United States Coast Guard

FOREIGN PASSENGER VESSEL
Annual Certificate of Compliance Exam
Process Guide

Name of Vessel	**Keel Laid Date**	
Hailing Port	**Length**	**Draft**
Propulsion Type **Diesel Electric □**	**Dual Fuel □**	**Other □**
Ballast Water Management System □ **Approval No.**	**Alternative Management System □**	
Maximum Passengers	**Maximum Persons**	
Port State Control Officers & Examiners		
Team 1 **Certified:** **Trainee(s):**	**Team 2** **Certified:** **Trainee(s):**	
Team 3 **Certified:** **Trainee(s):**	**Team 4** **Certified:** **Trainee(s):**	

Use of the Annual COC Exam Process Guide

This book is intended to be used by Coast Guard Port State Control (PSC) officers and examiners during Annual Certificate of Compliance (COC) examinations on foreign flagged passenger vessels. It contains the items that should be examined during an Annual COC exam as outlined in 5PTI-WI-CSNCOE-006 series, Guide for Conducting Annual Certificate of Compliance Examinations. The PSCO(s) may expand the scope of any exam when there are clear grounds for believing that the condition of the vessel or its equipment does not correspond substantially with the particulars of the certificates. Additionally, PSCO(s) should examine the vessel for any modifications affecting the vessel's structural fire protection and means of escape completed without approval by the Flag Administration or review by the USCG Marine Safety Center.

This job aid and corresponding Work Instruction specify requirements for the most recent editions of the relevant conventions, which may not apply due to the keel laid date of the vessel. The PSC team must pay close attention to the applicability dates when entering deficiency cites in the Scorecard. Observations that cannot be linked to specific statutory requirements should be further investigated in relation to the vessel's Safety Management System for potential noncompliance.

Duty to Record Deficiencies

All deficiencies identified by the PSC Team during the COC exam should be entered into the Scorecard for recording on the CG-5437B (Form B) and in the activity inspection results. This includes deficiencies rectified prior to the PSC Team's departure (i.e., Code 10c). Deficiencies that are considered prior to departure (i.e., Code 17) should be entered in the Scorecard with that code and may be cleared with ink changes after printing. The code may not be changed.

Exam Prep Key

Team	Exam Location & Items to be Prepared	Drills Location
1	*Navigation Bridge* o Certificates & manuals available o Environmental procedures & records available o Security records available o Safety equipment available o Liferaft ready for deployment	*Fire:* Bridge/Safety Center o Decision support system o Communications *Passenger Evacuation:* Bridge/Safety Center o GA/PA o Safety briefing *Abandon Ship:* Inboard forward embarkation deck
2	*Upper Accommodation Decks (i.e., passenger cabins, spas, salons, fitness centers, youth clubs, VIP lounges, restaurants, galleys)* o Means of escape plans available Master key available o Fire detection & alarm systems test equipment ready o Fire hoses ready for flow test o Fire suppression system section valve test equipment ready o Space prepared for breaking of watermist nozzle	*Fire:* Staging area o Fire teams o Response teams o Communications *Passenger Evacuation:* Stairways & corridors o Crowd management o Search of accommodation & public spaces *Abandon Ship:* Inboard aft embarkation deck
3	*Lower Accommodation and Service Decks (i.e., I-95, bunker station, garbage room, medical center, workshops, laundries, crew cabins, mooring decks)* o Means of escape plans available Master key available o Fire detection & alarm systems test equipment ready o Fire suppression system section valve test equipment ready o Space prepared for breaking of watermist nozzle	*Fire:* On-scene o Fire team(s) o Fireman's outfits *Passenger Evacuation:* Stairways & corridors o Crowd management o Search of accommodation & public spaces *Abandon Ship:* Outboard forward embarkation deck
4	*Engineering Spaces (i.e., ECR, steering gear rooms, emergency generator space, control stations)* o Means to test engineering systems from ECR ready o Emergency generator ready to test o Space prepared for fixed local application fire fighting system test o Oily water separator(s) ready to test	*Fire:* Engine control room o Fire fighting system controls o Watertight door controls o Ventilation controls *Passenger Evacuation:* Muster stations o Instructions posted o Crowd management *Abandon Ship:* Outboard aft embarkation deck

Opening Meeting

Introductions			
Coast Guard Team		Ship's Leadership Team	
Timelines			
Expected completion of debarkation	Desired drill time	Completion of bunkering/dive ops	Scheduled departure time
Any other inspections, surveys, or servicing			
CBP, USPH	Flag/RO	Equipment servicing	
Exam preparation questions			
Have any of the conditions of the ship or crew changed since your email report?			
Are there any areas of the ship our teams should avoid due to quarantine, maintenance, or repairs?			
Are there any work projects or maintenance we should know about before we begin our exam?			
Does your crew have all equipment ready to test systems as outlined in the email?			
Will the ship be able to lower all outboard lifeboats and rescue boats?			
Can you energize the emergency lighting circuit and low-location lighting for the duration of the exam?			
Number of decks		Number of main vertical zones	
Is there a designated area for our team to consult and report during the exam?			
Do you have any questions regarding the scope of today's COC exam?			

DRILLS

1. **Fire Drill**
   - Verify the ship's drill meets SOLAS functional requirements.
   - Verify the master and crew follow the recommended actions for the fire emergency.
   - Staging area communications and teams report for duties
   - Fireman's outfits contain protective clothing, boots, helmet, flashlight, axe, and SCBA
   - Systems monitoring/controls in ECR

2. **Passenger Evacuation**
   - Summoning of crew & passengers using GA or PA
   - Safety briefing
   - Proficiency of crew assigned to passenger evacuation duties
     - Ability to give clear reassuring orders
     - Ability to manage passengers in corridors, staircases, and passageways
     - Understanding the importance of and having the ability to maintain escape routes clear of obstructions
     - Knowledge of methods available for the evacuation of disabled persons and persons needing special assistance (i.e., passengers with medical needs or children)
     - Knowledge of methods of searching passenger accommodation and public spaces
   - Muster station suitable for marshalling & instructing passengers, and has required markings and instructions posted
   - Proficiency of crew assigned to muster stations
     - Importance of keeping order
     - Ability to use procedures for reducing and avoiding panic
     - Ability to use passenger lists or devices for evacuation counts
     - Importance of passengers being suitably clothed when mustering
     - Ability to check that passengers have donned their life jackets properly

3. **Abandon Ship Drill**
   - Verify the ship's drill meets SOLAS functional requirements
   - Proficiency of crew assigned to embarkation station duties
   - Emergency lighting, embarkation ladder(s), descent devices
   - Survival craft stowage and launching/recovery arrangements
   - Survival craft fittings and equipment, including test of propulsion & steering
   - Survival craft markings (i.e., retro-reflective material, capacity, boat identification)
   - Proficiency of crew assigned to liferaft launching/embarkation, including liferaft inflation
   - Proficiency of crew assigned to lifeboat & rescue boat launching/embarkation
   - Proficiency of person in charge of survival craft
     - Take charge of survival craft during & after launch
     - Operate survival craft engine
     - Manage survivors
     - Use locating devices
     - Apply first aid
   - Launching of outboard lifeboats & rescue boat, including recovery of rescue boat

TEAM ONE

1. **Hull Walk**
   - ☐ Draft marks
   - ☐ IMO number
   - ☐ Load line

2. **Ship Certificates**
   - ☐ Certificates for MISLE Data Entry

Certificate Type	*Issuing Agency*	*Issued By Port*	*Issued Date*	*Expired Date*	*Expired Date*
Passenger Ship Safety Certificate (PSSC)					
International Load Line Certificate (ILLC)					
Safety Management Certificate (SMC)					
International Oil Pollution Prevention Certificate (IOPP)					
International Air Pollution Prevention Certificate (IAPP)					
International Ship Security Certificate (ISSC)					
Continuous Synopsis Record (CSR)					

- ☐ Certificate of Registry
- ☐ Classification Document
- ☐ International Tonnage Certificate
- ☐ ISM Document of Compliance (copy)
- ☐ Lifeboat/Tender Safety Certificate, as appropriate
- ☐ Polar Code Certificate
- ☐ Minimum Safe Manning Document
- ☐ Engine IAPP (EIAPP) & Supplements, for each engine
- ☐ International Energy Efficiency Certificate
- ☐ International Anti-Fouling System Certificate

3. **Crew Training and Certification**
   - ☐ Meets Minimum Safe Manning Document
   - ☐ Crowd Management Training
   - ☐ Crisis Management & Human Behavior Training
   - ☐ Fast Rescue Boat Training, if equipped
   - ☐ Ship Security Officer

4. Logs, Records, and Manuals

- SOLAS exemptions, equivalents, or alternative arrangements
- Declaration of Security
- Declaration of Inspection
- Damage control & stability plans
- Training & drill logs (damage control, security, abandon ship, fire, emergency steering)
- MES training (participation every 2 years)
- Maintenance/servicing records (liferaft/MES, lifesaving equipment, firefighting systems, firefighting equipment)
- SAR coordination plan
- Ship's log
- Garbage Management plan
- Shipboard Oil Pollution Emergency Plan
- Oil Record Book
- Non-Tank Vessel Response Plan
- Ballast Water Management Plan
- Shipboard Energy Efficiency Management Plan
- Sewage and Graywater Discharge Record Book (for Alaskan waters)
- CVSSA records (log of complaints of crimes, crime scene preservation training)

5. Bridge Safety Arrangements

- Monitoring/control panels (Watertight doors, steering, fire detection & alarm, fire doors, ventilation, fixed firefighting)
- Line throwing appliances
- Distress signals
- Safe Return to Port arrangements (ships constructed after 1 July 2010 and ≥ 120 m)

6. Bridge Communications Arrangements

- Distress alert panel
- Global Maritime Distress and Safety System (GMDSS)
- VHF with Digital Selective Calling
- SARTs
- NAVTEX receiver
- EPIRB
- Two-way SAR radio for aeronautical frequencies
- Reserve battery power arrangements

7. Bridge Navigation Arrangements

- Magnetic compass, deviation table
- ECDIS or nautical charts, and publications
- 2 radars (9GHz/3GHz)
- ARPA
- Daylight signaling lamp
- Means of taking bearings
- Gyrocompass
- Illuminated gyrocompass repeater
- Illuminated rudder angle indicator
- Bridge Navigational Watch Alarm System
- Electronic echo depth sounder
- Pitch indicator for thrusters
- Rate of turn indicator
- Electronic position fixing device
- LRIT
- AIS
- Voyage Data Recorder
- Maneuvering fact sheet
- Steering instructions
- Observe steering test

TEAM TWO

1. **Hull Walk**
   - Emergency lighting
   - Side shell openings below MES

2. **Accommodations Walkthrough**
   - Non-combustible waste receptacles
   - Stairways & corridors clear of furniture and obstacles
   - Non-combustible furnishings on cabin balconies, or suppression & detection installed
   - CVSSA requirements (i.e., rails 42”, peep holes, cabin door security, security guide)

3. **Fire Detection and Alarm System**
   - Detectors away from structures & ventilation ducts
   - Smoke detectors installed in service, control, & accommodation spaces, and corridors, stairways, & escape routes
   - Audible detectors in cabins
   - Manually operated call points installed at each space exit, and 20 m spacing in corridors
   - Heat and/or Flame detectors
   - Visual & audible alarm signals to bridge or safety center

4. **Fire Boundaries**
   - Bulkhead & deck penetrations
   - Space categorization (i.e., no combustibles in cat. 10, no flammables in cat. 7 or 13)
   - Sauna (80ºC-120ºC): air gaps, outward opening door, timer, dry pipe suppression
   - Partial bulkheads on cabin balconies able to be opened by crew
   - Fire doors
   - Self-closing fire doors in MVZ bulkheads, galley boundaries, stairway enclosures

5. **Ventilation Systems**
   - Inspection hatches for dampers behind ceilings or linings
   - Damper controls outside the spaces being ventilated
   - Galley ventilation: grease trap, fixed firefighting, controls outside galley entrance (i.e., ventilation shutdowns, fire damper controls, fire-extinguishing system controls)
   - Laundry ventilation: removable filters, remote damper controls & ventilation shutdowns

6. **Fire Fighting Systems**
   - Fire hydrants
   - Fire pump test with 2 hoses using smallest capacity pump
   - Portable fire extinguishers
   - CO_2 control and storage locations
   - Watermist and/or sprinkler system nozzles
   - Section valve arrangements (i.e., list/plan of section coverage, section stand-by pressure, means to prevent unauthorized operation)
   - Test of automatic pressure supply at section valves
   - Test of wet pipe watermist nozzle

7. General Emergency Alarm & Public Address Alarm

- ☐ GA audible throughout all accommodation, normal crew working spaces, open decks
- ☐ PA audible above ambient noise in all spaces where crew & passengers are present

8. Means of Escape

- ☐ Escape routes clear of obstacles (≥ 900 mm)
- ☐ Two means of escape from each MVZ, similarly restricted space, or group of spaces
- ☐ Stairways have direct access from corridors, and have handrails on each side
- ☐ Escape route doors open in direction of escape
- ☐ Escape doors from public spaces that are normally closed (i.e., quick release)
- ☐ Emergency lighting
- ☐ Low location lighting
- ☐

9. Personal Lifesaving Devices

- ☐ Lifebouys
- ☐ Lifejackets
- ☐ Equipment stowage markings

Spaces		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Control Stations	(1)	B-0a	A-0	A-0	A-0	A-0	A-60	A-60	A-60	A-0	A-0	A-60	A-60	A-60	A-60
Stairways	(2)		A-0a	A-0	A-0	A-0	A-0	A-15	A-15	A-0c	A-0	A-15	A-30	A-15	A-30
Corridors	(3)			B-15	A-60	A-0	B-15	B-15	B-15	B-15	A-0	A-15	A-30	A-0	A-30
Evacuation stations and external escape routes	(4)					A-0	A-60b,d	A-60b,d	A-60b,d	A-0d	A-0	A-60b	A-60b	A-60b	A-60b
Open deck spaces	(5)						A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0
Accommodation spaces of minor fire risk	(6)						B-0	B-0	B-0	C	A-0	A-0	A-30	A-0	A-30
Accommodation spaces of moderate fire risk	(7)							B-0	B-0	C	A-0	A-15	A-60	A-15	A-60
Accommodation spaces of greater fire risk	(8)								B-0	C	A-0	A-30	A-60	A-15	A-60
Sanitary and similar spaces	(9)									C	A-0a	A-0	A-0	A-0	A-0
Tanks, voids and auxiliary machinery spaces having little or no fire risk	(10)											A-0	A-0	A-0	A-0
Auxiliary machinery spaces, cargo spaces, cargo and other oil tanks and other similar spaces of moderate fire risk	(11)											A-0a	A-0	A-0	A-15
Machinery spaces and main galleys	(12)												A-0a	A-0	A-60
Store-rooms, workshops, pantries, etc.	(13)													A-0a	A-0
Other spaces in which flammable liquids are stowed	(14)														A-30

Table 9.1 – Bulkheads not bounding either main vertical zones or horizontal zones

TEAM THREE

1. **Hull Walk**
   - Security access control
   - Security monitoring & communications

2. **Accommodations Walkthrough**
   - Non-combustible waste receptacles
   - Stairways & corridors clear of furniture and obstacles
   - CVSSA requirements (i.e., sexual assault procedures, medical staff training, cabin door security arrangements)

3. **Bunker Stations**
   - Transfer procedures
   - Oil discharge containments
   - Standard discharge connection
   - Transfer hoses

- ☐ Electrical equipment appropriately certified

4. Garbage Handling Rooms

- ☐ MARPOL V placard
- ☐ Collection, storage, processing, disposal procedures
- ☐ Sorting & recycling procedures
- ☐ Hazardous garbage
- ☐ Incinerator

5. Fire Detection and Alarm System

- ☐ Detectors away from structures & ventilation ducts
- ☐ Smoke detectors installed in service, control, & accommodation spaces, and corridors, stairways, & escape routes
- ☐ Audible detectors in cabins
- ☐ Manually operated call points installed at each space exit, and 20 m spacing in corridors
- ☐ Heat and/or Flame detectors
- ☐ Visual & audible alarm signals to bridge or safety center

6. Fire Boundaries

- ☐ Bulkhead & deck penetrations
- ☐ Space categorization (i.e., no combustibles in cat. 10, no flammables in cat. 7 or 13)
- ☐ Fire doors
- ☐ Self-closing fire doors in MVZ bulkheads, galley boundaries, stairway enclosures

7. Ventilation Systems

- ☐ Inspection hatches for dampers behind ceilings or linings
- ☐ Damper controls outside the spaces being ventilated
- ☐ Galley ventilation: grease trap, fixed fire fighting, controls outside galley entrance (i.e., ventilation shutdowns, fire damper controls, fire-extinguishing system controls)
- ☐ Laundry ventilation: removable filters, remote damper controls & ventilation shutdowns

8. Fire Fighting Systems

- ☐ Fire hydrants
- ☐ Drencher system on mooring decks
- ☐ Portable fire extinguishers
- ☐ CO_2 control and storage locations
- ☐ Watermist and/or sprinkler system nozzles
- ☐ Section valve arrangements (i.e., list/plan of section coverage, section stand-by pressure, means to prevent unauthorized operation)
- ☐ Test of automatic pressure supply at section valves
- ☐ Test of wet pipe watermist nozzle

9. General Emergency Alarm & Public Address Alarm

- ☐ GA audible throughout all accommodation, normal crew working spaces, open decks
- ☐ PA audible above ambient noise in all spaces where crew & passengers are present

10. Means of Escape

- Escape routes clear of obstacles (≥ 900 mm above bulkhead deck, ≥800 mm below)
- Two means of escape from each MVZ, similarly restricted space, or group of spaces
- Stairways have direct access from corridors, and have handrails on each side
- Escape route doors open in direction of escape
- Escape doors from public spaces that are normally closed (i.e., quick release)
- Emergency lighting, low location lighting
- Marking of escape routes

Spaces below ↓ Spaces above →		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Control Stations	(1)	A-30	A-30	A-15	A-0	A-0	A-0	A-15	A-30	A-0	A-0	A-0	A-60	A-0	A-60
Stairways	(2)	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-30	A-0	A-30
Corridors	(3)	A-15	A-0	A-0a	A-60	A-0	A-0	A-15	A-15	A-0	A-0	A-0	A-30	A-0	A-30
Evacuation stations and external escape routes	(4)	A-0	A-0	A-0	A-0		A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0
Open deck spaces	(5)	A-0	A-0	A-0	A-0		A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0
Accommodation spaces of minor fire risk	(6)	A-60	A-15	A-0	A-60	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0
Accommodation spaces of moderate fire risk	(7)	A-60	A-15	A-15	A-60	A-0	A-0	A-15	A-15	A-0	A-0	A-0	A-0	A-0	A-0
Accommodation spaces of greater fire risk	(8)	A-60	A-15	A-15	A-60	A-0	A-15	A-15	A-30	A-0	A-0	A-0	A-0	A-0	A-0
Sanitary and similar spaces	(9)	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0
Tanks, voids and auxiliary machinery spaces having little or no fire risk	(10)	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0	A-0a	A-0	A-0	A-0	A-0
Auxiliary machinery spaces, cargo spaces, cargo and other oil tanks and other similar spaces of moderate fire risk	(11)	A-60	A-60	A-60	A-60	A-0	A-0	A-15	A-30	A-0	A-0	A-0a	A-0	A-0	A-30
Machinery spaces and main galleys	(12)	A-60	A-60	A-60	A-60	A-0	A-60	A-60	A-60	A-0	A-0	A-30	A-30a	A-0	A-60
Store-rooms, workshops, pantries, etc.	(13)	A-60	A-30	A-15	A-60	A-0	A-15	A-30	A-30	A-0	A-0	A-0	A-0	A-0	A-0
Other spaces in which flammable liquids are stowed	(14)	A-60	A-60	A-60	A-60	A-0	A-30	A-60	A-60	A-0	A-0	A-0	A-0	A-0	A-0

Table 9.2 – Decks no forming steps in main vertical zones nor bounding horizontal zones

TEAM FOUR

1. **Hull Walk**
   - Condition of hull plating and overboard discharge fittings

2. **Engine Control Room**
   - Control & monitoring panels
   - Two means of communication with navigation bridge
   - Engine order telegraph

3. **Engineering Spaces Walkthrough**
   - Self-closing fire doors
   - Two means of escape from each space
   - Emergency lighting, low location lighting
   - Marking of escape routes
   - Escape trunks
   - EEBDs

4. **Stability and Watertight Integrity**
   - Cross flooding devices
   - Watertight bulkhead penetrations
   - Watertight doors
   - Flooding detection system
   - Bilge high level alarms

5. **Steering Gear**
   - Means of communication with bridge
   - Rudder angle indicator
   - Handrails and gratings/nonslip deck if system uses hydraulic fluid
   - Steering test
   - Alarms (i.e., power failure, hydraulic low-level)

6. **Emergency Power**
   - Auto-start test
   - Second means of starting
   - Emergency generator space fire boundaries
   - Switchboard
   - Transitional power batteries

7. **Fire Safety Arrangements for Fuel Oils**
   - Quick-closing valves
   - Remote shutdowns for transfer pumps, lube oil pumps, & oil purifiers

8. **Ventilation Systems**
   - Remote shutdowns of power ventilation fans
   - Remote damper controls
   - Damper position markings

9. Fire Fighting Systems

- ☐ Fire main test to verify automatic start of fire pump upon pressure loss
- ☐ 2 portable foam extinguishers in each machinery space (10 m spacing)
- ☐ Portable foam applicator unit, including inductor type nozzle & portable foam tanks
- ☐ Fixed local application fire-extinguishing system test
- ☐ Water-mist/sprinkler system controls & nozzles
- ☐ Pumping supply arrangements (i.e., hoses, bottles, pressure tank, test valve, fire main connection valve)

10. Oil Filtering and Discharge Equipment

- ☐ OWS test
- ☐ “Discharge of Oil Prohibited” placard

11. Sewage Treatment Equipment

- ☐ Sewage treatment device marking with approval information
- ☐ Acceptable method of securing (i.e., locking, removing handle)
- ☐ Treatment system components maintained and operated in accordance with SMS

IGF CODE SHIPS

1. **Crew Training and Certification**
   - Basic LFF training for seafarers responsible for designated safety duties
   - Advanced LFF training for masters, engineering officers, & crew responsible for the care and use of fuels & fuel systems

2. **Logs, Manuals, and Records**
   - Maintenance procedures for fuel containment & electrical equipment installed in hazardous locations
   - Transfer procedures, emergency actions, bunker safety checklist, bunker delivery notes

3. **Airlocks**
   - Mechanical ventilation with positive pressure
   - No storage
   - Self-closing doors
   - Alarm if more than one door is moved
   - Gas detector installed

4. **Control, Monitoring, and Safety Systems**
   - Gas detection
   - Spot-check alarms and/or shutdowns from IGF Code Table 1

RO-RO PASSENGER SHIPS

1. **Hull Walk**
   - Shell door positions and correspond to bridge indicating panel

2. **Crew Training and Certification**
   - Passenger Safety, Cargo Safety and Hull Integrity training for masters, chief mates, chief engineers, second engineers, and crew assigned to loading/unloading
   - Fast Rescue Boat training for at least 2 crews of each fast rescue boat

3. **Logs and Records**
   - Ship's log recording of last closing times of shell doors

4. **Escape Routes**
   - Handrails in corridors
   - Mimic plans showing "you are here"

5. **Fire Safety Protection of Vehicle, Special Category, and Ro-Ro Spaces**
   - Power ventilation ≥ 10 air changes per hour (≥ 6 air changes if ≤ 36 passengers)
   - Fixed fire detection & alarm and fixed fire-extinguishing systems
   - Deck scuppers

6. **Fast Rescue Boat**
   - Condition, fittings, equipment, watertight hands-free VHF radio
   - Propulsion & steering test

POLAR CODE SHIPS

1. **Ship Certificates**
   - Polar Ship Certificate

2. **Crew Training and Certification**
   - Basic and/or advanced training for masters & deck officers

3. **Safety Arrangements**
   - Grab rails on cooking equipment, oil-tight lid for deep fat fryers
   - Line-throwing apparatus for emergency towing
   - Water & foam extinguishers not located where exposed to freezing temperatures
   - Protective clothing & thermal insulating materials for passengers
   - Personal survival kits & group survival kits, including annual inspections
   - Manual inflation pump for liferafts

4. **Navigation Arrangements**
   - 2nd independent echo-depth sounder
   - Independent 3 GHz radar
   - Two searchlights controllable from conning position
   - Means to de-ice conning position windows
   - Means to receive ice & weather charts and displaying ice imagery

FINDINGS

Observation	# / Location	Condition	Photo	Deficiency
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
			□	□ Y □ N
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			□	□ Y □ N
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