task:** FCTE-CS02 Examine cargo pump room**Condition:** *During cargo systems examination***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 3. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
 4. COMDTINST M5100.47 Safety and Environmental Health Manual

Steps		References	Initials
CS02.1	Verify operation of ventilation	SOLAS 09 II-2/4.5.4.1 IBC Code 12.1 IBC Code 12.2	
CS02.2	Verify lighting/ventilation interlock	SOLAS 09 II-2/4.5.10.1.2	
CS02.3	Verify operation of hydrocarbon gas monitoring system	SOLAS 09 II-2/4.5.10.1.3	
CS02.4	Verify operation of bilge monitoring devices	SOLAS 09 II-2/4.5.10.1.4	
CS02.5	Verify electrical equipment	46 CFR 153.466 SOLAS 09 II-1/45.11 IBC Code 10.1.5, 11.3.15 & 12.1.8	
CS02.6	Verify fixed fire extinguishing system	SOLAS 09 II-2/10.9.1 SOLAS 09 II-2/10.9.2 IBC Code 11.2 & 12	

Verifying Officer Guidance: *Note the air change requirements specific to the space examined (IBC Code 12.1.3 vs 12.2). Verify the Marine Chemist Certificate in compliance with Confined Space Entry requirements.*

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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Cargo Systems Examination (CS)

Foreign Chemical Tank Vessel

Task: FCTE-CS03 Examine designated observation area (when applicable)

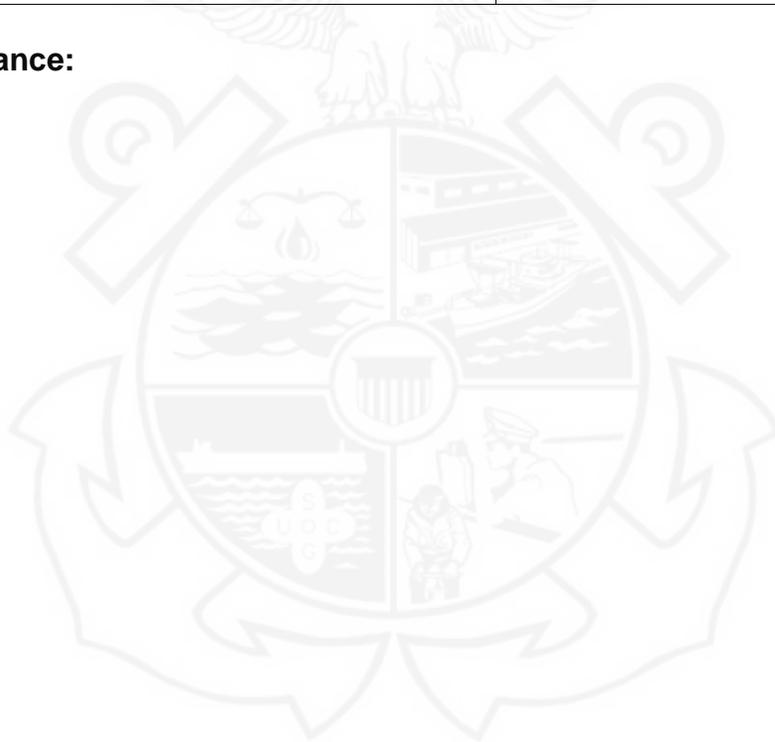
Condition: *During cargo systems examination*

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

References: 1. Title 33, Code of Federal Regulations Part 157 Rules for the Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Bulk

Steps		References	Initials
CS03.1	Verify location	33 CFR 157.13 33 CFR 157.13(a)	
CS03.2	Verify means to stop discharge of effluent	33 CFR 157.13(b)(1)	
CS03.3	Verify communications	33 CFR 157.13b)(2)	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel**

Task: FCTE-CS04 Examine liquid cargo transfer systems

Condition: *During cargo systems examination*

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

- References:**
1. Title 33, Code of Federal Regulations Part 155 Oil or Hazardous Material Pollution Prevention Regulations for Vessels
 2. Title 33, Code of Federal Regulations Part 156 Oil & Hazardous Material Transfer Operations
 3. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
CS04.1	Examine condition of piping and hose(s)	33 CFR 155.800 IBC Code 5.4 IBC Code 5.7	
CS04.2	Verify operation of cargo pump remote shutdown devices	33 CFR 156.170(c)(5) IBC Code 5.6.1.3	
CS04.3	Verify pumps, valves and pipelines are marked	33 CFR 155.800 IBC Code 3.6	
CS04.4	Verify transfer equipment tests and inspections	33 CFR 156.170(c)	

Verifying Officer Guidance: *Transfer hoses for Alkylene Oxides must be approved by the Commandant (CG-ENG) and appropriately marked IAW 46 CFR 153.1010(b)(4).*

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

EMPLID:

Verifying Officer's Signature:

Date:

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel****Task:** FCTE-CS05 Examine Vapor Control System (VCS)**Condition:** *During cargo systems examination***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.1

Steps		References	Initials
CS05.1	Examine drain lines	46 CFR 39.20-1(a)(4)	
CS05.2	Verify electrically bonded	46 CFR 39.20-1(a)(5)	
CS05.3	Verify system can be Isolated from Inert Gas System	46 CFR 39.20-1(a)(6)	
CS05.4	Verify presence of isolation valve and indicator	46 CFR 39.20-1(c)	
CS05.5	Verify markings on vapor piping	46 CFR 39.20-1(d)	
CS05.6	Verify presence of flange stud	46 CFR 39.20-1(e)	
CS05.7	Verify closed gauging system (when applicable)	46 CFR 39.20-3(a)	
CS05.8	Examine approval letter (when applicable)	46 CFR 39.10-13(c) MSM II/D.6.B.2	

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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Cargo Systems Examination (CS)

Foreign Chemical Tank Vessel

Task: FCTE-CS06 Examine high/low vapor pressure protection

Condition: *During cargo systems examination*

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. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials

Steps		References	Initials
CS06.1	Verify pressure indicator for main vapor collection line	46 CFR 39.20-13(a) 46 CFR 153.372	
CS06.2	Verify operation of pressure alarms	46 CFR 39.20-13(b) 46 CFR 153.438	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel**

Task: FCTE-CS07 Examine tank liquid high level and overfill protection

Condition: *During cargo systems examination*

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. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
CS07.1	Verify overfill alarms	46 CFR 39.20-7(a), 153.408(a) & 153.409 SOLAS 09 II-2/11.6.3.1 IBC Code 15.19	
CS07.2	Verify high level alarm settings	46 CFR 39.20-7(c)(1) 46 CFR 153.409(a)	
CS07.3	Witness operational test of audible and visual alarm indicators	46 CFR 39.20-7(c)(3) & (d)(2) 46 CFR 153.408(e) 46 CFR 153.409(b)	
CS07.4	Verify high level alarm markings	46 CFR 39.20-7(c)(2) 46 CFR 153.409(d)	
CS07.5	Verify tank overfill alarm markings	46 CFR 39.20-7(d)(3) 46 CFR 153.408(d)	

Verifying Officer Guidance:

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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel**

Task: FCTE-CS08 Examine fixed/portable vapour detection instruments

Condition: *During cargo systems examination*

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

References:

1. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
2. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
3. International Code for Fire Safety Systems (FSS Code), 2007

Steps		References	Initials
CS08.1	Verify operation of flammable vapour device	SOLAS 09 II-2/4.5.7.1 IBC Code 13.2.1, 2 & 5 FSS Code 15.2.4.2.4	
CS08.2	Verify operation of toxic vapour device	IBC Code 13.2.1, 2 & 5	
CS08.3	Verify operation of oxygen content device	SOLAS 09 II-2/4.5.7.2.1 FSS Code 15.2.4.2.4	
CS08.4	Verify operation of fixed gas sampling line systems (when applicable)	SOLAS 09 II-2/4.5.7.2.2 & .3 IBC Code 13.2.2 FSS Code 15.2.4.2.5	

Verifying Officer Guidance:

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

EMPLID:

Verifying Officer's Signature:

Date:

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel****Task:** FCTE-CS09 Examine Inert Gas System (IGS)**Condition:** During cargo systems examination**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 3. International Code for Fire Safety Systems (FSS Code), 2007
 4. IMO Resolution A.567(14) Regulation for Inert Gas Systems on Chemical Tankers
 5. NVIC 02-88 Inerting Requirements for Chemical Tankers and Gas Carriers

Steps		References	Initials
CS09.1	Verify presence	46 CFR 153.500 SOLAS 09 II-2/4.5.5.1.1 & 4.5.5.1.2 SOLAS 09 II-2/4.5.5.2	
CS09.2	Determine type installed	SOLAS 09 II-2/4.5.5.3.2 FSS Code 15.2.2.1.1 NVIC 02-88	
CS09.3	Verify volume of IG being delivered	SOLAS 09 II-2/4.5.5.3.2 FSS Code 15.2.2.1.2	
CS09.4	Verify oxygen content of inert gas in IG supply main	SOLAS 09 II-2/4.5.5.3.2 FSS Code 15.2.2.1.3 FSS Code 15.2.4.2.5	
CS09.5	Verify oxygen content of inert gas forward of non-return devices	FSS Code 15.2.4.2.1.1 FSS Code 15.2.4.3.1.5 FSS Code 15.2.3.1.6	
CS09.6	Verify arrangement within gas-safe zone	FSS Code 15.2.2.2 FSS Code 15.2.2.3 IMO Res A.567(14)	
CS09.7	Verify arrangement of pressure/vacuum breaking device	SOLAS 09 II-2/11.6.3.4	
CS09.8	Verify arrangement of water seal on deck (when applicable)	FSS Code 15.2.3.1.4.1 FSS Code 15.2.3.1.4.2 FSS Code 15.2.2.4	
CS09.9	Verify arrangement of non-return valve on deck	FSS Code 15.2.3.1.4.1 FSS Code 15.2.3.1.4.2 FSS Code 15.2.3.1.4.3	

Verifying Officer Guidance: Check MSDS prior to testing the atmosphere of any tanks with portable atmospheric analyzers (PSC Message DEC2013). If the water seal on deck is a dry-type it must have MSC approval letter.

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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel**

Task: FCTE-CS10 Examine operational tests of Inert Gas System (IGS) audible and visual alarms and shutdowns

Condition: *During cargo systems examination*

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. International Code for Fire Safety Systems (FSS Code), 2007

Steps		References	Initials
CS10.1	Witness operational test for low water pressure or low water flow to flue gas scrubber alarm	FSS Code 15.2.4.3.1.1 FSS Code 15.2.3.1.5.1	
CS10.2	Witness operational test of high water level in flue gas scrubber alarm	FSS Code 15.2.4.3.1.2 FSS Code 15.2.3.1.5.1	
CS10.3	Witness operational high temperature alarm shutdown	FSS Code 15.2.4.1 FSS Code 15.2.4.3.1.3 FSS Code 15.2.3.1.5.1	
CS10.4	Witness operational of shutdown for failure of IG blowers	FSS Code 15.2.4.3.1.4 FSS Code 15.2.3.1.5.2	
CS10.5	Witness operational of high oxygen content alarm in IGS main	FSS Code 15.2.4.2.1.2 FSS Code 15.2.4.3.1.5 FSS Code 15.2.4.3.3	
CS10.6	Witness operational test for failure of power to auto controlled system for gas regulating valve and indicating devices alarms	FSS Code 15.2.4.3.1.6 FSS Code 15.2.4.3.3	
CS10.7	Witness operational test for low water alarm for water seal	46 CFR 32.53-10(b)(1) FSS Code 15.2.4.3.1.7	
CS10.8	Witness operational test for low gas pressure in IG main forward of all non-return devices alarm	FSS Code 15.2.4.3.1.8 FSS Code 15.2.4.3.3 FSS Code 15.2.4.3.4	
CS10.9	Witness operational test for high gas pressure in IG main forward of all non-return devices alarm(s)	FSS Code 15.2.4.3.1.9 FSS Code 15.2.4.2.1.1	
CS10.10	Verify inert gas generator system alarms	FSS Code 15.2.4.3.2	

Verifying Officer Guidance:

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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel**

Task: FCTE-CS11 Examine oil discharge monitoring and control system (ODME) (when applicable)

Condition: *During cargo systems examination*

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

- References:**
1. Title 33, Code of Federal Regulations Part 157 Rules for the Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Bulk
 2. International Convention for the Prevention of Pollution from Ships (MARPOL) 1973, as modified
 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1

Steps		References	Initials
CS11.1	Verify approval	33 CFR 157.12(a) & 157.12(b) MARPOL I/31.1 MSM II/E.1.D.5	
CS11.2	Verify operation of recording device	33 CFR 157.12d(a)(4)(viii)(C) MARPOL I/31.2	
CS11.3	Verify approved operation manual	33 CFR 157.12g(c) MARPOL I/31.4	

Verifying Officer Guidance:

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

EMPLID:

Verifying Officer's Signature:

Date:

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel****Task:** FCTE-CS12 Examine cargo temperature control systems**Condition:** *During cargo systems examination***Standard:** *In compliance with applicable policies, laws, regulations and standards*

References:

1. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
2. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
CS12.1	Verify means for measuring temperature	46 CFR 153.440 IBC Code 7.1.5	
CS12.2	Verify presence of temperature alarm	46 CFR 153.438 IBC Code 7.1.5.4 IBC Code 15.20 & 15.21	
CS12.3	Verify heating coils are blanked (when applicable)	IBC Code 16.6.2	

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

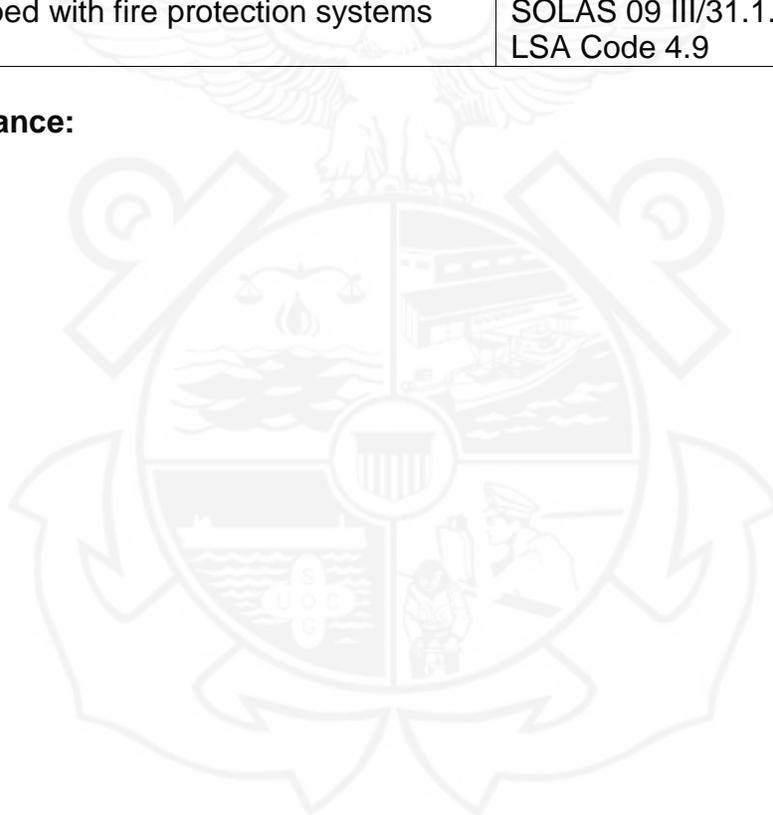
Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Cargo Systems Examination (CS)****Foreign Chemical Tank Vessel****Task:** FCTE-CS13 Examine cargo sample stowage**Condition:** *During cargo systems examination***Standard:** *In compliance with applicable policies, laws, regulations and standards***References:** 1. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
CS13.1	Verify stowed in designated space	IBC Code 16.5.1	
CS13.2	Verify arrangement of stowage space	IBC Code 16.5.2	
CS13.3	Verify arrangement of stowed samples	IBC Code 16.5.3 IBC Code 16.5.4	

Verifying Officer Guidance: *Use caution when opening or entering a space containing cargo samples.***Inspector's Name:** (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Lifesaving Equipment Examination (LS)****Foreign Chemical Tank Vessel****Task:** FCTE-LS01 Examine lifeboats**Condition:** *During lifesaving equipment examination***Standard:** *In compliance with applicable policies, laws, regulations and standards***References:** 1. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
2. Lifesaving Appliances including LSA Code, 2010

Steps		References	Initials
LS01.1	Verify equipped with a self-contained air support system	SOLAS 09 III/31.1.6 LSA Code 4.8	
LS01.2	Verify equipped with fire protection systems	SOLAS 09 III/31.1.7 LSA Code 4.9	

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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Lifesaving Equipment Examination (LS)****Foreign Chemical Tank Vessel****Task:** FCTE-LS02 Examine emergency equipment**Condition:** *During lifesaving equipment examination***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 2. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 3. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
LS02.1	Verify presence of emergency escape equipment	46 CFR 153.527 IBC Code 14.3.1	
LS02.2	Verify presence of stretcher	46 CFR 153.214(a) IBC Code 14.3.3	
LS02.3	Verify operation of decontamination stations	46 CFR 153.216(b) & (c) IBC Code 14.3.4	
LS02.4	Verify presence of protective clothing	SOLAS 09 II-2/19.3.6.1	

Verifying Officer Guidance: *Applicable to ships carrying cargoes for which "Yes" is indicated in column "n" of IBC Code chapter 17.*

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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Firefighting Systems Examination (FF)

Foreign Chemical Tank Vessel

Task: FCTE-FF01 Examine water spray system

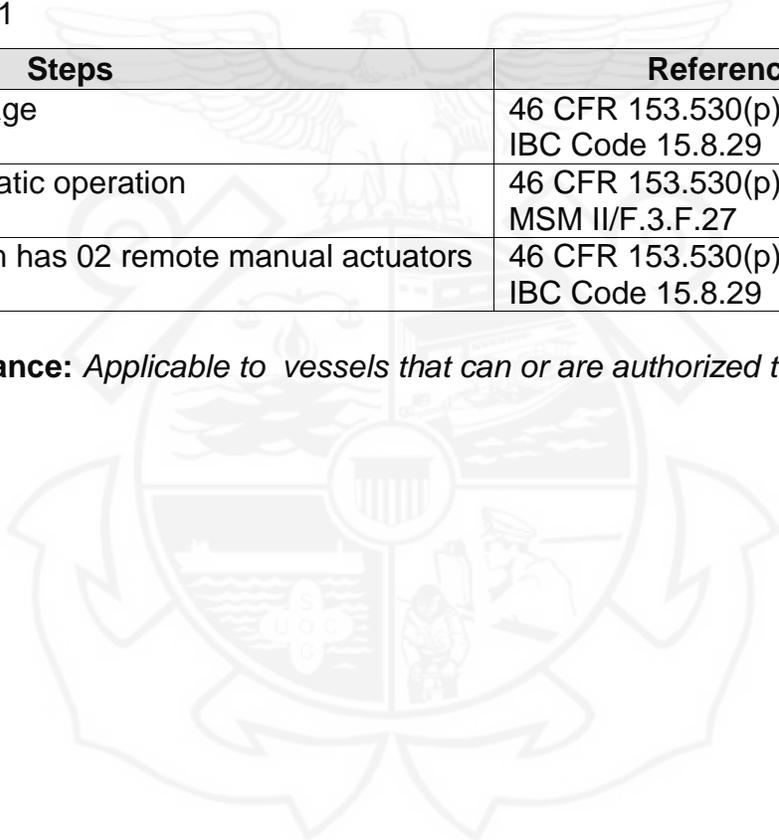
Condition: During firefighting equipment examination

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

- References:**
1. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 2. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1

Steps		References	Initials
FF01.1	Verify coverage	46 CFR 153.530(p) IBC Code 15.8.29	
FF01.2	Verify automatic operation	46 CFR 153.530(p)(1) MSM II/F.3.F.27	
FF01.3	Verify system has 02 remote manual actuators	46 CFR 153.530(p)(2) IBC Code 15.8.29	

Verifying Officer Guidance: *Applicable to vessels that can or are authorized to carry Alkylene Oxides as cargo.*



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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Firefighting Systems Examination (FF)****Foreign Chemical Tank Vessel****Task:** FCTE-FF02 Examine fixed deck foam system**Condition:** During firefighting equipment inspection**Standard:** In compliance with applicable policies, laws, regulations and standards

References:

1. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
2. International Code for Fire Safety Systems (FSS Code), 2007
3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1

Steps		References	Initials
FF02.1	Verify presence	IBC Code 11.3.1 & 11.3.3 IBC Code 11.3.9 & 11.3.10 IBC Code 11.3.16	
FF02.2	Verify operation of fire main isolation valves	IBC Code 11.3.11 FSS Code 14.2.3.4	
FF02.3	Verify foam monitors and applicators are capable of delivering foam	IBC Code 11.3.3 IBC Code 11.3.7, 11.3.8 & 11.3.10 FSS Code 14.2.3.2 & 14.2.3.3	
FF02.4	Witness operational test of foam monitors	IBC Code 11.3.3 & 11.3.5 IBC Code 11.3.8 & 11.3.12 FSS Code 14.2.3.2.2	
FF02.5	Verify location of main operation station	IBC Code 11.3.4	
FF02.6	Verify foam type (polar/non-polar) is compatible with cargoes	MSM II/D.6.B.3	

Verifying Officer Guidance: *No foam is to be discharged during system tests.*

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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Firefighting Systems Examination (FF)

Foreign Chemical Tank Vessel

Task: FCTE-FF03 Examine additional personal fire fighting equipment

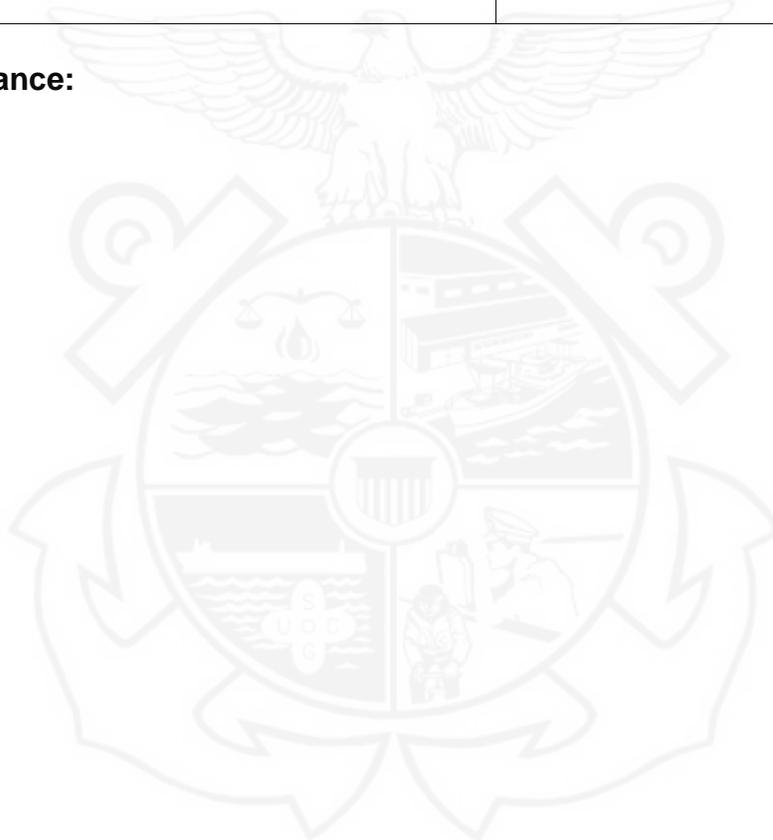
Condition: During firefighting equipment examination

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

References: 1. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
FF03.1	Verify additional fire fighting outfits	SOLAS 09 II-2/10.10.2.3	
FF03.2	Verify additional breathing apparatuses and charges	SOLAS 09 II-2/19.3.6.2	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Electrical Systems Examination (ES)****Foreign Chemical Tank Vessel**

Task: FCTE-ES01 Examine components installed in designated hazardous locations

Condition: *During electrical systems examination*

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

- References:**
1. Title 46, Code of Federal Regulations Part 111 Electric Systems General Requirements
 2. Title 46, Code of Federal Regulations Part 153 Ships Carrying Bulk Liquid, Liquefied Gas or Compressed Gas Hazardous Materials
 3. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended
 4. International Code for the Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)

Steps		References	Initials
ES01.1	Identify hazardous location(s)	46 CFR 111.105-1 46 CFR 153.466 IBC Code 10	
ES01.2	Verify fixtures are appropriate	SOLAS 09 II-1/45.5.4 SOLAS 09 II-1/45.11 IBC Code 10	
ES01.3	Verify system integrity	IBC Code 10 IBC Code 11.3.15	

Verifying Officer Guidance:

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

EMPLID:

Verifying Officer's Signature:

Date:

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Pollution Prevention Examination (PP)****Foreign Chemical Tank Vessel****Task:** FCTE-PP01 Examine containment on deck**Condition:** *During pollution prevention examination***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 drain(s) or scupper(s)	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:**

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Topside Equipment Examination (TE)****Foreign Chemical Tank Vessel**

Task: FCTE-TE01 Examine access to bow and emergency towing arrangements

Condition: *While on deck walk*

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. International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended

Steps		References	Initials
TE01.1	Verify safe access	SOLAS 09 II-1/3-3.2	
TE01.2	Verify towing arrangements	SOLAS 09 II-1/3-4.1 33 CFR 155.235	
TE01.3	Verify emergency towing arrangements	SOLAS 09 II-1/3-4.2 33 CFR 155.235	
TE01.4	Verify design is approved by Administration	SOLAS 09 II-1/3-4.2.2 SOLAS 09 II-1/3-4.3 33 CFR 155.235	

Verifying Officer Guidance:

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

EMPLID:

Verifying Officer's Signature:

Date:

Foreign Chemical Tanker Examiner (FCTE)**Certificate of Compliance****Follow Up Actions (FU)****Foreign Chemical Tank Vessel****Task:** FCTE-FU01 Verify International Safety Management (ISM) compliance**Condition:** Upon identification of a systemic failure**Standard:** In compliance with applicable policies, laws, regulations and standards

References:

1. International Safety Management (ISM) Code
2. IMO Resolution A.1052(27) Procedures for Port State Control, 2011
3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1

Steps		References	Initials
FU01.1	Verify clear grounds exist to initiate expanded exam	IMO Res A.1052(17) 2.4 MSM II/D.1.G.2	
FU01.2	Verify crew familiarity with vessel's Safety Management System (SMS)	ISM Code 6.1	
FU01.3	Verify company responsibilities and authority are clearly defined	ISM Code 3	
FU01.4	Verify record keeping compliance	ISM Code 11	
FU01.5	Verify maintenance requirements	ISM Code 10	
FU01.6	Verify SMS training requirement	ISM Code 6.3 & .4	
FU01.7	Review audit documentation and follow-up actions	ISM Code 1.4.6, 9.2	

Verifying Officer Guidance:

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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Follow Up Actions (FU)

Foreign Chemical Tank Vessel

Task: FCTE-FU02 Issue deficiency(s)

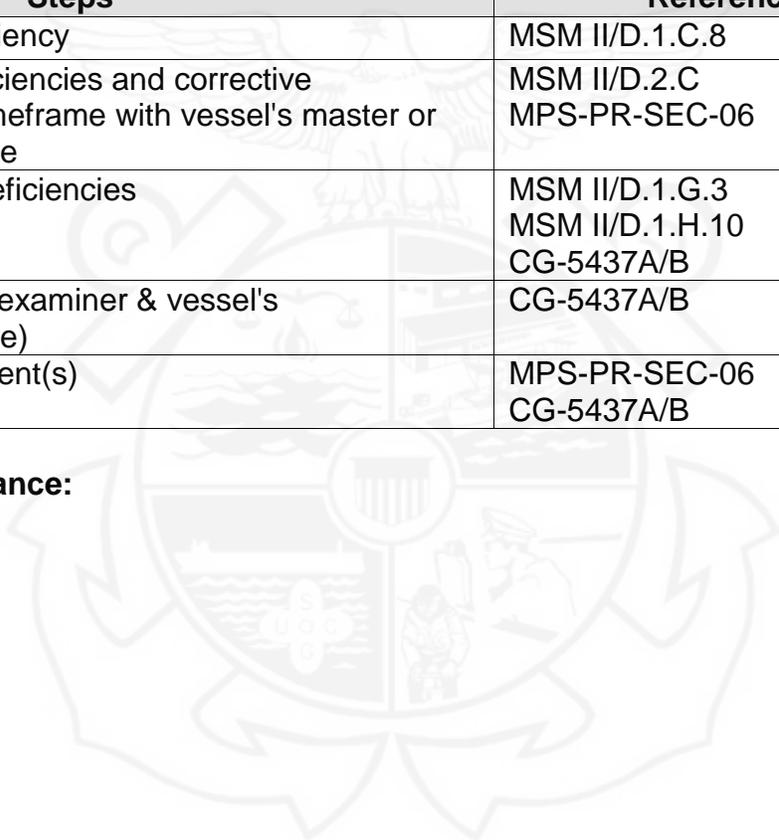
Condition: Upon completion of examination

Standard: In accordance with current policies, procedures and processes

- References:**
1. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1
 2. MPS-PR-SEC-06 Conducting Foreign Vessel Examinations
 3. Forms CG-5437A/B USCG Port State Control Report of Inspection

Steps		References	Initials
FU02.1	Identify deficiency	MSM II/D.1.C.8	
FU02.2	Discuss deficiencies and corrective measures/timeframe with vessel's master or representative	MSM II/D.2.C MPS-PR-SEC-06	
FU02.3	Document deficiencies	MSM II/D.1.G.3 MSM II/D.1.H.10 CG-5437A/B	
FU02.4	Sign forms (examiner & vessel's representative)	CG-5437A/B	
FU02.5	Issue document(s)	MPS-PR-SEC-06 CG-5437A/B	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Follow Up Actions (FU)

Foreign Chemical Tank Vessel

Task: FCTE-FU03 Issue control action(s)

Condition: Upon discovery of substantial non-compliance

Standard: In accordance with current policies, procedures and processes

- References:**
1. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1
 2. MPS-PR-SEC-06 Conducting Foreign Vessel Examinations
 3. Forms CG-5437A/B USCG Port State Control Report of Inspection

Steps		References	Initials
FU03.1	Determine control action	MSM II/D.2.C	
FU03.2	Complete reports and notifications (when applicable)	MSM II/D.2.E	
FU03.3	Issue control action(s)	MPS-PR-SEC-06 CG-5437A/B	
FU03.4	Explain control action(s) to responsible parties/stakeholders	MPS-PR-SEC-06 CG-5437A/B	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Follow Up Actions (FU)

Foreign Chemical Tank Vessel

Task: FCTE-FU04 Verify deficiency corrections

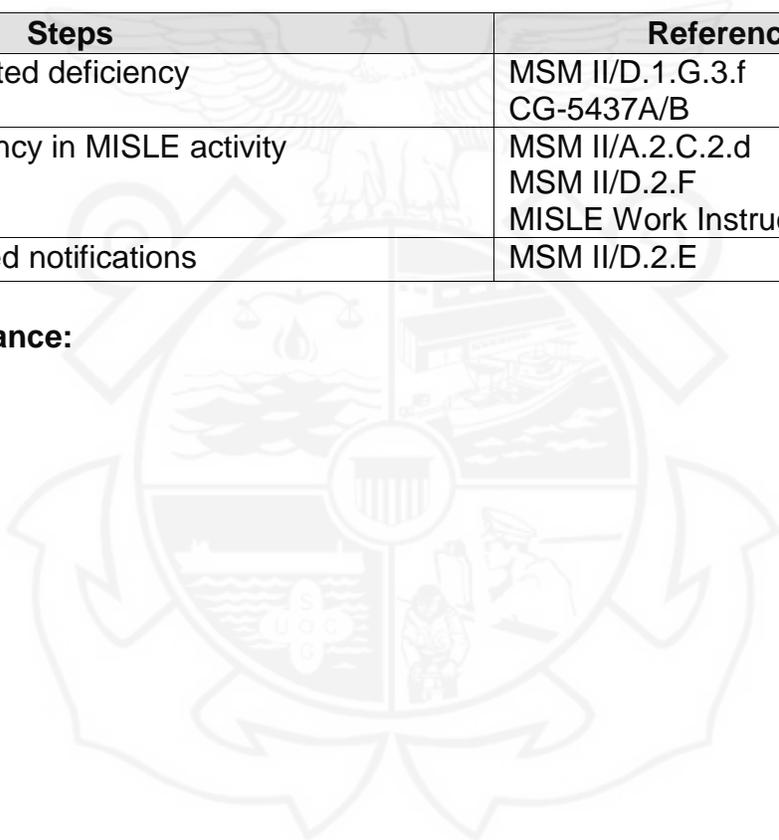
Condition: *During follow-up portion of exam*

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

- References:**
1. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch.1
 2. Forms CG-5437A/B USCG Port State Control Report of Inspection
 3. Mission Management System (MMS) Work Instruction - MISLE Data Entry Requirements for Foreign Vessels

Steps		References	Initials
FU04.1	Verify corrected deficiency	MSM II/D.1.G.3.f CG-5437A/B	
FU04.2	Clear deficiency in MISLE activity	MSM II/A.2.C.2.d MSM II/D.2.F MISLE Work Instruction	
FU04.3	Make required notifications	MSM II/D.2.E	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Follow Up Actions (FU)

Foreign Chemical Tank Vessel

Task: FCTE-FU05 Endorse certificates

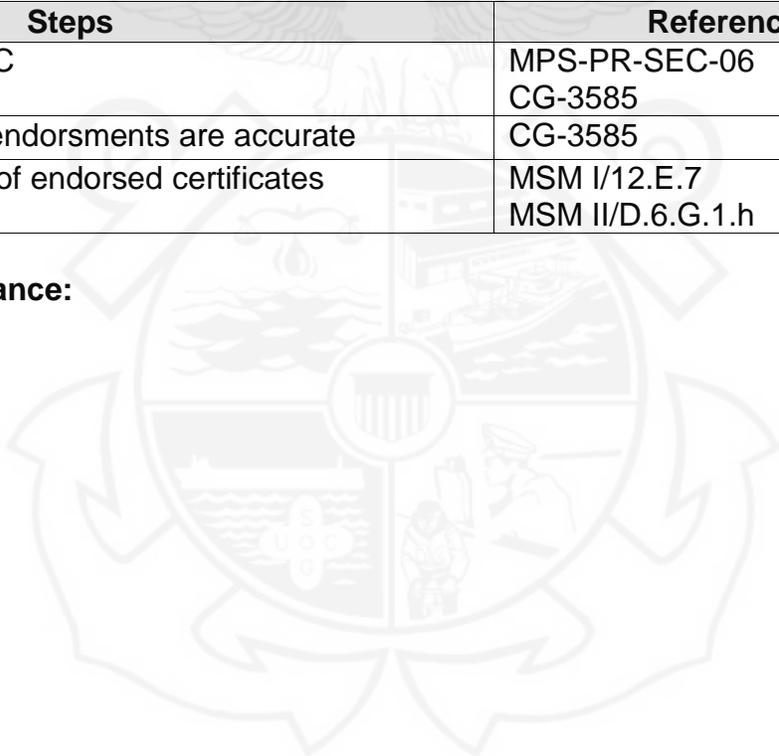
Condition: Upon completion of examination

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.1
 3. MPS-PR-SEC-06 Conducting Foreign Vessel Examinations
 4. Form CG-3585 Certificate of Compliance (COC)
 5. Forms CG-5437A/B USCG Port State Control Report of Inspection

Steps		References	Initials
FU05.1	Endorse COC	MPS-PR-SEC-06 CG-3585	
FU05.2	Verify COC endorsements are accurate	CG-3585	
FU05.3	Obtain copy of endorsed certificates	MSM I/12.E.7 MSM II/D.6.G.1.h	

Verifying Officer Guidance:



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

Foreign Chemical Tanker Examiner (FCTE)

Certificate of Compliance

Follow Up Actions (FU)

Foreign Chemical Tank Vessel

Task: FCTE-FU06 Complete Maritime Information for Safety and Law Enforcement (MISLE) Activity

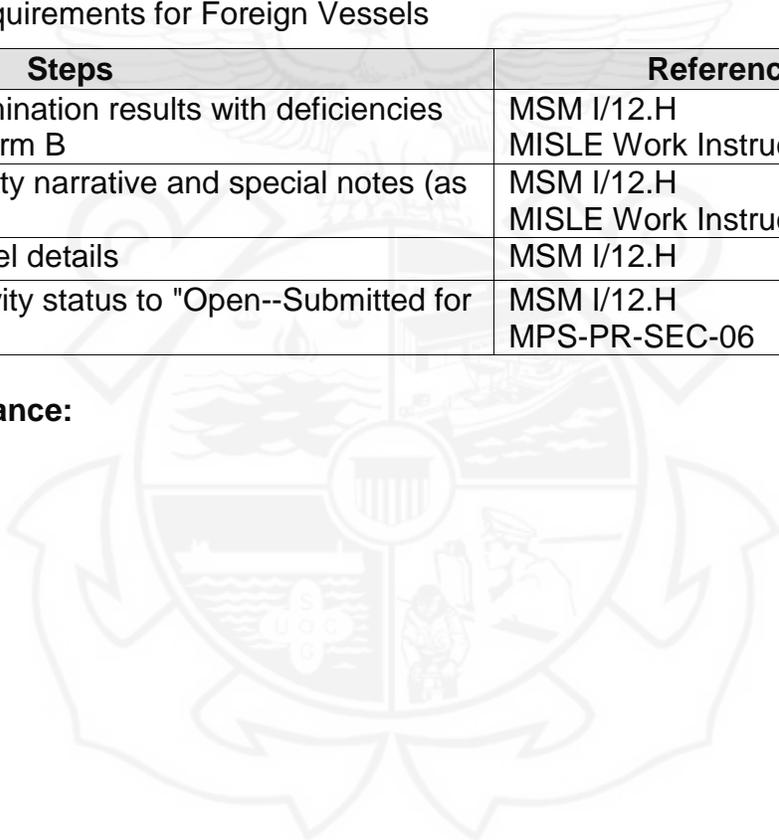
Condition: During follow-up portion of the examination

Standard: In accordance with current policies, procedures and processes

- References:**
1. COMDTINST M16000.6 Marine Safety Manual Volume I Administration & Management
 2. MPS-PR-SEC-06 Conducting Foreign Vessel Examinations
 3. Mission Management System (MMS) Work Instruction - MISLE Data Entry Requirements for Foreign Vessels

Steps		References	Initials
FU06.1	Update examination results with deficiencies issued on Form B	MSM I/12.H MISLE Work Instruction 3.b	
FU06.2	Update activity narrative and special notes (as necessary)	MSM I/12.H MISLE Work Instruction 3.c	
FU06.3	Update vessel details	MSM I/12.H	
FU06.4	Change activity status to "Open--Submitted for Review"	MSM I/12.H MPS-PR-SEC-06	

Verifying Officer Guidance:



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

Appendix A

List of Additional References:

Inspection of Labour Conditions On Board Ships: Guide-Lines for Procedure

International Convention for the Prevention of Pollution from Ships, 1973; MARPOL Cons. Ed. 2006

International Convention on Load lines, Cons. Ed. 2005

International Safety Management Code and Guidelines on Implementation of the ISM Code, 2010 Ed.

IMO Resolution A.788(19) – Guidelines on Implementation of the International Safety Management (ISM) Code by Administrations

IMO Resolution MEPC.76(40) – Standard Specification for Shipboard Incinerators

IMO Resolution MEPC.107(49) – Revised Guidelines and Specifications for Pollution Prevention Equipment for Machinery Space Bilges of Ships

IMO Resolution MEPC.227(64) – 2012 Guidelines on Implementation of Effluent Standards and Performance Tests for Sewage Treatment Plants

IMO Resolution MSC.163(78) – Performance Standards for Shipborne Simplified Voyage Data Recorders

IMO Resolution MSC.200(80) – Adoption of Amendments to the Revised Recommendation on Testing of Life-Saving Appliances

IMO Resolution MSC.201(81) – Adoption of Amendments to the International Convention for the Safety of Life at Sea, 1974, as Amended – Lifesaving Appliances and Arrangements

IMO MSC/Circ.1120 – Unified Interpretations of SOLAS Chapter II-2, the FSS Code, the FTP Code and Related Fire Test Procedures

IMO MSC/Circ.1156 – Guidance on the Access of Public Authorities, Emergency Response Services and Pilots On Board Ships to Which SOLAS Chapter XI-2 and the ISPS Code Apply

IMO MSC.1/Circ.1206/Rev.1 – Measures to prevent accidents with lifeboats

46 United States Code, Section 3303 – Reciprocity for Foreign Vessels

46 United States Code, Section 3505 – Prevention of Departure

46 United States Code, Section 701 – Port Security

33 Code of Federal Regulations, Subchapter O, Subparts C & D – Ballast Water Management for Control of Non-indigenous Species in Waters of the United States

Marine Safety Manual, Volume II, Section D, Chapter 7 – Procedures Applicable to Foreign Passenger Vessels

Navigation and Vessel Inspection Circular (NVIC) 06-03, Change 2 – Coast Guard Port State Control Targeting and Boarding Policy for Vessel Security and Safety

Navigation and Vessel Inspection Circular (NVIC) 07-04, Change 1 – Ballast Water Management for the Control of Aquatic Nuisance Species in the Waters of the United States

Appendix A

Navigation and Vessel Inspection Circular (NVIC) 01-05, Change 1 – Interim Guidance for the Development and Review of Response Plans for Nontank Vessels

Navigation and Vessel Inspection Circular (NVIC) 04-05 – Port State Control Guidelines for the Enforcement of Management for the Safe Operation of Ships (ISM Code)

Navigation and Vessel Inspection Circular (NVIC) 06-05 – Unified Interpretations of SOLAS Chapter II-2, the FSS Code, the FTP Code and Related Fire Test Procedures

G-MOC Policy Letter 02-05 – Navigation Safety Equipment Testing Required Under 33 CFR 164.25 for Cruise Ships

G-MOC Policy Letter 04-13 – Guidelines for the Inspection of Oily Water Monitor and Separator Systems Revision 1, dtd 24MAR2005

G-PCV Policy Letter 06-01 – Guidance for the Enforcement of MARPOL Annex I During Port State Control Examinations

G-PCV Policy Letter 06-08 – Enforcement Actions for U.S. and Foreign Flagged Passenger Ships on International Voyages Having Survival Craft Not Fit For Service

Marine Safety Center Plan Review Guidance SOLAS-25 – Room-In-Room Construction

Coast Guard Tactics, Techniques and Procedures (TTP) 3-72.2 – Foreign Passenger Vessel Examiners

Memorandum of Understanding between the Department of Health and Human Services and the Department of Homeland Security (DHS)

Appendix B

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

Advise: to counsel or recommend

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

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

Brief: to give information or final precise instructions

Change: to make different in some particular way

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

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

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

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

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

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

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

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

Ensure: to make certain, to guarantee

Enter: to make a record of; record or register

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

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

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

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

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

Appendix B

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

Make: to create or cause to happen

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

Observe (Witness): to watch carefully

Obtain: to gain or attain

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

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

Provide: to supply or make available

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

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

Update: to bring up to date or make current

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

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

Witness (Observe): to watch carefully

[This page intentionally left blank]

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

From: _____ Date: _____

PQS/CG-840 Title:

Section(s) Affected:

Remark(s)/Comment(s):

Reference(s):

Signature: _____

Submit to MIPQS840@uscg.mil by clicking the button