Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

5 July 2023

Sub-Committee of Experts on the Transport of Dangerous Goods

Sixty-second session Geneva, 3-7 July 2023 Item 7 of the provisional agenda Global harmonization of transport of dangerous goods regulations with the Model Regulations

International Maritime Organisation draft amendments to 5.5.4 of the International Maritime Dangerous Goods code - Revised proposal

Transmitted by the expert from France

Introduction

1. We received some comments for editorial improvements from Canada which we included in the attached revised proposal in order to facilitate the discussion

Proposal

8. Amend the text in 5.5.4 to read as follows (new text is <u>underlined</u>):

"5.5.4 <u>Devices containing dangerous goods, which are in use or</u> intended for use during transport

5.5.4.1 Devices in use or intended for use during transport containing dangerous goods, such as data loggers, sensors and cargo tracking devices, attached to or placed in packages, overpacks, <u>bulk containers</u>, freight containers or other types of cargo transport units, are not subject to any provisions of these Regulations other than the <u>requirements set out in</u> 5.5.4.21(a) to 5.5.4.6 4, as follows:

5.5.4.2 Devices in use or intended for use during transport containing dangerous goods shall meet the following requirements:

(a) <u>the device</u> shall be in use or intended for use during transport;

(b) the contained dangerous goods (e.g. lithium batteries, fuel cell cartridges) shall meet the applicable construction and test requirements specified in these Regulations; and

(c) <u>the device</u> shall be capable of withstanding the shocks and loadings normally encountered during transport <u>and shall be safe for use in the dangerous</u> environments to which it may be exposed.

5.5.4.32 When such <u>a device</u> containing dangerous goods is transported as a consignment, the relevant entry of the Dangerous Goods List in chapter 3.2 shall be used and all applicable provisions of these Regulations shall apply."

5.5.4.43 Data loggers, sensors and cargo tracking devices, attached to packages and overpacks in a closed cargo transport unit transporting dangerous goods shall be securely installed to the cargo transport unit and shall be of a safe type for the dangerous goods that will be transported within the cargo transport unit.

5.5.4.54 Data loggers, sensors and cargo tracking devices attached directly to the interior or exterior of cargo transport units shall be securely installed and shall comply with the following criteria, as specified in standards IEC 60079-0:2017 and IEC 60529:2013:

(a) Temperature class T4: the device maximum surface temperature attained in service under the most adverse conditions is ≤ 135 °C;

(b) Equipment group IIB: the device is intended for use in places with an explosive gas atmosphere other than mines susceptible to firedamp and in explosive gas atmospheres other than those containing hydrogen;

(c) Degree of protection IP65: the device enclosure protects internal equipment against ingress of dust and protects against harmful effects due to water jets against the enclosure from any direction; and

(d) For devices in a reefer controller box, the requirement of (c) is complied with when the casing of the controller box conforms to (c).

[5.5.4.6[NOTE : Devices subject to 5.5.4.54 shall comply with the requirements from 1 January 2028, with the exception for fixed devices on or in reefer containers, which shall comply with these requirements as soon as possible, but not later than 1 January 2032.]"