

TANKSHIP INSPECTION BOOK

Name of Vessel	
Official Number	Class
Date Completed	Location
Vessel Built in Compliance with SOLAS: 60 74 74/78 N/A	
Route <input type="checkbox"/> Oceans <input type="checkbox"/> Limited Coastwise <input type="checkbox"/> Lakes/Bays/Sounds <input type="checkbox"/> Coastwise <input type="checkbox"/> Great Lakes <input type="checkbox"/> Rivers	
Inspection Type <input type="checkbox"/> Inspection for Certification (COI) <input type="checkbox"/> Annual Inspection <input type="checkbox"/> Periodic Inspection	
Inspectors 1. _____ 3. _____ 2. _____ 4. _____	

Total Time Spent Per Activity:

Regular Personnel (Active Duty)			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
-------------------	--------------------

Reserve Personnel			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
-------------------	--------------------

Auxiliary Resources	
TOTAL BOAT HOURS	TOTAL AIRCRAFT HOURS

Use of Tankship Inspection Book:

This inspection book is intended to be used as a job aid by Coast Guard marine inspectors during inspections of U.S. flagged tankships. The lists contained within this book are not intended to limit the inspection. Each marine inspector should determine the depth of inspection necessary. A checked box should be a running record of what has been inspected. It does not imply that the entire system has been inspected or that all or any items are in full compliance. This job aid does not constitute part of the official inspection record.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFRs, NVICs or any locally produced cite guides for specific regulatory references. Not all items in this book are applicable to all vessels.

NOTE: *Guidance on how to conduct inspections of U.S. flagged tankships can be found in the Marine Safety Manual (MSM) Volume II, Chapter B1: Inspection of Vessels for Certification. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.*

Guide to Examinations:

- All vessels
- Vessels carrying dangerous cargoes in bulk

Pre-inspection Items:

- Review MISLE records.
 - COI
 - Vessel Critical Profile
- Obtain copies of forms to be issued.

Post-inspection Items:

- Issue letters/certificates to vessel.
- Complete MISLE Activity
- Initiate Report of Violation (ROV) if necessary.

Table of Contents:

Section 1: Administrative Items	
IMO Applicability Dates	1
Involved Parties & General Information	2
Vessel Information	3
Vessel Description	3
Section 2: Certificates and Documents	
Certificates	8
Logs and Manuals	9
Pollution Prevention Records	10
Chemical Cargo Records	11
Section 3: Inspection Items for All Vessels	
Navigation Equipment	12
General Health and Safety	15
Structural Integrity	17
Ground Tackle	19
Cargo Operations	19
Inert Gas Systems	22
Vapor Control Systems	22
Lifesaving Equipment	23
Fire Protection	29
Pollution Prevention	32
Marine Sanitation Devices	34
MTSA/ISPS Compliance	35
Section 4: Additional Inspection Items: Vessels Carrying Dangerous Chemicals in Bulk	
Emergency Equipment	45
Cargo Operations	46
Cargo Tanks	46
Cargo Piping	47
Quick-closing Valves	48
Venting	48
Gauging	49
Pump rooms	50
Electrical Systems	50
Gas Detection	51
Section 5: Drills	
Fire Drill	52
Abandon Ship Drill	53
Security Drill	54
Section 6: Appendices	
Vessel Layout	55
Cargoes Requiring a Response Plan	57
Prohibited Chemical Cargoes	58
Recommended US Vessel Deficiency Procedures	59
Deficiency Summary Worksheet	60
Conversions	61

Conversions:

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

Involved Parties & General Information:

Vessel's Representatives _____ _____
Phone Numbers

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

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

Recommended US Vessel Deficiency Procedures:

Step	Action								
1	Identify deficiency.								
2	Inform vessel representative.								
3	Record on the <i>Deficiency Summary Worksheet</i> (next page).								
4	If deficiency is corrected prior to end of inspection, go to Step 7.								
5	If deficiency is unable to be corrected prior to end of inspection, issue CG-835 in accordance with table below. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>IF deficiency:</th> <th>THEN issue CG-835:</th> </tr> </thead> <tbody> <tr> <td> Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g., <ul style="list-style-type: none"> • Missing placards • Non-metallic expansion joints more than 10 years in service </td> <td> That provides a specific time for correcting deficiency, e.g., <ul style="list-style-type: none"> • "X" number of days • At next drydock </td> </tr> <tr> <td> Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g., <ul style="list-style-type: none"> • Expired international certificates • Automation defect </td> <td> That restricts operation of vessel to meet current vessel conditions, e.g., <ul style="list-style-type: none"> • Reduced route • Increased crew </td> </tr> <tr> <td> DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g., <ul style="list-style-type: none"> • Missing or defective firefighting equipment • Structural defect or damage </td> <td> That requires the deficiency to be corrected prior to operating vessel ("NO SAIL" item), e.g., <ul style="list-style-type: none"> • Prior to carrying cargo </td> </tr> </tbody> </table>	IF deficiency:	THEN issue CG-835:	Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g., <ul style="list-style-type: none"> • Missing placards • Non-metallic expansion joints more than 10 years in service 	That provides a specific time for correcting deficiency, e.g., <ul style="list-style-type: none"> • "X" number of days • At next drydock 	Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g., <ul style="list-style-type: none"> • Expired international certificates • Automation defect 	That restricts operation of vessel to meet current vessel conditions, e.g., <ul style="list-style-type: none"> • Reduced route • Increased crew 	DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g., <ul style="list-style-type: none"> • Missing or defective firefighting equipment • Structural defect or damage 	That requires the deficiency to be corrected prior to operating vessel ("NO SAIL" item), e.g., <ul style="list-style-type: none"> • Prior to carrying cargo
IF deficiency:	THEN issue CG-835:								
Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g., <ul style="list-style-type: none"> • Missing placards • Non-metallic expansion joints more than 10 years in service 	That provides a specific time for correcting deficiency, e.g., <ul style="list-style-type: none"> • "X" number of days • At next drydock 								
Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g., <ul style="list-style-type: none"> • Expired international certificates • Automation defect 	That restricts operation of vessel to meet current vessel conditions, e.g., <ul style="list-style-type: none"> • Reduced route • Increased crew 								
DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g., <ul style="list-style-type: none"> • Missing or defective firefighting equipment • Structural defect or damage 	That requires the deficiency to be corrected prior to operating vessel ("NO SAIL" item), e.g., <ul style="list-style-type: none"> • Prior to carrying cargo 								
6	Enter CG-835 data in MISLE								

Prohibited Chemical Cargoes:

The following cargoes have been determined to be too hazardous to be carried in U.S. waters:

1. Acrolein
2. Chlorine (on self-propelled vessels)
3. Ethylenimine
4. Hydrofluoric Acid
5. Hydrogen
6. Hydrogen Chloride
7. Hydrogen Fluoride
8. Methylcyclopentadienyl Manganese Tricarbonyl
9. Nitric Acid (in concentrations > 70%)
10. Nitrogen Tetroxide
11. Oxygen
12. Phosphorus Trichloride
13. (Beta) Propiolactone

Vessel Information:

Classification Society	
ISM Issuer: Same as above? <input type="checkbox"/> Yes <input type="checkbox"/> No If not the same, which Recognized Organization? _____	
<i>NOTE: The period of validity for ISM documents should correspond to the following list. If they do NOT, ISM documents should be further investigated.</i>	
<input type="checkbox"/> 5 years = Full term (SMS and DOC) <input type="checkbox"/> 12 months = Interim (DOC)	
<input type="checkbox"/> 6 months = Interim (SMC) <input type="checkbox"/> 5 months = Short term (SMC)	
Gross Tons	<input type="checkbox"/> No Change
Net Tons	<input type="checkbox"/> No Change
Built Date (use delivery date)	<input type="checkbox"/> No Change
Overall Length (in feet)	<input type="checkbox"/> No Change
Does vessel meet double-hull requirements? <input type="checkbox"/> Yes <input type="checkbox"/> No If not, vessel must meet requirements by _____ (date) in accordance with 33 CFR Part 157 Appendix G.	
Last Three Cargoes 1. _____ 2. _____ 3. _____	
Is pumproom gas-free? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Vessel Description:

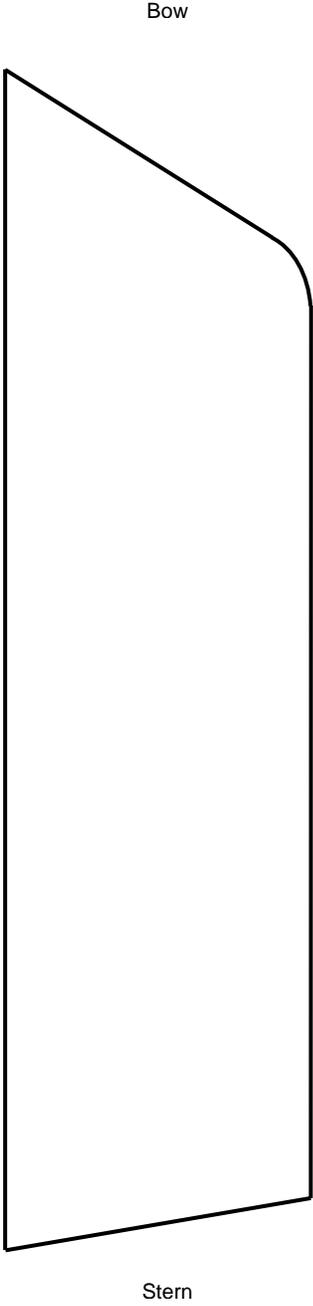
- | | |
|---|---|
| <input type="checkbox"/> Crude Carrier | <input type="checkbox"/> Combination |
| <input type="checkbox"/> Product Carrier | <input type="checkbox"/> Oil / Bulk / Ore |
| <input type="checkbox"/> Chemical Carrier | <input type="checkbox"/> Other |
- _____

Section 2: Certificates and Documents

Name of Certificate	Issuing Agency	ID #	Port Issued	Issue Date	Exp. Date	Endorse Date
Certificate of Documentation <input type="checkbox"/> No Change	USCG					
Classification Document <input type="checkbox"/> No Change						
Certificate of Financial Responsibility (COFR) <input type="checkbox"/> No Change	USCG					
Safety Construction (SLC) <input type="checkbox"/> No Change						
Safety Equipment (SLE) <input type="checkbox"/> No Change	USCG					
Safety Radio (SLT) <input type="checkbox"/> No Change						

Cargoes Requiring a Response Plan:

Type of Cargo	Name of Cargo		
Asphalt Solution	• Blending stocks	• Roofers stock	• Straight run residue
Animal Oils	• Tallow • Lard • Stearic acid	• Olive acid • Sperm oil	• Fish oil • Fish liver
Distillates	• Flashed feed stocks	• Straight run	
Easenal Oils	• Pinene	• Turpentine	• Dipentine
Edible Oils	• Corn • Coconut	• Soybean • Olive	• Cotton seed
Gasolines	• Automotive • Aviation • Casinghead	• Polymer • Straight run • Gas, oil cracked	• Akylates • Reformates
Naptha	• Aromatic • Cracking fraction • Heavy	• Paraffinic • Petroleum • Solvent	• Stoddard solvent • Varnish makers
Oils	• Clarified oil • Crude oil • Fuel oils [# 1 (Kerosene), # 2, # 2D, # 4, # 5, # 6] • Residual fuel oil • Transformer oil • Lube oil and blending stock	• Aromatic oil (excluding vegetable oil) • Mineral oil • Motor oil • Penetrating oil • Spindle oil • Turbine oil • Octene	• Olefin • Animal • Range • Residual • Resin • Road • White (mineral)

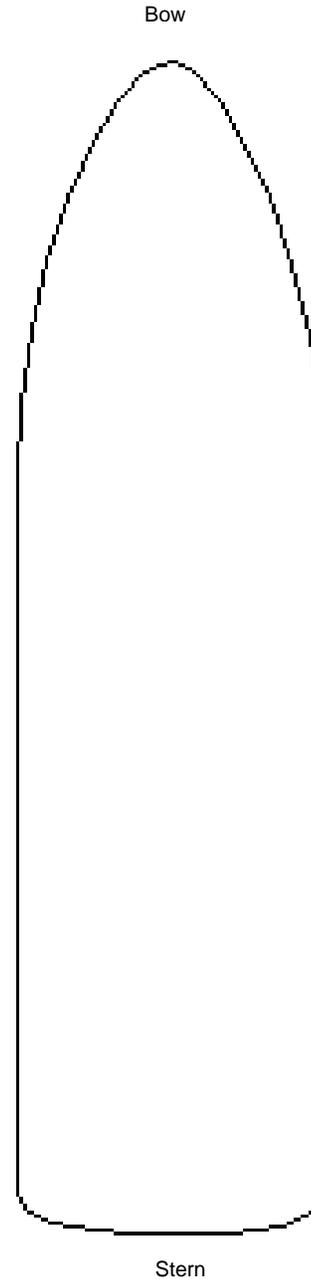


Name of Certificate	Issuing Agency	ID #	Port Issued	Issue Date	Exp. Date	Endorse Date
International Load Line <input type="checkbox"/> No Change						
International Oil Pollution Prevention w/Form B (IOPP) <input type="checkbox"/> No Change						
Certificate of Fitness (COF) <input type="checkbox"/> No Change	USCG					
International Tonnage (ITC) <input type="checkbox"/> No Change						
Safety Management (SMC) <input type="checkbox"/> No Change						
Document of Compliance (DOC) <input type="checkbox"/> No Change						

Name of Certificate	Issuing Agency	ID #	Port Issued	Issue Date	Exp. Date
International Ship Security Certificate (ISSC) <input type="checkbox"/> No Change					
International Air Pollution Prevention Certificate (IAPP) <input type="checkbox"/> No Change					
Engine International Air Pollution Prevention Certificate (EIAPP) <input type="checkbox"/> No Change					

Section 6: Appendices

Vessel Layout:



- Double hull/bottom/sides
- Ballast tanks (SBT/CBT)
- Chemical tank type: I II III
- Tank arrangement
- Deckhouse location
- External/internal framing
- Layout of pumps – type

Pollution Prevention Records:

- Oil record book
 - Each operation signed by person-in-charge
 - Each complete page signed by master
 - Book maintained for 3 years

MARPOL Ax. I/20
33 CFR 151.25

- Review the Shipboard Oil Pollution Emergency Plan (SOPEP) for the following:
 - Approval from flag state or classification society
 - Written in English and working language of crew
 - Procedures for reporting oil pollution incidents
 - List of authorities or persons to be contacted in the event of an oil pollution incident
 - Action to be taken immediately by persons on board to reduce or control discharge of oil following an incident
 - Procedures and POC on the ship for coordinating shipboard action with national and local authorities in combating pollution

MARPOL 73/78 Annex I/26.1
33 CFR 151.26

- Review Tank Vessel Response Plan (TVRP) for the following:
 - Verify that USCG TVRP Approval Letter is valid and not expired
 - Verify that your COTP Zone is an approved zone listed on letter
 - Verify that QI is identified in Plan (Optional – Recommended, not required – call QI and verify contact information in plan is accurate)
 - Verify if OSRO resources are adequate for vessel and they are listed for COTP Zone (Optional – Recommended, not required – call QI and ask for copy of OSRO contract for your COTP Zone)
 - Check plan for any recent updates/ significant changes made since date on Approval Letter.

33 CFR 155.1030
33 CFR 155.1035
33 CFR 155.1065
33 CFR 155.1070

- Cable
 - Condition
- Electrical fixtures on deck
 - Explosion-proof or intrinsically safe
 - No frayed or exposed wires
 - Material condition

NVIC 2-89

Gas Detection:

- Portable gas detectors
 - Number _____
 - Type
 - Flammable gas detectors
 - Calibrated 46 CFR 153.465
 - Tested
 - Toxic gas detectors
 - Capable of measuring all toxic cargoes authorized to be carried 46 CFR 153.526
 - Calibrated

- Fixed gas detectors 46 CFR 153.526
 - Calibration
 - Crew knowledgeable in operation
 - Span gas available
 - Zeroing
 - Calibration curves available for all cargoes carried
 - Tested

Notes: _____

Pump rooms:

Ventilation

WARNING: Pump room must be adequately ventilated prior to personnel entry.

- Forced exhaust 46 CFR 153.310
- Termination of external openings 46 CFR 153.312
- Intake below and above floor plates
- Operable from outside pumproom
- Adequate volume
- Material condition of ducting

Pumps

- Pressure gauges outside pump room and operable 46 CFR 153.333
- Type of drive _____
- Material condition

Shaft seals (where motor rooms are installed)

- Leakage
- Vapor-tight
- Adequate supply of oil (where required)

General

- Hoisting arrangement 46 CFR 153.332
- Bilge pumping system 46 CFR 153.334
 - Operational
 - Remote controls
 - High-level alarm

Electrical Systems:

NOTE: Requirements for inspecting the following electrical items are detailed in Subchapter J as per 46 CFR 153.466.

Explosion-proof lighting fixtures 46 CFR 111.105

- Tight globe
- Heavy construction
- Explosion-proof seals around cables

Notes: _____

Verify vessel has access to shore-based computerized damage stability programs 33 CFR 155.240

Oil transfer procedures 33 CFR 155.720 MARPOL 73/78 I/20

- Posted
- List of products carried by vessel
- Description of transfer system including a line diagram of piping
- Number of persons required on duty
- Duties by title of each person
- Means of communication
- Procedures to top off tanks
- Procedures to report oil discharges

Chemical Cargo Records:

Approved Procedures & Arrangement Manual 46 CFR 153.490(a) 46 CFR 153.490(b)

Cargo record book 46 CFR 153.490

Cargo information cards 46 CFR 153.907

Cargo location plan 46 CFR 153.907

- Cargo compatibility 46 CFR Part 150

Cargo piping plan 46 CFR 153.910

Shipping document 46 CFR 153.907

Waiver letters carried 46 CFR 153.10

Certificate of inhibition or stabilization 46 CFR 153.912

- Date added to cargo
- Length of time effective
- Temperature limitations

Current copy of 46 CFR Parts 35, 150, and 153 aboard 46 CFR 153.905

Notes: _____

Section 3: Inspection Items for All Vessels

Navigation Equipment:

- Navigation publications (as applicable)
 - Current and corrected charts 46 CFR 35.20-1
 - U.S. Coast Pilot 33 CFR 164.33
 - Great Lakes Pilot SOLAS 74/78 V/20
 - Sailing directions
 - Coast Guard Light List
 - Notice to mariners
 - Tide tables
 - Tidal current tables
 - International Rules of the Road
 - Inland Rules of the Road

- Operationally test radar(s) and ARPA
 - 2 required if over 10,000 GT 46 CFR 32.15-30
 - Operate independently 33 CFR 164.35
 - ARPA acquires targets 33 CFR 164.37
 - 33 CFR 164.38
 - SOLAS 74/78 V/12

- Compasses
 - Illuminated gyrocompass with repeater at stand 46 CFR 32.15-35
 - Illuminated magnetic compass 33 CFR 164.35
 - Current deviation table SOLAS 74/78 V/12

- Test electronic depth sounding device and recorder
 - Accurate readout 46 CFR 32.15-10
 - Test all transducers 33 CFR 164.35
 - Continuous recorder (chart) SOLAS 74/78 V/12

- Speed and distance indicator
 - 33 CFR 164.40
 - SOLAS 74/78 V/12

- Propulsion shaft tachometer
 - SOLAS 74/78 V/12

Notes: _____

- Vent outlets
 - Height above highest cargo area working level 46 CFR 153.350
 - Directed vertically upward 46 CFR 153.351
 - Flame arrestor (where required) 46 CFR 153.352
 - Weather hood
 - Flame screens
 - Located away from air intakes and openings to accommodation spaces

- P/V valves
 - Material condition 46 CFR 153.368
 - Operation
 - Flame screens 46 CFR 153.463

Gauging:

- Type of gauging system
 - Open 46 CFR 153.400
 - Restricted
 - Closed

- High-level alarms
 - Operation 46 CFR 153.409
 - Audible and visual signals
 - Last tested and inspected _____
 - Markings

- Overfill controls
 - Set points 46 CFR 153.408

- Cargo samples
 - Designated stowage locations 46 CFR 153.935(a)
 - Ventilation

Notes: _____

Quick-closing Valves:

NOTE: Requirements for quick-closing valves are detailed in 46 CFR 153.284.

- Operation
 - Tested from at least 2 remote locations
 - Closure time < 30 seconds
 - All valves fully closed
 - Pumps automatically shut off
- Capable of local manual operation
 - Reasonably short time
 - Under emergency conditions
- Fusible elements
 - Located at tank domes and loading manifold
 - No paint on face of plug

Venting:

- Type of vent system
 - Open, gooseneck
 - P/V
 - High velocity 46 CFR 153.355
- Vent piping 46 CFR 153.353
 - No stop valves allowed
 - Bypass capability 46 CFR 153.361
 - Material condition
 - Segregation
 - Independent
 - Common
 - Portable
 - Agreement with plans
 - Suitable connections for flushing and draining
 - Coated or lined same as tank 46 CFR 153.362
 - Prohibited materials 46 CFR 153.236

Notes: _____

- Radio equipment 47 CFR Part 80
 - Radios, RDF, Loran 33 CFR 26.03
 - Electronic position fixing device tested SOLAS 74/78 V/7
 - GMDSS meets requirements for vessel operating area SOLAS 74/78 V/12
33 CFR 164.41
NVIC 9-93
- Internal communications and control system 46 CFR 113.30
 - EOT failure alarms 46 CFR 113.35
 - Telephones MSM Ch. B1.J.4
 - Voice tubes 46 CFR 32.30-1
 - Emergency loudspeaker system
 - Public address system
 - Bell pulls
 - Pilothouse controls 46 CFR 113.50
- Navigation lights and signals 72 COLREGS
 - Control panels 46 CFR 111.75-17
 - Running lights MSM Ch. B1.J.5.c
 - Anchor lights MSM Ch. C2.J
 - Special day and night signals
 - Distress signals and stowage
 - Flag signals, international code
 - Whistle, light, bells, gongs 46 CFR 32.15-5
 - Day and night signal devices
 - Certificate of Alternate Compliance 33 CFR 81.9
- Steering gear 46 CFR 31.10-15
 - Main gear tested (all stations) 46 CFR 61.20-1
 - Auxiliary gear tested (all stations) 46 CFR 58.25
 - Instructions and markings 33 CFR 164.35
 - Rudder angle indicator 33 CFR 164.39
 - Illumination 46 CFR 113.43
 - Alarms SOLAS 74/78 II-1/29
 - Block diagram SOLAS 74/78 II-1/30
SOLAS 74/78 V/19-1
SOLAS 74/78 V/19-2
MSM Ch. C4.F
NVIC 1-69
NVIC 1-81

Notes: _____

- Maneuvering facts sheet with warning statements 33 CFR 164.35
- EPIRB (406 MHz) SOLAS 74/78 IV/7.1.6
 - Float-free arrangement 46 CFR 199.510
 - Battery date current NVIC 2-93
 - Hydrostatic release
- GMDSS lifeboat radios (VHF) SOLAS 74/78 III/6.2
 - 3 if over 500 GT NVIC 9-93
 - Operable condition
- 9 GHz radar transponder (SART) SOLAS 74/78 III/6.2
 - Vessels > 300 GT and < 500 require 1 NVIC 9-93
 - Vessels > 500 GT require 2
 - Stowed so to be rapidly placed in survival craft, or stowed in survival craft
- NAVTEX SOLAS 74/78 IV/7.1.4
- Voyage Data Recorder (VDR) SOLAS 74/78 V/20
 - Simplified (SVDR) if permitted
- Long Range Identification & Tracking (LRIT) 33 CFR 169
 - Conformance Test Report SOLAS 74/78 V19-1
- Automatic Identification System (AIS) 33 CFR 164.46

Notes: _____

- Special tank linings 46 CFR 153.266
 - Heating system 46 CFR 153.430
 - If toxic cargoes only, system must be separate from vessel's heating system and contamination detection must be available
 - Cooling system 46 CFR 153.432
 - Cargo high pressure and temperature alarms 46 CFR 153.438
 - Audible
 - Visual
 - Location
- Cargo Piping:**
- Material condition
 - Annual hydrostatic test 33 CFR 156.170
 - Properly marked 46 CFR 15.294
 - Valves 46 CFR 153.283
 - Tank valves
 - Hose connection points
 - Agreement with plans 46 CFR 153.910
 - New piping
 - No unauthorized modification
 - Prohibited materials 46 CFR 153.236
 - Aluminum or aluminum alloys
 - Copper or copper alloys
 - Zinc, galvanized steel, or alloys having > 10% zinc
 - Magnesium
 - Lead
 - Silver or silver alloys
 - Mercury

Notes: _____

- Crew respiratory/eye protection 46 CFR 153.527
 - EEBD > 15-minute duration

Cargo Operations:

- Warning signs and signals
 - Red signal visible, light/flag 46 CFR 153.953
 - Warning signs at gangway 46 CFR 153.955
 - “Warning”
 - “Dangerous Cargo”
 - “No Smoking”
 - “No Open Lights”
- Portable cargo hose 46 CFR 153.940
 - Marked or stenciled
 - Date
 - Tested
 - Test pressure
 - MAWP
 - Service temperature
 - Maximum
 - Minimum
 - Test pressure
- Cargo discharge methods
 - Pumproom
 - Deepwell pump
 - Submerged pump
 - Gas pressurization 46 CFR 153.964
 - Liquid displacement 46 CFR 153.966

Cargo Tanks:

- Trunks and hatches, ullage openings 46 CFR 153.256
 - Condition
 - Gaskets
 - Closure
 - Butterworth openings
 - Closed
 - Fitted with flame screens

Notes: _____

General Health and Safety:

- Hospital and first aid equipment 46 CFR 32.40-35
- Operating room explosion-proof 46 CFR 111.105-37
- Emergency lighting 46 CFR 112.43
46 CFR 35.10-15
SOLAS 74/78 II-2/43.2
- Crew accommodations 46 CFR 32.40
 - Size
 - Lighting and wiring
 - Heating
 - Ventilation
 - Sanitation
 - Screens 46 CFR 31.10-45
 - Insulation
 - Fire retardant
- Galley MSM Ch. B1.N.8
 - Equipment
 - Sanitation
 - Ventilation
- Means of escape from accommodation, machinery, and other spaces 46 CFR 32.02-1
SOLAS 74/78 II-2/45
 - Two required (some exceptions)
 - Dead end corridors
 - Absence of locks
- Notices and markings where required 46 CFR 35.40
 - Conspicuous
 - Legible
 - Proper size
- Gas freeing for repairs MSM Ch. A5.H
 - Current Gas Chemist Certificate for areas as required
 - Date _____
 - Chemist No. _____
- Paint stowage 46 CFR 32.85
 - Closures
 - Fireproof / metal lined SOLAS 74/78 II-2/18.7
 - Lighting / electrical
 - Fire protection
 - Markings

- Storerooms
 - Stowage
 - Fire hazards
 - Lighting and wiring
- Oxygen sensor (oxygen analysis equip.) SOLAS 74/78 VI/3.1
- Combustible gas indicator 46 CFR 35.30-15
NVIC 12-86
- LPG systems, cylinders, tests 46 CFR 61.15-10
- Pilot ladder and hoists in good condition 46 CFR 32.90-1
SOLAS 74/78 VI/17
 - Illumination
 - Spreaders
- Intrinsically safe portable radios 46 CFR 35.30-30
- Safe access to tanker bows SOLAS 74/78 II-1/3-3
(vessels built prior to 1 JUL 98 not required to comply until 1 JUL 2001)

Notes: _____

Section 4: Additional Inspection Items for Vessels Carrying Dangerous Chemicals in Bulk

Emergency Equipment:

- Safety gear lockers
 - Proper locations (minimum of 2)
 - Labeled "Safety Equipment"
 - Proper type and amount of safety equipment 46 CFR 153.214

Equipment	Amount Required per Safety Gear Locker Location	
	Primary Shutdown Station	Secondary Shutdown Station
2 stretchers with lifting equipment	1	1
30-minute SCBA	3	2
SCBA refill tanks	11	6
First aid equipment	2	1
Overalls or long apron	2	1
Boots	2	1
Long-sleeved gloves	2	1
Goggles	2	1
Steel-cored lifeline with harness	2	1
Explosion-proof flashlight	2	1

- Self-contained breathing apparatus
 - Material condition
 - Operation
- Decontamination showers and eye wash on deck 46 CFR 153.216
 - Operation
 - Suitably marked

Notes: _____

- Security measures for monitoring
 - IAW VSP
 - Lighting
 - Test intrusion alarms
 - Emergency search procedures

- ASP Implemented in its entirety

- Amendment and audit
 - Users of ASP's are required under condition of ASP approval to conduct yearly audit and advise submitting organization if amendment is needed.
 - CSO / VSO audit letter attached to VSP as required ISSC
 - Audits conducted as required (annually or after vessel modifications)

33 CFR 104.285
IAW ASP

33 CFR 104.140
IAW ASP

33 CFR 104.415
IAW ASP

Should an enforcement inspection reveal that an owner/operator has correctly implemented an approved ASP in its entirety but security vulnerabilities exist in the vessel operation, the COTP shall be advised. Under 33 CFR 104.415 (a) (ii) for vessels or 33 CFR 105.415 (a) (ii) (f), the Coast Guard can determine that an amendment is necessary and advise the organization that submitted the ASP for approval accordingly. Following such notification, it will be necessary for the original submitting organization to provide their proposed amendment to the Commandant (CG-543) for review and approval. If the submitting organization does not wish to amend the ASP, the vessel owner must submit a VSP for the vessel to the MSC.

Notes: _____

Structural Integrity:

- Hull structure (list inaccessible compartments or areas)
 - Decks
 - Shell
 - Bulkheads
 - Tank tops
 - Strength members
 - Approved plans on board

- Hull openings and closures
 - Side ports
 - Air ports and dead covers
 - Refuse chutes
 - Cargo tank hatches
 - Butterworth plates
 - Closing devices, gaskets
 - Light/water test

- Deck openings and closures
 - Closing devices
 - Gaskets
 - Light/water test

- Guards, ladders, rails, and gangways (including accommodation ladders or pilot ladders)

- Catwalks, lifelines at hazardous places, cable traveler

- Elevators

- Watertight doors in subdivision bulkhead tested by:
 - Local and remote control
 - Alarms
 - Markings

- Cargo gear examined (in absence of Cargo Gear Certificate)
 - Records
 - Safe Working Load markings

46 CFR 31.10-15
ICLL 66 Reg. 1

46 CFR 31.10-22

46 CFR 42.13-20
46 CFR 42.15
MSM Ch. B1.E.5
ICLL 66 Regs. 12 - 23
NVIC 5-82
NVIC 10-82, Change 1

MSM Ch. B1.E.5
ICLL 66 Regs. 12 - 20

46 CFR 32.02-10
46 CFR 32.02-15
ICLL 66 Reg. 25

46 CFR 32.02-10

46 CFR 111.91

46 CFR 111.97
46 CFR 170.248
46 CFR 170.270

46 CFR 31.10-16
46 CFR 31.37

- Exercise valves and controls 46 CFR 38.10
 - Bilge valves
 - Overboard discharge valves
 - Equalizing valves
 - Emergency shutoff valves
 - Scupper valves
 - Remote control
 - Reach rods

- Bilge wells, cofferdams, and suction 46 CFR 56.50-50
- Bulkhead penetrations MSM Ch. B1.E.6
- Piping protection MSM Vol. IV Ch. 3.G.2.b
 - Removable guards (where required)
 - Baggage spaces
- Hull marks 46 CFR 67.120
 - Name 46 CFR 32.05-10
 - Hailing port
 - Official number
 - Net tonnage
- Draft marks 46 CFR 32.05-1
 - Legible
 - Properly sized
 - Properly spaced
- Load line marks 46 CFR 31.25-1
46 CFR 42.07-5
46 CFR 42.13-20
ICLL 66 Regs. 4 - 9
 - Conform to certificate
 - Legible

Notes: _____

- Security systems and equipment maintenance 33 CFR 104.260
IAW ASP
 - Testing completed IAW manufacturer's recommendations
 - Working properly, effectively functions IAW VSP.
 - Ship Security Alert System (SSAS)

- Security measures for access control 33 CFR 104.265
IAW ASP
 - Access points examined – signs posted in conspicuous locations.
 - Control areas for authorized dangerous substances / devices
 - Means of identifying unauthorized personnel
 - TWIC for unescorted access to secure areas

- Security measures for newly hired employees (Pending receipt of TWIC) 33 CFR 104.267
IAW ASP
 - Access permitted for up to 30 days if:
 - Has applied for TWIC
 - Accompanied by TWIC holder in secure areas
 - Operator enters new hire personal info in HOMEPORT
 - Notified via HOMEPORT that new hire has passed initial name check.
 - Provision does not apply to CSO, VSO or individual hired to perform security duties

- Security measures for restricted areas 33 CFR 104.270
IAW ASP
 - Secure areas protected
 - Properly marked
 - Control measures adequate
 - Do not conflict with safety measures

- Security measures for handling cargo IAW ASP
33 CFR 104.275
 - Identifying cargo tamper
 - Identifying approved cargo
 - Access point – inventory control
 - Checking cargo for dangerous substances

- Security measures for delivery of vessel stores and bunker 33 CFR 104.280
IAW ASP
 - Security procedures followed
 - Standing agreements valid

- Vessel Record Keeping Requirements** 33 CFR 104.235
IAW ASP
 - Training
 - Drills and exercises
 - Breaches of security
 - Change in MARSEC levels
 - Maintenance, calibration, and testing of security equipment.
 - Security threats
 - Annual audit of the VSP
 - Declaration of Security (DoS)
 - Retained for Two years

- MARSEC level coordination and implementation** 33 CFR 104.240
IAW ASP
 - Proper MARSEC level
 - MARSEC level at least at current port level

- Communications** 33 CFR 104.245
IAW ASP
 - Vessel security personnel
 - Facility
 - National and local authorities
 - Demonstrate communications operations consistent with the ASP

- Declaration of Security (DoS)** 33 CFR 104.255
33 CFR 104
 - Required for cruise ships or manned CDC bulk vessels and any vessel or facilities with which it interfaces.
 - Valid (for MARSEC level and effective time period)
Must have last 10 or continuous DoS reviewed at interval consistent with MARSEC level.
 - Signed

Notes: _____

Ground Tackle:

- Anchors** 46 CFR 32.15-15
ABS Rules
 - Tested
 - Windlass
 - Capstans
 - Automatic tensioning device

- Mooring, standing and running gear (other than gear covered by Cargo Gear Certificate)** 46 CFR 32.15-15
ABS Rules

- Emergency towing arrangements** SOLAS 74/78 II-2/3-4
(vessels ≥ 20,000 DWT only)
 - Approved by Administration

Cargo Operations:

- Warning notices and signals posted** 46 CFR 35.30-1

- Pump rooms/pumps** 46 CFR 32.60-20
46 CFR 32.50-1
46 CFR 35.35-70
46 CFR 32.55-45
46 CFR 32.55-1
46 CFR 32.50-1
46 CFR 32.52-5
 - Pumps and controls
 - Relief valves
 - Cofferdams
 - Ventilation
 - Bulkhead penetrations
 - Bilges clean
 - Free of excessive vapors
 - Closures 46 CFR 34.15-35
 - Remote shutdown 46 CFR 32.50-35
 - Electrical controls outside compartment 46 CFR 111.105

Notes: _____

- Cargo tanks
 - Trunks and hatches
 - Ullage openings
 - Liquid level gauges
 - Open 46 CFR 32.20-20
46 CFR 39.20-3
 - Restricted
 - Closed
 - Liquid level devices 46 CFR 32.22T
 - Deck penetrations 46 CFR 32.50-15
 - Heating coils 46 CFR 111.105
 - Explosion-proof electrical fittings 33 CFR 155.840
 - Overfill device
- Cargo piping
 - Expansion joints 46 CFR 32.50-15
33 CFR 156.170
 - Controls 46 CFR 56.30
 - Supports 46 CFR 56.35
 - Hoses
 - Valves 46 CFR 56.20
- Hoses
 - External examination 46 CFR 32.50-30
33 CFR 155.800
 - Hydrostatic test 33 CFR 156.170
 - Markings 33 CFR 154.500
- Cargo oil containment
 - Size 33 CFR 155.310
SOLAS 74/78 II-2/59
 - Drains
 - Scupper closures

Notes: _____

- Name of approved ASP 33 CFR 104.140
 - _____
- Compliance Documentation 33 CFR 104.120
 - Copy of ASP aboard vessel
 - Vessel Specific Security Assessment (VSA) completed
 - Letter to MSC stating use of approved ASP and that it has been fully implemented
- Master 33 CFR 104.205
IAW ASP
 - Aware of responsibility and authority with regards to MTSA
- Company Security Officer (CSO) 33 CFR 104.210
IAW ASP
 - Training / experience
 - Valid TWIC
 - See list of example questions
- Vessel Security Officer (VSO) 33 CFR 104.215
IAW ASP
 - Training / experience
 - Valid TWIC
 - See list of example questions
- Company or vessel personnel with security duties 33 CFR 104.220
IAW ASP
 - Training / experience
 - Valid TWIC
 - See list of example questions
- Security Training for all other vessel personnel 33CFR 104.225
IAW ASP

Notes: _____

Alternative Security Program (ASP):

Vessels operating under the auspices of an approved ASP are required to address the relevant areas cited in 33 CFR parts 104. However, the ASP provision of the rule has provided a mechanism by which segments of the maritime industry, through application by the industry associations or other representative groups, are able to tailor their program to the unique functions inherent of their specific operations. The result is a set of relevant, performance-based security measures for the industry groups choosing to utilize an approved ASP. For this reason, the inspector of a vessel using an approved ASP may find that certain language or security measures contained in some parts of the rule will differ from the language or security measures listed in the ASP. An example would be the requirement in 33 CFR 104.265 (e) (3) that vessels check the identification of any person seeking to board the vessel at MARSEC Level 1. In an ASP, the approval authority may take into account the availability of video monitoring capable of facial feature recognition and recording and approve this as satisfying the intent of the requirement for individual identification. Additionally, an industry or group may determine that a section of the regulations is not applicable to their operations. For example, a passenger vessel group may state in their ASP that they do not need to address 33 CFR 104.275 or 33 CFR 105.265, respectively – security measures for handling cargo – because they do not handle cargo of any type.

In those cases where both the vessels and the facilities serving those vessels are owned and/or operated by the same entity, an alternative plan may recognize that the same party is responsible for security in both areas and approve an approach that addresses vulnerabilities and mitigation strategies for the vessels and the facility under one ASP. Therefore, the inspector will not be using separate plans for the vessels and the facility to determine compliance and, likewise, will not see some citations addressed in the plan if they are redundant between 33 CFR 104 and 33 CFR 105.

- Cargo tank venting 46 CFR 32.55-20
 - Common header system
 - P/V valves 46 CFR 32.20-5
 - Flame arrestors 46 CFR 32.20-10
 - Flush and drain connections 46 CFR 151.15-5
 - Inert gas controls
 - Piping
 - Independent PV valves 46 CFR 32.55-20
 - Flame screen 46 CFR 32.20-10
 - Independent goosenecks 46 CFR 32.55-25
 - Flame screen 46 CFR 32.20-10
 - Closure device
- Explosion-proof fixtures 46 CFR 111.105
- Independent tanks 46 CFR 32.60-30 46 CFR 153.251
 - External examination _____
 - Date of internal examination _____
 - Date of hydrostatic test _____
 - Saddles; foundation and stowage
 - Piping and valves
 - Relief valves
 - Securing devices
 - Cargo hose
 - Electrical grounding
 - Authorized cargo
- Weather decks 46 CFR 111.105
 - Sources of vapor ignition
 - Doors, ports, scuttles,, gaskets, and closures satisfactory 46 CFR 32.56-21
 - Portable window air conditioners and fans
 - Ventilation systems
- Air compressor intakes 46 CFR 32.35-15
 - Prohibited locations

Notes: _____

- Security procedures followed
 - Standing agreements valid
- Security measures for monitoring 33 CFR 104.285
ISPS, Part A, 7.2.5
- IAW VSP
 - Lighting
 - Test intrusion alarms
 - Emergency search procedures
- Security Incident Procedures 33 CFR 104.290
- Witness during drill
- Additional requirements for passenger vessels or ferries 33 CFR 104.292
- Additional requirements for cruise ships 33 CFR 104.295
- Additional requirements – vessels on international voyages 33 CFR 104.297
ISPS, Part A, 19.1
SOLAS XI-2
Regulation 5.4.1
- ISSC issued
 - CSR updated
- Vessel Security Assessment Report 33 CFR 104.300
- Reviewed and attached to VSP
- Vessel Security Plan 33 CFR 104.400
- Reviewed
- Amendment and audit 33 CFR 104.415
- CSO / VSO audit letter attached to VSP as required ISSC
 - Audits conducted as required (annually or after vessel modifications)
- Ship Security Alert System (vessels subject to SOLAS only) ISPS Part A, 9.4.18
- On the bridge and one other location
 - Designed to prevent inadvertent activation
 - Covert (unmarked, silent, and need to know)
 - Tested IAW VSP

- Closed gauging arrangement 46 CFR 39.20-3
- Liquid overfill protection 46 CFR 39.20-9
- High-level and tank overfill alarms
 - Alarm with automatic shutdown system
 - Spill valve
 - Rupture disk
 - Intrinsically safe
 - Audible and visual alarms
 - Operational test

Lifesaving Equipment:

NOTE: Exemptions and alternatives for vessels not subject to SOLAS can be found in 46 CFR 199.600.

- General alarms 46 CFR 32.25
46 CFR 113.25
SOLAS 74/78 III/6.4
- Controls
 - Batteries and fuses
 - Tested
 - Markings
 - Bell locations audible 46 CFR 35.40
- Type of lifeboat
- Davit launched
 - Free fall
- Lifeboats stripped, cleaned and inspected 46 CFR 199.190(f)
- Date of annual servicing _____
- Lifeboats and work boats 46 CFR 199.201
46 CFR 199.202
46 CFR 199.261
46 CFR 199.262
SOLAS 74/78 III/19.2
SOLAS 74/78 III/26
MSM Ch. C2.H.2
46 CFR 199.176
- Hull and fittings
 - Tanks and fittings
 - Cradles
 - Gripes
 - Compressed air cylinders
 - Markings

Notes: _____

Lifeboat equipment and stowage
(use table below to determine required equipment)

46 CFR 199.175
SOLAS 74/78 III/41

Item Number	Item	International Voyage		Short International Voyage	
		Lifeboat	Rescue Boat	Lifeboat	Rescue Boat
1	Bailer ¹	1	1	1	1
2	Bilge pump ²	1		1	
3	Boathook	2	1	2	1
4	Bucket ³	2	1	2	1
5	Can opener	3		3	
6	Compass	1	1	1	1
7	Dipper	1		1	
8	Drinking cup	1		1	
9	Fire extinguisher	1	1	1	1
10	First aid kit	1	1	1	1
11	Fishing kit	1			
12	Flashlight	1	1	1	1
13	Hatchet	2		2	
14	Heaving line	2	2	2	2
15	Jackknife	1		1	
16	Knife ^{1,4}		1		1
17	Ladder	1	1	1	1
18	Mirror, signalling	1		1	
19	Oars, units ^{5,6}	1	1	1	1
20	Painter	2	1	2	1
21	Provisions (units/persons)	1			
22	Pump ⁷		1		1
23	Radar reflector	1	1	1	1
24	Rainwater collection device	1		1	
25	Repair kit ⁷		1		1
26	Sea anchor	1	1	1	1
27	Searchlight	1	1	1	1
28	Seasickness kit (units/person)	1		1	

- Security systems and equipment maintenance 33 CFR 104.260
 - Testing completed IAW manufacturer's recommendations
 - Working properly, effectively functions IAW VSP.
 - Ship Security Alert System (SSAS)

- Security measures for access control 33 CFR 104.265 ISPS, Part A, 7.2.2
 - Access points examined – signs posted in conspicuous locations.
 - Control areas for authorized dangerous substances / devices
 - Means of identifying unauthorized personnel
 - TWIC for unescorted access to secure areas

- Security measures for newly hired employees (Pending receipt of TWIC) 33CFR 104.267
 - Access permitted for up to 30 days if:
 - Has applied for TWIC
 - Accompanied by TWIC holder in secure areas
 - Operator enters new hire personal info in HOMEPORT
 - Notified via HOMEPORT that new hire has passed initial name check.
 - Provision does not apply to CSO, VSO or individual hired to perform security duties

- Security measures for restricted areas 33 CFR 104.270 ISPS, Part A, 7.2.4
 - Secure areas protected
 - Properly marked
 - Control measures adequate
 - Do not conflict with safety measures

- Security measures for handling cargo 33 CFR 104.275 ISPS, Part A, 7.2.6
 - Identifying cargo tamper
 - Identifying approved cargo
 - Access point – inventory control
 - Checking cargo for dangerous substances

- Security measures for delivery of vessel stores and bunker 33 CFR 104.280 ISPS, Part A, 7.2.6

- ❑ Company or vessel personnel with security duties
 - Training / experience
 - Valid TWIC
 - See list of example questions

33 CFR 104.220
ISPS, Part A, 13.1

- ❑ Security Training for all other vessel personnel

33 CFR 104.225
ISPS, Part A, 13.5

- ❑ Vessel Record Keeping Requirements
 - Training
 - Drills and exercises
 - Breaches of security
 - Change in MARSEC levels
 - Maintenance, calibration, and testing of security equipment.
 - Security threats
 - Annual audit of the VSP
 - Declaration of Security (DoS)
 - Retained for Two years

CFR 104.235
ISPS, Part A, 10.1

- ❑ MARSEC level coordination and implementation
 - Proper MARSEC level
 - MARSEC level at least at current port level

33 CFR 104.240

- ❑ Communications
 - Vessel security personnel
 - Facility
 - National and local authorities
 - Demonstrate communications operations consistent with the VSP

33 CFR 104.245
ISPS, Part A, 7.2.7

- ❑ Declaration of Security (DoS)
 - Required for cruise ships or manned CDC bulk vessels and any vessel or facilities with which it interfaces.
 - Valid (for MARSEC level and effective time period)
Must have last 10 or continuous DoS reviewed at interval consistent with MARSEC level.
 - Signed

33 CFR 104.255
ISPS, Part A, 5.1

Item Number	Item	International Voyage		Short International Voyage	
		Lifeboat	Rescue Boat	Lifeboat	Rescue Boat
29	Signal, smoke	2		2	
30	Signal, hand flare	6		6	
31	Signal, parachute flare	4		4	
32	Skates and fenders ⁸	1	1	1	1
33	Sponge ⁷		2		2
34	Survival instructions	1		1	
35	Table of lifesaving signals	1		1	
36	Thermal protective aids ⁹	10%	10%	10%	10%
37	Tool kit	1		1	
38	Tow line ¹⁰	1	1	1	1
39	Water (liters/person)	3		3	
40	Whistle	1	1	1	1

Footnotes:

- 1 Each rigid liferaft equipped for 13 persons or more must carry two of these items.
- 2 Not required for boats of self-bailing design.
- 3 Not required for inflated or rigid-inflated rescue boats.
- 4 A hatchet counts towards this requirement in rigid rescue boats.
- 5 Oars are not required on a free-fall lifeboat; a unit of oars means the number of oars specified by the boat manufacturer.
- 6 Rescue boats may substitute buoyant paddles for oars, as specified by the manufacturer.
- 7 Not required for a rigid rescue boat.
- 8 Required if specified by the boat manufacturer.
- 9 Sufficient thermal protective aids are required for at least 10% of the persons the survival craft is equipped to carry, but not less than two.
- 10 Required only if the lifeboat is also the rescue boat.

Notes: _____

- Disengaging apparatus examined or tested and marked as required*
 - Universal joints
 - Safety latches
 - Hooks
 - Locking knuckles
 - Frame
- Motor lifeboats*
 - Engine operating test
 - Cooling water pump
 - Ahead and astern test
 - Fuel tanks
 - Searchlight test (passenger vessels)
 - Annual fuel changed
 - Extinguishers serviced
- Hand-propelled lifeboats*
 - Flemming gear
 - Transmission oil
- Radio installation for lifeboats complies with FCC and/or international convention (where required)*
 - Portable
 - Fixed
- Lifeboat operational test*
- Davits
 - Foundations
 - Moving parts
 - Fittings
 - Fairleads, cleats, or cruciform bits
- Falls (date last renewed or end-for-ended)

46 CFR 199.45(b)
SOLAS 74/78 III/41
MSM Ch. C2.H.b

46 CFR 199.45(b)
SOLAS 74/78 III/41
MSM Ch. C2.H.2

46 CFR 199.45(b)

46 CFR 199.60
SOLAS 74/78 III/6

46 CFR 199.45(b)
SOLAS 74/78 III/19
MSM Ch. C2.H.2.b

46 CFR 160.032
SOLAS 74/78 III/48
MSM Ch. C2.H.2.b

46 CFR 199.190(j)
SOLAS 74/78 III/48
MSM Ch. C2.H.8

* Items tested in conjunction with Abandon Ship Drill.

Notes: _____

MTSA/ISPS Compliance

Vessel Security Plans (VSP):

(If using ASP, skip to next section)

- Compliance documentation
 - Approved Vessel Security Plan
- Waiver
 - Approved by CG-543
- Equivalent
 - Approved by CG-543
- Maritime Security (MARSEC) directive
 - Proper safeguards
 - Incorporated into VSP
- Master
 - Aware of responsibility and authority with regards to MTSAs
- Company Security Officer (CSO)
 - Training / experience
 - Valid TWIC
 - See list of example questions
- Vessel Security Officer (VSO)
 - Training / experience
 - Valid TWIC
 - See list of example questions

33 CFR 1043120
ISPS, Part A, 9.1

33 CFR 104.130

33 CFR 104.135

33 CFR 104.145

33 CFR 104.205

33 CFR 104.210
ISPS, Part A, 11.1

33 CFR 104.215
ISPS, Part A, 12.1

Notes: _____

- MARPOL Annex I survey 33 CFR 151.09
 - Discharge of cargo residue
 - Approved monitoring and control system
- MARPOL Annex II survey 33 CFR 151.30
 - Discharge of cargo residue
 - Approved monitoring and control system

Marine Sanitation Devices:

NOTE: Guidance for inspecting marine sanitation devices is detailed in MSM Volume II, Chapter C2.K.

- Marine sanitation device 33 CFR 159.55
MSM Ch. B6.F
 - Type I
 - Type II
 - Type III
- Certified for inspected vessels MSM Ch. B6.F.4
- Capacity satisfactory MSM Ch. C2.K.7.d
- Installation 33 CFR 159.57
MSM Vol. IV Ch. 3.K.1
 - Operation
 - Ventilation
 - Wiring and piping
 - Maintenance
 - Placard posted 33 CFR 159.59
 - Safety
 - Accessibility to parts requiring routine servicing
 - Manufacturer's instructions available

Notes: _____

- Lifeboat winches 46 CFR 199.199(i)
SOLAS 74/78 III/19
MSM Ch. C2.H.2.b
 - Brakes
 - Controls
 - Cranks
 - Covers
 - Limit switches and electrical controls
- Embarkation aids 46 CFR 199.190(f)
SOLAS 74/78 III/11
 - Ladders
 - Access
 - Spans and lifelines
 - Illumination
 - Frapping and tricing lines
- Lifeboat weight test 46 CFR 199.45(b)
SOLAS 74/78 III/19
MSM Ch. C2.H.6
 - Light load
 - Full load: date _____
- Liferrafts 46 CFR 199.190
SOLAS 74/78 III/19
SOLAS 74/78 III/26
MSM Ch. C2.H.3
46 CFR 199.190(g)
 - Launching instructions posted
 - Equipment and stowage
 - Annual service dates

 - Hydro release service dates 46 CFR 199.190(h)

 - Weak link
 - Float free
 - Illumination
 - Markings
 - Capacities
 - Launching devices tested MSM Ch. 6.R.3.d

Notes: _____

- Lifefloats and buoyant apparatus
 - Equipment 46 CFR 199.640
 - Stowage
 - Markings
- Line-throwing apparatus
 - Equipment 46 CFR 199.170
 - Required drills held SOLAS 74/78 III/17
 - Magazine NVIC 8-69
 - Type _____
- Lifebuoys
 - Lights 46 CFR 199.70(a)
 - Lines SOLAS 74/78 III/7
 - Smoke signals SOLAS 74/78 III/27
 - Stowage
 - Markings
- Lifejackets
 - Adult _____ Children _____
 - Retro-reflective tape 46 CFR 199.70(b)
 - Lights SOLAS 74/78 III/7.2.2
 - Whistles MSM Ch. 6.R.3.m
 - Work vests NVIC 2-63
 - Stamped passed MSM Ch. 6.R.3.q
 - Number of lifejackets rejected by inspector _____
- Lifejacket stowage
 - Required notices and markings 46 CFR 199.70(b)
 - Stowage lockers SOLAS 74/78 III/7.2
 - Wearing instructions 46 CFR 199.80(c)
 - Location instructions (passenger vessels) 46 CFR 199.70(b)(2)
 - 46 CFR 199.80(c)
 - 46 CFR 199.217
- Work vests
 - Approved type 46 CFR 35.03
 - Stowage 46 CFR 35.03-5
 - 46 CFR 35.03-15
- Stateroom notices posted 46 CFR 199.80(c)

Notes: _____

- Oily waste retention
 - Bilge 33 CFR 157.17
 - Tank MSM Ch. B6.D.7
- Ballast discharge
 - Acceptable processing equipment 33 CFR 155.330
 - 33 CFR 155.350
 - 33 CFR 155.360
 - 33 CFR 155.370
 - MSM Ch. B6.D.10
- Oily bilge discharge
 - Piping system 33 CFR 155.380
 - Stop valve
 - Standard discharge connection
 - Pump stop
- Prohibited oil spaces 33 CFR 155.430
- Prohibited oil spaces 33 CFR 155.470
- Emergency shutdown 33 CFR 155.780
- Discharge removal equipment
 - Sorbents 33 CFR 155.205
 - Non-sparking tools 33 CFR 155.210
 - Containers
 - Emulsifiers
 - Protective clothing
 - Scupper plugs
 - Non-sparking portable pump
- Deck lighting 33 CFR 155.790
- Garbage
 - Shipboard garbage properly disposed 33 CFR 151.63
 - MARPOL Ax. V/3
- Discharge from machinery space bilges
 - Approved monitoring and control system 33 CFR 151.10
 - Approved oil water separating equipment

Notes: _____

- Firemen's outfits
 - Two lockers
 - Four outfits
 - Protective clothing
 - Helmet, boots, and gloves
 - Lamp
 - Axe
 - Self-contained breathing apparatus and lifeline
 - Spare charges

46 CFR 35.30-20
 SOLAS 74/78 II-2/17.3
 NVIC 2-63
 NVIC 4-68

- Water spray system
 - Coverage (all tank domes, cargo manifolds, deck tanks)
 - Operation
 - Local/remote control
 - Manual or automatic
 - Tested
 - Can operate simultaneously with fire main systems
 - Controls marked
 - Material condition

46 CFR 34.25

Pollution Prevention:

NOTE: Guidance for inspecting pollution prevention items is detailed in MSM Volume II, Chapter 31.

- Pollution placard posted
 - 33 CFR 155.450
- MARPOL V placard posted
 - 33 CFR 151.59
- Person-in-charge designation
 - 33 CFR 155.700
 - 33 CFR 155.820
- Fuel oil containment
 - Portable
 - Fixed
- Fuel tank vents
 - Flame screens
 - Closures

33 CFR 155.700
 33 CFR 155.820
 33 CFR 155.320

46 CFR 56.50-85

Notes: _____

- Immersion suits
 - Condition
 - Retro-reflective material
- Placard of lifesaving signals
- Pilot ladder and hoists in good condition
- Station bill posted
- Distress signals
 - 12 rocket parachute flares

46 CFR 199.273
 SOLAS 74/78 III/27.3
 SOLAS 74/78 III/30.2.7
 MSM Ch. C2.H.5

46 CFR 35.12
 SOLAS 74/78 V/16

46 CFR 32.90-1
 SOLAS 74/78 V/17

46 CFR 35.10-1
 46 CFR 199.80
 SOLAS 74/78 III/8.3

46 CFR 199.60
 SOLAS 74/78 III/6.3

Fire Protection Equipment:

- Fire control plan
 - Permanently posted
 - Copy permanently stored in weather-tight container outside deckhouse
- Portable extinguishers
 - Annually serviced
 - Bottles hydrostatically tested (every 5 years)
 - Markings (weight and hydrostatic test date)
 - Spare charges, spare extinguishers
- Semi-portable extinguishers
 - Annually serviced
 - Bottles hydrostatically tested
 - Controls, instructions, markings
 - Hose and diffuser
 - Flexible loops tested or replaced (same as bottle)

46 CFR 35.10-3
 SOLAS 74/78 II-2/20

46 CFR 34.05-10
 46 CFR 34.50
 46 CFR 31.10-18(a)
 SOLAS 74/78 II-2/6
 SOLAS 74/78 II-2/21
 MSM Ch. C2.I.3
 NVIC 7-70
 NVIC 13-86

46 CFR 34.05-10
 46 CFR 34.50
 46 CFR 31.10-18(a)
 SOLAS 74/78 II-2/6
 SOLAS 74/78 II-2/21
 MSM Ch. C2.I.4
 NVIC 13-86

Notes: _____

Fixed fire extinguishing systems

- Controls, instructions, marking 46 CFR 34.05-5
- Alarms tested 46 CFR 34.15
- Piping 46 CFR 34.17
- Heads, distribution SOLAS 74/78 II-2/21
- Bottles weighed annually MSM Ch. C2.I
- Bottles hydrostatically tested (every 12 years) NVIC 6-70
- Flexible loops tested or replaced (10% per year) NVIC 6-72, Change 1
- Deck foam system NVIC 8-73
- Sea suction, strainers 46 CFR 31.10-18(a)
- Fixed system tested 46 CFR 34.20
- Storage space/door SOLAS 74/78 II-2/61

Type of system: (circle appropriate type)			
Low Pressure CO ₂	High Pressure CO ₂	Halon	Foam

Foam tanks

- Markings 46 CFR 34.17
- Test 46 CFR 35.40-10
- Analysis SOLAS 74/78 II-2/61
- Refilled NVIC 6-72
- Polar/non-polar foam NVIC 11-82
- Cargo compatible

Fire main system

- Pumps 46 CFR 34.05
- Piping 46 CFR 31.10-18(g)
- Cut-off valves 46 CFR 34.10-5
- Drains 46 CFR 31.10-18(f)
- 46 CFR 34.10-15(c)
- NVIC 6-72, Change 1
- SOLAS 74/78 II-2/4
- SOLAS 74/78 II-2/21
- MSM Ch. C2.1.9
- MSM Ch. C2.1.8

Notes: _____

Fire stations

- Hydrants (2 effective streams) 46 CFR 34.10-10
- Nozzles and spanners NVIC 6-72, Change 1
- Fog applicators (<6 feet in length, in engine room) SOLAS 74/78 II-2/4
- Hose SOLAS 74/78 II-2/21
- UL approved MSM Ch. 18.1.9
- Correct length MSM Ch. 19.1.7
- Markings 46 CFR 34.25-20
- Equipment compatible 46 CFR 32.05-5

Total length of all hose tested _____

- Hydrostatically tested to at least 100 psi 46 CFR 34.10-10
- Proper threads MSM Ch. 18.1.6
- Approved hose 46 CFR 31.10-18(g)

Structural fire protection

- Bulkheads 46 CFR 32.56
- Insulation 46 CFR 32.57
- 46 CFR 34.05
- 46 CFR 34.10
- 46 CFR 34.15
- 46 CFR 35.10-3
- SOLAS 74/78 II-2/42

Fire doors and controls tested

- Machinery space and stair towers 46 CFR 32.56-35
- Not tied or blocked open 46 CFR 111.103-1
- Installed closure devices working SOLAS 74/78 II-2/46
- SOLAS 74/78 II-2/47

Remote controls to power ventilation marked and tested

46 CFR 111.103-1

Closures for spaces protected by fixed smothering systems

International shore connection

46 CFR 34.10-15(d)
 SOLAS 74/78 II-2/19

Fire axe

- Markings 46 CFR 34.60
- 46 CFR 32.05-5

Notes: _____

