

SUB-COMMITTEE ON SHIP SYSTEMS AND  
EQUIPMENT  
6th session  
Agenda item 12

SSE 6/12/4  
20 December 2018  
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**UNIFIED INTERPRETATION OF PROVISIONS OF IMO SAFETY, SECURITY AND  
ENVIRONMENT-RELATED CONVENTIONS**

**Application of the design temperature for piping, fittings and related components  
(paragraph 11.3.6 of the IGC Code)**

**Submitted by IACS**

**SUMMARY**

*Executive summary:* This document provides a draft IACS unified interpretation (UI) on the application of the design temperature for piping, fittings and related components, as required by paragraph 11.3.6 of the IGC Code with a view to facilitating the global and consistent application of these mandatory provisions

*Strategic direction, if applicable:* 6

*Output:* 6.1

*Action to be taken:* Paragraph 7

*Related documents:* SSE 5/12/8 and SSE 5/17 (paragraphs 12.12 and 12.13)

**Background**

1 In document SSE 5/12/8, IACS sought clarification on the application of the design temperature for piping, fittings and related components of water-spray systems as required by paragraph 11.3.6 of the IGC Code, as amended by resolution MSC.370(93) (hereafter referred to as the IGC Code), taking into account paragraph 11.1.4 of the Code.

2 The requirements for water-spray systems are prescribed in paragraph 11.3.6 of the IGC Code, as follows:

"11.3.6 All pipes, valves, nozzles and other fittings in the water-spray system shall be resistant to corrosion by seawater. Piping, fittings and related components within the cargo area (except gaskets) shall be designed to withstand 925°C. The water-spray system shall be arranged with in-line filters to prevent blockage of pipes and nozzles. In addition, means shall be provided to back-flush the system with fresh water."

The definition of "cargo area" is provided in 11.1.4 of the IGC Code, as follows:

"11.1.4 For the purposes of firefighting, any weather deck areas above cofferdams, ballast or void spaces at the after end of the aftermost hold space or at the forward end of the forwardmost hold space shall be included in the cargo area."

3 In this regard, the question had been raised as to whether the weather deck areas above "F.O. tanks" were regarded as part of the "cargo area" and, consequently, whether the piping, fittings and related components of a water-spray system in such an area were to be designed to withstand 925°C.

4 Having agreed that pipes, valves, nozzles and other fittings in water-spray systems on weather deck areas above fuel oil tanks at the after end of the aftermost hold space or at the forward end of the forwardmost hold space should be designed to withstand 925°C, the Sub-Committee invited IACS and other interested delegations to note the above agreement with a view to submitting a draft UI to the next session (SSE 5/17, paragraph 12.13).

### **Proposal**

5 Based on the outcome of SSE 5, IACS submits for the Sub-Committee's consideration the draft IACS UI provided in the annex to this document.

6 If the Sub-Committee agrees with the draft IACS UI, IACS is of the view that the finalized version will be applied to ships contracted for construction on or after [1 January 2020], unless IACS members are provided with written instructions to apply a different interpretation by the Administration on whose behalf they are authorized to act as a recognized organization.

### **Action requested of the Sub-Committee**

7 The Sub-Committee is invited to consider the proposal in paragraphs 5 and 6 above and the draft IACS UI, as set out in the annex, and take action, as appropriate.

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## ANNEX

### DRAFT IACS UNIFIED INTERPRARTION

#### **Deck areas above F.O. tanks installed at the after end of the aftermost hold space**

**Paragraph 11.1.4 of the IGC Code, as amended by resolution MSC.370(93), reads:**

*"11.1.4 For the purposes of firefighting, any weather deck areas above cofferdams, ballast or void spaces at the after end of the aftermost hold space or at the forward end of the forwardmost hold space shall be included in the cargo area."*

**Paragraph 11.3.6 of the IGC Code, as amended by resolution MSC.370(93), reads:**

*"11.3.6 All pipes, valves, nozzles and other fittings in the water-spray system shall be resistant to corrosion by seawater. Piping, fittings and related components within the cargo area (except gaskets) shall be designed to withstand 925°C. The water-spray system shall be arranged with in-line filters to prevent blockage of pipes and nozzles. In addition, means shall be provided to back-flush the system with fresh water. "*

#### **Interpretation**

Where "F.O. tanks" are installed at the after end of the aftermost hold space or at the forward end of the forwardmost hold space instead of cofferdams as allowed for in paragraphs 3.1.2 and 3.1.3 of the IGC Code, the weather deck area above these tanks shall be regarded as a "cargo area" for the purpose of applying paragraph 11.3.6 of the IGC Code, i.e. piping, fittings and related components of water-spray systems shall be designed to withstand 925°C.