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Inland Transport Committee

Working Party on the Transport of Dangerous Goods

Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (ADN Safety Committee)

Seventeenth session

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Item 5 (b) of the provisional agenda

Proposals for amendments to the Regulations annexed to ADN: Amendments for entry into force on 1 January 2013

Hoses and pipes^{1 2}

Transmitted by the International Association of Classification Societies (IACS)

Background

1. At the sixteenth session of the ADN Safety Committee, IACS was invited to check whether it was appropriate to replace the term "hoses" by "pipes" in the ADN Checklist as proposed by Switzerland in document ECE/TRANS/WP.15/AC.2/2010/8 (ECE/TRANS/WP.15/AC.2/34, para. 26).

Proposal

2. It should be noted that, in practice, the connection between ship and shore may consist of the following items: hoses, a pipe in combination with bellows and/or swivels, and any other compensation system.

¹ Distributed in German by the Central Commission for the Navigation of the Rhine under the symbol CCNR/ZKR/ADN/WP.15/AC.2/2010/22.

² In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/2010/8, programme activity 02.7 (b) and ECE/TRANS/208, para. 106).

3. The English term "pipe" does not fully cover the above possibilities since it only refers to an actual pipe. It is therefore proposed to replace it by "piping". The wording "piping" is of a more general nature and may also include hoses, swivels etc.

4. Accordingly, it is proposed that the following sections of the ADN Checklist should read as follows:

"6.1 ~~Are the cargo hoses~~ Is the piping between vessel and shore in satisfactory condition?
~~Are these hoses~~ Is the piping correctly connected?"

6.4 Are the shoreside loading arms free to move in all directions and ~~do the hoses~~ does the piping have enough room for easy movement?"

5. Likewise, in the proposed amendment to 9.3.x.0.3 (c) in document ECE/TRANS/WP.15/AC.2/2010/8, the word "hoses" should be replaced by "piping" and not "pipes" as follows:

"9.3.x.0.3

(c) The use of plastic materials or rubber within the cargo area is only permitted for:

- coating of cargo tanks and of ~~pipes~~ piping for loading and unloading;
- all kinds of gaskets (e.g. for dome or hatch covers);
- electric cables;
- ~~hoses~~ piping for loading and unloading;
- Insulation of cargo tanks and of ~~hoses~~ piping for loading and unloading."

6. The IACS has taken the opportunity to verify whether there are other instances where the use of the words "hoses" or "pipes" should be corrected, with the exception of hoses used for the reception of wastes or fire hoses. It is proposed to change "hoses" to "piping" in the following cases:

"7.2.5.3 *Mooring*

Vessels shall be moored securely, but in such a way that electrical power cables and flexible ~~hoses~~ piping are not subject to tensile strain and the vessels can be released quickly in an emergency."

8.6.3 **Explanations to the ADN Checklist**

"Question 6

A valid inspection certificate for the loading/unloading piping must be available on board. The material of the ~~hoses~~ piping must be able to withstand the expected loads and be suitable for cargo transfer of the respective substances. The term cargo ~~hoses~~ piping includes hoses as well as the shoreside loading/discharging arms. The cargo transfer ~~hoses~~ piping between vessel and shore must be placed so that ~~they~~ it cannot be damaged by variations of the water-level, passing vessels and/or loading/unloading operations. All flange connections are to be fitted with appropriate gaskets and sufficient bolt connections in order to exclude the possibility of leakage."

"Question 10

Loading/unloading must be supervised on board and ashore so that dangers which may occur in the vicinity of cargo ~~hoses~~ piping can be recognized immediately. When

supervision is effected by additional technical means it must be agreed between the shore installation and the vessel how it is to be ensured."

7. It is noted that the phrase "pipes for loading and unloading" occurs at numerous locations in Parts 7, 8 and 9 of the ADN. In these cases, it is proposed to replace it by "piping for loading and unloading". By so doing, valves, bellows, swivels etc. are also included in the particular requirement.
