

***United States Coast Guard***



**POLAR ADDENDUM**

**Training Aid**

Training Aid PA  
Rev. March 2017

DCN: MPS-TA-TCY-PA(1)

### **Use of Polar Addendum Training Aid:**

This is a condensed version of the PA Performance and Qualification Standard (PQS) workbook. This Training Aid is intended to be used by Coast Guard Marine Inspector trainees during examinations which involve foreign flagged vessels transiting polar waters. This Training Aid provides a quick reference for all the steps necessary to complete specific tasks listed in the PA Job Aid.

## **Firefighting Systems Examination (FF)**

### **PA-FF01 - Examine fire safety systems and appliances**

- |   |                        |
|---|------------------------|
| .01 Verify isolating and pressure/vacuum valves are protected from ice accretion and remain accessible at all times         | Polar Code I-A/7.3.1.1 |
| .02 Verify all two-way portable radio equipment is operable at the PST  | Polar Code I-A/7.3.1.2 |
| .03 Verify equipment and machinery controls are arranged to avoid freezing, snow accumulation and ice accretion             | Polar Code I-A/7.3.2   |
| .04 Verify firefighter's outfits are stored in warm locations   | Polar Code I-A/7.3.2.3 |
| .05 Verify portable and semi-portable extinguishers in locations subject to freezing are capable of operation under the PST | Polar Code I-A/7.3.3.1 |

## **Machinery Equipment Examination (MI)**

### **PA-MI01 - Examine machinery installations**

- |  |  |
|--|--|
| .01 Verify protection against ice accretion and/or snow accumulation                                       | Polar Code I-A/6.3.1.1   |
| .02 Verify viscosity of working liquids  | Polar Code I-A/6.3.1.1<br>Polar Code I-A/6.3.1.2<br>Polar Code I-A/5.3.2.1<br>Polar Code I-A/6.3.1.3 |
| .03 Verify seawater systems prevent ingestion of ice   | Polar Code I-A/6.3.1.3   |
| .04 Verify means to ensure air intake for essential machinery is maintained within manufacturer's criteria | Polar Code I-A/6.3.2.2   |

## **Topside Equipment Examination (TE)**

### **PA-TE01 - Examine ice removal equipment**

- |  |                        |
|--|------------------------|
| .01 Verify means for removing ice from bulwarks, rails and erections | Polar Code I-A/4.3.1.2 |
| .02 Verify means for removing ice from hatches and doors             | Polar Code I-A/5.3.1   |

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## **Certificates and Documents (CD)**

### **PA-CD01 - Examine Polar Ship Certificate and Record of Equipment**

- .01** Verify presence Polar Code I-A/1.3.1  
Polar Code I-A/1.3.6
- .02** Verify validity Polar Code I-A/1.3.2  
Polar Code I-A/1.3.4  
Polar Code I-A/1.3.6
- .03** Verify form Polar Code I-A/1.3.5
- .04** Verify Polar Class (PC) Polar Code I-A/1.3.3  
Polar Code I-A/3.3.2
- .05** Verify Polar Service Temperature (PST) Polar Code I-A/1.4.2

### **PA-CD02 - Examine mariner credentials**

- .01** Verify training for polar water operations Polar Code I-A/12.3.1  
CG-OES Policy Ltr 01-16

### **PA-CD03 - Examine vessel's ability to retain oil/oily mixtures and/or noxious liquid substances (NLS) onboard**

- .01** Verify entries in Oil Record Books, manuals and SOPEP/SMPEP Polar Code II-A/1.1.4  
Polar Code II-A/2.1.2
- .02** Verify International Pollution Prevention Certificate for the Carriage of NLS in Bulk or Certificate of Fitness is endorsed for polar waters Polar Code II-A/2.1.3

## **Logs and Manuals Examination (LM)**

### **PA-LM01 - Examine Polar Water Operational Manual (PWOM)**

- .01** Verify presence Polar Code I-A/2.3.1
- .02** Verify content Polar Code I-A/2.2  
Polar Code I-A/2.3

### **PA-LM02 - Examine garbage documentation**

- .01** Verify Garbage Record Book reflects operation in polar waters Polar Code II-A/5.2.3
- .02** Verify Garbage Management Plan reflects operation in polar waters Polar Code II-A/5.2.3

## **Bridge/Navigation Examination (BN)**

### **PA-BN01 - Examine navigation equipment**

- .01** Verify secondary echo-sounding device Polar Code I-A/9.3.2.1.1
- .02** Verify means to prevent accumulation of ice on antennas Polar Code I-A/9.3.2.1.3
- .03** Verify bridge wings enclosed Polar Code I-A/9.3.2.1.4.2
- .04** Verify two non-magnetic means to determine and display heading Polar Code I-A/9.3.2.2.1
- .05** Verify GNSS compass or equivalent Polar Code I-A/9.3.2.2.2
- .06** Verify search lights Polar Code I-A/9.3.3.1
- .07** Verify flashing red light Polar Code I-A/9.3.3.2

### **PA-BN02 - Examine communications equipment**

- .01** Verify sound signaling system Polar Code I-A/10.3.1.2
- .02** Verify two-way voice and data communication with a Telemedical Assistance Service (TMAS) Polar Code I-A/10.3.1.4
- .03** Verify rescue boats and lifeboats fitted with equipment for transmitting ship to shore, location, and transmitting & receiving on-scene communications Polar Code I-A/10.3.2.1
- .04** Verify all other survival craft fitted with equipment for transmitting location and on-scene communications Polar Code I-A/10.3.2.2
- .05** Verify procedures for ensuring survival craft communications equipment is available for operation during maximum expected time of rescue Polar Code I-A/10.3.2.3

## **Lifesaving Equipment Examination (LS)**

### **PA-LS01 - Examine escape routes and evacuation appliances**

- .01** Verify means to remove or prevent ice and snow accretion from escape routes, muster stations, embarkation areas, survival craft, launching appliances and access to survival craft Polar Code I-A/8.3.1.1
- .02** Verify escape routes and embarkation arrangements do not hinder persons wearing polar clothing Polar Code I-A/8.3.1.2  
Polar Code I-A/8.3.1.3
- .03** Verify means of evacuating persons when operating in ice-covered waters Polar Code I-A/8.3.2.1

### **PA-LS02 - Examine survival equipment**

- .01** Verify immersion suits Polar Code I-A/8.3.3.1
- .02** Verify searchlights installed on lifeboats Polar Code I-A/8.3.3.2
- .03** Verify lifeboats partially or totally enclosed Polar Code I-A/8.3.3.3.1
- .04** Verify personal and group survival equipment Polar Code I-A/8.3.3.3.2
- .05** Verify ice/land abandonment equipment Polar Code I-A/8.3.3.3.3
- .06** Verify emergency rations Polar Code I-A/8.3.3.4