

## UI SC259 “For Application of SOLAS Regulation II-1/3-11 Performance Standard for Protective Coatings for Cargo Oil Tanks of Crude Oil Tankers (PSPC-COT), adopted by Resolution MSC.288(87)”

### Part A. Revision History

Version no.	Approval date	Implementation date when applicable
New (Feb 2013)	21 February 2013	01 January 2014

- **NEW (Feb 2013)**

**.1 Origin for Change:**

- Suggestion by IACS members

**.2 Main Reason for Change:**

To develop the interpretation for PSPC-COT of Resolution MSC.288(87) in the same manner of UI SC223 for PSPC-WBT of Resolution MSC.215(82).

**.3 List of non-IACS Member classification societies contributing through the TC Forum and/or participating in IACS Working Group:**

None

**.4 History of Decisions Made:**

EG/Coating, as Task 36, planned to develop a new unified interpretation for PSPC-COT of Resolution MSC.288(87) that retains the same structure given in UI SC223, however, due to the disbandment of EG/Coating, the development of a new UI was transferred from EG/Coating via GPG to the Statutory Panel.

The Statutory Panel developed the new UI taking into account a decision made by the EG/Coating to keep the same structure given in UI SC223. Therefore, the new UI is in line with UI SC223 except for some change originated from the difference between PSPC-WBT and PSPC-COT.

**.5 Other Resolutions Changes**

None

**.6 Dates:**

Original proposal: by *EG/Coating*

Panel Approval: *12th January 2013 by: Statutory Panel*

GPG Approval: *21 February 2013 (Ref: 9638fIGj)*

## Part B. Technical Background

List of Technical Background (TB) documents for UI SC259:

Annex 1. **TB for New (Feb 2013)**

See separate TB document in Annex 1.



## Technical Background (TB) document of UI SC259 (New, Feb 2013)

### 1. Scope and objectives

To develop the interpretation for PSPC-COT of Resolution MSC.288(87) in the same manner of UI SC223 for PSPC-WBT of Resolution MSC.215(82).

### 2. Engineering background for technical basis and rationale

The Statutory Panel developed the new UI taking into account a decision made by the EG/Coating to keep the same structure given in UI SC223. Therefore, the new UI is in line with UI SC223 except for some changes originated from the difference between PSPC-WBT and PSPC-COT as follows:

PSPC-COT 4 Table 1:1 Design of coating system:

Considering that selected vessels are different between WBT and COT in nature, the IACS REC No.116 paragraph 2.3 as quoted below for Method B (5 years field exposure) was incorporated with some modification by the members' suggestion.

#### QUOTE

- *At least one tank is exposed to minimum temperature of 58 degree C*
- *For field exposure the ship should be trading in varied trade routes and carrying substantial varieties of crude oils to ensure a realistic sample: for example, three ships on three different trade areas with different varieties of crude cargoes*

#### UNQUOTE

EG/Coatings discussed the matter of harmonizing the lab test and the field experience approvals and was of the view that the 58 degree C for the Method B-5 years field exposure test in REC No. 116 should be harmonized with the requirements for coatings to be approved based on 5 years Field Experience in MSC.288(87).

Table 1 of the PSPC-COT in MSC.288(87) under 1.3 reads ..... 'or which have documented field exposure for 5 years with a final coating condition of not less than Good, may be accepted.' The Lab Testing for approval of PSPC-COT coatings designated to be applied underdeck (in the inerted upper area of the tank) is specified by Appendix 1 of MSC.288(87), "Gas Tight Cabinet Test", where the temperature of the test atmosphere shall be 60 +/- 3 Degree C.

Therefore, 58 degree C in REC No.116 is considered to be better defined into 60 +/- 3 Degree C.

In addition, the Statutory Panel agreed that Marintek B1 specified in Method C (Existing Marintek B1 Approval) of UI SC223 is not for COT. Therefore, "Method C: Existing Marintek B1 approvals" is removed from the new UI for COT.

### 3. Source/derivation of the proposed IACS Resolution

Resolution MSC.288(87)  
IACS UI SC223(Rev.2)

### 4. Summary of Changes intended for the revised Resolution

None

## **5. Points of discussions or possible discussions**

PSPC-COT 2 DEFINITIONS:

The Statutory Panel agreed that the definition of wording "GOOD" should change from the definition interpreted in UI SC223 in accordance with MSC/Circ.1399.

PSPC-COT 4 Table 1: Footnotes of Standards and Annex 1 Footnotes of Standards:

A proposal to update the referred ISO standards was made by a Statutory Panel member, however the Statutory Panel agreed that making changes to the referred ISO standards would lead to be beyond Resolution MSC.288(87) and the current referred ISO standards should be retained.

## **6. Attachments if any**

None