

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

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Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods

Geneva, 16–20 March 2020

Item 6 of the provisional agenda

Reports of informal working groups

Report of the informal working group on “Provisions on equipment for tanks and pressure receptacles”

Transmitted by the European Industrial Gases Association (EIGA)

Introduction

1. At its session held in March 2014, the Joint Meeting agreed to establish an informal working group under the Chairmanship of EIGA on “Provisions for equipment for equipment for tanks and pressure receptacles”. The terms of reference were set out in paper March 2014/INF.22 which may be summarized as follows.

- Clarification of meaning of the term of the term “pressure receptacle” to include or exclude their closures;
- Investigation of the completeness of requirements on the design, conformity assessment and marking of closures of pressure receptacles;
- Investigation of the completeness of requirements on the design, conformity assessment and marking of service equipment of tanks.

2. The purpose of this paper is to update the Joint Meeting on the progress made and the work needed to complete the project.

3. The working group reported on its proposals for pressure receptacles and their closures in September 2015 and the Joint Meeting decided that the text changes for those parts of the RID/ADR concerning text originating from the UN Sub-Committee of Experts for the Transport of Dangerous Goods should be referred to the Sub-Committee.

4. These proposals as amended were adopted by the Sub-Committee in December 2019 and the usual process of harmonization will bring these texts into the 2023 edition of RID/ADR.

5. EIGA and ECMA propose that the working group convene once more to study the consequential amendments to sections 6.2.3, 6.2.4 and 6.2.5 and present the final proposals to the Joint Meeting at its next meeting in September. A draft developed in 2015 is shown as an Appendix to this paper of these proposals to demonstrate the likely extent of these amendments.

6. Finally, the working group has tanks as part of its remit. EIGA consider that this work is not needed since the informal working group on the inspection and certification of tanks has undertaken a thorough review and revision of all aspects of the conformity assessment of tanks and their service equipment.

Appendix

Draft amendments to RID/ADR text in 6.2.2, 6.2.3, 6.2.4 and 6.2.5

6.2.2.11 to be renumbered as 6.2.2.12

After the table delete “For refillable pressure receptacles, the conformity assessment of valves and other demountable accessories having a direct safety function may be carried out separately from that of the pressure receptacles.”

Insert “For separate conformity assessments (e.g. cylinder shell and closure) see 6.2.1.4.4.”

6.2.3.1.1 After “Pressure receptacles” delete “and their closures”.

6.2.3.1.2 In the second paragraph replace “pressure envelope and supporting components” by “pressure receptacle and/or pressure receptacle shells including all permanently attached integral parts (e.g. neck ring, foot ring, etc.)”

6.2.3.3.2 Delete the heading “Openings”.

6.2.2.3.3 Delete the heading “Fittings”.

6.2.2.3.4.2 In the title replace “receptacles” by “receptacle shells” and in paragraph (a) replace “receptacles” by “receptacle shells”

6.2.3.5.1 In the **NOTE** after “cylinder” insert “shell”.

6.2.3.5.2 In paragraph (a) insert “pressure” before “receptacle” and insert “service” before “equipment”.

6.2.3.6.1 After the table replace the sentence starting “For refillable pressure receptacles, the conformity assessment ...” by “For separate conformity assessments (e.g. cylinder shell and closure) see 6.2.1.4.3.”

6.2.3.9.1 Replace the existing sentence by “Marks shall be in accordance with 6.2.2.7 and 6.2.2.11 with the following variations.”

6.2.3.10 Replace “pressure receptacles” by “cylinders”

6.2.3.10.1 Replace “Markings” by Marks”

6.2.4.1 After the end of the text and before the table insert a new **NOTE** as follows.

NOTE: *The words ‘cylinder’, ‘tube’ and ‘pressure drum’ when used in these standards shall be understood to exclude closures except in the case of non-refillable cylinders.”*

In the third row of the table (after the two header rows) replace “**for design and construction**” by “**for pressure receptacles or pressure receptacle shells**”.

6.2.4.2 Delete the third row of the table (after the two header rows) including the text “**for periodic inspection and test**”.

6.2.5.3 In the first sentence after the heading insert “shell” after “pressure receptacle”.

In the sentence after the end of the **NOTE** delete “and their closures”.

6.2.5.4.1 Replace “receptacles” by “receptacle shells”.

In the sentence preceding the algebraic formulae insert “shell” after “receptacle” twice.

After the formulae, amend the definition of ‘e’ and “D” to read “e = minimum wall thickness, in mm” and “D = nominal external diameter, in mm”.

In **NOTE 1** replace “receptacles” by “receptacle shells”.

6.2.5.4.2 Replace “receptacles” by “receptacle shells” twice.

6.2.5.4.3 Replace “receptacles” by “receptacle shells” once and insert “shell” after “receptacle” in each of the three indents.

6.2.5.4.4 Replace “receptacles” by “receptacle shells”.

6.2.5.5 Replace “tubes, pressure drums, and bundles of cylinders” by “tubes and pressure drums”.

Between “the construction” and “shall be” insert “of the pressure receptacle shell”.

6.2.5.6.1 At the end of the sentence delete “and its fittings”.

6.2.5.6.3 Delete “of pressure receptacles”.
