United States Coast Guard



SMALL PASSENGER VESSEL (T) INSPECTOR COMPETENCY CODE (TI)

Training Aid

Training Aid TI Rev. Jun 2015

Use of Port State Control Examiner Training Aid:

This is a condensed version of the PSC Examiner Performance and Qualification Standard (PQS) workbook. This Training Aid is intended to be used by Coast Guard Port State Control Examiner trainees during examinations of foreign flagged vessels subject to Port State Control. This Training Aid provides a quick reference for all the steps necessary to complete specific examination tasks listed in the PSCE Job Aid.

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.

TIW_L	II02 - Inspect wood hull	
	Inspect condition	46 CFR 176.610(a)
	mopost containen	NVIC 07-95 4.A-F
		MSM II/B.1.B.1
02	Inspect stress areas (garboard plank,	46 CFR 176.610(a)
	chine, etc.)	NVIC 07-95 4.N
.03	Inspect bungs for running rust or blisters	46 CFR 176.610(a)
.00	mapeet bungs for furning fast of bilaters	NVIC 07-95 4.K.1
.04	Inspect caulking	NVIC 07-95 4.L
.05	Verify no unauthorized repairs	46 CFR 176.700
.00	verify no undumonized repairs	40 01 10 17 0.7 00
TIW-F	IIO3 - Inspect wood hull fasteners (when applic	cable)
.01	Determine location of fasteners to be	NVIC 07-95 4.K.1
pulled		
.02	Inspect conditon of fastenings	46 CFR 176.610(a)
	•	NVIC 07-95 4.K.1
		NVIC 07-95 4.K.2
.03	Document type, condition, material, and	NVIC 07-95 4.K.2
	on of fastenings	
.04	Inspect through bolts (keel, chine, clamp,	NVIC 07-95 4.K.1
double	e frame, floor timber bolts, etc.) (when	NVIC 07-95 4.K.2
applic		
.05	Verify no unauthorized fastenings	NVIC 07-95
TIW_L	II04 - Conduct internal inspection of wood hull	
	Inspect condition	46 CFR 176.610(b)
.01	mapeet condition	NVIC 07-95 4.A-F
		MSM II/B.1.B.1
.02	Inspect frames and frame heads	NVIC 07-95 4.F.1.A
-	Inspect (sound) through bolts (keel, chine,	NVIC 07-95 4.K.1
	, double frame, floor timber bolts, etc.)	1110 07 00 1.16.1
	Verify no unauthorized repairs	46 CFR 176.700
	romy no unaumonizou ropuno	
TIW-F	II05 - Evaluate repair(s)	
	Evaluate extent of decay, defect(s) and	46 CFR 176.610
dama	ge	NVIC 07-95
	Review repair proposal	46 CFR 2.01-10(a)(2)
		46 CFR 176.700
		NVIC 07-95 Chapter 5
.03	Verify repair materials	46 CFR 176.700 & 177.300
	· ·	NVIC 07-95 Chapter 3
		Lloyd's Yachts & Small Craft
.04	Inspect repair(s)	46 CFR 176.610

NVIC 07-95 Chapter 5

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Pre-Inspection (PI)

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

LINOI	Emorodinont, database		
.01	Locate vessel	MSM I/12.G.5	
.02	Review particulars	MPS-PR-SEC-04	
.03	Verify documents are current	MSM I/12.G.2	
.04	Review history (narratives, deficiencies &	MSM I/12.G.2	
specia	al notes)	MSM I/12.G.7	
.05	Verify user fees	MSM I/12.G.2	
.06	Enter title and point(s) of contact	MSM I/12.G.2.a	

.07 Generate new activity
.08 Determine authority, jurisdiction and applicable regulations
MSM I/12.G.2.a
46 USC 3301
46 CFR 175.110

TI-PI02 - Coordinate inspection with vessel's representative

11-1 102 - Coordinate hispection with vessers representative		
Verify vessel's representative	MPS-PR-SEC-01	
Determine location and time of inspection	MPS-PR-SEC-01	
Discuss inspection expectations	46 CFR 176.800	
	MSM II/B.3.A	
Verify vessel's owner/operator information	MPS-PR-SEC-04	
Verify vessel's Classification Society	MPS-PR-SEC-04	
information (when applicable)		
Discuss outstanding conditions and/or CG-	MPS-PR-SEC-04	
Review planned repairs and alterations	46 CFR 176.700	
applicable)		
	Verify vessel's representative Determine location and time of inspection Discuss inspection expectations Verify vessel's owner/operator information Verify vessel's Classification Society	

TI-PI03 - Mitigate potential hazards encountered during an inspection

.01 Recognize potential hazards encountered	NFPA 306	
during inspection	29 CFR 1915.4	
.02 Determine confined spaces	MSM I/10 App.A	
.03 Determine if exam scope will require a	29 CFR 1915, Part B	
Marine Chemist certification for space entry	MSM II/A.5.H	
.04 Verify Marine Chemist has been scheduled	MSM I/10 App. A	
for every (when emplicable)		

for exam (when applicable)

.05 Prepare necessary personal protective MSM I.

MSM I/10 App. A Quattro Operator's Manual

equipment for exam

.06 Review CG policy for when to leave a

MSM I/10 App. A

46 CFR 175.112

space due to hazardous condition

Emergency Drill (ED)

TIS-ED01 - Witness man overboard drill under sail	
.01 Verify crew's ability to perform duties	46 CFR 185.420
	46 CFR 185.510
.02 Witness drill	46 CFR 185.512

Internal Structural Examination (IS)

TIS-IS01 - Inspect hull/mast internal support structure

.01	Inspect mast partner	46 CFR 176.802(a)(3)
.02	Inspect mast step structure	46 CFR 176.802(a)(3)
.03	Inspect chain plate backing / reinforcement	46 CFR 176.802(a)(3)
to hull	(when applicable)	

46 CFR 185.520

Stability (ST)

TIS-ST01 - Witness Simplified Stability Test (when applicable)

.01	Verify tumblehome/beam percentage	46 CFR 178.325(b)
~~	Marife control baselines as an east a classification of	00 4000

.02 Verify wind healing moment calculations.03 Verify location of immersion mark of flush.06-4006

deck type vessels (when applicable)

TIS-ST02 - Conduct operational stability and handling sail tests (when applicable)

.01	Review written test procedures	46 CFR 178.325(c)
.02	Witness test	46 CFR 178.325(c)
.03	Draft stability letter	46 CFR 178.210
		46 CFR 178,230

Wood Vessels

Lifesaving Equipment Inspection (LS)

TIW-LS01 - Verify survival craft

.01 Verify quantity 46 CFR 180.200(c)

Machinery Equipment Inspection (MI)

TIW-MI01 - Inspect bilge and high water alarms

.01 Verify location 46 CFR 182.530(b)

Hull Inspection (HI)

TIW-HI01 - Verify subdivision and damage stability requirements

.01 Verify presence of collision bulkhead 46 CFR 179.210(b)(4)

(when applicable)

.02 Verify subdivision (when applicable) 46 CFR 179.212(a)

TIS-TE02 - Inspect standing rigging components (stays and shrouds)			
.01 Inspect materiel condition of shrouds/stays	46 CFR 176.802(a)(3)		
.02 Inspect shroud/stay terminal end fittings	46 CFR 176.802(a)(3)		
(swaged/swageless)			
.03 Inspect fittings associated with rig tune	46 CFR 176.802(a)(3)		
(turnbuckles, cotter & clevis pins)			
.04 Inspect fittings associated with rig	46 CFR 176.802(a)(3)		
alignment (tangs, toggles, point loads)			
.05 Inspect shroud/stay attachment to hull			
(chainplates, stem fittings)			
.06 Inspect furler fittings (when applicable)	46 CFR 176.802(a)(3)		
.07 Inspect spreaders (when applicable)	46 CFR 176.802(a)(3)		
TIS-TE03 - Inspect rail configuration (when applicate			
.01 Verify approval for rail height and location	46 CFR 177.900(f)		
.02 Inspect configuration IAW with OCMI	46 CFR 177.900(f)		
approval			
TIS-TE04 - Inspect running rigging components (use	ed to handle sails and movable		
spars)			
.01 Inspect sheets (lines, blocks, shackles,	46 CFR 176.802(a)(3)		
cleats)			
.02 Inspect halyards (lines, blocks, shackles,	46 CFR 176.802(a)(3)		
cleats)			
.03 Inspect topping lift (when applicable)	46 CFR 176.802(a)(3)		
.04 Inspect sail control system (lazyjack,	46 CFR 176.802(a)(3)		
dutchman) (when applicable)			
.05 Inspect furler control sheets/cleats (when	46 CFR 176.802(a)(3)		
applicable)	10.050 170.000()(0)		
.06 Inspect cars, tracks, winches, vangs and	46 CFR 176.802(a)(3)		
travelers			
TIO TEOF 1			
TIS-TE05 - Inspect rigging/hull components under s			
.01 Inspect condition of sails	46 CFR 176.802(a)(3)		
(sitching/grommets/reinforcements)	46 CFR 176.802(c)		
.02 Witness crew's ability to set/strike sails	46 CFR 176.404(a)		
.03 Evaluate crew safety aloft (when	46 CFR 176.802(a)(5)		
applicable)	4C OED 477 E00(4)(2)()		
.04 Evaluate passenger safety	46 CFR 177.500(d)(3)(v)		
.05 Inspect wire tension and fittings on	46 CFR 176.802(a)(3)		
standing rigging	46 CFR 176.802(c)		
.06 Inspect operation of running rigging	46 CFR 176.802(a)(3)		
components	46 CFR 176.802(c)		
.07 Inspect hull/mast internal structure	46 CFR 176.802(a)(3)		
	46 CFR 176.802(c)		
TIC TEOC Inspection of extensions forester lands	oth and hull attacks sate		
TIS-TE06 - Inspection of catamaran forestay load pa			
.01 Inspect bow tube or beam arrangement	46 CFR 176.802(a)(3)		
.02 Inspect gull stay/dolphin striker	46 CFR 176.802(a)(3)		
.03 Inspect bridle stays	46 CFR 176.802(a)(3)		

Dockside Assessment (DA)

TI-DA01 - Conduct initial vessel visual examination			
.01	Verify presence of anchor(s) (when visible)	46 CFR 184.300	
.02	Verify draught (draft) marks	46 CFR 185.602	
.03	Verify name and hailing port	46 CFR 185.602	
		46 CFR 67.123	
.04	Evaluate hull for signs of pollution/illegal	33 CFR 151.10	
discha	arge	33 CFR 155.330	
		33 CFR 155.350	
.05	Evaluate hull condition	46 CFR 176.802	
.06	Examine means of embarkation	29 CFR 1915.74(a)(6)	
	way/ladders)		
.07	Verify condition of mooring lines	46 CFR 184.300	

Certificates and Documents (CD)

TI-CD	01 - Review Certificate of Inspection (COI)	
.01	Verify presence of original	46 CFR 176.302
.02	Verify amendments (when applicable)	46 CFR 176.120
.03	Verify manning	MSM III/B.2.C
		46 CFR 15.501
		46 CFR 185.304
.04	Verify certificate is endorsed	46 CFR 176.500(b)(1)(ii)
	02 - Verify vessel's stability letter	
.01	Verify presence of stability documents	46 CFR 178.210
		46 CFR 178,220

.01	Verify presence of stability documents	46 CFR 178.210
		46 CFR 178.220
		46 CFR 176.306
.02	Verify contents	46 CFR 178.230

FI-CD03 - Review Merchant Mariner Credentials (MMCs)				
&				
	x			

TI-CD04 - Verify compliance with drug and alcohol	orogram
.01 Verify currency of Employee Assistance	46 CFR 16.401
Program (EAP)	10 01 10 10 10 1
.02 Verify presence and currency of drug and	46 CFR 185.212
alcohol testing equipment (when applicable)	46 CFR 185.210
alconortesting equipment (when applicable)	
OO Marife training of decimated testion	46 CFR 4.06-15
.03 Verify training of designated testing	46 CFR 4.06-20(a)(3)
crewmember (when applicable)	46 CFR 4.06-20(b)(2)
.04 Verify random chemical testing program for	46 CFR 16.230
dangerous drugs	
.05 Verify pre-employment testing program for	46 CFR 16.210
dangerous drugs	
.06 Verify means of post accident testing	46 CFR 185.210
chemical testing for dangerous drugs	46 CFR 185.212
	46 CFR 4.06-15
TI-CD05 - Examine maintenance and service record	
.01 Review fire fighting service reports	46 CFR 176.810
.02 Review liferaft servicing reports (when	46 CFR 185.730
applicable)	
TI CDOC \/arify accombinate with the \/accol Concre	al Dayrait (VCD) (when annicable)
TI-CD06 - Verify compliance with the Vessel General	ai Permit (VGP) (when applicable)
.01 Verify Notice of Intent (NOI) has been	VGP 1.5.1.1 & 10
submitted	VGP Table 1
	CG-543 Policy Ltr 11-01
.02 Verify compliance with ballast water record	VGP 4.3
keeping requirements	CG-543 Policy Ltr 11-01
.03 Verify noncompliance & reportable quantity	VGP 4.4.1
reports have been submitted	VGP 4.4.2
	CG-543 Policy Ltr 11-01
TI 000	
TI-CD07 - Examine muster lists and emergency inst	
.01 Verify muster lists and emergency	46 CFR 185.510
instructions are available	46 CFR 185.512
.02 Verify muster lists and emergency	46 CFR 185.510
instructions are posted	
.03 Verify information on muster lists and	46 CFR 185.510
emergency instructions	46 CFR 185.512
.04 Verify station bill (when applicable)	46 CFR 185.514
TI CD09 Pavious Cortificate of Documentation (CC	ND)
TI-CD08 - Review Certificate of Documentation (CC	
.01 Verify presence of original	46 CFR 67.313
.02 Verify contact information	46 CFR 67.321
.03 Verify endorsement(s) for current	46 CFR 67.17
service(s)	46 CFR 67.19
.04 Verify validity	46 CFR 67.161
	46 CFR 67.163
TI CD00 Everning Foderal Communication - Comm	niggion Marina Dadia Occuptor
TI-CD09 - Examine Federal Communications Comm	nission ivianne Kadio Operator
Permit Verify processes	47 CEP 80 150(a)

.01 Verify presence

TII-FF03 - Inspect International Shore Connection (when applicable)			
.01 Confirm location with Safety Plan (Fire	Fire Control Plan		
Control Plan)			
.02 Verify gaskets and bolts are with the	SOLAS 14 II-2/10.2.1.7		
connection	FSS Code 2.2		
.03 Verify markings	IMO Res A.952(23)		
	Fire Control Plan		

Follow Up Action (FU)

TIA-FU01 - Issue/endorse vessel's certificates (when applicable)				
.01	Issue/endorse certificates, as applicable	46 CFR 175.120		
		SOLAS 14 I/14(i)(ii)		
		IMO Res A.1076(28)		
	Obtain a copy of all endorsed certificates e unit's vessel file	MSM I/12.E.7		

Sail Vessels

Certificates and Documents (CD)

TIS-CD01 - Review Master's Merchant Mariner Credential (MMC)			
.01 Verify auxiliary sail endorsement	46 CFR 15.901(d)		
TIS-CD02 - Review Rigging Plan (when applicable)			
.01 Verify vessel information and structure	46 CFR 177.202 (b)(12)		
particulars	46 CFR 177.202 (c)		
.02 Verify marked "examined" (when	46 CFR 177.202 (b)(12)		
applicable)	, , ,		
,			
TIS-CD03 - Review Sail Area Plan (Sail Plan)			
.01 Verify Sail Plan arrangement in Rigging	46 CFR 177.202(b)(12)(ii)		
Plan (when applicable)	- (-)()()		
.02 Verify Sail Plan is incorporated into stability	46 CFR 178.210		
letter	Stability Letter		

Topside Equipment Inspection (TE)

TIS-TE01 - Inspect spar(s) &fittings				
.01 Verify rig arrangement and design	46 CFR 176.802(a)(3) & 177.330 Approved Rig Plan Stability Letter			
.02 Inspect materiel condition of masts, yards, booms and gaffs	46 CFR 176.802(a)(3)			
.03 Inspect mast, yard, boom and gaff fittings.04 Inspect head rig (bow sprit/jib boom) spars and fittings (when applicable)	46 CFR 176.802(a)(3) 46 CFR 176.802(a)(3)			

47 CFR 80.159(e)

TII-BN	TII-BN07 - Inspect Global Maritime Distress and Safety System (GMDSS) equipment				
.01	Verify Station ID numbers on applicable	47 CFR 80.1083			
equipr	ment	SOLAS 14 IV/6.2.5			
.02	Review logs for tests and notations	47 CFR 80.1075			
		SOLAS 14 IV/17			
.03	Verify equipment for operation areas	47 CFR 80.10831095			
		SOLAS 14 IV/6.1			
		NVIC 03-99			
.04	Verify operation of VHF Digital Selective	47 CFR 80.1085(a)(1)			
Callin	g (DSC) radio	SOLAS 14 IV/7.1.1			
.05	Verify emergency source of power is	47 CFR 80.1099(b)			
provided		SOLAS 14 IV/13.2			
.06 Verify presence of manuals, tools, spare		47 CFR 80.1105			
parts and test equipment (when applicable)		SOLAS 14 IV/15			
		Operations Manual			
.07	Verify compliance with maintenance	47 CFR 80.1105(c)			
method(s)		SOLAS 14 IV/15.6			
		NVIC 03-99			

Lifesaving Equipment Inspection (LS)

TII-LS	01 - Inspect immersion suits (when applied)	<u>cable)</u>
.01	Verify type approval	46 CFR 180.10

		46 CFR 199.70(c)
		SOLAS 14 III/4
.02	Verify quantity and size presence	46 CFR 199.70(c)
.03	Verify stowage	46 CFR 199.70(c)(2)
.04	Verify markings	46 CFR 199.70(c)(3)
.05	Verify attachments & fittings	46 CFR 199.70(c)(4)
.06	Inspect condition and suitability	46 CFR 160.006-2

NVIC 01-08

SOLAS 14 II-2/15.3

Firefighting (FF)

.02 Verify location

TII-FF01 - Inspect emergency outfits and equipment				
	nber of outfits (as applicable)	SOLAS 14 II-2/10.10.2		
• •	re charges for breathing	SOLAS 14 II-2/10.10.2.5		
apparatus (when .03 Verify mea	applicable) ans for recharging breathing air	SOLAS 14 II-2/10.10.2.6		
cylinders (when a	cylinders (when applicable)			
	vage location (when applicable)			
.05 Verify mar	kings	SOLAS 14 II-2/10.10.3.1		
TII-FF02 - Inspect fire control plan .01 Verify contents SOLAS 14 II-2/15.3				

TI-CD10 - Review Federal	Communications	Commission	Bridge-to-Bridg	e Certificate
(when applicable)				

.01	Verify presence	47 CFR 80.1001
.02	Verify validity	47 CFR 80.1005
.03	Verify contents	47 CFR 80.1005

TI-CD11 - Review Federal Communications Commission Station License

.01 Verify presence	47 CFR 80.13
.02 Verify that other classes of equipment are	47 CFR 80.17
authorized for operation	
02 Varify contents	47 CED 00 00

 .03
 Verify contents
 47 CFR 80.99

 .04
 Verify validity
 47 CFR 80.25

TI-CD12 - Review Federal Communications Commission Safety Radiotelephony

Certifi	cate (when applicable)	
.01	Verify presence	47 CFR 80.59 (a)(2)
		47 CFR 80.901
		47 CFR 80.933
.02	Verify validity	47 CFR 80.59
.03	Verify contents	47 CFR 80.59

Logs and Manuals Inspection (LM)

TI-LM01 - Review vessel's log

.01 Verify EPIRB tests (when applicable)	46 CFR 185.728
.02 Verify drills	46 CFR 185.524
,	46 CFR 185.520
.03 Verify maintenance of survival craft, rescue	46 CFR 185.702(d)
boats, and launching appliances (when	
applicable)	

TI-LM02 - Examine Waste/Garbage Management Plan (when applicable)

.01 Verify validity	33 CFR 151.57
	MARPOL V/9.2
	46 CFR 184.702
.02 Verify contents	MARPOL V/9.2
•	IMO Guidelines - Appendix 3

Bridge/Navigation Inspection (BN)

TI-BN01 - Verify operations of internal communication and control systems

operating station to propulsion machinery space	46 CFR 184.602
(when applicable)	
.02 Witness operation of Public Address	46 CFR 184.610
System (when applicable)	
.03 Verify two independent means of	46 CFR 184.620
controlling each propulsion engine (when	

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applicable)

"I-BN02 - Inspect radar(s) (when applicable) .01 Verify safety precautions are followed	Operation Manual	TII-SD04 - Evaluate crew's knowledge of secur .01 Identify Company Security Officer (CSO	
.02 Verify operation	46 CFR 184.404	, , , , , ,	SOLAS 14 Reg XI-2/4.2
	Operation Manual		ISPS Code A/11.1
		.02 Identify Vessel Security Officer (VSO)	33 CFR 104.200(b)(2)
I-BN03 - Inspect magnetic compass (when appli			ISPS Code A/12.1
.01 Verify illumination (when applicable)	46 CFR 184.402(c)	.03 Evaluate VSO knowledge regarding	33 CFR 104.215(e)
.02 Verify mounting location	46 CFR 184.402(a)	his/her responsibilities	ISPS Code A/12.2
.03 Verify operation	46 CFR 184.402(a)		NVIC 04-03 Encl. 3 Section
		.04 Evaluate crew's level of knowledge	33 CFR 104.220
I-BN04 - Inspect electronic position-fixing device	(satellite navigation (GPS) receiver)	regarding their security responsibilities	ISPS Code A/13.3
/hen applicable)	10.050 101.110	.05 Verify compliance with current Maritime	NVIC 04-03 Encl. 3 Section 33 CFR 104.240
.01 Verify operation	46 CFR 184.410	Security (MARSEC) level	33 CFR 104.240 33 CFR 104.215(e)(9)
.02 Witness functional test	46 CFR 184.410	Security (MANSES) level	ISPS Code A/12.2.9
	Operations Manual		131 3 Gode A 12.2.9
-BN05 - Verify radio telephone equipment (when	applicable)	Bridge/Navigation Inspection (BN)	
.01 Verify installation(s)	46 CFR 184.502		
, , , , , , , , , , , , , , , , , , , ,	47 CFR 80.1003	TII-BN01 - Inspect voyage data recorder (when	applicable)
.02 Verify equipment for operational area(s)	47 CFR 80.1015	.01 Verify presence	SOLAS 14 V/20
.03 Verify emergency broadcast placard	46 CFR 184.506	.02 Verify installation	SOLAS 14 V/20
	46 CFR 184.510	·	
.04 Witness operational test	47 CFR 80.931	TII-BN02 - Inspect automatic identification syst	em (AIS) (when applicable)
		.01 Verify presence	33 CFR 164.205(a)
I-BN06 - Inspect navigation and signaling lights,		.02 Verify operational	33 CFR 164.205(a)
.01 Verify operation of navigation and anchor	33 CFR 83.20(b)		
ghts	COLREG Rule 20	TII-BN03 - Inspect bridge navigation equipmen	
	46 CFR 183.420	.01 Verify spare magnetic compass	SOLAS 14 V/19.2.2.1
.02 Inspect dayshapes (when applicable)	33 CFR 83.20(d)	.02 Verify pelorus or compass bearing device	
	COLREG Rule 20	.03 Verify means of correcting heading &	SOLAS 14 V/19.2.1.3
OO Design Contition to at Alternation Consultance	33 CFR 84.11	bearing to true at all times	001.10.1.1.1.1.
.03 Review Certificate of Alternate Compliance	33 CFR 81.9	.04 Verify electronic plotting aide	SOLAS 14 V/19.2.3.3
vhen applicable)		.05 Verify speed & distance measuring devi	ce SOLAS 14 V/19.2.3.4
I-BN07 - Inspect sound signaling devices		TII-BN04 - Inspect communication equipment (when applicable)
.01 Verify presence of signaling device	33 CFR 83.33	.01 Verify operation of NAVTEX	47 CFR 80.1101(c)
, , , , , , , , , , , , , , , , , , , ,	COLREG Rule 33	io. vo, operano. or in the area	SOLAS 14 IV/7.1.4
.02 Witness operation of whistle and bell	33 CFR 83.33	.02 Verify operation of portable VHF(s)	47 CFR 80.1095
when applicable)	COLREG Rule 33	7 1 1 ()	SOLAS 14 III/6.2.1
		.03 Verify radar transponders	47 CFR 80.1095
		·	SOLAS 14 III/6.2.2
		.04 Verify GMDSS radio equipment installat	on 46 CFR Part 80 Subpart W
		is appropriate for the Sea Area in which the	
		vessel operates	
		TII-BN05 - Inspect long range identification and	tracking (LRIT) (when applicable)
		.01 Verify presence	33 CFR 169.205(a)
		ioi voiny proconoc	SOLAS 14 V/19
		02 Verify operational	33 CFR 169 205(a)

TII-BN06 - Inspect depth sounding equipment (when applicable)

.01 Verify operational SOLAS 14 V/19.2.3.1

33 CFR 169.205(a) SOLAS 14 V/19

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.02 Verify operational

TII-LM06 - Examine Oil Record Book (ORB) (when	applicable)	TI-BN08 - Verify navigational publications and nauti	cal charts
.01 Verify edition	33 CFR 151.25(b)	.01 Verify presence of current and applicable	46 CFR 184.420
ion voing comon	IMO Res MEPC.187(59)	charts	
	CG-CVC Letter	.02 Verify presence of current and applicable	46 CFR 184.420
.02 Verify required signatures	33 CFR 151.25(h)	Tide Tables	
.03 Verify required entries	46 CFR 184.702	.03 Verify presence of current and applicable	46 CFR 184.420
	33 CFR 151.25(h)	River Current publication or Current tables (when	
	MARPOL I/Appendix III	applicable)	
.04 Compare overboard discharge rate entries	MARPOL I/7	.04 Verify presence of current and applicable	46 CFR 184.420
with filtering equipment data plate or supplement	MARPOL I/Appendix III	Coast Guard Light List	
to IOPP certificate		.05 Verify presence of current and applicable	46 CFR 184.420
		U.S. Coast Pilot	
Security (Domestic) Inspection (SD)		.06 Verify presence of COLREGs (when	COLREG A/1
		applicable)	
TII-SD01 - Examine Vessel Security Plan (VSP/ASI	<u>P)</u>	.07 Verify presence of Inland Navigation Rules	33 CFR 88.05
.01 Verify presence of approval letter for plan	33 CFR 104.120(a)(1)	(when applicable)	
type	SOLAS 14 XI-2/4.2		
	ISPS Code A/9.1	TI-BN09 - Inspect steering system controls at opera	
.02 Verify plan is secured	33 CFR 104.400(c)	.01 Verify operation and control	46 CFR 182.610(a)
	ISPS Code A/9.7		46 CFR 182.610(b) & (c)
	NVIC 04-03	OO Mitagas appretion of mudden and indicator	46 CFR 176.814
.03 Examine contents	33 CFR 104.400	.02 Witness operation of rudder angle indicator	46 CFR 182.610(e)(2)
.04 Verify amendment(s) (when applicable)	33 CFR 104.415(a)	(when applicable).03 Verify steering gear transfer instructions	46 CFR 182.610(g)(2)
.05 Verify implemention	33 CFR 104.400(a)	are posted (when applicable)	46 CFK 162.610(g)(2)
		.04 Verify visual means to indicate operation of	46 CFR 182.610(g)(1)
TII-SD02 - Examine security records		power unit(s)(when applicable)	40 Cl 1(102.010(g)(1)
.01 Verify record(s) of security training	33 CFR 104.235(b)(1)	power drift(3)(when applicable)	
	SOLAS 14 XI-2/4.2	TI-BN10 - Inspect alarms and gauges at operating	etation
OO Mait and the Parlametic of Consider	ISPS Code A/10.1.1	.01 Verify bilge high level alarms	46 CFR 182.530(a)
.02 Verify presence of Declarations of Security	33 CFR 104.235(b)(7)	. Verify blige riight level diaims	46 CFR 182.530(b)
(DoS)(when applicable)	ISPS Code A/5.7 NVIC 04-03 Encl. 3 Section 10	.02 Verify automatic bilge pump indicator	46 CFR 182.530(c)
02 Verify record(s) of accurity drille		.03 Verify flammable vapor detection system	46 CFR 182.480(a)
.03 Verify record(s) of security drills	33 CFR 104.235(b)(2) ISPS Code A/10.1.1	(when applicable)	46 CFR 182.480(d)
.04 Verify annual exercise has been	33 CFR 104.235(b)(2)	.04 Verify propulsion engine gauges	46 CFR 182.410(b)
conducted	ISPS Code A/10.1.1	.05 Inspect audible or visual alarm for exhaust	46 CFR 182.425(b)(5)
.05 Verify record(s) of annual audit	33 CFR 104.235(b)(8)	cooling system (when applicable)	(-)(-)
100 Verify record(5) of armidal addit	ISPS Code A/10.1.6	3 7 (11 /	
	101 0 0000 7 10.1.0	General Health & Safety Inspection (GH)	
TII-SD03 - Inspect security equipment			
.01 Verify equipment matches plan(when	33 CFR 104.292(b)(ii)	TI-GH01 - Inspect accommodations	
applicable)	SOLAS 14 XI-2/6	.01 Verify location	46 CFR 177.800
	ISPS Code A/9.4.17	.02 Verify number of berths	46 CFR 177.710
.02 Verify maintenance records	33 CFR 104.260	, , , , , , , , , , , , , , , , , , , ,	46 CFR 177.810
•	33 CFR 104.235(b)(5)	.03 Verify spaces are of appropriate size	46 CFR 177.800
	NVIC 04-03 Encl. 3 Section 10		46 CFR 177.810
		.04 Verify accessibility to escape routes	46 CFR 177.500
			46 CFR 177.810(c)
		.05 Verify ventilation	46 CFR 177.600(c)
		.06 Verify sanitary condition	46 CFR 176.818
		.07 Verify general alarm is adequate (when	46 CFR 183.550
		applicable)	

TI-GH02 - Inspect means of escape from accommod	dation, machinery and other	TII-CI	D13 - Examine Certificate of Documentation (COD) (when applicable)
spaces			Verify Registry endorsement	46 CFR 67.17
.01 Verify means of escape	46 CFR 177.500		,g,	46 CFR 67.19
.02 Verify routes are accessible	46 CFR 177.500			
.03 Verify emergency lighting	46 CFR 183.432	TILCI	D14 - Examine Tonnage Certificate	
.04 Verify markings	46 CFR 185.606		Verify presence	46 CFR 69.69
.04 Verily markings	40 OF IC 100.000		Verify presence Verify validity	46 CFR 69.69
TI CLICA Improper many deals and malless are and				
TI-GH03 - Inspect mess deck and galley spaces	40 OFD 470 040	.03	Verify correct measurement system	46 CFR 69.11
.01 Inspect sanitary conditions	46 CFR 176.818	0.4	V 26	NVIC 11-93
.02 Verify cooking fuel restrictions	46 CFR 184.202	.04	Verify vessel particulars remain valid	46 CFR 69.55
.03 Verify cooking equipment requirements	46 CFR 184.220			46 CFR 69.105
	ABYC A-3			ICTM Article 3
	NFPA 302			
.04 Verify LPG and LNG cooking systems	46 CFR 184.240	Logs	and Manuals Inspection (LM)	
.05 Verify condition of vents and ducts	46 CFR 177.600(d)			
.06 Verify structural fire protection surrounding	46 CFR 177.410(c)(1)	TII-LN	101 - Examine official logbook	
cooking and heating appliances			Verify presence	46 CFR 185.280(a)
			Verify entries	46 CFR 185.280(b)
TI-GH04 - Inspect paint locker(s) (when applicable)		.02	verify charles	40 OF IC 100.200(b)
.01 Verify fire protection equipment	46 CFR 181.400(a)(7)	THIA	102 Evernine Meintenance Records	
.02 Inspect space construction material	46 CFR 177.405(d)		M02 - Examine Maintenance Records Verify shore based maintenance report for	SOLAS 14 IV/15
.03 Verify electrical installations (when	46 CFR 183.530(b)			SOLAS 14 IV/15
applicable)	46 CFR 183.530(c)	EPIRI		40 OED 405 700
.04 Inspect means to secure ventilation	46 CFR 177.600(b)		Verify maintenance and inspections of	46 CFR 185.722
104 mopost mound to social ventilation	10 01 17 17 1.000(5)	surviv	al craft	46 CFR 185.724 & .726
Lifesaving Equipment Inspection (LS)				SOLAS 14 III/20.7
Litesaving Equipment inspection (LS)			Verify annual test reports for VHF-DSC,	SOLAS 14 IV/17
		AIS, L	RIT & SSAS	
TI-LS01 - Inspect Emergency Position Indicating Ra	<u>dio Beacon (EPIRB) (when</u>			
applicable)		TII-LN	103 - Examine Shipboard Oil Pollution Emerg	<u>gency Plan (SOPEP) (when</u>
.01 Verify registration	46 CFR 180.64	<u>applic</u>	<u>able)</u>	
	47 CFR 80.1061(e)	.01	Verify applicability	46 CFR 184.702
	47 CFR 80.1061(f)			33 CFR 151.09
.02 Verify stowage	46 CFR 180.64			MARPOL I/2
.03 Verify hydro-static release expiration date	46 CFR 185.740	.02	Verify approval	33 CFR 151.27
.04 Verify battery date	46 CFR 185.728(b)		7 11	MARPOL I/37.1
•	•	.03	Verify annual review	33 CFR 151.28(a)
TI-LS02 - Inspect distress signals (when applicable)			Tomy armaar rotton	33 CFR 151.28(d)
.01 Verify type approval	46 CFR 180.68	04	Verify plan organization	33 CFR 151.26(b)(8)
.02 Verify quantity in accordance with vessel's	46 CFR 180.68	.0-1	vomy plan organization	00 01 10 1.20(5)(0)
route	10 01 10 100.00	TILLA	104 - Examine oil and hazardous liquid trans	for procedures (when applicable)
.03 Verify expiration date	46 CFR 185.726(c)		Verify presence	46 CFR 184.702
verify expiration date	46 CFR 165.726(c) 46 CFR 160.036-5	.01	verily presence	
.04 Verify stowage and marking		00	Varify Davage in Charge is identified	33 CFR 155.720
.u+ verify Stowage and Marking	46 CFR 180.68 (e)		Verify Person in Charge is identified	33 CFR 155.750(a)(4)
	46 CFR 185.614	.03	Verify contents	33 CFR 155.750
			105 - Examine vessel's training log	
			Verify presence	SOLAS 14 III/35
			\ / = \(\display \) \(\tau = \tau + \tau \) \(\tau = \tau \)	
		.02	Verify contents	SOLAS 14 III/35

TH 0000 5 1 1 1 1 1 1 1 0 1 1 1	. (11.10)			
TII-CD09 - Examine International Load Line Certific			03 - Inspect life jackets	40 OFD 400 74()
.01 Verify presence	46 CFR 175.122	.01	Verify type approval	46 CFR 180.71(c)
00 \/	ICLL Article 16	00	Varify and office	46 CFR 180.25(a)
.02 Verify validity	46 CFR 42.07-45	.02	Verify quantity	46 CFR 180.71(a)
	ICLL Article 15	00	Varify atomore	46 CFR 180.71(b)
02 Varify partificate form	ICLL Article 19		Verify markings	46 CFR 180.78
.03 Verify certificate form.04 Confirm load line observed on hull (Task	ICLL Article 18		Verify markings Verify lights (when applicable)	46 CFR 185.604(b)
TII-DA01) matches certificate	46 CFR 42.07-5 ICLL I/9		Verify location and information for donning	46 CFR 180.75 46 CFR 185.516
.05 Verify logbook entries are completed	46 CFR 42.07-20	instru	,	40 CFK 165.510
.06 Verify Record of Conditions of Assignment	CG-5212 Policy Notes 5.c		Inspect condition and suitability	46 CFR 160.002
(Form LL.11) is present and validates issued	CG-5212 I Olicy Notes 5.0	.01	mspect condition and suitability	46 CFR 160.005
Load Line (when applicable)				46 CFR 160.055
Load Line (when applicable)		08	Verify stowage of Personal Floatation	46 CFR 180.72
TII-CD10 - Examine copy of Document of Complian	ce (ISM-DOC) (when applicable)		es carried in addition to lifejackets (when	10 01 10 100.72
.01 Verify presence	46 CFR 176.925	applic		
.01 Verify presence	33 CFR 96.330	о р о		
	SOLAS 14 IX/4.2	TI-I S	04 - Inspect life buoys	
.02 Verify validity	46 CFR 176.925		Verify type approval	46 CFR 180.70(b)(1)
102 Volly Vallally	SOLAS 14 IX/5		romy typo approval	46 CFR 160.050
	ISM Code 13.2-5	.02	Verify quantity	46 CFR 180.70(a)
.03 Verify document form	ISM Code 16		Verify stowage	46 CFR 180.70(b)
.04 Verify alternate compliance arrangements	46 CFR 175.540		Verify size	46 CFR 180.70(a)
, ,	MSM II/E.3.C.5		Inspect lifeline	46 CFR 180.70(c)
			Inspect waterlight (when applicable)	46 CFR 180.70(d)
TII-CD11 - Examine Safety Management Certificate	(ISM-SMC)(when applicable)	.07		46 CFR 185.604
.01 Verify presence	46 CFR 176.925			46 CFR 180.70(b)
• •	33 CFR 96.340			46 CFR 160.050-3(b) & .050-6
	SOLAS 14 IX/4.3	.08	Inspect condition and suitability	46 CFR 180.70
.02 Verify validity	46 CFR 176.925			46 CFR 160.050
	SOLAS 14 IX/5			
	ISM Code 13.5.1		05 - Inspect inflatable liferaft & inflatable buoy	vant apparatus installations (when
.03 Verify certificate form	ISM Code 16	applic		
.04 Verify alternate compliance arrangements	46 CFR 175.540		Verify type approval	46 CFR 180.200(a)(1)
	MSM II/E.3.C.5		Verify quantity onboard	46 CFR 180.200(c) Table
			Verify stowage	46 CFR 180.130
TII-CD12 - Examine International Ship Security Cer	tificate (ISSC) & Continuous		Verify markings	46 CFR 160.151-33
Synopsis Record (CSR)	001.40.4.4.4.4.5.		Verify annual service dates	46 CFR 185.730(a)
.01 Verify vessel particulars	SOLAS 14 XI-1/5.5.2		Verify emergency instructions are posted	46 CFR 185.518
00 1/2=:6: 0	ISPS Code A/19.2.4	applic	Inspect embarkation ladder (when	46 CFR 185.150
.02 Verify Company name and address match	SOLAS 14 XI-1/5.3		Verify servicing/expiration of hydrostatic	46 CFR 185.740
International Safety Management documents .03 Verify ISSC verification type with date	ISPS Code A/19	releas	- · · · · · · · · · · · · · · · · · · ·	40 CFR 105.740
· · · · · · · · · · · · · · · · · · ·	ISPS Code A/19.1.1		Verify hydrostatic release installation	46 CFR 185.740
.04 Verify ISSC endorsement (Intermediate or additional)	13F3 Code A/ 19.1.1	.00	volly fly drooted to fold to motalication	10 01 10 100.7 10
.05 Verify additional ISSC verifications,	ISPS Code A/19.1.1			
extensions, renewals or expiry advancements are	ISPS Code A/19.3.4			
completed	101 0 0000 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
.06 Verify CSR is present and valid	SOLAS 14 XI-1/5.1			
,	SOLAS 14 XI-1/5.3			
	SOLAS 14 XI-1/5.4.1-5.4.3			
.07 Verify CSR information matches ISSC	SOLAS 14 XI-1/5.3			

TI-LS06 - Inspect lifefloat installations (when ap	plicable)	TII-CD05 - Review International Energy Efficiency	Certificate and Record of
.01 Verify type approval	46 CFR 180.200(a)(2)	Construction (when applicable)	
.02 Verify quantity	46 CFR 180.200(c) Table	.01 Verify vessel particulars	IMO Res MEPC.203(62)
.03 Verify stowage	46 CFR 180.137	To the training training to the training trainin	Appendix VIII
.04 Verify markings	46 CFR 185.604(a)	.02 Verify Energy Efficiency Design Index	CG-CVC Policy Ltr 13-02 7.
.04 Verily Markings	46 CFR 160.010-8	requirements (when applicable)	IMO Res MEPC.203(62) 20.1
OF Inappart ambarkation ladder (when		.03 Verify Ship Energy Efficiency Management	CC CVC Policy Ltr 12 02 7 h
.05 Inspect embarkation ladder (when	46 CFR 180.150		CG-CVC Policy Ltr 13-02 7.b
applicable)	40.0ED 400.475(1)	Plan (SEEMP) is identified	IMO Res MEPC.203(62) 22
.06 Verify required equipment	46 CFR 180.175(d)	.04 Verify Technical File requirements are met	IMO Res MEPC.203(62) 20.1
	46 CFR 180.175(f)	(when applicable)	
.07 Verify emergency instructions are posted	46 CFR 185.512(a)(1)(ix)		
-1100-		TII-CD06 - Review International Oil Pollution Preve	ntion Certificate (IOPP) (when
TI-LS07 - Inspect rescue boat (when applicable		applicable)	
.01 Verify type approval	46 CFR 180.210	.01 Verify vessel particulars	MARPOL I/9
	46 CFR 160.056	.02 Verify vessel type is accurate	MARPOL I/2.14
.02 Verify stowage	46 CFR 185.700		MARPOL I/9
.03 Verify markings	46 CFR 185.604(i)	.03 Verify annual, intermediate, extension	33 CFR 151.1719
.04 Verify equipment	46 CFR 160.056-3(b)	renewal, or change in anniversary date	MARPOL I/6
.05 Verify condition	46 CFR 185.700	.04 Verify record of construction and	33 CFR 151.19
.06 Inspect embarkation ladder (when	46 CFR 180.150(b)	equipment	MARPOL I/9
applicable)	()	.05 Verify control requirements for machinery	MARPOL I/14
11		bilge and fuel oil tanks identified	MARPOL I/16
TI-LS08 - Inspect launching appliance(s) (when	annlicable)	.06 Verify retention and disposal requirements	MARPOL I/12
.01 Inspect material condition	46 CFR 180.130(c)	for oily bilge water holding tanks	W 44 02 11 12
.01 Hispect materier condition		.07 Verify standard discharge connection	33 CFR 158.250
	46 CFR 180.150(c)	requirement	MARPOL I/13
OO Marife an anation in structions are needed	46 CFR 185.704	requirement	WARFOL 1/13
.02 Verify operating instructions are posted	46 CFR 185.512(a)(1)(ix)	TH ODOZ. Davidov Otatana art of Mahamtana Orana lia	MADDOL A
		TII-CD07 - Review Statement of Voluntary Complia	ance, MARPOL Annex IV (Sewage)
TI-LS09 - Inspect buoyant apparatus (when app		(when applicable)	
.01 Verify type approval	46 CFR 180.15(b)	.01 Verify vessel particulars	NVIC 01-09
	46 CFR 180.200(a)(4)	.02 Verify compliance type	33 CFR 159.53 & .55
	46 CFR 160.010		NVIC 01-09
.02 Verify quantity	46 CFR 180.15(b)		IMO Res MEPC.227(64)
,	46 CFR 180.200(a)(4)	.03 Verify discharge rate (draft & speed chart)	NVIC 01-09
	46 CFR 180.200(c) Table	identified	
.03 Verify stowage	46 CFR 180.137	.04 Verify endorsements (extension or	NVIC 01-09
.04 Verify markings	46 CFR 185.604(a)	renewal)	
.05 Inspect embarkation ladder (when	46 CFR 180.150		
applicable)	40 0110 100.100	TII-CD08 - Verify credentials	
.06 Verify required equipment	46 CFR 180.175(e)	.01 Verify STCW endorsements	46 CFR 10.109(d)
.00 Verily required equipment		.01 Verily STOW endorsements	46 CFR 11.202
07 Varify am argangy in structions are restable	46 CFR 180.175(f)		
.07 Verify emergency instructions are posted	46 CFR 185.512(a)(1)(ix)	OO Varie Vascal County Officers and	STCW I/2.6
		.02 Verify Vessel Security Officer endorsement	46 CFR 15.1113
		.03 Verify Transportation Worker Identification	46 CFR 10.203(b)
		Credential (TWIC)	CG-543 Policy Ltr 11-15
		.04 Verify GMDSS endorsements	47 CFR 80.159(d)
			47 CFR 80.1073
			G-MOC Policy Ltr 04-02
			•

TII-CD02 - Review Engine International Air Pollutio	n Prevention (EIAPP) Certificate	Firefighting System Inspection (FF)	
(when applicable)	MADDOL VIVAS 4		
.01 Verify presence	MARPOL VI/13.1	TI-FF01 - Inspect fire main and pump (when applied	
	MARPOL VI/13.8	.01 Verify capable of providing adequate	46 CFR 181.300(b) & (c)
	NOx Code 2.1.1	pressure	
.02 Verify engines identified and no changes	MARPOL VI/13.1.1	.02 Verify self priming arrangement	46 CFR 181.300(a)
have been made		.03 Verify fitted with gauge and relief valve	46 CFR 181.300
.03 Verify Statement of Compliance (issued by	CG-543 Policy Ltr 09-01 5.b		46 CFR 181.310
Manufacturer) is accompanied by EPA issued		.04 Verify location of controls and markings	46 CFR 181.300
EIAPP		.05 Verify operation of fire pump from remote	46 CFR 181.300(e)
		control(s)	,
TII-CD03 - Review International Air Pollution Preve	ntion Certificate (IAPP) and	.06 Verify materiel condition of system	46 CFR 181.300
Supplement Record of Construction and Equipmen	t (when applicable)	, , , , , , , , , , , , , , , , , , , ,	46 CFR 181.310
.01 Verify vessel particulars on IAPP and	MARPOL VI/8		46 CFR 182.710
Record of Construction and Equipment			
.02 Verify annual, intermediate, renewal, repair	MARPOL VI/8	TI-FF02 - Inspect fire stations	
and extension endorsements and/or change in	MARPOL VI/5	.01 Verify number of hydrants	46 CFR 181.310(a)
anniversary date		.02 Verify hoses meet required length, size,	46 CFR 181.310(a)
.03 Verify ozone depleting substances	MARPOL VI/12	markings and quantity	46 CFR 181.320(b)
identified	117 th th to the total to the t	markings and quantity	· ,
.04 Verify Nitrogen Oxide emission sources	MARPOL VI/13	02 Varify an arction of valvas at fire stations	46 CFR 181.320(c)
identified	WINTER OF VIVIO	.03 Verify operation of valves at fire stations	46 CFR 181.310(a)
.05 Verify Sulphur Oxide (fuel oil) requirements	MARPOL VI/14		
identified	CG-CVC Policy Ltr 12-04	TI-FF03 - Inspect portable fire extinguishers	
.06 Verify incinerator installation identified	MARPOL VI/16	.01 Verify location and stowage	46 CFR 181.500
(when applicable)	WARFOL VI/16		46 CFR 181.520
.07 Verify validity of alternatives or equivalents	MARPOL VI/4	.02 Verify servicing compliance	46 CFR 176.810
.or verify validity of alternatives of equivalents	MARPOL VI/4 MARPOL VI/14.5		NFPA 10 Chapters 4, 7 & 8
	MARPOL VI/14.5	.03 Examine condition of cylinder(s) and	NFPA 10 Chapter 7
	(14.50)	hose(s)	46 CFR 176.810
TII-CD04 - Review International Anti-Fouling System	m (IAFS) certificate with Record of		46 CFR 147.65
Anti-Fouling System (when applicable)		.04 Verify presence of required type and	46 CFR 181.500
.01 Verify vessel particulars	IMO Res MEPC.195(61) 4	quantity	
.02 Verify COI has Anti-Fouling endorsement	MSM II/B.3.J		
or, if not required, IAFS Certificates		TI-FF04 - Inspect semi-portable firefighting equipn	nent (when applicable)
.03 Verify identification of applied Anti-Fouling	AFS Article 3	.01 Verify location and stowage	46 CFR 181.500
System	AFS Annex 2	to the state of th	46 CFR 181.520
	AFS Annex 3	.02 Verify servicing compliance	46 CFR 176.810
.04 Verify vessel particulars on Record of Anti-	IMO Res MEPC.195(61) 4.1	102 Vointy controlling complication	NFPA 10 Chapters 4, 7 & 8
Fouling Systems	MSM II/B.3.J	.03 Examine condition of cylinder(s) and	NFPA 10 Chapter 7
.05 Verify Anti-Fouling Systems details	IMO Res MEPC.195(61) 4.2 & 5	hose(s)	46 CFR 176.810
provided	,	11030(3)	46 CFR 147.65
.06 Verify that no change in Anti-Fouling	IMO Res MEPC.195(61) 5.2	.04 Verify type and quantity of extinguishers	46 CFR 181.500(c)
System has occurred since issuance of IAFS	MSM II/B.3.J	verily type and quantity of extinguishers	-0 OF IC 101.000(0)
Certificates		TI EEOE Inapact fire ava(a) (when applicable)	
		TI-FF05 - Inspect fire axe(s) (when applicable)	46 OED 494 COO
		.01 Verify presence	46 CFR 181.600
		.02 Verify location	46 CFR 181.600

TI-FF06 - Inspect high pressure CO2 system(s) (w	hen annlicable)	TI-FU03 - Complete MISLE Activity	
.01 Ensure safety precautions are	MSM II/C.2.I.5	.01 Open existing activity in MISLE	MSM I/12.G.2.a
implemented prior to servicing system	W3W 1/O.2.1.3	.02 Update inspection results	MSM I/12.H.1
.02 Verify servicing compliance	46 CED 176 910(b)(2)	.02 Opuate inspection results	MSM II/A.2.C.2.d
	46 CFR 176.810(b)(2) 46 CFR 181.410(f)(8)		MMS Work Instruction
.03 Verify odorizing unit (when applicable)		00 Undete estivity represtive	
.04 Inspect stowage of cylinders	46 CFR 181.410(c)	.03 Update activity narrative	MSM I/12.H.1
.05 Examine materiel condition of system	46 CFR 181.410	.04 Update vessel details	MSM I/12.H.1
components	40 OED 470 040/L\/0\	.05 Amend Certificate of Inspection (when	MSM I/12.H.1
.06 Verify piping and nozzles are clear	46 CFR 176.810(b)(2)	applicable)	MOM II/A O O O I
.07 Witness operational test of time delays,	46 CFR 176.810(b)(2)	.06 Print new or amended Certificate of	MSM II/A.2.C.6.b
alarms and shutdowns	10.000	Inspection and Deficiency Letter (when	
.08 Verify markings and warning signs are	46 CFR 185.612	applicable)	
posted		.07 Change activity status to "Open -	MSM I/12.H.1
.09 Verify operating instructions are posted	46 CFR 185.612	Submitted for Review"	
TI-FF07 - Inspect pre-engineered fixed gas fire exti	nguishing systems (when	TI-FU04 - Verify deficiency corrections	
applicable)		.01 Determine an appropriate verification	MSM II/A.2.C.4
.01 Determine if approved	46 CFR 181.420(a)(1)	method for the identified deficiency(s)	
.02 Verify presence of manual actuation from	46 CFR 181.420(a)(2)	.02 Verify correction(s) meet appropriate	MSM II/A.2.C.4.a
outside of the space	· / / /	regulations	
.03 Verify presence of automatic actuator	46 CFR 181.420(a)(2)	.03 Clear deficiency(s) in MISLE activity	MSM II/A.2.C.2.d
(heat detector)	()()	, ,	MMS Work Instruction
.04 Witness system automatically shuts down	46 CFR 181.420(a)(3)		
power ventilation (when applicable)	- (-)(-)	TI-FU05 - Ensure completion of drydock examina	tion
.05 Witness system automatically shuts down	46 CFR 181.420(a)(3)	.01 Verify completions of all repairs	MSM II/A.2.C
engines (when applicable)		.02 Issue amended Certificate of Inspection	46 CFR 176.120(a)
.06 Verify system is installed per	46 CFR 181.420(a)(4)	102 loade difference Certificate of Inspection	40 01 17 17 0.120(a)
manufacturer's instructions	Manufacturer's Instructions		
.07 Witness operation of indicating light	46 CFR 181.420(b)(1)	International Vo	yages
.08 Witness audible alarm	46 CFR 181.420(b)(2)		
.09 Witness means to reset automatically shut	46 CFR 181.420(b)(3)	Dockside Assessment (DA)	
down systems	10 01 10 11.120(5)(0)	Dockside Assessment (DA)	
.10 Verify servicing compliance	46 CFR 176.810(b)(2)		
.10 Verily servicing compliance	40 CFR 170.010(b)(2)	TII-DA01 - Inspect hull for required markings (who	
TI CEOO Inspect fire and ample detection exetem	(when appliable)	.01 Verify IMO hull marking	SOLAS 14 XI-1 1/3
TI-FF08 - Inspect fire and smoke detection systems		.02 Verify machinery space marking	SOLAS 14 XI-1 1/3
.01 Determine appropriate spaces are	46 CFR 181.400(c),(e) & (f)	.03 Verify load line is permanently marked	ICLL 5-9
equipped	46 CFR 181.450	.04 Verify presence of deckline	ICLL 4
OO Mita and a sustain to at	46 CFR 177.410(C)(3)		
.02 Witness system test	46 CFR 176.810(a)(7)	Certificates and Documents (CD)	
.03 Verify operation of control unit's visual and	46 CFR 181.400	· · · · · · · · · · · · · · · · · · ·	
audible alarms (when applicable)	40 OED 404 400(-)	TII-CD01 - Review Passenger Ship Safety Certific	cate (when applicable)
.04 Verify zoning (when applicable)	46 CFR 181.400(c)	.01 Verify presence	46 CFR 176.910(a)
OF Mark to a serious and a serious of the serious	46 CFR 76.27-5	,,	SOLAS 14 I/12(a)(i)
.05 Verify location and spacing of detectors	46 CFR 181.400(c)	.02 Verify validity	46 CFR 176.910(c)
00 1/2 // 12 12 2 2 12 // 12 12	46 CFR 76.27-10		SOLAS 14 I/14
.06 Verify independent module smoke	46 CFR 181.400(e)	.03 Verify contents	46 CFR 176.910(a)
detection system(s) (when applicable)	46 CFR 181.450	Total Composition	46 CFR 176.910(b)
			SOLAS 14 I/15
TI-FF09 - Inspect fire buckets (when applicable)			202.0
.01 Verify size	46 CFR 181.610		
.02 Verify quantity	46 CFR 181.610		

46 CFR 181.610

.04 Verify marking

TI-WR03 - Inspect steel fit-up		TI-FF10 - Verify structural fire protection on fiberglas	
.01 Examine material and fitted with approved joint detail	46 CFR 177.300(b) NVIC 07-68 V ABS 2-4-1/3	.01 Verify fire retardant resin (when applicable).02 Verify general purpose resin requirements (when applicable)	46 CFF 46 CFF
.02 Verify materials (base, filler, gas)	46 CFR 176.700(b) ABS 2-1-1/1.1	Machinery Equipment Inspection (MI)	
.03 Verify welding processes	46 CFR 176.700(b)		
TI-WR04 - Inspect welds for defects		<u>TI-MI01 - Inspect steering gear</u> .01 Inspect electrical, mechanical, and	46 CFF
.01 Examine welds for uniformity and	46 CFR 177.300(b)	hydraulic connections and linkages of main and	46 CFF
reinforcement	ABS 2-4-1/5.15.1	auxiliary (emergency) systems	MSM II
	ABS 30.5.8 (Aluminum)	.02 Verify operation of communications	46 CFF
.02 Examine welds for porosity, overlap and	NVIC 07-68 V(H)	between bridge and emergency steering	10 01 1
slag inclusion	ABS 2-4-1/5.15.1	station(s)(when applicable)	
	ABS 30.5.8 (Aluminum)	.03 Witness operational test of systems, in all	46 CFF
.03 Examine adjacent base metal for injurious	NVIC 07-68 V(H)	modes of operation from emergency steering	46 CFF
arc strikes, spatter and sharp or deep undercut	ABS 2-4-1/5.15.1	station(s)(when applicable)	46 CFF
	ABS 30.5.10 (Aluminum)	.04 Verify accuracy of rudder angle indicator	46 CFF
		(when applicable)	
TI-WR05 - Inspect back gouge (when applicable)	40 OFD 477 000(L)	.05 Verify steering control transfer procedures	46 CFF
.01 Examine welds for defects (discontinuity)	46 CFR 177.300(b)	.06 Witness operational test of auxiliary	46 CFF
	NVIC 07-68 V(G)(2)	(emergency) steering arrangement (when	46 CFF
.02 Verify proper weld sequencing	ABS 2-4-1/5.9 NVIC 07-68 V(F)	applicable)	
.02 Verify proper werd sequencing	ABS 2-4-1/5.3	TI 84100	
	ABS 30.5.5 (Aluminum)	TI-MI02 - Inspect fuel oil service system	40 OEF
.03 Verify joints are cleaned between	NVIC 07-68 V(E)	.01 Verify installation, arrangement and condition of piping, manifolds and filters	46 CFF
interpasses	ABS 2-4-1/3.5	.02 Inspect portable fuel system (when	46 CFF
into paccoo	ABS 30.3.3 (Aluminum)	applicable)	ABYC
	, ,	.03 Witness tests of remote shutdown(s)	46 CFF
Follow Up Actions (FU)		.04 Inspect nonmetallic flexible hoses and	46 CFF
		fittings	
TI-FU01 - Issue deficiencies		3 -	
.01 Determine deficiency's reference cite	46 USC 3313(b)	TI-MI03 - Inspect main propulsion system(s)	
,	MSM II/A.2.C.4.b	.01 Inspect condition, installation and	46 CFF
.02 Discuss deficiencies and corrective	MSM II/A.2.C.2	arrangements of system components	46 CFF
measures/timeframe with vessel's master or			MSM I
representative		.02 Inspect foundations for structural integrity	46 CFF
.03 Issue signed CG-835 to vessel's master or	46 CFR 2.01-10(a)	.03 Verify installation of protective covers or	46 CFF
representative	MSM II/A.2.C	guards	
		.04 Inspect system's hull penetrations for	46 CFF
TI-FU02 - Issue/endorse vessel's certificates (where		structural integrity	40.055
.01 Endorse certificates, as applicable	46 CFR 176.500(b)(1)(ii)	.05 Witness operational test of main	46 CFF
.02 Obtain a copy of all endorsed certificates	MSM I/12.E.7	propulsion machinery	

for the unit's vessel file

(
Machinery Equipment Inspection (MI)	
TI-MI01 - Inspect steering gear .01 Inspect electrical, mechanical, and hydraulic connections and linkages of main and auxiliary (emergency) systems .02 Verify operation of communications between bridge and emergency steering station(s)(when applicable)	46 CFR 176.814 46 CFR 182.610 MSM II/C.4.B 46 CFR 184.602(b)
.03 Witness operational test of systems, in all modes of operation from emergency steering station(s)(when applicable) .04 Verify accuracy of rudder angle indicator (when applicable)	46 CFR 182.610(b) 46 CFR 182.610(c) 46 CFR 182.620 46 CFR 182.610(f)(2)
 .05 Verify steering control transfer procedures .06 Witness operational test of auxiliary (emergency) steering arrangement (when applicable) 	46 CFR 182.610(g)(2) 46 CFR 182.620(a) 46 CFR 182.620(b)
 TI-MI02 - Inspect fuel oil service system .01 Verify installation, arrangement and condition of piping, manifolds and filters .02 Inspect portable fuel system (when applicable) .03 Witness tests of remote shutdown(s) .04 Inspect nonmetallic flexible hoses and fittings 	46 CFR 182.455 46 CFR 182.458 ABYC H-25 46 CFR 182.455(b)(4) 46 CFR 182.720(e)
 TI-MI03 - Inspect main propulsion system(s) .01 Inspect condition, installation and arrangements of system components .02 Inspect foundations for structural integrity .03 Verify installation of protective covers or 	46 CFR 182.310 46 CFR 176.804 MSM II/B.1.F 46 CFR 176.402(c)(1) 46 CFR 177.960
guards .04 Inspect system's hull penetrations for	46 CFR 182.420

46 CFR 177.410(b) 46 CFR 177.410(c)

46 CFR 176.804(a)

TI-MI04 - Inspect unfired pressure vessels (UPVs)	(when applicable)	TI-NT04 - Verify suspected surface(s) for satisfactor	orv condition by nondestructive
.01 Verify data plate(s) are legible	46 CFR 54.10-20	testing (NDT) using the ultrasonic method	<u>,</u>
.02 Determine if UPV is exempt from	46 CFR 182.330	.01 Verify technician's qualification and	46 CFR 176.700(d)
inspection	46 CFR 54.01-15	certification	NVIC 07-68 9(V)(A)
.03 Verify external exam, internal exam and/or	46 CFR 176.812	Certification	ABS 2-4-1/5.17
		Mitnaga taghnigian galibrata aguinmant	ABS NDT Guide 3/3.5
hydrostatic test needs	46 CFR 61.10-5(b)	.02 Witness technician calibrate equipment	
04 1 1 1 1 1 1 1 1 1	46 CFR 61.10-5(d) & (e)	.03 Witness technician examine/interpret	ABS NDT Guide 3/11
.04 Inspect externally	46 CFR 61.10-5(b)(1)	readings	ADOMBT O : L O/40
.05 Inspect internally (when accessible)	46 CFR 61.10-5(b)(2)	.04 Evaluate test results or review technician's	ABS NDT Guide 3/13
	46 CFR 54.01-35	report	
	MSM II/B.1.O.4.a		
.06 Witness hydrostatic test (when applicable)	46 CFR 61.10-5(d)	TI-NT05 - Verify nondestructive testing (NDT) using	
	46 CFR 61.10-5(e)(4)	.01 Verify test pressure	46 CFR 176.700(b)
	MSM II/B.1.O.4.b		ABS 3-7-1/5.5
.07 Verify installation and operation of	46 CFR 54.15-5(f)	.02 Verify test pressure is attained and	ABS 3-7-1/5.5
pressure gauges	•	maintained .	
.08 Verify installation and operation of	46 CFR 54.15-5	.03 Examine joints, connections and high	ABS 3-7-1/5.5
pressure-relieving devices	46 CFR 61.10-5(i)	stress areas	712007 17010
h	46 CFR 54.15-10(a) & (g)	Stress dreas	
	(4)	TI-NT06 - Verify nondestructive testing (NDT) using	g the pneumatic (air test) method
TI-MI05 - Examine potable water system (when ap	<u>plicable)</u>	.01 Verify test pressure	46 CFR 176.700(d)
.01 Verify tank vents are fitted with insect	21 CFR 1250.82(c)	·	ABS 3-7-1/5.7
screens	MSM II/A.C.2.a	.02 Ensure test pressure is attained and	ABS 3-7-1/5.7
.02 Verify operation of water pump(s) and	21 CFR 1250.84(a)	maintained .	
pressurization system	46 CFR 54.01-15(a)	.03 Examine joints, connections and high	ABS 3-7-1/5.7
.03 Verify pressurization system is fitted with	46 CFR 54.01-15(a)	stress areas	7.25 6 7 176.1
safety relief valve(s)		otroop aroup	
.04 Verify installation and arrangement of	21 CFR 1250.82	Welding Repair Inspection (WR)	
piping and valves		Welding Kepali inspection (WK)	
		TI-WR01 - Evaluate steel and aluminum structural	ropair proposals
TI-MI06 - Inspect bilge system			
.01 Verify location and operation of pump(s)	46 CFR 176.804(h)	.01 Evaluate extent of damage and/or	46 CFR 176.700(d) & 177.300
,,	46 CFR 182.520	wastage/corrosion	NVIC 07-68 IV
.02 Inspect manifolds, valves and piping (when	46 CFR 182.510	O D to contract	ABS Rules 2-4-1/5.19
applicable)	10 01 10 102:010	.02 Review repair proposal	46 CFR 2.01-15(a)(2)
.03 Verify bilge system pumping capabilities	46 CFR 182.520(a)		46 CFR 176.700(d)
			NVIC 07-68 IV
.04 Verify bilge suction(s) are fitted with	46 CFR 182.510(b)	.03 Verify repair materials	46 CFR 176.700(d)
strainer(s)	00 OFD 455 450		NVIC 07-68 V
.05 Verify pollution placard is posted (when	33 CFR 155.450	.04 Verify welding procedures (when	46 CFR 176.700(d)
applicable)		applicable)	
		.05 Evaluate alternative repair methods for	46 CFR 177.340
TI-MI07 - Inspect (wet & dry) exhaust system(s)		eguivalency	MSM II/A.5.A
.01 Inspect condition	46 CFR 176.804(c)	.06 Verify welder's proficiency	46 CFR 176.700(d)
	46 CFR 182.430	total total to pronotoney	
.02 Inspect insulation (when applicable)	46 CFR 177.405(b)	TI-WR02 - Inspect aluminum fit-up	
1 (11 7)	46 CFR 177.970		46 CED 177 200/b)
	46 CFR 182.430(a)	.01 Examine material and fitted with approved	46 CFR 177.300(b)
.03 Inspect installation	46 CFR 182.425	joint detail	NVIC 07-68 V & NVIC 11-80
100 mopost motamation	46 CFR 182.430	00 1/27 - 1 2 1 7 2 2 2	ABS 30.1
	10 01 10 102.100	.02 Verify materials (base, filler, gas)	ABS 30.1
		.03 Verify welding processes	ABS 30.1.3

TI-IS02 - Inspect internal structures		TI-MI08 - Inspect auxiliary boiler(s) (when applicable	<u>e)</u>
.01 Examine internal structures	46 CFR 176.610(b)	.01 Verify maximum allowable working	46 CFR 54.10-20
	46 CFR 176.802	pressure (MAWP)	
.02 Examine coamings, closures and other	46 CFR 176.802	.02 Inspect internal (when applicable)	46 CFR 176.812(b)
fittings	MSM II/B.3.B	02 Inchest mounts	46 CFR 61.05-10 Table
.03 Verify wastage discovered is within acceptable limits	NVIC 07-68 Section III(C)	.03 Inspect mounts	46 CFR 61.05-15(a)-(d) 46 CFR 61.05-10 Table
acceptable iiiilis		.04 Inspect columns, gauge glasses and	46 CFR 61.05-15(e)
Nondestructive Testing Inspection (NT)		gauge cocks	10 01 11 0 1100 10(0)
nonacciacito recing mepecaen (itr)		.05 Inspect steam gauge	46 CFR 61.05-15(f)
TI-NT01 - Verify nondestructive testing (NDT) using	g the liquid (dve) penetrant method		46 CFR 61.05-10 Table
.01 Verify individual's knowledge of, and ability	46 CFR 176.700(d)	.06 Inspect safety valves	46 CFR 176.704
to use, penetrant in accordance with the	NVIC 07-68 9(V)(A)		46 CFR 61.05-10 Table & .05-20
penetrant's instructions.	ABS 2-4-1/5.17 & NDT Guide		46 CFR 54.15-10
1400	4/1	Floatrical Systems Inspection (FS)	
.02 Witness application	ABS NDT Guide 4/5.1	Electrical Systems Inspection (ES)	
.03 Witness removal of excess penetrant after dwell time	ABS NDT Guide 4/5.1	TI-ES01 - Inspect switchboard(s)	
.04 Witness application of developer	ABS NDT Guide 4/5.1	.01 Verify location, condition and installation	46 CFR 183.330(a) - (e)
.05 Evaluate the test results or technician's	ABS NDT Guide 4/5.1	ior verify location, contained and installation	46 CFR 183.330(i)
report		.02 Verify non-conductive handrail and matting	46 CFR 183.330(f)
·		or grating on deck	,,
TI-NT02 - Verify suspected surface for satisfactory	condition by nondestructive testing	.03 Verify sized correctly	46 CFR 183.330(j)
(NDT) using the magnetic particle method			46 CFR 111.30-19(a)
.01 Verify individual's knowledge of, ability to	46 CFR 176.700(d)	TI FOOD In an act was in a series are not an act of a land	·
calibrate and use equipment in accordance with equipment's instructions	NVIC 07-68 9(V)(A) ABS 2-4-1/5.17	TI-ES02 - Inspect main service generator(s) and pr.01 Verify power source(s) requirements	<u>ime mover(s)</u> 46 CFR 183.310
.02 Verify magnetic field strength	ABS 2-4-1/5.17 ABS NDT Guide 5/5.7.2	.02 Examine condition of generator(s) and	46 CFR 163.310 46 CFR 183.320
.03 Witness application of visible magnetic	ABS NDT Guide 5/5.7:2	prime mover(s)' components	40 OF IC 103.320
particles	7.20 1.21 Galad 6/6.6	.03 Verify installation of protective covers or	46 CFR 177.960
.04 Witness technician examine/interpret	ABS NDT Guide 5/5	guards	
readings		.04 Verify generator(s) nameplates are	46 CFR 183.320(d)
.05 Evaluate test results or review technician's	ABS NDT Guide 5/5	attached	
report		.05 Verify required gauges (when applicable)	46 CFR 183.320(c)
TI-NT03 - Verify suspected surface for satisfactory	condition by pondostructive testing	TI-ES03 - Inspect lighting systems	
(NDT) using the radiography (gamma rays or x-ray		.01 Verify light fixtures	46 CFR 183.410
.01 Verify individual's knowledge of and ability	46 CFR 176.700(d)	101 Volly light lixtures	UL 1570
to use radiography equipment	NVIC 07-68 9(V)(A)	.02 Verify presence of portable lights	46 CFR 183.430
3 17 7 17 1	ABS 2-4-1/5.17	.03 Verify emergency lighting	46 CFR 183.432
.02 Verify technique	ABS NDT Guide 2/5	.04 Verify overcurrent protection	46 CFR 183.380
.03 Witness technician examine/interpret	ABS NDT Guide 2/5.15	w w	UL 489
readings	ADC NOT Cuide 2/2	.05 Verify navigation lights	46 CFR 183.420
.04 Review technician's report	ABS NDT Guide 2/9		UL 1104

<u>'I-ES04 - Inspect battery installation</u> <u>.01 Determine battery category</u>	46 CFR 183.352	TI-HI09 - Inspect fiberglass external hull .01 Inspect condition	46 CFR 176.610(a)
.02 Verify ventilation	46 CFR 183.354	.01 inspect condition	NVIC 08-87 Chapter 5
.02 Verily Verillialion	46 CFR 165.554 46 CFR 111.15-10	02 Everning stress eress	46 CFR 176.610(a)
02 Varify properly installed and accurad	46 CFR 111.13-10 46 CFR 183.350(b)	.02 Examine stress areas	NVIC 08-87 Chapter 5
.03 Verify properly installed and secured		OO Francisco and in control the search half fitting	
04 Varify and a few marintaneous and new avail	46 CFR 183.354	.03 Examine area in way of through hull fitting	
.04 Verify space for maintenance and removal	46 CFR 183.350(c)		46 CFR 176.610(b)
.05 Verify ammeter connected in the charging	46 CFR 183.350(f)	OA Francisco for	NVIC 08-87 Chapter 5.
ircuit (when applicable)	40 OFD 400 050()	.04 Examine for	46 CFR 176.610(a)
.06 Verify proper ventilation of charger (when	46 CFR 183.350(a)	damge/unfairness/delamination	46 CFR 176.610(b)
pplicable)	40 OFD 400 050/ I)	of Mark and the factor to the	NVIC 08-87 Chapter 5.
.07 Verify connections	46 CFR 183.350(d)	.05 Verify no unauthorized repairs	46 CFR 2.01-15(a)(2)
			46 CFR 176.700
I-ES05 - Inspect electrical cable and fixtures			NVIC 08-87 Chapter 6
.01 Verify supports for vertical and horizontal	46 CFR 183.340(b)(4)		
nstallations		TI-HI10 - Inspect fiberglass internal hull	
.02 Verify radius of bends	46 CFR 183.340(b)(5)	.01 Inspect condition	46 CFR 176.610(a)
.03 Verify no hazardous conditions exist	46 CFR 183.200-220		NVIC 08-87 Chapter 5
	46 CFR 183.530	.02 Examine stress areas	46 CFR 176.610(a)
	46 CFR 111.105		NVIC 08-87 Chapter 5
.04 Verify condition of outlets	46 CFR 183.220(c)	.03 Examine area in way of through hull fitting	s 46 CFR 176.610(a)&(b
.05 Verify connection types	46 CFR 183.340(g)		NVIC 08-87 Chapter 5.
.06 Inspect cable size and condition	46 CFR 183.340(d)	.04 Examine for	46 CFR 176.610(a)&(b)
		damge/unfairness/delamination	NVIC 08-87 Chapter 5.
TI-ES06 - Inspect distribution panel(s)		.05 Verify no unauthorized repairs	46 CFR 2.01-15(a)(2)
.01 Verify location	46 CFR 183.330(a)	·	46 CFR 176.700
,,	46 CFR 183.330(e)		NVIC 08-87 Chapter 6
.02 Verify installation and drip shield	46 CFR 183.330(a)		·
	46 CFR 183.330(c)	TI-HI11 - Evaluate fiberglass repair(s)	
.03 Verify blanks are installed	46 CFR 183.330(i)	.01 Evaluate extent of damage, defect(s)	46 CFR 176.610
.04 Verify sized correctly	46 CFR 183.330(j)	and/or delamination	NVIC 08-87 Chapter 6
10: 10:my 6:200 00:100my	46 CFR 111.30-19	.02 Review repair proposal	46 CFR 2.01-15(a)(2)
.05 Verify circuit directory	46 CFR 183.220(d)	102 Noviow ropan proposal	46 CFR 176.700
volly offour directory	10 01 10 100.220(d)		NVIC 08-87 Chapter 6
T-ES07 - Inspect components installed in designation	end hazardaya arang (when	.03 Verify repair materials	46 CFR 176.700
	eu nazardous areas (when	verily repair materials	NVIC 08-87 Chapter 4
applicable)	4C CED 402 E20(a)	.04 Inspect repair(s)	46 CFR 176.610
.01 Verify hazardous area(s)	46 CFR 183.530(a)	.04 Inspect repair(s)	NVIC 08-87 Chapter 6
00 M 16 - 1- (111	46 CFR 183.530(b)		NVIC 06-67 Chapter 6
.02 Verify electrical equipment for hazardous	46 CFR 183.530(b)	In terms of Other control I P 1 (1 (12))	
rea(s)	46 CFR 183.530(c)	Internal Structural Examination (IS)	
.03 Verify integrity of equipment	46 CFR 183.530(c)		
	46 CFR 111.105	TI-IS01 - Verify confined spaces are safe for enti	
		.01 Review Marine Chemist certificate	29 CFR 1915.12(f)
			CIM 5100.47A/6.G.9.c
			NFPA 306/4.3
		00 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	00 055 4045 45

.02 Verify competent person has maintained Marine Chemist Certificate

applicable)

.05 Verify condition of space access point

.03 Verify no changes to vessel's condition.04 Verify forced ventilation is provided (when

29 CFR 1915.15 CIM 5100.47A/6.G.9.c(3) NFPA 306/4.6.2

29 CFR 1915.76

29 CFR 1915.15(b) 29 CFR 1915.13(b)(3)

TI-HI07 - Verify	if vessel qu	ualifies to p	articipate	in the U	SCG's	underwater	survey
program (UWIL	D)						

TI-HI07 - Verify if vessel qualifies to participate in the	<u>ne USCG's underwater survey</u>
program (UWILD)	
.01 Review application	46 CFR 176.630
	NVIC 01-89
	MSM II/B.3-22
.02 Inspect condition of hull and protection	NVIC 01-89 Encl.1/1.a
system	46 CFR 176.615(a)(3)
.03 Verify reference points	NVIC 01-89 Encl.1/1.b
.04 Verify hinged gratings are installed on sea	NVIC 01-89 Encl.1/1.c
chest(s)	
.05 Verify means for taking shaft-bearing and	MSM II/B.3-29
rudder-bearing clearances	
.06 Review hull gauging report	NVIC 01-89 Encl.1/1.a
.07 Review reference video	NVIC 01-89 Encl.1/1.d
	MSM II/B.3-23
.08 Forward application with OCMI's	MSM II/B.8.C.18.f
recommendation	
TI-HI08 - Inspect hull during an underwater survey	
.01 Confirm vessel's approved application for	46 CFR 176.615
underwater inspection in lieu of drydocking	NVIC 01-89 Encl.1/2.a
(UWILD) examination	
.02 Verify procedures to be followed in	46 CFR 176.615
carrying out the underwater survey are adequate	46 CFR 197.202
.03 Verify suitability of location where the	46 CFR 176.615
underwater survey will be accomplished	NVIC 01-89 Encl.1/5.c
.04 Review reference plans and video showing	NVIC 01-89 Encl.1/2.a(12)
the external details of the hull	NN // O O A O O F . I A / A
.05 Meet with the vessel's representative and	NVIC 01-89 Encl.1/4
diving supervisor to discuss the details of the	
survey	NI) (10 04 00 E - 14 (0 - (7)
.06 Verify that vessel's representative	NVIC 01-89 Encl.1/2.a(7)
submitted a signed letter stating the overall	
condition of the vessel	40 OFD 407 000
.07 Verify qualification of divers, type of diving	46 CFR 197.202
equipment and their nondestructive testing (NDT)	NVIC 01-89 Encl.1/5.f
and damage repair capabilities	NV/IC 04 90 Engl 4/E a
.08 Verify that all areas of the hull have been	NVIC 01-89 Encl.1/5.g
cleaned to allow for a meaningful examination	40 CED 407 202
.09 Witness underwater survey from a video	46 CFR 197.202
monitor	NVIC 01-89 Encl.1/5.I

monitor

Stability (ST)

	s simplified stability proof test applicability	t 46 CFR 178.310(c) 46 CFR 178.320
.02 Validate pa	assengers and crew permitted	CG-4006 46 CFR 176.112 46 CFR 176.113
etc.	led condition; cargo, dive gea	CG-4006
.04 Verify test center of gravity	weight(s) and their vertical	46 CFR 178.215 46 CFR 178.330
• •	CG-4006 form calculations	46 CFR 178.330 CG-4006
.06 Witness ar	nd document simplified stabilit	
	bility letter for signature	46 CFR 178.210
	s pontoon simplified stability to	
.01 Determine	applicability	46 CFR 178.310(c) 46 CFR 178.320
.02 Validate pa	assengers and crew permitted	PSST Form 46 CFR 176.112 46 CFR 176.113
	e test date with Marine Safety mall Vessel Branch staff)	46 CFR 178.210(d)
, , ,	led condition (cargo, dive gea	r, 46 CFR 178.340 PSST Form
,	weight(s) and their vertical	46 CFR 178.215 46 CFR 178.340
	PSST form calculations	46 CFR 178.340 46 CFR 178.340 PSST Form
.07 Witness ar	nd document simplified stabilit	
.08 Verify MS0	C issues stability letter	46 CFR 178.210(d)

TI-ST03 - Witness deadweight survey with or without	out inclining	TI-HI02 - Inspect tailshaft(s), stern bearing(s) and p	propeller(s)
.01 Determine applicability	46 CFR 178.310(a)	.01 Determine if tailshaft(s) needs to be drawn	46 CFR 176.670
	46 CFR 178.310(b)		MSM II/B.3.D.3
	46 CFR 170.001,. 070 & .075	.02 Verify bearing clearance and inboard seal	46 CFR 176.670
.02 Verify intended service (Exposed, Paritally	46 CFR 175.400	assembly	Manufacturer's manual
Protected, Protected)		.03 Visually examine entire shaft (when	46 CFR 176.670
.03 Review approved stability test procedure	46 CFR 170.185	applicable)	
and MSC approval letter	40 OFD 470 400	.04 Witness satisfactory non-destructive	46 CFR 176.670
.04 Discuss acceptable deviations from	46 CFR 170.190	testing (NDT) of the shaft's taper section and	
requirements of procedure (contact MSC) .05 Assess General Condition of the vessel	A CTM E4224 C 4	keyway (when applicable)	40 OED 470 070
	ASTM F1321 6.1	.05 Witness satisfactory NDT of propeller	46 CFR 176.670
(completeness, configuration refelcts as-built plans, tankage, mooring arrangement,		coupling bolts and flange radius (when applicable)	
environment, specific gravity with hydrometer)		.06 Verify condition and weardown of strut	46 CFR 176.670
.06 Verify test weights are certified and current	ASTM F1321 6.5.2.1	bearing(s) (when applicable)	MSM II/B.3.D.10
(inclining only)	A31W1 1321 0.3.2.1	.07 Inspect condition of propeller	46 CFR 176.610(a)
.07 Witness precise survey of items to be	ASTM F1321 6.5	101 Inspect condition of properties	40 OF R 17 0.0 TO(a)
added, removed and/or relocated	Test Procedures	TI-HI03 - Inspect the rudder installation	
.08 Witness pendulum reading	ASTM F1321 8.1.3.6	.01 Verify type of assembly installed	46 CFR 176.814
.09 Witness accurate/percise freeboard	ASTM F1321 8.1.2	verify type of assembly installed	MSM II/B.3.E.2
measurements and resulting calculation/linear		.02 Examine rudder assembly for deterioration	46 CFR 176.610(a)
plot		and defects	10 01 11 17 0.0 10 (a)
.10 Witness weight movement and resulting	ASTM F1321 8.1.3	.03 Verify rudder bearing clearance(s) are	Manufacturer's manual
weight moment plot, verify appropriate scale and		within limits	
straight line (inclining only)		.04 Verify condition of pintle(s), gudgeon(s),	MSM II/B.3.E.2
		bushing(s), pintle nut(s) and locking device(s)	
TI-ST04 - Verify drainage requirements		.05 Verify condition of pintle by nondestructive	MSM II/B.3.E.2
.01 Determine vessel type	46 CFR 178.410 & .420	test (NDT) (when applicable)	
	46 CFR 178.430		
	46 CFR 178.440	TI-HI04 - Inspect hull appendages	
.02 Verify requirements for cockpit deck	46 CFR 178.420	.01 Examine condition and structural integrity	46 CFR 176.610(a)
vessels (when applicable)	46 CFR 178.450	of bilge keel (when applicable)	
.03 Verify requirements for well deck vessels	46 CFR 178.430	.02 Examine condition of keel coolers (when	46 CFR 176.610(a)
(when applicable)	46 CFR 178.450	applicable)	46 CFR 182.422
.04 Verify requirements for open boats (when	46 CFR 178.440	.03 Examine condition of transducers and	46 CFR 176.610(a)
applicable)	40 OED 470 440	other similar appendages (when applicable)	
.05 Verify requirements for flush deck vessels	46 CFR 178.410		
(when applicable)		TI-HI05 - Inspect anchor chain(s)	
TI STOE Marife airentified autholiviaire (when applie	achta)	.01 Examine length of chain for satisfactory	46 CFR 184.300
TI-ST05 - Verify simplified subdivision (when applic	<u>cable)</u> 46 CFR 179.212	condition	40 OFD 404 000
.01 Determine applicability.02 Verify location and watertight integrity of	46 CFR 179.212 46 CFR 179.210	.02 Examine chain locker for satisfactory	46 CFR 184.300
collision bulkhead	46 CFR 179.210 46 CFR 179.310	condition	
.03 Verify location and watertight integrity of	46 CFR 179.310 46 CFR 179.212	TI 1800 (1909) (1909)	
watertight bulkheads	46 CFR 179.320	TI-HI06 - Inspect sea valve(s)	46 OFD 476 040
.04 Complete CG-4005 form calculations	46 CFR 179.210 & .220	.01 Verify quantity and type	46 CFR 176.610 46 CFR 179.350(c)
The samples of the same same same same same same same sam	MSM IV/6.E.9.b		46 CFR 179.350(c) 46 CFR 179.350(d)
	CG-4005	.02 Verify that all sea valves are properly	46 CFR 176.610
.05 Verify subdivision	46 CFR 179.210	identified and are opened for examination	TO OF IX 170.010
•	46 CFR 179.220	.03 Examine external and internal components	46 CFR 176.610
		- Examino oxioniai ana mioriai componente	

TI-ED02 - Evaluate Man Overboard Drill		Structural/Watertight Integrity Inspection (SW)
.01 Verify ability to recover a helpless person	46 CFR 176.808(g)	Structural/Watertight integrity inspection (344)
to receive a neighbor percent	46 CFR 185.520	TI-SW01 - Inspect hatches and Class-1 watertight	doors (when applicable)
.02 Verify crew's ability to organize	46 CFR 185.520	.01 Verify condition of knife edges	46 CFR 179.330(c)
.03 Verify crew's familiarity with their duties	46 CFR 180.210	.01 Verify condition of killie eages	46 CFR 174.210
Too to my drong rannamy man area added	46 CFR 185.520	.02 Verify condition of gasket material	MSM II/B.1.E.5
.04 Witness launching of rescue boat (when	46 CFR 185.520		46 CFR 174.210
applicable)	10 0110 100.020	.03 Verify watertight integrity between gasket and knife edge	
.05 Evaluate crew's proficiency in handling and	46 CFR 180.210	and knille edge	46 CFR 170.270
maneuvering the rescue boat in the water (when	46 CFR 185.520	O4 Marifa and distance of a constitution of his one	MSM II/B.1.E.5
applicable)	40 CH N 105.520	.04 Verify condition and operation of hinges	46 CFR 170.270
.06 Evaluate crew's proficiency in handling and	46 CFR 180.210	and dogging devices	10.055.470.000(1)
maneuvering the vessel in the water (when	46 CFR 185.520	.05 Verify operation of Class-1 door's quick-	46 CFR 179.330(b)
applicable)	40 CFR 105.520	acting closing device	
	40 OED 405 700	.06 Verify operation of indicator lights at the	46 CFR 179.330(b)
.07 Verify operational readiness and condition	46 CFR 185.700	control station	
of rescue platform (when applicable)		_ .07 Verify markings	46 CFR 185.610
		1	
TI-ED03 - Evaluate abandon ship drill		TI-SW02 - Inspect Class 2 & 3 watertight doors (w	<u>hen applicable)</u>
.01 Witness drill	46 CFR 176.808(g)	.01 Verify operation of local controls	46 CFR 179.330(c)
	46 CFR 185.520	, ,	46 CFR 170.270(c)(2)
.02 Verify means or summoning crew and	46 CFR 185.520(b)(1)		ASTM F1197/7.1
passengers	46 CFR 185.520(b)(2)	.02 Verify operation of remote controls	ASTM F1197/7.1
.03 Verify crew's familiarity with assigned	46 CFR 185.520(a)	.03 Verify condition of replaceable interface	46 CFR 170.270(c)(1)
duties		between door and frame assembly	ASTM F1196/6.3
.04 Verify all lifejackets are correctly donned	46 CFR 185.520(b)(3)	.04 Verify operation of alarms	ASTM F1197/11.5
.05 Witness means of launching survival craft	46 CFR 185.520(b)(4)	.05 Verify closing times are in compliance	ASTM F1197/11.2
(when applicable)	46 CFR 185.520(b)(5)	voiny dioding union are in compliance	ASTM F1197/11.4
((-)(-)	.06 Verify markings	46 CFR 185.610
Hull Inspection (HI)		.00 Verily markings	ASTM F1196/11.1
Trum mapeedon (rm)			ASTM F1196/S4
TI IIIO4 . Leavest of each and all actions in the		.07 Verify watertight integrity	ASTM F1196/S4 ASTM F1196/S1
TI-HI01 - Inspect steel and aluminum hulls	40 OFD 470 000		
.01 Examine for wastage, defect(s) and	46 CFR 176.802	.08 Verify operation of doors under reserve	46 CFR 170.270(c)(3)
damage	46 CFR 176.610	power	ASTM F1197/S3
.02 Examine critical areas (stringer plate,	46 CFR 176.802(a)(1)		
sheer plate, etc.)	NVIC 07-68 Section IV(B)	TI-SW03 - Inspect watertight bulkhead penetration	
	NVIC 11-80	.01 Verify locations	46 CFR 179.320(c)
.03 Examine seachests and overboard	46 CFR 176.802(a)(2)	.02 Verify watertight	46 CFR 179.320(c)
discharges for wastage, defect(s) and damage	NVIC 07-68 Section II(A)		46 CFR 182.720(d)(1)(ii)(C)
.04 Verify condition of drydock (bottom) plugs	46 CFR 176.802(a)(7)		MSM II/B.1.B.5
(when applicable)	NVIC 07-68 Section II(A)		
	MSM II/B.3.B	TI-SW04 - Inspect hull structure	
.05 Verify wastage/corrosion is within limits	NVIC 07-68 Section III(C)	.01 Inspect for damage, wastage and fractures	46 CFR 177.300
	ABS 7-A-4/27		MSM II/B.1.B.1
		.02 Verify no unauthorized repairs	46 CFR 176.700
		,	46 CFR 2.15(a)(2)
			(~/(-/

Pollution Prevention Inspection (PP)

TI-PP	01 - Inspect sewage system	
.01	Verify presence of manufacturer's	33 CFR 159.57
instruc	ctions	
.02	Verify operation	33 CFR 159.57
		46 CFR 184.704
.03	Verify capacity	33 CFR 159.57(b)(8)
.04	Verify piping and wiring	33 CFR 159.97
.05	Verify Marine Sanitation Device (MSD)	33 CFR 159.7
approv	val	MSM II/B.6.F.4
.06	Verify instructions and warning placard	33 CFR 159.59
posted	1	
.07	Verify overboard discharge valve is closed	33 CFR 159.7(b)
and se	ecure (when applicable)	33 CFR 159.7(c)

TI-PP02 - Conduct garbage handling (MARPOL Annex V) survey (when applicable)					
	Review plan compliance	46 CFR 184.702			
		33 CFR 151.51 & .57			
		MARPOL V/9.2			
.02	Verify handling of plastics	33 CFR 151.55			
		MARPOL V/9.3(b)			
.03	Verify placards posted	33 CFR 151.59			
		MARPOL V/9.1(a)			

<u>TI-PP03</u> - Conduct Vessel General Permit (VGP) compliance verification (when <u>applicable)</u>

<u>applicable)</u>				
.01	Verify Notice of Intent (NOI) (when	CG-543 Policy Ltr 11-01		
applicable)		FWPCA Section 402		
		VGP 1.5.1.1		
.02	Review General Permit	CG-543 Policy Ltr 11-01		
.03	Verify discharges are in compliance with	VGP 2.2.3.2		
VGP		VGP 4.3		
.04	Verify log entries	VGP 4.1.1.1		
		VGP 4.2		

Topside Equipment Inspection (TE)

TI-TE01 - Examine freeing ports and scuppers (when applicable)				
.01	Verify no modifications	46 CFR 176.700		
.02	Verify unobstructed	46 CFR 178.410		
.03	Verify free operation of any flowback	46 CFR 178.230		
device (when applicable) Stability Letter		Stability Letter		

TI-TE	02 - Examine ground tackle, mooring lines and	related e	<u>equipment</u>
	Determine size of anchor(s) required	46 CFR	184.300
.02	Verify operation of capstan (when	46 CFR	184.300
applic			
	Examine condition of anchoring equipment		184.300
	Verify ability to safely anchor	46 CFR	184.300
	Verify condition of bits, cleats, fairleads	46 CFR	184.300
	inches		
	Verify mooring lines/wires sizes and	46 CFR	184.300
condit	ion		
II-IE	03 - Inspect port lights, dead covers and natura		
	Verify covers are readily available and		182.460(I)
opera			182.465(h
.02	Inspect closing devices for proper fit and		182.460(l)
seal	Increase part limbte and deed covers for		182.465(h
.03	1 1 5		179.350(a
prope	r fit and seal	46 CFR	179.350(b
TLTE	04 - Inspect fuel tank venting		
	Verify condition and location	46 CFR	182.450(d
.01	verify contained and location		182.450(f)
			I-33 & H-2
.02	Verify installation and condition of flame		182. 450(
screer	· · · · · · · · · · · · · · · · · · ·		
	Verify installation of vent piping	46 CFR	182.450(h
	Verify vent size		182.450(b
	, , , , , , , , , , , , , , , , , , , ,		182.450(c
.05	Verify condition of flexible vent pipe		182.450(g
sectio			,,
	05 - Inspect rails and guards		
	Verify rail heights and courses	46 CFR	177.900
	Verify storm rails		177.920
	Verify guards for vehicles (when	46 CFR	177.940
applic	able)		
Francis Drille (FD)			
	arana ara Duilla (ED)		

Emergency Drills (ED)

TI-ED01 - Evaluate Fire Drill				
.01 Witness fire drill	46 CFR 185.524			
	46 CFR 176.810(d)			
	MSM II/B.2.D.3			
.02 Verify crew's ability to organize	46 CFR 185.524(b)(2)			
.03 Verify crew's familiarity with their duties	46 CFR 185.524(b)(2)			
.04 Verify crew's familiarity with use of	46 CFR 185.524(b)(3)			
equipment				
.05 Verify method of summoning passengers	46 CFR 185.524(b)(2)			
to muster or embarkation stations				
.06 Verify effective communication with master	46 CFR 185.524(b)(2)			