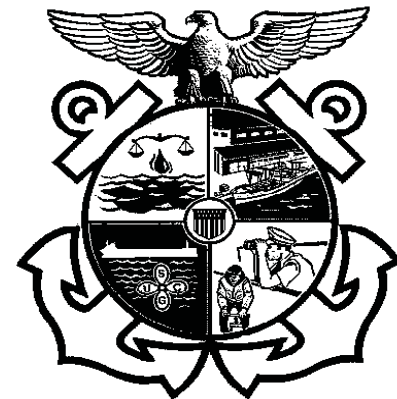


United States Coast Guard



**SMALL PASSENGER VESSEL (K) INSPECTOR
COMPETENCY CODE (KI)**

Training Aid

Use of Small Passenger Vessel (K) Training Aid:

This is a condensed version of the K-boat Inspector Performance and Qualification Standard (PQS) workbook. This Training Aid is intended to be used by Coast Guard Marine Inspector trainees during inspections of domestic flagged vessels subject to Subchapter K. This Training Aid provides a quick reference for all the steps necessary to complete specific examination tasks listed in the K-boat inspector Job Aid.

This PQS workbook cites SOLAS regulations from the 2014 Consolidated Edition (SOLAS 14). In some cases, the regulations in SOLAS 14 may not apply due to the keel laid date of the vessel. Marine Inspectors must pay close attention to the applicability dates of the SOLAS chapters and regulations when performing inspections.

KII-FF03 - Inspect International Shore Connection (when applicable)

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

Follow Up Action (FU)

KII-FU01 - Issue/endorse vessel's certificates (when applicable)

- .01** Issue/endorse certificates, as applicable 46 CFR 114.120
SOLAS 14 I/14(i)(ii)
IMO Res A.1076(28)
- .02** Obtain a copy of all endorsed certificates for the unit's vessel file MSM I/12.E.7

Table of Contents:

Small Passenger Vessel (K) Inspection

Pre-inspection..... 1
Dockside Assessment2
Certificates and Documents2
Logs and Manuals4
Bridge/Navigation4
General Health & Safety.....6
Lifesaving Equipment7
Firefighting Systems9
Machinery11
Electrical Systems13
Stability15
Structural/Watertight Integrity17
Pollution Prevention.....18
Topside Equipment18
Emergency Drills.....19
Hull Inspection20
Internal Structure23
Non-Destructive Testing24
Watertight Integrity.....25
Follow Up Action.....26

International Addendum.....27

Pre-Inspection (PI)

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

.01	Locate vessel	MSM I/12.G.5
.02	Verify documents are current	MSM I/12.G.2
.03	Review history (narratives, deficiencies & special notes)	MSM I/12.G.2 MSM I/12.G.7
.04	Verify user fees	MSM I/12.G.2
.05	Enter title and point(s) of contact	MSM I/12.G.2.a
.06	Generate new activity	MSM I/12.G.2.a
.07	Determine authority, jurisdiction and applicable regulations	46 USC 3301 46 CFR 114.110 46 CFR 114.112

KI-PI02 - Coordinate inspection with vessel's representative

.01	Verify vessel's representative	MPS-PR-SEC-01
.02	Determine location and time of inspection	MPS-PR-SEC-01
.03	Discuss inspection expectations	46 CFR 115.800 MSM II/B.3.A
.04	Verify vessel's owner/operator information	MPS-PR-SEC-04
.05	Verify vessel's Classification Society information (when applicable)	MPS-PR-SEC-04
.06	Discuss outstanding conditions and/or CG-835s	MPS-PR-SEC-04
.07	Review planned repairs and alterations (when applicable)	46 CFR 115.700

KI-PI03 - Mitigate potential hazards encountered during an inspection

.01	Recognize potential hazards encountered during inspection	NFPA 306 29 CFR 1915.4
.02	Determine confined spaces	MSM I/10 App.A
.03	Determine if exam scope will require a Marine Chemist certification for space entry	29 CFR 1915, Part B MSM II/A.5.H
.04	Verify Marine Chemist has been scheduled for exam (when applicable)	MSM I/10 App. A
.05	Prepare necessary personal protective equipment for exam	MSM I/10 App. A Quattro Operator's Manual
.06	Review CG policy for when to leave a space due to hazardous condition	MSM I/10 App. A

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

.01	Verify operational	SOLAS 14 V/19.2.3.1
-----	--------------------	---------------------

KII-BN07 - Inspect Global Maritime Distress and Safety System (GMDSS) equipment

.01	Verify Station ID numbers on applicable equipment	47 CFR 80.1083 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 80.1083-.1095 SOLAS 14 IV/6.1 NVIC 03-99
.04	Verify operation of VHF Digital Selective Calling (DSC) radio	47 CFR 80.1085(a)(1) SOLAS 14 IV/7.1.1
.05	Verify emergency source of power is provided	47 CFR 80.1099(b) SOLAS 14 IV/13.2
.06	Verify presence of manuals, tools, spare parts and test equipment (when applicable)	47 CFR 80.1105 SOLAS 14 IV/15 Operations Manual
.07	Verify compliance with maintenance method(s)	47 CFR 80.1105(c) SOLAS 14 IV/15.6 NVIC 03-99

Lifesaving Equipment Inspection (LS)

KII-LS01 - Inspect immersion suits (when applicable)

.01	Verify type approval	46 CFR 117.10 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

Firefighting (FF)

KII-FF01 - Inspect emergency outfits and equipment

.01	Verify number of outfits (as applicable)	SOLAS 14 II-2/10.10.2
.02	Verify spare charges for breathing apparatus (when applicable)	SOLAS 14 II-2/10.10.2.5
.03	Verify means for recharging breathing air cylinders (when applicable)	SOLAS 14 II-2/10.10.2.6
.04	Verify stowage location (when applicable)	SOLAS 14 II-2/10.10.3
.05	Verify markings	SOLAS 14 II-2/10.10.3.1

KII-FF02 - Inspect fire control plan

.01	Verify contents	SOLAS 14 II-2/15.3
.02	Verify location	SOLAS 14 II-2/15.3

KII-SD04 - Evaluate crew's knowledge of security plan

- .01 Identify Company Security Officer (CSO) 33 CFR 104.200(b)(2)
SOLAS 14 Reg XI-2/4.2
ISPS Code A/11.1
- .02 Identify Vessel Security Officer (VSO) 33 CFR 104.200(b)(2)
ISPS Code A/12.1
- .03 Evaluate VSO knowledge regarding his/her responsibilities 33 CFR 104.215(e)
ISPS Code A/12.2
NVIC 04-03 Encl. 3 Section 9
- .04 Evaluate crew's level of knowledge regarding their security responsibilities 33 CFR 104.220
ISPS Code A/13.3
NVIC 04-03 Encl. 3 Section 10
- .05 Verify compliance with current Maritime Security (MARSEC) level 33 CFR 104.240
33 CFR 104.215(e)(9)
ISPS Code A/12.2.9

Bridge/Navigation Inspection (BN)**KII-BN01 - Inspect voyage data recorder (when applicable)**

- .01 Verify presence SOLAS 14 V/20
- .02 Verify installation SOLAS 14 V/20

KII-BN02 - Inspect automatic identification system (AIS) (when applicable)

- .01 Verify presence 33 CFR 164.43(a)
- .02 Verify operational 33 CFR 164.43(a)

KII-BN03 - Inspect bridge navigation equipment (when applicable)

- .01 Verify spare magnetic compass SOLAS 14 V/19.2.2.1
- .02 Verify pelorus or compass bearing device SOLAS 14 V/19.2.1.2
- .03 Verify means of correcting heading & bearing to true at all times SOLAS 14 V/19.2.1.3
- .04 Verify electronic plotting aide SOLAS 14 V/19.2.3.3
- .05 Verify speed & distance measuring device SOLAS 14 V/19.2.3.4

KII-BN04 - Inspect communication equipment (when applicable)

- .01 Verify operation of NAVTEX 47 CFR 80.1101(c)
SOLAS 14 IV/7.1.4
- .02 Verify operation of portable VHF(s) 47 CFR 80.1095
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 installation is appropriate for the Sea Area in which the vessel operates 46 CFR Part 80 Subpart W

KII-BN05 - Inspect long range identification and tracking (LRIT) (when applicable)

- .01 Verify presence 33 CFR 169.205(a)
SOLAS 14 V/19
- .02 Verify operational 33 CFR 169.205(a)
SOLAS 14 V/19

Dockside Assessment (DA)**KI-DA01 - Conduct initial vessel visual examination**

- .01 Verify presence of anchor(s) (when visible) 46 CFR 121.300
- .02 Verify draught (draft) marks 46 CFR 122.602
- .03 Verify name and hailing port 46 CFR 122.602
46 CFR 67.123
- .04 Evaluate hull for signs of pollution/illegal discharge 33 CFR 151.10
33 CFR 155.330
33 CFR 155.350
- .05 Evaluate hull condition 46 CFR 115.802
- .06 Examine means of embarkation (gangway/ladders) 29 CFR 1915.74(a)(6)
- .07 Verify condition of mooring lines 46 CFR 121.300

Security (Domestic) Inspection (SD)**KI-SD01 - Examine Vessel Security Plan (VSP/ASP)**

- .01 Verify presence of approval letter for plan type 33 CFR 104.120(a)(1)
SOLAS 14 XI-2/4.2
ISPS Code A/9.1
- .02 Verify plan is secured 33 CFR 104.400(c)
ISPS Code A/9.7
NVIC 04-03
- .03 Examine contents 33 CFR 104.400
- .04 Verify amendment(s) (when applicable) 33 CFR 104.415(a)
- .05 Verify implementation 33 CFR 104.400(a)

KI-SD02 - Examine security records

- .01 Verify record(s) of security training 33 CFR 104.235(b)(1)
SOLAS 14 XI-2/4.2
ISPS Code A/10.1.1
- .02 Verify presence of Declarations of Security (DoS)(when applicable) 33 CFR 104.235(b)(7)
ISPS Code A/5.7
NVIC 04-03 Encl. 3 Section 10
- .03 Verify record(s) of security drills 33 CFR 104.235(b)(2)
ISPS Code A/10.1.1
- .04 Verify annual exercise has been conducted 33 CFR 104.235(b)(2)
ISPS Code A/10.1.1
- .05 Verify record(s) of annual audit 33 CFR 104.235(b)(8)
ISPS Code A/10.1.6

KI-SD03 - Inspect security equipment

- .01 Verify equipment matches plan(when applicable) 33 CFR 104.292(b)(ii)
SOLAS 14 XI-2/6
ISPS Code A/9.4.17
- .02 Verify maintenance records 33 CFR 104.260
33 CFR 104.235(b)(5)
NVIC 04-03 Encl. 3 Section 10

KI-SD04 - Evaluate crew's knowledge of security plan

- .01** Identify Company Security Officer (CSO) 33 CFR 104.200(b)(2)
SOLAS 14 XI-2/4.2
ISPS Code A/11.1
- .02** Identify Vessel Security Officer (VSO) 33 CFR 104.200(b)(2)
ISPS Code A/12.1
- .03** Evaluate VSO knowledge regarding his/her responsibilities 33 CFR 104.215(e)
ISPS Code A/12.2
NVIC 04-03 Encl. 3 Section 9
- .04** Evaluate crew's level of knowledge regarding their security responsibilities 33 CFR 104.220
ISPS Code A/13.3
NVIC 04-03 Encl. 3 Section 10
- .05** Verify compliance with current Maritime Security (MARSEC) level 33 CFR 104.240
33 CFR 104.215(e)(9)
ISPS Code A/12.2.9

Certificates and Documents (CD)**KI-CD01 - Review Certificate of Inspection (COI)**

- .01** Verify presence of original 46 CFR 115.302
- .02** Verify amendments (when applicable) 46 CFR 115.120
- .03** Verify manning MSM III/B.2.C
46 CFR 15.501
46 CFR 122.304
- .04** Verify certificate is endorsed 46 CFR 115.500(b)(1)(ii)

KI-CD02 - Verify vessel's stability letter

- .01** Verify presence of stability documents 46 CFR 117.210
46 CFR 117.220
46 CFR 116.306
- .02** Verify contents 46 CFR 117.230

KI-CD03 - Review Merchant Mariner Credentials (MMCs)

- .01** Ensure MMCs meet COI manning requirements 46 CFR 15.515
46 CFR 10.205(g)
46 CFR 15.805(a)(4) & .810(b)(1)
- .02** Verify presence of original MMCs 46 CFR 122.402
- .03** Verify validity 46 CFR 10.205(a)
46 CFR 10.205(b)
- .04** Verify Vessel Security Officer endorsement 46 CFR 15.1113
- .05** Verify Transportation Worker Identification Credential (TWIC) 46 CFR 10.203(b)

KII-LM06 - Examine Oil Record Book (ORB) (when applicable)

- .01** Verify edition 33 CFR 151.25(b)
IMO Res MEPC.187(59)
CG-CVC Letter
- .02** Verify required signatures 33 CFR 151.25(h)
- .03** Verify required entries 46 CFR 121.702
33 CFR 151.25(h)
MARPOL I/Appendix III
MARPOL I/7
MARPOL I/Appendix III
- .04** Compare overboard discharge rate entries with filtering equipment data plate or supplement to IOPP certificate

Security (Domestic) Inspection (SD)**KII-SD01 - Examine Vessel Security Plan (VSP/ASP)**

- .01** Verify presence of approval letter for plan type 33 CFR 104.120(a)(1)
SOLAS 14 XI-2/4.2
ISPS Code A/9.1
- .02** Verify plan is secured 33 CFR 104.400(c)
ISPS Code A/9.7
NVIC 04-03
- .03** Examine contents 33 CFR 104.400
- .04** Verify amendment(s) (when applicable) 33 CFR 104.415(a)
- .05** Verify implementation 33 CFR 104.400(a)

KII-SD02 - Examine security records

- .01** Verify record(s) of security training 33 CFR 104.235(b)(1)
SOLAS 14 XI-2/4.2
ISPS Code A/10.1.1
- .02** Verify presence of Declarations of Security (DoS)(when applicable) 33 CFR 104.235(b)(7)
ISPS Code A/5.7
NVIC 04-03 Encl. 3 Section 10
- .03** Verify record(s) of security drills 33 CFR 104.235(b)(2)
ISPS Code A/10.1.1
- .04** Verify annual exercise has been conducted 33 CFR 104.235(b)(2)
ISPS Code A/10.1.1
- .05** Verify record(s) of annual audit 33 CFR 104.235(b)(8)
ISPS Code A/10.1.6

KII-SD03 - Inspect security equipment

- .01** Verify equipment matches plan(when applicable) 33 CFR 104.292(b)(ii)
SOLAS 14 XI-2/6
ISPS Code A/9.4.17
33 CFR 104.260
- .02** Verify maintenance records 33 CFR 104.235(b)(5)
NVIC 04-03 Encl. 3 Section 10

KII-CD13 - Examine Certificate of Documentation (COD) (when applicable)

- .01 Verify Registry endorsement 46 CFR 67.17
46 CFR 67.19

KII-CD14 - Examine Tonnage Certificate

- .01 Verify presence 46 CFR 69.69
- .02 Verify validity 46 CFR 69.69
- .03 Verify correct measurement system 46 CFR 69.11
NVIC 11-93
- .04 Verify vessel particulars remain valid 46 CFR 69.55
46 CFR 69.105
ICTM Article 3

Logs and Manuals Inspection (LM)**KII-LM01 - Examine official logbook**

- .01 Verify presence 46 CFR 122.280(a)
- .02 Verify entries 46 CFR 122.280(b)

KII-LM02 - Examine Maintenance Records

- .01 Verify shore based maintenance report for EPIRB SOLAS 14 IV/15
- .02 Verify maintenance and inspections of survival craft 46 CFR 122.722
46 CFR 122.724 & .726
SOLAS 14 III/20.7
- .03 Verify annual test reports for VHF-DSC, AIS, LRIT & SSAS SOLAS 14 IV/17

KII-LM03 - Examine Shipboard Oil Pollution Emergency Plan (SOPEP) (when applicable)

- .01 Verify applicability 46 CFR 121.702
33 CFR 151.09
MARPOL I/2
- .02 Verify approval 33 CFR 151.27
MARPOL I/37.1
- .03 Verify annual review 33 CFR 151.28(a)
33 CFR 151.28(d)
- .04 Verify plan organization 33 CFR 151.26(b)(8)

KII-LM04 - Examine oil and hazardous liquid transfer procedures (when applicable)

- .01 Verify presence 46 CFR 121.702
33 CFR 155.720
- .02 Verify Person in Charge is identified 33 CFR 155.750(a)(4)
- .03 Verify contents 33 CFR 155.750

KII-LM05 - Examine vessel's training log

- .01 Verify presence SOLAS 14 III/35
- .02 Verify contents SOLAS 14 III/35

KI-CD04 - Verify compliance with drug and alcohol program

- .01 Verify currency of Employee Assistance Program (EAP) 46 CFR 16.401
- .02 Verify presence and currency of drug and alcohol testing equipment (when applicable) 46 CFR 122.212
46 CFR 122.210
46 CFR 4.06-15
- .03 Verify training of designated testing crewmember (when applicable) 46 CFR 4.06-20(a)(3)
46 CFR 4.06-20(b)(2)
- .04 Verify random chemical testing program for dangerous drugs 46 CFR 16.230
- .05 Verify pre-employment testing program for dangerous drugs 46 CFR 16.210
- .06 Verify means of post accident testing chemical testing for dangerous drugs 46 CFR 122.210
46 CFR 122.212
46 CFR 4.06-15

KI-CD05 - Examine maintenance and service records (liferrafts & firefighting)

- .01 Review fire fighting service reports 46 CFR 115.810
- .02 Review liferaft servicing reports (when applicable) 46 CFR 122.730

KI-CD06 - Verify compliance with the Vessel General Permit (VGP) (when applicable)

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

KI-CD07 - Examine muster lists and emergency instructions

- .01 Verify muster lists and emergency instructions are available 46 CFR 122.510
46 CFR 122.512
- .02 Verify muster lists and emergency instructions are posted 46 CFR 122.510
- .03 Verify information on muster lists and emergency instructions 46 CFR 122.510
46 CFR 122.512
- .04 Verify station bill (when applicable) 46 CFR 122.514

KI-CD08 - Review Certificate of Documentation (COD) (When applicable)

- .01 Verify presence of original 46 CFR 67.313
- .02 Verify contact information 46 CFR 67.321
- .03 Verify endorsement(s) for current service(s) 46 CFR 67.17
46 CFR 67.19
- .04 Verify validity 46 CFR 67.161
46 CFR 67.163

KI-CD09 - Examine Federal Communications Commission Marine Radio Operator Permit (when applicable)

- .01 Verify presence 47 CFR 80.159(e)
- .02 Verify operator onboard 47 CFR 80.159(e)

KI-CD10 - Review Federal Communications Commission Bridge-to-Bridge Certificate(when applicable)

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

KI-CD11 - Review Federal Communications Commission Station License (when applicable)

- .01 Verify presence 47 CFR 80.13
- .02 Verify that other classes of equipment are authorized for operation 47 CFR 80.17
- .03 Verify contents 47 CFR 80.99
- .04 Verify validity 47 CFR 80.25

KI-CD12 - Review Federal Communications Commission Safety Radiotelephony Certificate (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)**KI-LM01 - Review vessel's log**

- .01 Verify EPIRB tests (when applicable) 46 CFR 122.728
- .02 Verify drills 46 CFR 122.524
46 CFR 122.520
- .03 Verify maintenance of survival craft, rescue boats, and launching appliances (when applicable) 46 CFR 122.702(d)

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

- .01 Verify validity 33 CFR 151.57
MARPOL V/9.2
46 CFR 121.702
- .02 Verify contents MARPOL V/9.2
IMO Guidelines - Appendix 3

Bridge/Navigation Inspection (BN)**KI-BN01 - Verify operations of internal communication and control systems**

- .01 Witness means of communication from operating station to propulsion machinery space (when applicable) 46 CFR 121.602
- .02 Witness operation of Public Address System 46 CFR 121.610
- .03 Verify two independent means of controlling each propulsion engine (when applicable) 46 CFR 121.620

KII-CD09 - Examine International Load Line Certificate (ILLC) (when applicable)

- .01 Verify presence 46 CFR 114.122
ICLL Article 16
- .02 Verify validity 46 CFR 42.07-45
ICLL Article 15
ICLL Article 19
ICLL Article 18
- .03 Verify certificate form
- .04 Confirm load line observed on hull (Task TII-DA01) matches certificate 46 CFR 42.07-5
ICLL I/9
- .05 Verify logbook entries are completed 46 CFR 42.07-20
- .06 Verify Record of Conditions of Assignment (Form LL.11) is present and validates issued Load Line (when applicable) CG-5212 Policy Notes 5.c

KII-CD10 - Examine copy of Document of Compliance (ISM-DOC) (when applicable)

- .01 Verify presence 46 CFR 115.925
33 CFR 96.330
SOLAS 14 IX/4.2
- .02 Verify validity 46 CFR 115.925
SOLAS 14 IX/5
ISM Code 13.2-5
- .03 Verify document form ISM Code 16
- .04 Verify alternate compliance arrangements 46 CFR 114.540
MSM II/E.3.C.5

KII-CD11 - Examine Safety Management Certificate (ISM-SMC)(when applicable)

- .01 Verify presence 46 CFR 115.925
33 CFR 96.340
SOLAS 14 IX/4.3
- .02 Verify validity 46 CFR 115.925
SOLAS 14 IX/5
ISM Code 13.5.1
- .03 Verify certificate form ISM Code 16
- .04 Verify alternate compliance arrangements 46 CFR 114.540
MSM II/E.3.C.5

KII-CD12 - Examine International Ship Security Certificate (ISSC) & Continuous Synopsis Record (CSR)

- .01 Verify vessel particulars SOLAS 14 XI-1/5.5.2
ISPS Code A/19.2.4
- .02 Verify Company name and address match SOLAS 14 XI-1/5.3
International Safety Management documents
- .03 Verify ISSC verification type with date ISPS Code A/19
- .04 Verify ISSC endorsement (Intermediate or additional) ISPS Code A/19.1.1
- .05 Verify additional ISSC verifications, extensions, renewals or expiry advancements are completed ISPS Code A/19.1.1
ISPS Code A/19.3.4
- .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

KII-CD05 - Review International Energy Efficiency Certificate and Record of**Construction (when applicable)**

.01	Verify vessel particulars	IMO Res MEPC.203(62) Appendix VIII
.02	Verify Energy Efficiency Design Index requirements (when applicable)	CG-CVC Policy Ltr 13-02 7. IMO Res MEPC.203(62) 20.1
.03	Verify Ship Energy Efficiency Management Plan (SEEMP) is identified	CG-CVC Policy Ltr 13-02 7.b IMO Res MEPC.203(62) 22
.04	Verify Technical File requirements are met (when applicable)	IMO Res MEPC.203(62) 20.1

KII-CD06 - Review International Oil Pollution Prevention Certificate (IOPP) (when applicable)

.01	Verify vessel particulars	MARPOL I/9
.02	Verify vessel type is accurate	MARPOL I/2.1-.4 MARPOL I/9
.03	Verify annual, intermediate, extension renewal, or change in anniversary date	33 CFR 151.17-.19 MARPOL I/6
.04	Verify record of construction and equipment	33 CFR 151.19 MARPOL I/9
.05	Verify control requirements for machinery bilge and fuel oil tanks identified	MARPOL I/14 MARPOL I/16
.06	Verify retention and disposal requirements for oily bilge water holding tanks	MARPOL I/12
.07	Verify standard discharge connection requirement	33 CFR 158.250 MARPOL I/13

KII-CD07 - Review Statement of Voluntary Compliance, MARPOL Annex IV (Sewage) (when applicable)

.01	Verify vessel particulars	NVIC 01-09
.02	Verify compliance type	33 CFR 159.53 & .55 NVIC 01-09 IMO Res MEPC.227(64) NVIC 01-09
.03	Verify discharge rate (draft & speed chart) identified	NVIC 01-09
.04	Verify endorsements (extension or renewal)	NVIC 01-09

KII-CD08 - Verify credentials

.01	Verify STCW endorsements	46 CFR 10.109(d) 46 CFR 11.202 STCW I/2.6
.02	Verify Vessel Security Officer endorsement	46 CFR 15.1113
.03	Verify Transportation Worker Identification Credential (TWIC)	46 CFR 10.203(b) 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

KI-BN02 - Inspect radar(s) (when applicable)

.01	Verify safety precautions are followed	Operation Manual 46 CFR 121.404
.02	Verify operation	Operation Manual

KI-BN03 - Inspect magnetic compass (when applicable)

.01	Verify illumination (when applicable)	46 CFR 121.402(c)
.02	Verify mounting location	46 CFR 121.402(a)
.03	Verify operation	46 CFR 121.402(a)

KI-BN04 - Inspect electronic position-fixing device (satellite navigation (GPS) receiver) (when applicable)

.01	Verify operation	46 CFR 121.410
.02	Witness functional test	46 CFR 121.410 Operations Manual

KI-BN05 - Verify radio telephone equipment (when applicable)

.01	Verify installation(s)	46 CFR 121.502 47 CFR 80.1003
.02	Verify equipment for operational area(s)	47 CFR 80.1015
.03	Verify emergency broadcast placard	46 CFR 121.506 46 CFR 121.510
.04	Witness operational test	47 CFR 80.931

KI-BN06 - Inspect navigation and signaling lights, and dayshapes

.01	Verify operation of navigation and anchor lights	33 CFR 83.20(b) COLREG Rule 20 46 CFR 120.420
.02	Inspect dayshapes (when applicable)	33 CFR 83.20(d) COLREG Rule 20 33 CFR 84.11
.03	Review Certificate of Alternate Compliance (when applicable)	33 CFR 81.9

KI-BN07 - Inspect sound signaling devices

.01	Verify presence of signaling device	33 CFR 83.33 COLREG Rule 33
.02	Witness operation of whistle and bell (when applicable)	33 CFR 83.33 COLREG Rule 33

KI-BN08 - Verify navigational publications and nautical charts

- .01 Verify presence of current and applicable charts 46 CFR 121.420
- .02 Verify presence of current and applicable Tide Tables 46 CFR 121.420
- .03 Verify presence of current and applicable River Current publication or Current tables (when applicable) 46 CFR 121.420
- .04 Verify presence of current and applicable Coast Guard Light List 46 CFR 121.420
- .05 Verify presence of current and applicable U.S. Coast Pilot 46 CFR 121.420
- .06 Verify presence of COLREGs (when applicable) COLREG A/1
- .07 Verify presence of Inland Navigation Rules (when applicable) 33 CFR 88.05

KI-BN09 - Inspect steering system controls at operating station

- .01 Verify operation and control 46 CFR 119.610(a)
46 CFR 119.610(b) & (c)
46 CFR 115.814
- .02 Witness operation of rudder angle indicator (when applicable) 46 CFR 119.610(e)(2)
- .03 Verify steering gear transfer instructions are posted (when applicable) 46 CFR 119.610(g)(2)
- .04 Verify visual means to indicate operation of power unit(s)(when applicable) 46 CFR 119.610(g)(1)

KI-BN10 - Inspect alarms and gauges at operating station

- .01 Verify bilge high level alarms 46 CFR 119.530(a)
46 CFR 119.530(b)
- .02 Verify automatic bilge pump indicator 46 CFR 119.530(c)
- .03 Verify flammable vapor detection system (when applicable) 46 CFR 119.480(a)
46 CFR 119.480(d)
- .04 Verify propulsion engine gauges 46 CFR 119.410(b)
- .05 Inspect audible or visual alarm for exhaust cooling system (when applicable) 46 CFR 119.425(b)(5)

General Health & Safety Inspection (GH)**KI-GH01 - Inspect accommodations**

- .01 Verify location 46 CFR 116.800
- .02 Verify number of berths 46 CFR 116.710
46 CFR 116.810
- .03 Verify spaces are of appropriate size 46 CFR 116.800
46 CFR 116.810
- .04 Verify accessibility to escape routes 46 CFR 116.500
46 CFR 116.810(c)
- .05 Verify ventilation 46 CFR 116.600(c)
- .06 Verify sanitary condition 46 CFR 115.818
- .07 Verify general alarm is adequate (when applicable) 46 CFR 120.550

KII-CD02 - Review Engine International Air Pollution Prevention (EIAPP) Certificate (when applicable)

- .01 Verify presence MARPOL VI/13.1
MARPOL VI/13.8
NOx Code 2.1.1
MARPOL VI/13.1.1
- .02 Verify engines identified and no changes have been made
- .03 Verify Statement of Compliance (issued by Manufacturer) is accompanied by EPA issued EIAPP CG-543 Policy Ltr 09-01 5.b

KII-CD03 - Review International Air Pollution Prevention Certificate (IAPP) and Supplement Record of Construction and Equipment (when applicable)

- .01 Verify vessel particulars on IAPP and Record of Construction and Equipment MARPOL VI/8
- .02 Verify annual, intermediate, renewal, repair and extension endorsements and/or change in anniversary date MARPOL VI/8
MARPOL VI/5
- .03 Verify ozone depleting substances identified MARPOL VI/12
- .04 Verify Nitrogen Oxide emission sources identified MARPOL VI/13
- .05 Verify Sulphur Oxide (fuel oil) requirements identified MARPOL VI/14
CG-CVC Policy Ltr 12-04
- .06 Verify incinerator installation identified (when applicable) MARPOL VI/16
- .07 Verify validity of alternatives or equivalents MARPOL VI/4
MARPOL VI/14.5

KII-CD04 - Review International Anti-Fouling System (IAFS) certificate with Record of Anti-Fouling System (when applicable)

- .01 Verify vessel particulars IMO Res MEPC.195(61) 4
- .02 Verify COI has Anti-Fouling endorsement or, if not required, IAFS Certificates MSM II/B.3.J
- .03 Verify identification of applied Anti-Fouling System AFS Article 3
AFS Annex 2
AFS Annex 3
- .04 Verify vessel particulars on Record of Anti-Fouling Systems IMO Res MEPC.195(61) 4.1
MSM II/B.3.J
- .05 Verify Anti-Fouling Systems details provided IMO Res MEPC.195(61) 4.2 & 5
- .06 Verify that no change in Anti-Fouling System has occurred since issuance of IAFS Certificates IMO Res MEPC.195(61) 5.2
MSM II/B.3.J

KI-FU03 - Complete MISLE Activity

.01	Open existing activity in MISLE	MSM I/12.G.2.a
.02	Update inspection results	MSM I/12.H.1 MSM II/A.2.C.2.d MMS Work Instruction
.03	Update activity narrative	MSM I/12.H.1
.04	Update vessel details	MSM I/12.H.1
.05	Amend Certificate of Inspection (when applicable)	MSM I/12.H.1
.06	Print new or amended Certificate of Inspection and Deficiency Letter (when applicable)	MSM II/A.2.C.6.b
.07	Change activity status to "Open - Submitted for Review"	MSM I/12.H.1

KI-FU04 - Verify deficiency corrections

.01	Determine an appropriate verification method for the identified deficiency(s)	MSM II/A.2.C.4
.02	Verify correction(s) meet appropriate regulations	MSM II/A.2.C.4.a
.03	Clear deficiency(s) in MISLE activity	MSM II/A.2.C.2.d MMS Work Instruction

KI-FU05 - Ensure completion of drydock examination

.01	Verify completions of all repairs	MSM II/A.2.C
.02	Issue amended Certificate of Inspection	46 CFR 115.120(a)

International Addendum**Dockside Assessment (DA)****KII-DA01 - Inspect hull for required markings (when applicable)**

.01	Verify IMO hull marking	SOLAS 14 XI-1 1/3
.02	Verify machinery space marking	SOLAS 14 XI-1 1/3
.03	Verify load line is permanently marked	ICLL 5-9
.04	Verify presence of deckline	ICLL 4

Certificates and Documents (CD)**KII-CD01 - Review Passenger Ship Safety Certificate (when applicable)**

.01	Verify presence	46 CFR 115.910(a) SOLAS 14 I/12(a)(i)
.02	Verify validity	46 CFR 115.910(c) SOLAS 14 I/14
.03	Verify contents	46 CFR 115.910(a) 46 CFR 115.910(b) SOLAS 14 I/15

KI-GH02 - Inspect means of escape from accommodation, machinery and other spaces

.01	Verify means of escape	46 CFR 116.500
.02	Verify routes are accessible	46 CFR 116.500
.03	Verify emergency lighting	46 CFR 120.432
.04	Verify markings	46 CFR 122.606

KI-GH03 - Inspect mess deck and galley spaces

.01	Inspect sanitary conditions	46 CFR 115.818
.02	Verify cooking fuel restrictions	46 CFR 121.202
.03	Verify cooking equipment requirements	46 CFR 121.220 ABYC A-3 NFPA 302
.04	Verify LPG and LNG cooking systems	46 CFR 121.240
.05	Verify condition of vents and ducts	46 CFR 116.600(d)
.06	Verify structural fire protection surrounding cooking and heating appliances	46 CFR 116.410(c)(1)

KI-GH04 - Inspect paint locker(s) (when applicable)

.01	Verify fire protection equipment	46 CFR 118.400(a)(7)
.02	Inspect space construction material	46 CFR 116.405(d)
.03	Verify electrical installations (when applicable)	46 CFR 120.530(b) 46 CFR 120.530(c)
.04	Inspect means to secure ventilation	46 CFR 116.600(b)

Lifesaving Equipment Inspection (LS)**KI-LS01 - Inspect Emergency Position Indicating Radio Beacon (EPIRB) (when applicable)**

.01	Verify registration	46 CFR 117.64 47 CFR 80.1061(e) 47 CFR 80.1061(f)
.02	Verify stowage	46 CFR 117.64
.03	Verify hydro-static release expiration date	46 CFR 122.740
.04	Verify battery date	46 CFR 122.728(b)

KI-LS02 - Inspect distress signals (when applicable)

.01	Verify type approval	46 CFR 117.68
.02	Verify quantity in accordance with vessel's route	46 CFR 117.68
.03	Verify expiration date	46 CFR 117.68 46 CFR 160.037-5 & 160.036-6 46 CFR 160.021-5
.04	Verify stowage and marking	46 CFR 117.68(e) 46 CFR 122.614

KI-LS03 - Inspect life jackets

.01	Verify type approval	46 CFR 117.71(c) 46 CFR 117.25(a)
.02	Verify quantity	46 CFR 117.71(a) 46 CFR 117.71(b)
.03	Verify stowage	46 CFR 117.78
.04	Verify markings	46 CFR 122.604(b)
.05	Verify lights (when applicable)	46 CFR 117.75
.06	Verify location and information for donning instructions	46 CFR 122.516
.07	Inspect condition and suitability	46 CFR 160.002 46 CFR 160.005 46 CFR 160.055
.08	Verify stowage of Personal Floatation Devices carried in addition to lifejackets (when applicable)	46 CFR 117.72

KI-LS04 - Inspect life buoys

.01	Verify type approval	46 CFR 117.70(b)(1) 46 CFR 160.050
.02	Verify quantity	46 CFR 117.70(a)
.03	Verify stowage	46 CFR 180.70(b)
.04	Verify size	46 CFR 117.70(a)
.05	Inspect lifeline	46 CFR 117.70(c)
.06	Inspect waterlight (when applicable)	46 CFR 117.70(d)
.07	Verify markings	46 CFR 122.604 46 CFR 117.70(b) 46 CFR 160.050-3(b) & .050-6
.08	Inspect condition and suitability	46 CFR 117.70 46 CFR 160.050

KI-LS05 - Inspect inflatable liferaft & inflatable buoyant apparatus installations (when applicable)

.01	Verify type approval	46 CFR 117.200(a)(1)
.02	Verify quantity	46 CFR 117.200(c) Table
.03	Verify stowage	46 CFR 117.130
.04	Verify markings	46 CFR 160.151-33
.05	Verify annual service dates	46 CFR 122.730(a)
.06	Verify emergency instructions are posted	46 CFR 122.518
.07	Inspect embarkation ladder (when applicable)	46 CFR 122.150
.08	Verify servicing/expiration of hydrostatic release	46 CFR 122.740
.09	Verify hydrostatic release installation	46 CFR 122.740

KI-WR02 - Inspect aluminum fit-up

.01	Examine material and fitted with approved joint detail	46 CFR 116.300(b) NVIC 07-68 V & NVIC 11-80 ABS 30.1
.02	Verify materials (base, filler, gas)	ABS 30.1
.03	Verify welding processes	ABS 30.1.3

KI-WR03 - Inspect steel fit-up

.01	Examine material and fitted with approved joint detail	46 CFR 116.300(b) NVIC 07-68 V ABS 2-4-1/3
.02	Verify materials (base, filler, gas)	46 CFR 115.700(b) ABS 2-1-1/1.1
.03	Verify welding processes	46 CFR 176.700(b)

KI-WR04 - Inspect welds for defects

.01	Examine welds for uniformity and reinforcement	46 CFR 116.300(b) ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum)
.02	Examine welds for porosity, overlap and slag inclusion	NVIC 07-68 V(H) ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum)
.03	Examine adjacent base metal for injurious arc strikes, spatter and sharp or deep undercut	NVIC 07-68 V(H) ABS 2-4-1/5.15.1 ABS 30.5.10 (Aluminum)

KI-WR05 - Inspect back gouge (when applicable)

.01	Examine welds for defects (discontinuity)	46 CFR 116.300(b) NVIC 07-68 V(G)(2) ABS 2-4-1/5.9
.02	Verify proper weld sequencing	NVIC 07-68 V(F) ABS 2-4-1/5.3 ABS 30.5.5 (Aluminum)
.03	Verify joints are cleaned between interpasses	NVIC 07-68 V(E) ABS 2-4-1/3.5 ABS 30.3.3 (Aluminum)

Follow Up Actions (FU)**KI-FU01 - Issue deficiencies**

.01	Determine deficiency's reference cite	46 USC 3313(b) MSM II/A.2.C.4.b
.02	Discuss deficiencies and corrective measures/timeframe with vessel's master or representative	MSM II/A.2.C.2
.03	Issue signed CG-835 to vessel's master or representative	46 CFR 2.01-10(a) MSM II/A.2.C

KI-FU02 - Issue/endorse vessel's certificates (when applicable)

.01	Endorse certificates, as applicable	46 CFR 115.500(b)(1)(ii)
.02	Obtain a copy of all endorsed certificates for the unit's vessel file	MSM I/12.E.7

KI-NT03 - Verify suspected surface for satisfactory condition by nondestructive testing**(NDT) using the radiography (gamma rays or x-rays) method**

- | | | |
|-----|---|---|
| .01 | Verify individual's knowledge of and ability to use radiography equipment | 46 CFR 115.700(d)
NVIC 07-68 9(V)(A)
ABS 2-4-1/5.17 |
| .02 | Verify technique | ABS NDT Guide 2/5 |
| .03 | Witness technician examine/interpret readings | ABS NDT Guide 2/5.15 |
| .04 | Review technician's report | ABS NDT Guide 2/9 |

KI-NT04 - Verify suspected surface(s) for satisfactory condition by nondestructive testing (NDT) using the ultrasonic method

- | | | |
|-----|---|---|
| .01 | Verify technician's qualification and certification | 46 CFR 115.700(d)
NVIC 07-68 9(V)(A)
ABS 2-4-1/5.17 |
| .02 | Witness technician calibrate equipment | ABS NDT Guide 3/3.5 |
| .03 | Witness technician examine/interpret readings | ABS NDT Guide 3/11 |
| .04 | Evaluate test results or review technician's report | ABS NDT Guide 3/13 |

KI-NT05 - Verify nondestructive testing (NDT) using the hydro-static method

- | | | |
|-----|---|------------------------------------|
| .01 | Verify test pressure | 46 CFR 115.700(b)
ABS 3-7-1/5.5 |
| .02 | Verify test pressure is attained and maintained | ABS 3-7-1/5.5 |
| .03 | Examine joints, connections and high stress areas | ABS 3-7-1/5.5 |

KI-NT06 - Verify nondestructive testing (NDT) using the pneumatic (air test) method

- | | | |
|-----|---|------------------------------------|
| .01 | Verify test pressure | 46 CFR 115.700(d)
ABS 3-7-1/5.7 |
| .02 | Ensure test pressure is attained and maintained | ABS 3-7-1/5.7 |
| .03 | Examine joints, connections and high stress areas | ABS 3-7-1/5.7 |

Welding Repair Inspection (WR)**KI-WR01 - Evaluate steel and aluminum structural repair proposals**

- | | | |
|-----|---|--|
| .01 | Evaluate extent of damage and/or wastage/corrosion | 46 CFR 115.700(d) & 177.300
NVIC 07-68 IV
ABS Rules 2-4-1/5.19 |
| .02 | Review repair proposal | 46 CFR 2.01-15(a)(2)
46 CFR 115.700(d)
NVIC 07-68 IV |
| .03 | Verify repair materials | 46 CFR 115.700(d)
NVIC 07-68 V |
| .04 | Verify welding procedures (when applicable) | 46 CFR 115.700(d) |
| .05 | Evaluate alternative repair methods for equivalency | 46 CFR 116.340
MSM II/A.5.A |
| .06 | Verify welder's proficiency | 46 CFR 115.700(d) |

KI-LS06 - Inspect lifefloat installations (when applicable)

- | | | |
|-----|--|--|
| .01 | Verify type approval | 46 CFR 117.200(a)(2) |
| .02 | Verify quantity | 46 CFR 117.200(c) Table |
| .03 | Verify stowage | 46 CFR 117.137 |
| .04 | Verify markings | 46 CFR 122.604(a)
46 CFR 160.010-8 |
| .05 | Inspect embarkation ladder (when applicable) | 46 CFR 117.150 |
| .06 | Verify required equipment | 46 CFR 117.175(d)
46 CFR 117.175(f) |
| .07 | Verify emergency instructions are posted | 46 CFR 122.512(a)(1)(ix) |

KI-LS07 - Inspect rescue boat (when applicable)

- | | | |
|-----|--|----------------------------------|
| .01 | Verify type approval | 46 CFR 117.210
46 CFR 160.056 |
| .02 | Verify stowage | 46 CFR 122.700 |
| .03 | Verify markings | 46 CFR 122.604(i) |
| .04 | Verify equipment | 46 CFR 160.056-3(b) |
| .05 | Verify condition | 46 CFR 122.700 |
| .06 | Inspect embarkation ladder (when applicable) | 46 CFR 117.150(b) |

KI-LS08 - Inspect launching appliance(s) (when applicable)

- | | | |
|-----|--|--|
| .01 | Inspect condition | 46 CFR 117.130(c)
46 CFR 117.150(c)
46 CFR 122.704 |
| .02 | Verify operating instructions are posted | 46 CFR 122.512(a)(1)(ix) |

KI-LS09 - Inspect buoyant apparatus (when applicable)

- | | | |
|-----|--|---|
| .01 | Verify type approval | 46 CFR 117.15(b)
46 CFR 117.200(a)(4)
46 CFR 160.010 |
| .02 | Verify quantity | 46 CFR 117.15(b)
46 CFR 117.200(a)(4)
46 CFR 117.200(c) Table |
| .03 | Verify stowage | 46 CFR 117.137 |
| .04 | Verify markings | 46 CFR 122.604(a) |
| .05 | Inspect embarkation ladder (when applicable) | 46 CFR 117.150 |
| .06 | Verify required equipment | 46 CFR 117.175(e)
46 CFR 117.175(f) |
| .07 | Verify emergency instructions are posted | 46 CFR 122.512(a)(1)(ix) |

Firefighting System Inspection (FF)

KI-FF01 - Inspect fire main and pump (when applicable)

.01	Verify capable of providing adequate pressure	46 CFR 118.300(b) & (c)
.02	Verify self priming arrangement	46 CFR 118.300(a)
.03	Verify fitted with gauge and relief valve	46 CFR 118.300 46 CFR 118.310
.04	Verify location of controls and markings	46 CFR 118.300
.05	Verify operation of fire pump from remote control(s)	46 CFR 118.300(e)
.06	Verify condition of system	46 CFR 118.300 46 CFR 118.310 46 CFR 119.710

KI-FF02 - Inspect fire stations

.01	Verify number of hydrants	46 CFR 118.310(a)
.02	Verify hoses meet required length, size, markings and quantity	46 CFR 118.310(a) 46 CFR 118.320(b) 46 CFR 118.320(c)
.03	Verify operation of valves at fire stations	46 CFR 118.310(a)

KI-FF03 - Inspect portable fire extinguishers

.01	Verify location and stowage	46 CFR 118.500 46 CFR 118.520
.02	Verify servicing compliance	46 CFR 115.810 NFPA 10 Chapters 4, 7 & 8
.03	Examine condition of cylinder(s) and hose(s)	NFPA 10 Chapter 7 46 CFR 115.810 46 CFR 147.65
.04	Verify presence of required type and quantity	46 CFR 118.500

KI-FF04 - Inspect semi-portable firefighting equipment (when applicable)

.01	Verify location and stowage	46 CFR 118.500 46 CFR 118.520
.02	Verify servicing compliance	46 CFR 115.810 NFPA 10 Chapters 4, 7 & 8
.03	Examine condition of cylinder(s) and hose(s)	NFPA 10 Chapter 7 46 CFR 115.810 46 CFR 147.65
.04	Verify type and quantity of extinguishers	46 CFR 118.500(c)

KI-FF05 - Inspect fire axe(s) (when applicable)

.01	Verify presence	46 CFR 118.600
.02	Verify location	46 CFR 118.600

Internal Structural Examination (IS)

KI-IS01 - Verify confined spaces are safe for entry

.01	Review Marine Chemist certificate	29 CFR 1915.12(f) CIM 5100.47A/6.G.9.c NFPA 306/4.3
.02	Verify competent person has maintained Marine Chemist Certificate	29 CFR 1915.15 CIM 5100.47A/6.G.9.c(3) NFPA 306/4.6.2
.03	Verify no changes to vessel's condition	29 CFR 1915.15(b)
.04	Verify forced ventilation is provided (when applicable)	29 CFR 1915.13(b)(3)
.05	Verify condition of space access point	29 CFR 1915.76

KI-IS02 - Inspect internal structures

.01	Examine internal structures	46 CFR 115.610(b) 46 CFR 115.802
.02	Examine coamings, closures and other fittings	46 CFR 115.802 MSM II/B.3.B
.03	Verify wastage discovered is within acceptable limits	NVIC 07-68 Section III(C)

Nondestructive Testing Inspection (NT)

KI-NT01 - Verify nondestructive testing (NDT) using the liquid (dye) penetrant method

.01	Verify individual's knowledge of, and ability to use, penetrant in accordance with the penetrant's instructions.	46 CFR 115.700(d) NVIC 07-68 9(V)(A) ABS 2-4-1/5.17 & NDT Guide 4/1
.02	Witness application	ABS NDT Guide 4/5.1
.03	Witness removal of excess penetrant after dwell time	ABS NDT Guide 4/5.1
.04	Witness application of developer	ABS NDT Guide 4/5.1
.05	Evaluate the test results or technician's report	ABS NDT Guide 4/5.1

KI-NT02 - Verify suspected surface for satisfactory condition by nondestructive testing (NDT) using the magnetic particle method

.01	Verify individual's knowledge of, ability to calibrate and use equipment in accordance with equipment's instructions	46 CFR 115.700(d) NVIC 07-68 9(V)(A) ABS 2-4-1/5.17
.02	Verify magnetic field strength	ABS NDT Guide 5/5.7.2
.03	Witness application of visible magnetic particles	ABS NDT Guide 5/5.3
.04	Witness technician examine/interpret readings	ABS NDT Guide 5/5
.05	Evaluate test results or review technician's report	ABS NDT Guide 5/5

KI-HI07 - Verify if vessel qualifies to participate in the USCG's underwater survey program (UWILD)

.01 Review application	46 CFR 115.630 NVIC 01-89 MSM II/B.3-22
.02 Inspect condition of hull and protection system	NVIC 01-89 Encl.1/1.a 46 CFR 115.615(a)(3)
.03 Verify reference points	NVIC 01-89 Encl.1/1.b
.04 Verify hinged gratings are installed on sea chest(s)	NVIC 01-89 Encl.1/1.c
.05 Verify means for taking shaft-bearing and rudder-bearing clearances	MSM II/B.3-29
.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 recommendation	MSM II/B.8.C.18.f

KI-HI08 - Inspect hull during an underwater survey

.01 Confirm vessel's approved application for underwater inspection in lieu of drydocking (UWILD) examination	46 CFR 115.615 NVIC 01-89 Encl.1/2.a
.02 Verify procedures to be followed in carrying out the underwater survey are adequate	46 CFR 115.615 46 CFR 197.202
.03 Verify suitability of location where the underwater survey will be accomplished	46 CFR 115.615 NVIC 01-89 Encl.1/5.c
.04 Review reference plans and video showing the external details of the hull	NVIC 01-89 Encl.1/2.a(12)
.05 Meet with the vessel's representative and diving supervisor to discuss the details of the survey	NVIC 01-89 Encl.1/4
.06 Verify that vessel's representative submitted a signed letter stating the overall condition of the vessel	NVIC 01-89 Encl.1/2.a(7)
.07 Verify qualification of divers, type of diving equipment and their nondestructive testing (NDT) and damage repair capabilities	46 CFR 197.202 NVIC 01-89 Encl.1/5.f
.08 Verify that all areas of the hull have been cleaned to allow for a meaningful examination	NVIC 01-89 Encl.1/5.g
.09 Witness underwater survey from a video monitor	46 CFR 197.202 NVIC 01-89 Encl.1/5.l

KI-FF06 - Inspect high pressure CO2 system(s) (when applicable)

.01 Ensure safety precautions are implemented prior to servicing system	MSM II/C.2.I.5
.02 Verify servicing compliance	46 CFR 115.810(b)(2)
.03 Verify odorizing unit (when applicable)	46 CFR 118.410(f)(8)
.04 Inspect stowage of cylinders	46 CFR 118.410(c)
.05 Inspect condition of system components	46 CFR 118.410
.06 Verify piping and nozzles are clear	46 CFR 115.810(b)(2)
.07 Witness operational test of time delays, alarms and shutdowns	46 CFR 115.810(b)(2)
.08 Verify markings and warning signs are posted	46 CFR 122.612
.09 Verify operating instructions are posted	46 CFR 122.612

KI-FF07 - Inspect pre-engineered fixed gas fire extinguishing systems (when applicable)

.01 Determine if approved	46 CFR 118.420(a)(1)
.02 Verify presence of manual actuation from outside of space	46 CFR 118.420(a)(2)
.03 Verify presence of automatic actuator (heat detector)	46 CFR 118.420(a)(2)
.04 Witness system automatically shuts down power ventilation (when applicable)	46 CFR 118.420(a)(3)
.05 Witness system automatically shuts down engines (when applicable)	46 CFR 118.420(a)(3)
.06 Verify system is installed per manufacturer's instructions	46 CFR 118.420(a)(4) Manufacturer's Instructions
.07 Witness operation of indicating light	46 CFR 118.420(b)(1)
.08 Witness audible alarm	46 CFR 118.420(b)(2)
.09 Witness means to reset automatically shut down systems	46 CFR 118.420(b)(3)
.10 Verify servicing compliance	46 CFR 115.810(b)(2)

KI-FF08 - Inspect fire and smoke detection systems (when applicable)

.01 Determine appropriate spaces are equipped	46 CFR 118.400(c),(e) & (f) 46 CFR 118.450 46 CFR 116.410(C)(3)
.02 Witness system test	46 CFR 115.810(a)(7)
.03 Verify operation of control unit's visual and audible alarms (when applicable)	46 CFR 118.400
.04 Verify zoning (when applicable)	46 CFR 118.400(c) 46 CFR 76.27-5
.05 Verify location and spacing of detectors	46 CFR 118.400(c) 46 CFR 76.27-10
.06 Verify independent module smoke detection system(s) (when applicable)	46 CFR 118.400(e) 46 CFR 118.450

KI-FF09 - Review approved Safety Plan (Fire-Control Plan)

.01 Verify location and approval	46 CFR 116.530
.02 Verify equipment installation to approved plan	46 CFR 116.530
.03 Verify plan contains all applicable information	46 CFR 116.530

KI-FF10 - Inspect areas for compliance with Structural Fire Protection (SFP) requirements

.01 Confirm installation in accordance with approved Fire Safety Plan	46 CFR 116.202(b)2 & 3 46 CFR 116.530 NVIC 09-97 Ch-1
.02 Verify boundaries are maintained	46 CFR 116.415 46 CFR 72.05-10
.03 Verify general arrangement & outfitting	46 CFR 116.405
.04 Verify Fire resistant furnishings	46 CFR 116.423 46 CFR 76.05-55
.05 Inspect ceilings, linings, trim, interior finish & decorations	46 CFR 116.422 46 CFR 76.05-15
.06 Inspect doors	46 CFR 116.435 46 CFR 76.05-25
.07 Inspect balconies & atriums	46 CFR 116.439 46 CFR 116.440

Machinery Equipment Inspection (MI)

KI-MI01 - Inspect steering gear

.01 Inspect electrical, mechanical, and hydraulic connections and linkages of main and auxiliary (emergency) systems	46 CFR 115.814 46 CFR 119.610 MSM II/C.4.B
.02 Verify operation of communications between bridge and emergency steering station(s)(when applicable)	46 CFR 121.602(b)
.03 Witness operational test of systems, in all modes of operation from emergency steering station(s)(when applicable)	46 CFR 119.610(b) 46 CFR 119.610(c) 46 CFR 119.620
.04 Verify accuracy of rudder angle indicator (when applicable)	46 CFR 119.610(f)(2)
.05 Verify steering control transfer procedures	46 CFR 119.610(g)(2)
.06 Witness operational test of auxiliary (emergency) steering arrangement (when applicable)	46 CFR 119.620(a) 46 CFR 119.620(b)

KI-MI02 - Inspect fuel oil service system

.01 Verify installation, arrangement and condition of piping, manifolds and filters	46 CFR 119.455
.02 Inspect portable fuel system (when applicable)	46 CFR 119.458 ABYC H-25
.03 Witness tests of remote shutdown(s)	46 CFR 119.455(b)(4)
.04 Inspect nonmetallic flexible hoses and fittings	46 CFR 119.720(e)

KI-HI02 - Inspect tailshaft(s), stern bearing(s) and propeller(s)

.01 Determine if tailshaft(s) needs to be drawn	46 CFR 115.670 MSM II/B.3.D.3
.02 Verify bearing clearance and inboard seal assembly	46 CFR 115.670 Manufacturer's Specifications
.03 Visually examine entire shaft (when applicable)	46 CFR 115.670
.04 Witness satisfactory non-destructive testing (NDT) of the shaft's taper section and keyway (when applicable)	46 CFR 115.670
.05 Witness satisfactory NDT of propeller coupling bolts and flange radius (when applicable)	46 CFR 115.670
.06 Verify condition and wear of strut bearing(s) (when applicable)	46 CFR 115.670 MSM II/B.3.D.10
.07 Inspect condition of propeller	46 CFR 115.610(a)

KI-HI03 - Inspect the rudder installation

.01 Verify type of assembly installed	46 CFR 115.814 MSM II/B.3.E.2
.02 Examine rudder assembly for deterioration and defects	46 CFR 115.610(a)
.03 Verify rudder bearing clearance(s) are within limits	Manufacturer's Specifications
.04 Verify condition of pintle(s), gudgeon(s), bushing(s), pintle nut(s) and locking device(s)	MSM II/B.3.E.2
.05 Verify condition of pintle by nondestructive test (NDT) (when applicable)	MSM II/B.3.E.2

KI-HI04 - Inspect hull appendages

.01 Examine condition and structural integrity of bilge keel (when applicable)	46 CFR 115.610(a)
.02 Examine condition of keel coolers (when applicable)	46 CFR 115.610(a) 46 CFR 119.422
.03 Examine condition of transducers and other similar appendages (when applicable)	46 CFR 115.610(a)

KI-HI05 - Inspect anchor chain(s)

.01 Examine length of chain for satisfactory condition	46 CFR 121.300
.02 Examine chain locker for satisfactory condition	46 CFR 121.300

KI-HI06 - Inspect sea valve(s)

.01 Verify quantity and type	46 CFR 115.610 46 CFR 171.119(b),(c) & (d)
.02 Verify that all sea valves are identified and are opened for examination	46 CFR 115.610 46 CFR 171.119(b),(c) & (d)
.03 Examine external and internal components	46 CFR 115.610 46 CFR 171.119(b),(c) & (d)

KI-ED02 - Evaluate Man Overboard Drill

.01 Verify ability to recover a helpless person	46 CFR 115.808(g) 46 CFR 122.520
.02 Verify crew's ability to organize	46 CFR 122.520
.03 Verify crew's familiarity with their duties	46 CFR 117.210 46 CFR 122.520
.04 Witness launching of rescue boat (when applicable)	46 CFR 122.520
.05 Evaluate crew's proficiency in handling and maneuvering the rescue boat in the water (when applicable)	46 CFR 117.210 46 CFR 122.520
.06 Evaluate crew's proficiency in handling and maneuvering the vessel in the water (when applicable)	46 CFR 117.210 46 CFR 122.520
.07 Verify operational readiness and condition of rescue platform (when applicable)	46 CFR 122.700

KI-ED03 - Evaluate abandon ship drill

.01 Witness drill	46 CFR 115.808(g) 46 CFR 122.520
.02 Verify means or summoning crew and passengers	46 CFR 122.520(b)(1) 46 CFR 122.520(b)(2)
.03 Verify crew's familiarity with assigned duties	46 CFR 122.520(a)
.04 Verify all lifejackets are correctly donned	46 CFR 122.520(b)(3)
.05 Witness means of launching survival craft (when applicable)	46 CFR 122.520(b)(4) 46 CFR 122.520(b)(5)

Hull Inspection (HI)**KI-HI01 - Inspect steel and aluminum hulls**

.01 Examine for wastage, defect(s) and damage	46 CFR 115.802 46 CFR 115.610
.02 Examine critical areas (stringer plate, sheer plate, etc.)	46 CFR 115.802(a)(1) NVIC 07-68 Section IV(B) NVIC 11-80
.03 Examine seachests and overboard discharges for wastage, defect(s) and damage	46 CFR 115.802(a)(2) NVIC 07-68 Section II(A)
.04 Verify condition of drydock (bottom) plugs (when applicable)	46 CFR 176.802(a)(7) NVIC 07-68 Section II(A) MSM II/B.3.B
.05 Verify wastage/corrosion is within limits	NVIC 07-68 Section III(C) ABS 7-A-4/27

KI-MI03 - Inspect main propulsion system(s)

.01 Inspect condition, installation and arrangements of system components	46 CFR 119.310 46 CFR 115.804 MSM II/B.1.F
.02 Inspect foundations for structural integrity	46 CFR 115.402(c)(1)
.03 Verify installation of protective covers or guards	46 CFR 116.960
.04 Inspect system's hull penetrations for structural integrity	46 CFR 119.420
.05 Witness operational test of main propulsion machinery	46 CFR 115.804(a)

KI-MI04 - Inspect unfired pressure vessels (UPVs) (when applicable)

.01 Verify data plate(s) are legible	46 CFR 54.10-20
.02 Determine if UPV is exempt from inspection	46 CFR 119.330 46 CFR 54.01-15
.03 Verify external exam, internal exam and/or hydrostatic test needs	46 CFR 115.812 46 CFR 61.10-5(b) 46 CFR 61.10-5(d) & (e)
.04 Inspect externally	46 CFR 61.10-5(b)(1)
.05 Inspect internally (when accessible)	46 CFR 61.10-5(b)(2) 46 CFR 54.01-35 MSM II/B.1.O.4.a
.06 Witness hydrostatic test (when applicable)	46 CFR 61.10-5(d) 46 CFR 61.10-5(e)(4) MSM II/B.1.O.4.b
.07 Verify installation and operation of pressure gauges	46 CFR 54.15-5(f)
.08 Verify installation and operation of pressure-relieving devices	46 CFR 54.15-5 46 CFR 61.10-5(i) 46 CFR 54.15-10(a) & (g)

KI-MI05 - Examine potable water system (when applicable)

.01 Verify tank vents are fitted with insect screens	21 CFR 1250.82(c) MSM II/A.C.2.a
.02 Verify operation of water pump(s) and pressurization system	21 CFR 1250.84(a) 46 CFR 54.01-15(a)
.03 Verify pressurization system is fitted with safety relief valve(s)	46 CFR 54.01-15(a)
.04 Verify installation and arrangement of piping and valves	21 CFR 1250.82

KI-MI06 - Inspect bilge system

.01 Verify location and operation of pump(s)	46 CFR 115.804(h) 46 CFR 119.520
.02 Inspect manifolds, valves and piping (when applicable)	46 CFR 119.510
.03 Verify bilge system pumping capabilities	46 CFR 119.520(a)
.04 Verify bilge suction(s) are fitted with strainer(s)	46 CFR 119.510(b)
.05 Verify pollution placard is posted (when applicable)	33 CFR 155.450

KI-MI07 - Inspect (wet & dry) exhaust system(s)

- .01 Inspect condition 46 CFR 115.804(c)
46 CFR 119.430
- .02 Inspect insulation (when applicable) 46 CFR 116.405(b)
46 CFR 116.970
46 CFR 119.430(a)
46 CFR 119.425
46 CFR 119.430
- .03 Inspect installation

KI-MI08 - Inspect auxiliary boiler(s) (when applicable)

- .01 Verify maximum allowable working pressure (MAWP) 46 CFR 54.10-20
- .02 Inspect internal (when applicable) 46 CFR 115.812(b)
46 CFR 61.05-10 Table
46 CFR 61.05-15(a)-(d)
46 CFR 61.05-10 Table
46 CFR 61.05-15(e)
- .03 Inspect mounts
- .04 Inspect columns, gauge glasses and gauge cocks
- .05 Inspect steam gauge 46 CFR 61.05-15(f)
46 CFR 61.05-10 Table
- .06 Inspect safety valves 46 CFR 115.704
46 CFR 61.05-10 Table & .05-20
46 CFR 54.15-10

Electrical Systems Inspection (ES)**KI-ES01 - Inspect switchboard(s)**

- .01 Verify location, condition and installation 46 CFR 120.330(a) - (e)
46 CFR 120.330(i)
- .02 Verify non-conductive handrail and matting or grating on deck 46 CFR 120.330(f)
- .03 Verify sized correctly 46 CFR 120.330(j)
46 CFR 111.30-19(a)

KI-ES02 - Inspect main service generator(s) and prime mover(s)

- .01 Verify power source(s) requirements 46 CFR 120.310
- .02 Examine condition of generator(s) and prime mover(s)' components 46 CFR 120.320
- .03 Verify installation of protective covers or guards 46 CFR 116.960
- .04 Verify generator(s) nameplates are attached 46 CFR 120.320(d)
- .05 Verify required gauges (when applicable) 46 CFR 120.320(c)

KI-ES03 - Inspect lighting systems

- .01 Verify light fixtures 46 CFR 120.410
UL 1570
- .02 Verify presence of portable lights 46 CFR 120.430
- .03 Verify emergency lighting 46 CFR 120.432
- .04 Verify overcurrent protection 46 CFR 120.380
UL 489
- .05 Verify navigation lights 46 CFR 120.420
UL 1104

KI-TE03 - Inspect port lights, dead covers and natural vent openings

- .01 Verify covers are readily available and operational 46 CFR 119.465(h)
- .02 Inspect closing devices for proper fit and seal 46 CFR 119.465(h)
- .03 Inspect port lights and dead covers for proper fit and seal 46 CFR 171.116
46 CFR 171.117

KI-TE04 - Inspect fuel tank venting

- .01 Verify condition and location 46 CFR 119.450(d)
46 CFR 119.450(f)
ABYC H-33 & H-24
46 CFR 119.450(e)
- .02 Verify installation and condition of flame screen(s)
- .03 Verify installation of vent piping 46 CFR 119.450(h)
- .04 Verify vent size 46 CFR 119.450(b)
46 CFR 119.450(c)
- .05 Verify condition of flexible vent pipe sections 46 CFR 119.450(g)

KI-TE05 - Inspect rails and guards

- .01 Verify rail heights and courses 46 CFR 116.900
- .02 Verify storm rails 46 CFR 116.920
- .03 Verify guards for vehicles (when applicable) 46 CFR 116.940

Emergency Drills (ED)**KI-ED01 - Evaluate Fire Drill**

- .01 Witness fire drill 46 CFR 122.524
46 CFR 176.810(d)
MSM II/B.2.D.3
- .02 Verify crew's ability to organize 46 CFR 122.524(b)(2)
- .03 Verify crew's familiarity with their duties 46 CFR 122.524(b)(2)
- .04 Verify crew's familiarity with use of equipment 46 CFR 122.524(b)(3)
- .05 Verify method of summoning passengers to muster or embarkation stations 46 CFR 122.524(b)(2)
- .06 Verify effective communication with master 46 CFR 122.524(b)(2)

Pollution Prevention Inspection (PP)

KI-PP01 - Inspect sewage system

.01	Verify presence of manufacturer's instructions	33 CFR 159.57
.02	Verify operation	33 CFR 159.57 46 CFR 121.704
.03	Verify capacity	33 CFR 159.57(b)(8)
.04	Verify piping and wiring	33 CFR 159.97
.05	Verify Marine Sanitation Device (MSD) approval	33 CFR 159.7 MSM II/B.6.F.4
.06	Verify instructions and warning placard posted	33 CFR 159.59
.07	Verify overboard discharge valve is closed and secure (when applicable)	33 CFR 159.7(b) 33 CFR 159.7(c)

KI-PP02 - Conduct garbage handling (MARPOL Annex V) survey (when applicable)

.01	Review plan compliance	46 CFR 121.702 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)

KI-PP03 - Conduct Vessel General Permit (VGP) compliance verification (when applicable)

.01	Verify Notice of Intent (NOI) (when applicable)	CG-543 Policy Ltr 11-01 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	VGP 2.2.3.2 VGP 4.3
.04	Verify log entries	VGP 4.1.1.1 VGP 4.2

Topside Equipment Inspection (TE)

KI-TE01 - Examine freeing ports and scuppers (when applicable)

.01	Verify no modifications	46 CFR 115.700
.02	Verify unobstructed	46 CFR 171.135

KI-TE02 - Examine ground tackle, mooring lines and related equipment

.01	Determine size of anchor(s) required	46 CFR 121.300
.02	Verify operation of capstan (when applicable)	46 CFR 121.300
.03	Examine condition of anchoring equipment	46 CFR 121.300
.04	Verify ability to safely anchor	46 CFR 121.300
.05	Verify condition of bits, cleats, fairleads and winches	46 CFR 121.300
.06	Verify mooring lines/wires sizes and condition	46 CFR 121.300

KI-ES04 - Inspect battery installation

.01	Determine battery category	46 CFR 120.352
.02	Verify ventilation	46 CFR 120.354 46 CFR 111.15-10
.03	Verify properly installed and secured	46 CFR 120.350(b) 46 CFR 120.354
.04	Verify space for maintenance and removal	46 CFR 120.350(c)
.05	Verify ammeter connected in the charging circuit (when applicable)	46 CFR 120.350(f)
.06	Verify proper ventilation of charger (when applicable)	46 CFR 120.350(a)
.07	Verify connections	46 CFR 120.350(d)

KI-ES05 - Inspect electrical cable and fixtures

.01	Verify supports for vertical and horizontal installations	46 CFR 120.340(b)(4)
.02	Verify radius of bends	46 CFR 120.340(b)(5)
.03	Verify no hazardous conditions exist	46 CFR 120.200-220 46 CFR 120.530 46 CFR 111.105
.04	Verify condition of outlets	46 CFR 120.220(c)
.05	Verify connection types	46 CFR 120.340(g)
.06	Inspect cable size and condition	46 CFR 120.340(d)

KI-ES06 - Inspect distribution panel(s)

.01	Verify location	46 CFR 120.330(a) 46 CFR 120.330(e)
.02	Verify installation and drip shield	46 CFR 120.330(a) 46 CFR 120.330(c)
.03	Verify blanks are installed	46 CFR 120.330(i)
.04	Verify sized correctly	46 CFR 120.330(j) 46 CFR 111.30-19
.05	Verify circuit directory	46 CFR 120.220(d)

KI-ES07 - Inspect components installed in designated hazardous areas (when applicable)

.01	Verify hazardous area(s)	46 CFR 120.530(a) 46 CFR 120.530(b)
.02	Verify electrical equipment for hazardous area(s)	46 CFR 120.530(b) 46 CFR 120.530(c)
.03	Verify integrity of equipment	46 CFR 120.530(c) 46 CFR 111.105

Stability (ST)

KI-ST01 - Witness deadweight survey with or without inclining experiment

.01 Determine applicability	46 CFR 170.001 46 CFR 170.070 46 CFR 170.075
.02 Verify intended service (Exposed, Parially Protected, Protected)	46 CFR 114.400
.03 Review approved stability test procedure and MSC approval letter	46 CFR 170.185
.04 Discuss acceptable deviations from requirements of procedure (contact MSC)	46 CFR 170.190
.05 Assess General Condition of the vessel (configuration refelcts as-built plans, tankage, mooring arrangement, environment, specific gravity with hydrometer)	ASTM F1321 6.1
.06 Verify test weights are certified and current (inclining only)	ASTM F1321 6.5.2.1
.07 Witness survey of items to be added, removed and/or relocated	ASTM F1321 6.5 Test Procedures
.08 Witness pendulum reading	ASTM F1321 8.1.3.6
.09 Witness freeboard measurements and resulting calculation/linear plot	ASTM F1321 8.1.2
.10 Witness weight movement and resulting weight moment plot, verify appropriate scale and straight line (inclining only)	ASTM F1321 8.1.3

KI-ST02 - Verify drainage requirements

.01 Determine vessel type	46 CFR 116.1110 46 CFR 116.1120
.02 Verify requirements for cockpit deck vessels (when applicable)	46 CFR 116.1120 46 CFR 178.420 46 CFR 178.450
.03 Verify requirements for well deck vessels (when applicable)	46 CFR 116.1120 46 CFR 178.430 46 CFR 178.450
.04 Verify requirements for open boats (when applicable)	46 CFR 116.1120 46 CFR 178.440
.05 Verify requirements for flush deck vessels (when applicable)	46 CFR 116.1120 46 CFR 178.410

KI-ST03 - Verify subdivision (when applicable)

.01 Determine applicability	46 CFR 171.060(b)
.02 Verify location and watertight integrity of collision bulkhead	46 CFR 171.085(h) 46 CFR 171.085(J)
.03 Verify location and watertight integrity of watertight bulkheads	46 CFR 116.1160 46 CFR 171.070
.04 Verify subdivision in accordance with approved plans	46 CFR 171.070

Structural/Watertight Integrity Inspection (SW)

KI-SW01 - Inspect hatches and Class-1 watertight doors (when applicable)

.01 Verify condition of knife edges	46 CFR 174.210
.02 Verify condition of gasket material	MSM II/B.1.E.5
.03 Verify watertight integrity between gasket and knife edge	46 CFR 174.210 46 CFR 170.270 MSM II/B.1.E.5
.04 Verify condition and operation of hinges and dogging devices	46 CFR 170.270
.05 Verify operation of Class-1 door's quick-acting closing device	46 CFR 174.210
.06 Verify operation of indicator lights at the control station	46 CFR 174.210
.07 Verify markings	46 CFR 122.610

KI-SW02 - Inspect Class 2 & 3 watertight doors (when applicable)

.01 Verify operation of local controls	46 CFR 170.270(c)(2) ASTM F1197/7.1
.02 Verify operation of remote controls	ASTM F1197/7.1
.03 Verify condition of replaceable interface between door and frame assembly	46 CFR 170.270(c)(1) ASTM F1196/6.3
.04 Verify operation of alarms	ASTM F1197/11.5
.05 Verify closing times are in compliance	ASTM F1197/11.2 ASTM F1197/11.4
.06 Verify markings	46 CFR 122.610 ASTM F1196/11.1 ASTM F1196/S4
.07 Verify watertight integrity	ASTM F1196/S1
.08 Verify operation of doors under reserve power	46 CFR 170.270(c)(3) ASTM F1197/S3

KI-SW03 - Inspect watertight bulkhead penetrations

.01 Verify locations	46 CFR 171.114
.02 Verify watertight	46 CFR 171.114 MSM II/B.1.B.5

KI-SW04 - Inspect hull structure

.01 Inspect for damage, wastage and fractures	46 CFR 116.300 MSM II/B.1.B.1
.02 Verify no unauthorized repairs	46 CFR 115.700 46 CFR 2.15(a)(2)