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Interested committees:

Title: BS ISO 5476 Ships and Marine Technology -- Virtual reality and simulator training equipment and systems for lifesaving appliances and arrangements

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Introduction

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

DRAFT INTERNATIONAL STANDARD

ISO/DIS 5476

ISO/TC 8/SC 1

Secretariat: ANSI

Voting begins on:
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Ships and Marine Technology — Virtual reality and simulation training systems for lifesaving appliances and arrangements

ICS: 47.020.01

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents shall be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 8, *Ships and Marine Technology*, Subcommittee SC 1, *Maritime safety*.

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Introduction

This document provides the criteria for how virtual reality (VR) and simulator technologies can support training and maintenance of lifesaving appliances such as those required by the IMO International Convention on the Safety of Life at Sea of 1974 (SOLAS 74) Chapter III.

The use of VR and simulator technology is already a mainstay in many traditional maritime schools for bridge management and navigation, and the market is growing for this type of training specific to lifesaving appliances (LSA) installed on board vessels, mobile offshore drilling units (MODUs) and offshore installations. Through interactions with the virtual world, students develop knowledge, skills, and attitudes related to a wide array of competencies.

This document supports the VR and simulator equipment used in training and drills for operators and maintainers of LSA, where “live” training with the LSA is limited or restricted due to: operational factors; company policies; inclement weather; sea-state; operating schedules; port restrictions; etc.. This is particularly advantageous for the mariners undergoing pre-arrival training to their next assignment as well as for onboard survival craft and associated appliances and arrangements such as free-fall lifeboats and davit-launched liferafts that are traditionally limited in their “live” training usage.

Additionally, LSA that are technologically advanced and novel may not be practicable for both live training and traditional deployment frequencies. Due to the nature of such alternative designs and arrangements, the need for VR and simulator training equipment for these types of LSA is particularly valuable to provide the necessary, consistent training frequency and familiarity for the mariners who will operate them.