

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

Joint Meeting of the RID Committee of Experts and the

Working Party on the Transport of Dangerous Goods

17 February 2021

Bern, 15-19 March 2021

Item 3 of the provisional agenda

Standards

Report of the Standards Working Group (32nd meeting)

1. Reference is made to document ECE/TRANS/WP.15/AC.1/2021/17, which informs about the progress made in the establishment of new and the revision of published EN and EN ISO standards referenced or intended to be referenced in the RID/ADR/ADN.

2. A teleconference took place on the 4th February to review the comments made by Participants of the Joint Meeting. Comments and decisions were compiled by CCMC (see the Annex to this document). The Working Group also considered documents ECE/TRANS/WP.15/AC.1/2021/12, ECE/TRANS/WP.15/AC.1/21/BE/INF.3 and a proposed INF. document prepared by the Chair suggesting clearer text to accompany the standards tables in 6.2.4.1. This report was reviewed by the Working Group on 5th February.

3. Results

3.1. The proposals in this report are made on the basis of the Annex which records the results of the virtual meeting.

3.2. Two amended standards are proposed for referencing.

3.3. During the discussions on prEN 12245 it emerged that there was a need to prevent new cylinders made according to this standard being filled with LPG, since there is a standard (EN 14427) which provides additional safety requirements to address the specific needs of LPG service. A Note forbidding use with LPG cylinders is proposed for the references to this standard. Also, existing type approvals for LPG cylinders should be withdrawn.

3.4. Review of prEN 14427 revealed that construction of composite cylinders without liners, manufactured in two parts joined together was permitted. Committee members responsible assured the Working Group that this was a mistake which would be corrected in the final version. However, the 2004 and 2014 versions of this standard allow this form of construction so Notes forbidding this construction and requiring the withdrawal of type approvals are proposed.

3.5. Five of the six general purpose standards listed in RID/ADR 6.8.4 (d) TT11 have been superseded. These standards are listed with the proposals for amendment to be considered by the Joint Meeting. As usual, the Working Group has not reviewed these standards.

3.6. The Working Group reviewed document 2021/12 from EIGA and was in agreement with the concept of grouping valve caps and guards in the same requirement and indicating where to find the requirements for shrouds and permanent protection attachments. The Working Group approved the use of EN ISO 11118:2015 + A1:2020 for the valves with inherent protection for non-refillable cylinders. It was noted that earlier standards for this application should also be listed and EIGA should submit an amending INF. document.

3.7. Document INF.3 was read through and the Working Group was content with this proposal.

3.8. A draft document prepared by the Chair which proposes to clarify the text which precedes the table of standards in 6.2.4.1 was discussed and the Chair will revise his proposals based on the input he received from the Working Group.

Proposals

4. Proposed additions to the list of standards for reference in RID/ADR 2023

4.1. Draft amendments relating to standard EN 7866:2012 + A1:2020

6.2.4.1 Amend the Table, under “for design and construction”, as follows:

- For “EN ISO 7866:2012 + AC:2014”, in column (4), replace “Until further notice” by “Between 1 January 2015 and 31 December 2024”. After the row for “EN ISO 7866:2012 + AC:2014”, insert the following row:

EN ISO 7866:2012 + A1:2020	Gas cylinders - Refillable seamless aluminium alloy gas cylinders - Design, construction and testing	6.2.3.1 and 6.2.3.4	Until further notice	
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- 6.2.5.4.2 At the end of the sentence replace “(see also EN ISO 7688:2012 + AC:2014)” by “(see also EN ISO 7866:2012 + A1:2020)”.

• 4.2 Draft amendments relating to EN 12245:2002 and EN 12245:2009 + A1:2011

6.2.4.1 Amend the Table, under “for design and construction”, as follows:

- For “EN 12245:2002” insert the following Note in column 2, “**NOTE:** *“This standard shall not be used for gases classified as LPG”*. In column (5) add the following text, “31 December 2023, for cylinders for LPG”.
- For “EN 12245:2009 + A1:2011”, number the existing “**NOTE**” in Column (2) to be “**NOTE 1**”. Insert a new Note in column (2) as follows: “**NOTE 2:** *“This standard shall not be used for gases classified as LPG”*. In column (5) add the following text, “31 December 2023, for cylinders for LPG”.

• 4.3. Draft amendments relating to standard EN ISO 11118:2015 + A1:2020

6.2.4.1 Amend the table “for design and construction” as follows:

- For “EN ISO 11118:2015”, in column (4), replace “Until further notice” by “Between 1 January 2017 and 31 December 2024”. After the row beginning “EN ISO 11118:2015”, insert the following new row:

EN ISO 11118:2015 + A1:2020	Gas cylinders - Non-refillable metallic gas cylinders - Specification and test methods	6.2.3.1, 6.2.3.3 and 6.2.3.4	Until further notice	
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4.4. Draft amendments relating to standard EN 14427:2004 +A1:2005 and EN 14427:2014

6.2.4.1 Amend the table “for design and construction” as follows:

- For “EN 14427:2014”, in Column (2) add a new Note as follows: “**NOTE:** *“This standard shall not be used for cylinders and tubes without a liner, manufactured from two parts joined together.”* In column (5) insert the following text “31 December 2023, for cylinders without a liner, manufactured in two parts joined together”.
- For “EN 14427:2004 + A1:2005”, in Column (5) insert the following text “31 December 2023, for cylinders without a liner, manufactured in two parts joined together”.

4.5. Draft amendments relating to General Purpose Standards

(ADR only:)

- 6.8.4 (d) TT11 Amend the list of 5 standards as shown – new text underlined and deletions shown by ~~strikethrough~~.

- EN ISO 17640:~~2010~~ 2018 – Non-destructive testing of welds – Ultrasonic testing – Techniques, testing levels and assessment,
- – EN ISO 17638:~~2009~~ 2016 – Non-destructive testing of welds – Magnetic particle testing,
- – EN ISO 23278:~~2009~~ 2015 – Non-destructive testing of welds – Magnetic particle testing ~~of welds~~. – Acceptance levels,
- – ~~EN 1711:2000~~ EN ISO 17643:2015 – Non-destructive testing of welds – Eddy current examination of welds by complex plane analysis,
- – ~~EN 14127:2011~~ EN ISO 16809:2019 – Non-destructive testing – Ultrasonic thickness measurement.

Annex

Comments and decisions of the Working Group on Standards 4th and 5th February 2021

A. Standards at Stage 2: Submitted for Public Enquiry

Dispatch 1

prEN 1439		LPG equipment and accessories - Procedure for checking transportable refillable LPG cylinders before, during and after filling	Where to refer in RID/ADR: P200 (11) and P200 (12) 2	Applicable sub-sections and paragraphs: P200 (7)	
00286205					
Positive assessment by the JMSA: This standard is compliant with the ADR and can be approved for inclusion in the referenced sub-sections/paragraphs					
Comments from members of the Joint Meeting:					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from JMSA	Comment from WG Standards
Decision of the STD's WG:		Comments Approved if remains as it is (no technical modification after ENQ)			

prEN 12245		Transportable gas cylinders - Fully wrapped composite cylinders	Where to refer in RID/ADR: 6.2.4.1	Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.4	
00023214					
Positive assessment by the JMSA: This standard is compliant with the ADR and can be approved for inclusion in the referenced sub-sections/paragraphs.					
Comments from members of the Joint Meeting:					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from JMSA	Comment from WG Standards
GER		The German experts are not in favour of referencing the standard as presented (prEN version). Although the current scope of the draft standard states “This document is primarily for compressed, liquefied and dissolved gases other than LPG. NOTE 3 For dedicated LPG cylinders, see EN 14427.”, it doesn’t explicitly exclude LPG from its scope. Keeping in mind that there is a dedicated standard for LPG composite cylinders EN 14427 available, which was developed (and is just under revision) by LPG experts (CEN/TC 286) to cover specific and sometimes more severe LPG industry needs/requirements, it shall not be possible to chose between the two standards.	The German experts agree to reference EN 12245 in 6.2.4.1 RID/ADR with an additional note “This standard shall not be used for cylinders and tubes for LPG.“.		
Decision of the STD’s WG:		<p>Comments</p> <p>The German proposal is accepted and the following Note shall be added to the reference: “NOTE: “<i>This standard shall not be used for gases classified as LPG</i>”.</p> <p>Also, type approvals for LPG cylinders shall be withdrawn.</p> <p>Additionally, the group asks TC 23 to remove all references to LPG in the main body of the text.</p>			

Dispatch 2

prEN 14427		LPG equipment and accessories – Transportable refillable composite cylinders for LPG - Design and construction	Where to refer in RID/ADR: 6.2.4.1	Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.4	
00286198					
Positive assessment by the JMSA: This standard is compliant with the ADR and can be approved for inclusion in the referenced sub-sections/paragraphs.					
Comments from members of the Joint Meeting:					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from JMSA	Comment from WG Standards
Decision of the STD's WG:		<p>- For EN 14427:2014, add in column (2): “NOTE: This standard shall not be used for cylinders and tubes without a liner, manufactured from two parts joined together.”</p> <p>- For EN 14427:2004+A1:2005 and for EN 14427:2014, add in column (5): “31 December 2023, for cylinders and tubes without a liner, manufactured in two parts joined together”</p>			

Dispatch 3

prEN ISO 23826		Gas cylinders - Ball valves - Specification and testing	Where to refer in RID/ADR: 6.2.4.1 closures	Applicable sub-sections and paragraphs: 6.2.3.1, 6.2.3.3 and 6.2.3.4	
00023235					
Positive assessment by the JMSA: This standard is compliant with the ADR and can be approved for inclusion in the referenced sub-sections/paragraphs.					
Comments from members of the Joint Meeting:					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from JMSA	Comment from WG Standards

GER		This new standard does not only cover ball valves for pressure receptacles according to 6.2 RID/ADR but also for so-called “cargo transport units” (e.g. trailers, battery vehicles and MEGC) according to 6.8 RID/ADR, it shall also be referenced in 6.8.2.6.1 and 6.8.3.6 RID/ADR.			
Decision of the STD's WG:			Comments The German comment is approved		

B. Standards at Stage 3 or 4: Submitted for Formal vote or Published

Dispatch 2

EN ISO 11118:2015/A1:2020		Gas cylinders - Non-refillable metallic gas cylinders - Specification and test methods - Amendment 1 (ISO 11118:2015/Amd 1:2019)	Where to refer in RID/ADR 6.2.4.1	Applicable sub-sections and paragraphs: 6.2.3.1, 6.2.3.3, 6.2.3.4		
00023208						
Positive assessment by the JMSA: This standard is compliant with the ADR and can be approved for inclusion in the referenced sub-sections/paragraphs.						
Comments from members of the Joint Meeting:						
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from JMSA	Comment from WG Standards	
Decision of the STD's WG:		Comments Approved – no specific comment	Proposed transition regulation	Applicable for new type approvals or renewals	Latest date for withdrawal of existing type approvals	
			EN ISO 11118:2015	Between 1 January 2017 and 31 December 2024		
			EN ISO 11118:2015 + A1:2020	Until further notice		

Dispatch 2

EN ISO 7866:2012/prA1		Gas cylinders - Refillable seamless aluminium alloy gas cylinders - Design, construction and testing - Amendment 1 (ISO 7866:2012/DAM 1:2020)	Where to refer in RID/ADR 6.2.4.1 6.2.5.4.2	Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.4		
00023222						
Positive assessment by the JMSA: This standard is compliant with the ADR and can be approved for inclusion in the referenced sub-sections/paragraphs.						
Comments from members of the Joint Meeting:						
Country	Clause No.	Comment (justification for change)		Proposed change	Comment from JMSA	Comment from WG Standards
Decision of the STD's WG:		Comments Approved – no specific comment		Proposed transition regulation	Applicable for new type approvals or renewals	Latest date for withdrawal of existing type approvals
				EN ISO 7866:2012 +AC:2014	Between 1 January 2015 and 31 December 2024	
				EN ISO 7866:2012 +A1:2020	Until further notice	

General purpose standards reaching publication soon (reference of standards in RIDADR)

- In RID/ADR 6.8.4 (d) TT11 the following general-purpose standards are listed:
 - EN ISO 17640:2010 – Non-destructive testing of welds – Ultrasonic testing – Techniques, testing levels and assessment,
 - EN ISO 17638:2009 – Non-destructive testing of welds – Magnetic particle testing,
 - EN ISO 23278:2009 – Magnetic particle testing of welds. Acceptance levels,
 - EN 1711:2000 – Non-destructive testing of welds – Eddy current examination of welds by complex plane analysis,

– EN 14127:2011 – Non-destructive testing – Ultrasonic thickness measurement.

These standards have been replaced respectively by the following (changes shown bold):

– EN ISO 17640:**2018** – Non-destructive testing of welds – Ultrasonic testing – Techniques, testing levels and assessment,

– EN ISO 17638:**2016** – Non-destructive testing of welds – Magnetic particle testing,

– EN ISO 23278:**2015** – Magnetic particle testing of welds. Acceptance levels,

– **EN ISO 17643:2015** – Non-destructive testing of welds – Eddy current examination of welds by complex plane analysis

– **EN ISO 16809:2019** – Non-destructive testing – Ultrasonic thickness measurement.
