

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

6 March 2014

Bern, 17–21 March 2014

Item 3 of the provisional agenda

Standards

Report of the Standards Working Group (22nd meeting)

1. Reference is made to document ECE/TRANS/WP.15/AC.1/2014/11, 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. Additional standards at enquiry and formal vote stage as well as one published standard and related assessments by the CEN Consultant were made available on the dedicated CEN webpage after the publication of ECE/TRANS/WP.15/AC.1/2014/11.

2. Upon invitation by CEN, telephone conferences were organized under the chairmanship of the CEN Consultant Karol Wieser held on 17, 18, 19 and 20 February and related to the comments received from participants of the Joint Meeting on the following subjects

- Pressure receptacles (except for LPG)
- LPG receptacles and tanks
- Valves and
- Tanks (including cryogenic vessels).

3. Results

3.1 The agreed comments of the discussion on the coherence of the standards at enquiry and formal vote stage and one published standard with relevant provisions of RID/ADR/ADN are summarized in INF.20 which will also be provided to the relevant Technical Committees of CEN for consideration.

3.2 With respect to the introduction of overmoulded cylinders in RID/ADR with the aspects of design, construction and marking as well as periodic inspection it is noted that there will be two standards intended to complement the dedicated RID/ADR provisions which are considered to be agreed upon within this and the next biennium:

- EN 14140 LPG Equipment and accessories – Transportable refillable welded steel cylinders for LPG – Alternative design and construction - and
- EN 16728 LPG equipment and accessories - Transportable refillable LPG cylinders other than welded and brazed steel cylinders - Periodic inspection.

EN 1440 is no longer relevant in this context as it has been split off and will no longer deal with overmoulded cylinders in its revised issue, currently in the revision process.

Whereas EN 14140 is expected to be approved shortly and is therefore part of the proposed amendments outlined thereafter, prEN 16728 will be ready for reference in RID/ADR 2017.

3.3 The suggested references to EN 14334, EN 1626 :2008, EN 13648-1 :2008 and EN 14398-2:2003 outlined thereafter require further discussion and final conclusion during the session of the Joint Meeting.

The proposals are put in square brackets, therefore. The wording of the reference to EN 14334 depends on the decision of the Joint Meeting on the applied alternative to the hydraulic test of tanks (ECE/TRANS/WP.15/AC.1/2014/30). The amendment of the reference to EN 14398-2 is related and dependent on the outcome of the discussion of ECE-TRANS-WP15-AC1-2014-24.

3.4 Proposed new and amended references to standards

As a consequence of the discussion of standards at formal vote stage the following new or amended references to standards in the text of RID/ADR 2015 are proposed as follows:

Part 6, Chapter 6.2

Proposal 1

In RID/ADR, 6.2.4.1 Add, in the Table, under “for design and construction”, after the entry for “EN 14140:2003+A1:2006” the following new reference and amend the existing references as indicated below in bold letters:

<i>Reference</i>	<i>Title of document</i>	<i>Applicable sub-sections and paragraphs</i>	<i>Applicable for new type approvals or for renewals</i>	<i>Latest date for withdrawal of existing type approvals</i>
(1)	(2)	(3)	(4)	(5)
EN 14140:2003	LPG Equipment and accessories – Transportable refillable welded steel cylinders for LPG – Alternative design and construction	6.2.3.1 and 6.2.3.4	Between 1 January 2005 and 31 December 2010	
EN 14140:2003 +A1:2006	LPG Equipment and accessories – Transportable refillable welded steel cylinders for LPG – Alternative design and construction	6.2.3.1 and 6.2.3.4	Until further notice Between 1 January 2009 and 31 December 2016	
EN 14140:[2014]	LPG Equipment and accessories – Transportable refillable welded steel cylinders for LPG – Alternative design and construction	6.2.3.1 and 6.2.3.4	Until further notice	

Proposal 2

In RID/ADR, 6.2.4.1 Add, in the Table, under “for design and construction”, after the entry for “EN 1975:1999+A1:2003” the following new reference and amend the existing reference to EN 1975:1999+A1:2003 as indicated below in bold letters:

(1)	(2)	(3)	(4)	(5)
EN 1975:1999 + A1:2003	Transportable gas cylinders – Specifications for the design and construction of refillable transportable seamless aluminium and aluminium	6.2.3.1 and 6.2.3.4	Until further notice Between 1 January 2009 and	

(1)	(2)	(3)	(4)	(5)
	alloy gas cylinders of capacity from 0.5 litres up to 150 litres		31 December 2016	
EN ISO 7866:2012	Gas cylinders - Refillable seamless aluminium alloy gas cylinders - Design, construction and testing (ISO 7866:2012)	6.2.3.1 and 6.2.3.4	Until further notice	

Proposal 3

In RID/ADR, 6.2.4.1 Add, in the Table, under “for closures” the following new references:

(1)	(2)	(3)	(4)	(5)
EN ISO 14246:[2014]	Gas cylinders - Cylinder valves - Manufacturing tests and examinations (ISO 14246:2014)	6.2.3.1 and 6.2.3.4	Until further notice	
[EN 13648-1 :2008	Cryogenic vessels – Safety devices for protection against excessive pressure – Part 1: Safety valves for cryogenic service	6.2.3.1 and 6.2.3.4	Until further notice]	
[EN 1626:2008	Cryogenic vessels – Valves for cryogenic service	6.2.3.1 and 6.2.3.4	Until further notice]	
EN 13175:[2014]	For pressure drums: LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings	6.2.3.1 and 6.2.3.3	Until further notice	

Proposal 4

In RID/ADR, 6.2.4.1 Add, in the Table, under “for closures”, after the entry for “EN ISO 10297:2006” the following new reference and amend the existing reference as indicated below in bold letters:

(1)	(2)	(3)	(4)	(5)
EN ISO 10297:2006			Until further notice	
	Gas cylinders - Cylinder valves - Specification and type testing (ISO/DIS 10297:2012)	6.2.3.1 and 6.2.3.3	Between 1 January 2009 and 31 December 2016	
EN ISO 10297:[2014]	Gas cylinders - Cylinder valves - Specification and type testing (ISO/DIS 10297:2012)	6.2.3.1 and 6.2.3.3	Until further notice	

Proposal 5

In RID/ADR, 6.2.4.1 Amend the new reference to EN ISO 3807:2013, as follows in bold letters:

(1)	(2)	(3)	(4)	(5)
EN ISO 3807:[2013]	Gas cylinders – Acetylene cylinders – Basic requirements and type testing			
	NOTE: Fusible plugs shall not be fitted	6.2.1.1.9	Until further notice	

Proposal 6

In RID/ADR, 6.2.4.2 Add, in the Table, after the entry for “EN 12863:2002+A1:2005” the following new reference and amend the reference to EN 12863:2002+A1:2005 as indicated thereafter in bold letters:

Reference	Title of document	Applicable
EN 12863:2002+A1:2005	Transportable gas cylinders – Periodic inspection and maintenance of dissolved acetylene cylinders <i>NOTE: In this standard "initial inspection" is to be understood as the "first periodic inspection" after final approval of a new acetylene cylinder.</i>	Until further notice Until 31 December 2016
EN ISO 10462:[2014]	Acetylene cylinders — Periodic inspection and maintenance (ISO/FDIS 10462:2013)	Mandatorily from 1 January 2017

Proposal 7

In RID/ADR, 6.2.4.2 In the table, delete the reference to EN 14189:2003.

Proposal 8

In RID/ADR, 6.2.4.2 In the table, correct the reference to EN ISO 22434:2012 to read “EN ISO 22434:**2011**.”

Part 6, Chapter 6.8

Proposal 9

In ADR, 6.8.2.6.1 Add, in the Table, under “For tanks for gases of Class 2” the following new references:

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)
EN 13175:[2014]	LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings	6.8.2.1.1, 6.8.2.2, 6.8.2.4.1 and 6.8.3.2.3	Until further notice	
[EN 1626 :2008	Cryogenic vessels – Valves for cryogenic service	6.8.2.4 and 6.8.3.4	Until further notice]	

Proposal 10

In ADR, 6.8.2.6.1 Add, in the Table, under “For tanks for gases of Class 2” the following new reference after the entry to EN 12493:2008+A1:2012 (except Annex C) and amend and delete the existing references to this standard as indicated in bolt letters below:

(1)	(2)	(3)	(4)	(5)
EN 12493:2001 (except Annex C)	Welded steel tanks for liquefied petroleum gas (LPG) – Road tankers – Design and manufacture <i>NOTE: Road tankers is to be understood in the meaning of "fixed tanks" and "demountable tanks" as per ADR.</i>	6.8.2.1 (with the exception of 6.8.2.1.17); 6.8.2.4.1 (with the exclusion of the leakproofness test); 6.8.2.5.1, 6.8.3.1 and 6.8.3.5.1	Between 1 January 2005 and 31 December 2010	31 December 2012
EN 12493:2008 (except Annex C)	LPG equipment and accessories – Welded steel tanks for liquefied petroleum gas (LPG) – Road tankers – Design and manufacture <i>NOTE: Road tankers is to be understood in the meaning of "fixed tanks" and "demountable tanks" as per ADR.</i>	6.8.2.1 (with the exception of 6.8.2.1.17), 6.8.2.5, 6.8.3.1, 6.8.3.5, 6.8.5.1 to 6.8.5.3	Between 1 January 2010 and 31 December 2013	
EN 12493:2008 +A1:2012 (except Annex C)	LPG equipment and accessories – Welded steel tanks for liquefied petroleum gas (LPG) – Road tankers – Design and manufacture <i>NOTE: Road tankers is to be</i>	6.8.2.1 (with the exception of 6.8.2.1.17), 6.8.2.5, 6.8.3.1,	Until 31 December 2013	

(1)	(2)	(3)	(4)	(5)
	<i>understood in the meaning of "fixed tanks" and "demountable tanks" as per ADR.</i>	6.8.3.5, 6.8.5.1 to 6.8.5.3		
EN 12493:2013 +A1:[2014] (except Annex C)	LPG equipment and accessories – Welded steel tanks for liquefied petroleum gas (LPG) – Road tankers – Design and manufacture	6.8.2.4 and 6.8.3.4	Until further notice	

Proposal 11

In ADR, 6.8.2.6.1 In the table, under *For tanks with a maximum working pressure not exceeding 50 kPa and...* amend the reference to EN 14398-2:2003 (except Table 1) to read EN 14398-2:2003+AC:2006 (except Table 1).]

Proposal 12

In ADR, 6.8.2.6.2 Add, in the Table the following new reference:

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable
EN 14334:[2014]	LPG equipment and accessories — Inspection and testing of LPG road tankers	[6.8.2.4 (except 6.8.2.4.1), 6.8.3.4.2 and 6.8.3.4.9]	Until further notice

4. General purpose standards

The following general purpose standards were discussed for possible needs of amendment:

- prEN 3-8: Portable fire extinguishers - Part 8: Requirements for the construction, pressure resistance and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar, which comply with the requirements of EN 3-7.
- FprEN ISO 20346: Personal protective equipment - Protective footwear (ISO/FDIS 20346:2014).

Whereas EN 3-8 isn't referenced in RID/ADR/ADN, EN ISO is intended to replace EN 346:1997, referenced in ADN 1.2.1, definition of "protective shoes". A replacement of this reference is proposed, together with a transition clause for existing equipment.

Proposal 13

In ADN, 1.2.1, Definition of "protective shoes" replace EN 346:1997 by EN ISO 20346:[2014] together with a transition clause for equipment clause for existing equipment.