

MARITIME SAFETY COMMITTEE
103rd session
Agenda item 16

MSC 103/16/1
6 January 2021
Original: ENGLISH
Pre-session public release:

SHIP SYSTEMS AND EQUIPMENT

Comments on the draft interim guidelines on safe operation of onshore power supply (OPS) service in port for ships engaged on international voyages

Submitted by IACS

SUMMARY

Executive summary: This document proposes modifications to the draft interim guidelines on safe operation of onshore power supply (OPS) service in port for ships engaged on international voyages contained in annex 6 of document SSE 7/21

Strategic direction, if applicable: 2

Output: 2.8

Action to be taken: Paragraph 6

Related document: SSE 7/21 (annex 6)

Background

1 The SSE Sub-Committee, at its seventh session, agreed the draft interim guidelines on safe operation of onshore power supply (OPS) service in port for ships engaged on international voyages (draft interim guidelines), for approval by the Maritime Safety Committee. The agreed draft is contained in annex 6 of document SSE 7/21.

Discussion

2 IACS appreciates the work performed by the SSE Sub-Committee to develop the draft interim guidelines. Upon careful review of the annex of annex 6 of document SSE 7/21, IACS would like to make the following proposals on the draft interim guidelines.

Proposals

3 IACS is of the opinion that, although standard IEC62613-1 is referred to from standard IEC80005, reference to standard IEC62613-1 should be directly made in paragraphs 1.3.1, 1.3.3, 2.1.1 and 2.2.1 of the draft interim guidelines, as follows^{*}:

"1.3.1 Technical design, installation and testing requirements for the OPS system are provided by the standard: IEC/IEEE 80005-1:2019: Utility connections in port – Part 1: High Voltage Shore Connection (HVSC) Systems – General requirements, IEC 62613-1:2019: Plugs, socket-outlets and ship couplers for high-voltage shore connection (HVSC) systems – Part 1: General requirements or other equivalent standards."

"1.3.3 A compatibility assessment (for high voltage, see standard IEC/IEEE 80005-1 and IEC 62613-1:2019) or technical analysis (for low voltage) of the OPS system should be available to verify the possibility of connecting the ship electrical system to the shore's installations."

"2.1.1 Prior to conducting the test referred to in this paragraph, the compatibility assessment or technical analysis, as appropriate, should be performed. Both shore- and ship-sides should cross-review the initial test reports before the tests at the first call at a shore supply point. The initial tests for high voltage should meet standards IEC/IEEE 80005-1 and IEC 62613-1:2019 requirements."

"2.2.1 The tests referred to in this paragraph should meet standards IEC/IEEE 80005-1 and IEC 62613-1:2019 requirements."

4 With regard to paragraphs 2.1.4 and 2.2.3 requiring "cross-boundary safety system that is jointly controlled by the ship and shore persons in charge (PIC)", IACS understands that this is a constructional requirement which goes beyond the purpose of operational guidelines. On this basis, IACS proposes to delete paragraphs 2.1.4 and 2.2.3.

5 To ensure consistency with paragraph 3.2.1.1.2, IACS proposes to address ship-side circuit breakers and circuits alongside the shore-side ones in paragraph 3.2.1.1.5, as follows:

".5 a confirmation that the shore-side and ship-side circuit breakers ~~is~~ are open and isolated, and circuits ~~is~~ are earthed;"

Action requested of the Committee

6 The Committee is invited to consider the above proposals in paragraphs 3 to 5 and take action, as appropriate.

* Throughout the document, tracked changes are indicated using "strikeout" for deleted text and "grey shading" to highlight all modifications and new insertions, including deleted text.