

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**

19 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, and EN 14398-2 reflect decisions made by the Tanks WG in this session as described in the proposals 11 and 12.

3.4 The standards working group also considered INF 26 and INF 42; its recommendations are given in proposals 5b, 14 and 15.

3.5 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 and in the text of RID/ADR 2017 are proposed as follows:

Part 6, Chapter 6.2

Proposal 1

In RID/ADR, 6.2.4.1Add, 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 | |

NOTE: Publication of EN 14140:[2014] is forecast for August 2014

Proposal 2

In RID/ADR, 6.2.4.1Add, 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 alloy gas cylinders | 6.2.3.1 and 6.2.3.4 | Until further notice Between 1 January 2009 and | |

| (1) | (2) | (3) | (4) | (5) |
|-------------------------------------|---|----------------------------|-----------------------------|-----|
| | of capacity from 0.5 litres up to 150 litres | | 31 December 2016 | |
| EN ISO 7866:2012 + AC:[2014] | 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 | |

NOTE: Publication of the Corrigendum is forecast for May 2014.

If the corrigendum is not published in time, the new reference should be included without it.

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 | |

NOTE: Publication of EN 14246:[2014] is forecast for June 2014 and publication of EN 13175:[2014] is forecast for September 2014.

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 | Gas cylinders - Cylinder valves - Specification and type testing (ISO/DIS 10297:2012) | 6.2.3.1 and 6.2.3.3 | Until further notice 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 | |

NOTE: Publication of EN ISO 10297:[2014] is forecast for June 2014

Proposal 5a

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 5b

The above proposal was the outcome of the discussion in the Teleconferences, but in response to the proposal from Germany in INF. 42 the WG also recommends the following additional provision:

Add a new paragraph 6.2.3.1.5 as follows

6.2.3.1.5 Acetylene cylinders shall not be fitted with fusible plugs.

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 NOTE: In this standard "initial inspection" is to be understood as the "first periodic inspection" after final approval of a new acetylene cylinder. | Until further notice Until 31 December 2016 |
| EN ISO 10462: 2013 | Acetylene cylinders — Periodic inspection and maintenance (ISO 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, because it is no longer needed.

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 | |

NOTE: Publication of EN 13175:[2014] is forecast for September 2014

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 NOTE: Road tankers is to be understood in the meaning of "fixed tanks" and "demountable tanks" as per ADR. | 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 NOTE: Road tankers shall be understood in the meaning of "fixed tanks" and "demountable tanks" as per ADR. | 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 NOTE: Road tankers shall be understood in the meaning of "fixed | 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 | Until 31 December 2013 | 31 December 2015 |

| (1) | (2) | (3) | (4) | (5) |
|---|---|---|-----------------------------|-----|
| | tanks" and "demountable tanks" as per ADR. | 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 | 6.8.2.1, 6.8.2.5, 6.8.3.1, 6.8.3.5, 6.8.5.1 to 6.8.5.3 | Until further notice | |

NOTE: Publication of EN 12493:2013 +A1:[2014] is forecast for May 2014

Proposal 11

The report of the Tanks WG will show that, during its discussion of paper 2014/24, it confirmed its interpretation that standard 14398-2 shall not be used for tanks carrying LNG. Further, it agreed that the range of application of this standard should be made clearer by limiting its use to gases carried at -100 °C or above. The Tanks WG also confirmed that the 2008 amendment, which removed Table 1 of this standard, did not change it technically and the amended standard can be referenced with the normal transition period.

In the ADR, 6.8.2.6.1 Add, in the Table, under “For tanks for gases of Class 2”, after the entry for “EN 14398-2:2003” the following new reference and amend the existing reference as indicated below in bold letters:

| (1) | (2) | (3) | (4) | (5) |
|----------------------------------|---|---|---|-----|
| EN 14398-2:2003 (except Table 1) | Cryogenic vessels - Large transportable non-vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing NOTE: This standard shall not be used for those gases which are carried at temperatures below - 100 °C | 6.8.2.1 (with the exception of 6.8.2.1.17, 6.8.2.1.19 and 6.8.2.1.20), 6.8.2.4, 6.8.3.1 and 6.8.3.4 | Until further notice Between 1 January 2005 and 31 December 2016 | |
| EN 14398-2:2003+A2:2008 | Cryogenic vessels - Large transportable non-vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing NOTE: This standard shall not be used for those gases which are carried at temperatures below - 100 °C | 6.8.2.1 (with the exception of 6.8.2.1.19 and 6.8.2.1.20), 6.8.2.4, 6.8.3.1 and 6.8.3.4 | Until further notice | |

Proposal 12

The Tanks WG discussed paper 2014/30 and agreed to recommend the inclusion of a new special testing provision TT11 permitting the use of NDT in place of the hydraulic pressure test at periodic inspection of LPG dedicated tank vehicles. With this provision, the standard EN 14334:[2014], which includes requirements for such NDT testing, becomes compliant with the ADR.

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

| <i>Reference</i> | <i>Title of document</i> | <i>Applicable sub-sections and paragraphs</i> | <i>Applicable</i> |
|------------------|--|---|----------------------|
| 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 |

NOTE: Publication of EN 14334:[2014] is forecast for September 2014

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 is not referenced in RID/ADR/ADN, EN ISO 20346:[2014] replaces EN 346:1997, which is referenced in ADN 1.2.1 in the definition of “protective shoes”. Since the reference appears as “see for example European Standard EN 346:1997,” there is no need for a transition provision.

Proposal 13

In ADN, 1.2.1, Definition of “protective shoes” replace EN 346:1997 by EN ISO 20346:[2014].

NOTE: Publication of EN ISO 20346:[2014] is forecast for April 2014

Based on discussions about the questions raised related to INF 26:

Proposal 14

Amend the reference to EN ISO 11120:1999 as shown by bold text:

| <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 ISO 11120:1999 | Gas cylinders - Refillable seamless steel tubes for compressed gas transport, of water capacity between 150 l and 3000 l - Design construction and testing | | Between 1 July 2001 and 1 July 2015 | 31 December 2015 for tubes marked with the letter “H” in accordance with 6.2.2.7.4 (p). |

Proposal 15

Remove [] from EN 14025:[2013] in 6.8.2.6.1 and from EN ISO 7866 in P 200, (13), 1.3.
