

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

14 March 2018

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

Bern, 12-16 March 2018

Item 3 of the provisional agenda

Standards

Report of the Standards Working Group (28th meeting)

1. Reference is made to document ECE/TRANS/WP.15/AC.1/2018/7, 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 series of teleconferences took place on the 19th February to review the comments made by Member States and by the NAC Consultant. Comments from MS were compiled by CCMC (see INF.29). Unresolved issues were discussed within the Joint Meeting Working Group Standard (12 – 13 March 2018).

3. One other paper assigned to the standard working group was:

ECE/TRANS/WP.15/AC.1/2018/28 (AEGPL)

There was also a verbal request from the UNECE Secretariat to confirm that a series of standards with the date between square brackets would be published by end of May 2018.

4. Results

4.1 The agreed comments of the discussion on the coherence of the standards at enquiry and formal vote stage with relevant provisions of RID/ADR/ADN are summarized in **INF.29 rev.1** which will also be provided to the relevant Technical Committees of CEN for consideration.

4.2 List of standards for reference in the RID/ADR 2019

CEN confirmed the availability of the following standard as indicated in the following table:

		Planned date of availability
EN 1440:2016 + A1:2018	LPG equipment and accessories - Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Periodic inspection	2018-06-17
EN 16728:2016 + A1:2018	LPG equipment and accessories - Transportable refillable LPG cylinders other than traditional welded and brazed steel cylinders - Periodic inspection	2018-06-17
EN ISO 17871:2015 + A1:2018	Gas cylinders - Quick-release cylinder valves - Specification and type testing - Amendment 1: Gas cylinders - Quick-release cylinder valves - Specification and type testing	2018-04-02

EN 13317:2018	Tanks for transport of dangerous goods - Service equipment for tanks - Manhole cover assembly	2018-04-23
EN 12972:2018	Tanks for transport of dangerous goods - Testing, inspection and marking of metallic tanks	2018-06-23
EN 14025: 2018	Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction	2018-07-17

In the following proposals, new text is shown in **Bold**.

Proposal 1

In RID/ADR, 6.8.5.4 replace:

EN 1252-2:2001 Cryogenic vessels - Materials - Part 2: Toughness requirements for temperatures between -80°C and -20°C

by:

EN ISO 21028-2:[2018] Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 2: Temperatures between -80 °C and - 20 °C

Proposal 2 For RID/ADR in 6.2.4.1:

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
(1)	(2)	(3)	(4)	(5)
<i>For closures</i>				
EN ISO 14246:2014	Gas cylinders - Cylinder valves - Manufacturing tests and examinations	6.2.3.1 and 6.2.3.4	Between 1 January 2015 and 31 December 2020	
EN ISO 14246:2014+ A1:2017	Gas cylinders - Cylinder valves - Manufacturing tests and examinations	6.2.3.1 and 6.2.3.4	Until further notice	

Proposal 3 For RID/ADR in 6.8.2.6.1

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
(1)	(2)	(3)	(4)	(5)
<i>For design and construction of tanks</i>				
EN 12972: [2018]	Tanks for transport of dangerous goods - Testing, inspection and marking of metallic tanks	6.8.2.3	Mandatorily from 1 January 2021	

For RID/ADR in 6.8.2.6.2

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable
(1)	(2)	(3)	(4)
EN 12972:2007	Tanks for transport of dangerous goods - Testing, inspection and marking of metallic tanks	6.8.2.4 6.8.3.4	Until 30 June 2019
EN 12972: [2018]	Tanks for transport of dangerous goods - Testing, inspection and marking of metallic tanks	6.8.2.4 6.8.3.4	Mandatorily from 1 July 2019

Proposal 4 For RID/ADR in 6.8.2.6.1:

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
(1)	(2)	(3)	(4)	(5)
<i>For equipment</i>				
EN 13317:2002 + A1:2006	Tanks for transport of dangerous goods - Service equipment for tanks - Manhole cover assembly	6.8.2.2 and 6.8.2.4.1	Between 1 January 2007 and 31 December 2020	
EN 13317:[2018]	Tanks for transport of dangerous goods - Service equipment for tanks - Manhole cover assembly	6.8.2.2.and 6.8.2.4.1	Until further Notice	

Proposal 5 For RID/ADR in 6.2.4.1

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
(1)	(2)	(3)	(4)	(5)
<i>For design and construction</i>				
EN 1442:2006 +A1:2008	LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Design and construction	6.2.3.1 and 6.2.3.4	Between 1 January 2009 and 30 December 2020	
EN 1442:2017	LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Design and construction	6.2.3.1 and 6.2.3.4	Until further notice	

Proposal 6 For RID/ADR in 6.8.2.6.1

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
(1)	(2)	(3)	(4)	(5)
<i>For design and construction</i>				
EN 14025:2013 + A1: 2016 (except Annex B)	Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction	6.8.2.1 and 6.8.3.1	Between 1 January 2009 and 30 December 2020	
EN 14025: [2018]	Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction	6.8.2.1 and 6.8.3.1	Until further notice	

Proposal 7 For RID/ADR in 6.2.4.1

- in column 2 of the table insert a Note for EN 12245:2009+A1:2011

“NOTE: This standard shall not be used for cylinders and tubes without a liner, manufactured from two parts joined together.”

- in column 5 of the table in 6.2.4.1: withdrawal of type approvals

Add the following text in column 5 for EN 12245:2002 and EN 12245:2009+A1:2011:

”31 December 2019, for cylinders and tubes without a liner, manufactured in two parts joined together.”

5. General remarks

5.1 Standards for which a reference was refused or deferred:

It was decided not to refer to the standard:

EN 14071:2015 +prA1:2017 ‘LPG equipment and accessories - Pressure relief valves for LPG tanks – Ancillary equipment’

The standard is not supporting Transport of Dangerous Goods Regulation since it is limited to applications on static pressure vessels.

Three standards currently at Enquiry level were also examined by the Joint Meeting Standard WG and will need further improvement before being submitted to the Formal Vote:

prEN 13175_2017 ‘LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings’

prEN ISO DIS 14245_2017 ‘Gas cylinders - Specifications and testing of LPG cylinder valves - Self-closing’

FprEN ISO DIS 15995_2017 ‘Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated’.

One standard at Formal Vote was rejected since it did not conform to RID/ADR. It emerged that the wrong draft had been circulated and a corrected version will be sent to a second Formal Vote.

FprEN 12807:2017 LPG equipment and accessories - Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) - Design and construction

5.2 General Purpose standards

CEN has identified four new editions or amendment of existing standards. These standards are outside the terms of reference of the working group, but the following information and suggestions are offered to assist the Joint Meeting in reaching a decision:

ISO 2592:2017 ‘Petroleum and related products - Determination of flash and fire points - Cleveland open cup method.’: ISO 2592 is an undated reference in the UN Manual of Tests and Criteria so no action is needed.

EN 590:2013+A1:2017 ‘Automotive fuels - Diesel - Requirements and test methods.’ Currently the earlier version of this standard is referenced in the second entry for UN1202 in RID/ADR 3.2.1 Table A as EN 590:2013 + AC:2014, in the assimilation list in 4.1.1.21.6 and in 9.1.1.2. Expert advice is required to decide on updating from the current edition.

IEC 60079-18:2015/A1:2017 ‘Explosive atmospheres - Part 18: Equipment protection by encapsulation "m".’ This standard is currently an undated reference in ADR Part 9, therefore no change is required.

IEC 60079-7:2015/A1:2018 ‘Explosive atmospheres - Part 7: Equipment protection by increased safety "e".’ This standard is currently an undated reference in ADR Part 9, therefore no change is required.

5.3 Discussion on INF.28

The paper INF. 28 prepared by AEGPL entitled Incidents with 2-piece EN 12245 Composite LPG Cylinders and Corrective Actions was discussed and the STD WG supported the proposals with the deletion of one word (see Proposal 7). The paper identified the root cause of the reported accidents as being weakness in 2-piece construction and the proposed addition to the standard references would ensure that no more such cylinders could be constructed.

5.4 Consultant

The current contract of the CEN Consultant expires on 31 March 2018. Thereafter the *harmonised standards consultants* (HAS consultants) will be managed by Ernst and Young.

Mr David Teasdale has indicated that he is not willing to continue offering his services as a Consultant within this new structure.

The Standards WG is very disappointed that they will no longer be able to benefit from his expertise and clear recommendations to correct standards. Its members wish to convey their sincere thanks for the work carried out by the CEN consultant for the last 4 years.
