



Economic Commission for Europe
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)
Thirty-sixth session

Geneva, 27–31 January 2019

Item 5 (b) of the provisional agenda

**Proposals for amendments to the Regulations annexed to ADN:
 other proposals**
Hose assemblies for LNG
Transmitted by the Government of the Netherlands* **

| | |
|----------------------------|--|
| Executive summary: | Since Liquefied Natural Gas (LNG) has become more and more a regular fuel for sea ships and inland vessels, the Dutch delegation considered it desirable to set requirements for hose assemblies used during loading, unloading and bunkering of LNG. The document contains two amendments on this matter to the Regulations annexed to ADN. |
| Action to be taken: | The Safety Committee is requested in paragraph 4 to adopt the proposed amendments |
| Related documents: | ECE/TRANS/WP.15/AC.2/2019/29 ECE/TRANS/WP.15/AC.2/72 (paragraph 56) ECE/TRANS/WP.15/AC.2/2019/15 ECE/TRANS/WP.15/AC.2/70 (paragraphs 45-47) |

Introduction

1. During its thirty-fifth session, the Safety Committee discussed document ECE/TRANS/WP.15/AC.2/2019/29 of the Dutch delegation. The Safety Committee invited

* Distributed in German by the Central Commission for the Navigation of the Rhine under the symbol CCNR/ZKR/ADN/WP.15/AC.2/2020/21.

** In accordance with the programme of work of the Inland Transport Committee for 2018–2019 (ECE/TRANS/2018/21/Add.1, cluster 9.3).

the Dutch delegation to clarify their proposal with respect to the responsibilities of the inspections to be performed according to standard ISO 20519.

I. Amendment

2. Subsection 8.1.6.2 states that the currently mentioned hose assemblies shall be checked and inspected yearly according to the manufacturer's instructions. The Dutch delegation considers it desirable that hose assemblies for LNG undergo checks and inspections with the same frequency. Proof of these checks and inspections shall be carried on board. Therefore, we propose the following amendment to 8.1.6.2 of the Regulations annexed to ADN. Proposed amendments are **bold and underlined**:

“8.1.6.2 Hose assemblies used for loading, unloading or delivering products for the operation of the vessel (**other than liquefied natural gas**) and residual cargo shall comply with European standard EN 12115:2011-04 (Rubber and thermoplastics hoses and hose assemblies) or EN 13765:2010-08 (Thermoplastic multilayer (non-vulcanized) hoses and hose assemblies) or EN ISO 10380:2003-10 (Corrugated metal hoses and hose assemblies). They shall be checked and inspected in accordance with table A.1 of standard EN 12115:2011-04 or table K.1 of standard EN 13765:2010-08 or paragraph 7 of standard EN ISO 10380:2003-10 at least once a year, according to the manufacturer's instructions, by persons authorized for this purpose by the competent authority. A certificate concerning this inspection shall be carried on board.

Hose assemblies used for loading, unloading or delivering liquefied natural gas for the operation of the vessel shall comply with part 5.5.2 of ISO 20519:2017 (Ships and marine technology – Specification for bunkering of liquefied natural gas fuelled vessels) and shall be checked and inspected at least once a year according to the manufacturer's instructions. A certificate concerning this inspection and the documentation of the calculated maximum load stress shall be carried on board.”

3. Furthermore, the Dutch delegation found that consequential amendments to 8.1.2.1 are necessary to ensure that the prescribed documentation is carried on board. Therefore, it is proposed to add a new section (k) to 8.1.2.1, which reads:

“8.1.2.1 (k) **For vessels which carry hose assemblies used for loading, unloading or delivering liquefied natural gas for the operation of the vessel, the inspection certificate and the documentation of the calculated maximum load stress prescribed in 8.1.6.2.**”

II. Action to be taken

4. The Dutch delegation invites the ADN Safety Committee to consider the proposed amendments in paragraphs 2 and 3, and to take action as it deems appropriate.
