



# Economic and Social Council

Distr.: General  
2 July 2010

Original: English

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## 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

Geneva, 13–17 September 2010

Item 3 of the provisional agenda

##### Standards

### Information on work in progress in CEN

#### Transmitted by the European Committee for Standardisation (CEN)<sup>1, 2</sup>

1. As agreed at the September 2005 session, the CEN consultant will advise the Joint Meeting of work in progress in CEN which will result in standards intended to be referenced in the RID/ADR/ADN.

#### I. New work items

2. With respect to CEN's work programme the Joint Meeting is invited to take note that the following new work items related to the transport of dangerous goods have officially been added to the programme of CEN/TC's 023 and 286 since the last session or have been agreed upon based on resolutions taken by these CEN Committees:

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<sup>1</sup> In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.7 (c)).

<sup>2</sup> Circulated by the Intergovernmental Organisation for International Carriage by Rail (OTIF) under the symbol OTIF/RID/RC/2010/51.

<i>Responsible standardizing body</i>	<i>Work item No.</i>	<i>Reference</i>	<i>Title</i>
CEN/TC 023	00023151	prEN ISO 14246	Transportable gas cylinders – Gas cylinder valves – Manufacturing tests and examinations
CEN/TC 023	00023153	prEN ISO 10286	Gas cylinders – Terminology
CEN/TC 023	00023154	EN 122445:2009+prA1	Transportable gas cylinders – Fully wrapped composite cylinders
CEN/TC 023	00023155		Multiple element gas containers (MEGC)
CEN/TC 023	00023156	CEN/TR 14473	Transportable gas cylinders – Porous masses for acetylene cylinders
CEN/TC 023	00023157	prEN ISO 11372	Gas cylinders – Acetylene cylinders – Filling conditions and filling inspection
CEN/TC 023	00023C15	EN 12245:2009 + prAC	Transportable gas cylinders – Fully wrapped composite cylinders
CEN/TC 286	0286120	EN 14427:2004 +prA2	LPG equipment and accessories - Transportable refillable composite cylinders for LPG – Design and construction
CEN/TC 286		EN 12493:2008 +prA1	LPG equipment and accessories – Welded steel tanks for liquefied petroleum gas (LPG) – Road tankers design and manufacture
CEN/TC 286	0286128	prEN 14129rev	LPG Equipment and accessories – Pressure relief valves for LPG tanks
CEN/TC 286		prEN 13776rev	LPG equipment and accessories – Filling and discharge procedures for LPG road tankers
CEN/TC 286		prEN 12252rev	LPG equipment and accessories – Equipping of LPG road tankers
CEN/TC 286		prEN 1440rev	LPG equipment and accessories – Periodic inspection of transportable refillable LPG cylinders

Some of these new work items are subject to approval by the members of CEN.

## II. Standard issues to be discussed

3. Applicable subsections and paragraphs and burst test requirement for service equipment.

4. The references in column “Applicable subsections and paragraphs” of the table in section 6.2.4 under “for closures” in the text of RID/ADR, to become effective 2011, appear to be inconsistent. Whereas the first 3 references indicate 6.2.3.3 as applicable, the other 4 are linked with 6.2.3.1.

**A. Burst pressure requirement**

5. The crucial point in this context is the wording of the requirement of 6.2.1.3.1 which reads

*6.2.1.3.1 Valves, piping and other fittings subjected to pressure, excluding pressure relief devices, shall be designed and constructed so that the burst pressure is at least 1.5 times the test pressure of the pressure receptacle.*

and which has been introduced only in 2009.

6. All of the standards referenced in the table under “for closures” comply with this requirement. However, the term “burst pressure” isn’t used. In difference, these standards use the term “hydraulic test”. The standards ask to perform a (design type) hydraulic test with a pressure of 1, 5 of the test pressure “without permanent deformation or rupture”. In case of EN 13152, 13153 the pressure is required to be 45 bars, which is 1, 5 of the maximum test pressure for LPG. Consequently, there is no need to restrict the lifetime of approvals based on to any of the referenced standards in this respect.

7. The wording “burst pressure” in context with valves seems misleading according experts experience, that it is not possible to burst valves housings. Typically, valves start to leak above a certain level which prevents further pressure increase. This why the wording “burst pressure” is proposed to be reconsidered.

8. As this requirement is part of the UN Model Regulations and to keep consistency with these it is proposed to move the issue to the UN Sub-Committee of Experts on the Transport of Dangerous Goods and add – for the time being- a Note to 6.2.1.3.1 to read:

“NOTE: A hydraulic pressure test with a pressure of 1, 5 of the test pressure without permanent deformation or rupture complies with this requirement”.

**B. Applicability of 6.2.3.1**

9. Valves are considered to come within the general heading of service equipment, but they are also described as closures in 6.2.1, which opens with the words “Pressure receptacles and their closures shall be designed ...” therefore there are requirements for valves in 6.2.3.1 which references 6.2.1. So it would be wrong to delete the reference to 6.2.3.1 but 6.2.3.3 should be added.

10. The reference to 6.2.3.1 in 2009 derives from the 2007 reference to 6.2.1.1 which was the correct reference since in 2007 there were no requirements for valves in 6.2.1.3. In 2009 a single requirement for the burst pressure of valves was added to 6.2.1.3. Therefore, in the CEN consultant’s opinion, the reference to 6.2.3.1 (and hence 6.2.1.1) is correct, but should be supplemented by 6.2.3.3 to pick up the burst pressure requirement. If 6.2.3.1 is deleted, the requirements for closures “to withstand all conditions, including fatigue...” and “contact with dissimilar metals shall be avoided” would be lost.

11. It is asked to amend the table of RID/ADR 6.2.4.1 under “for closures” as indicated in the following table (bold letters).

<i>Reference</i>	<i>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)
for closures				
EN 849:1996 (except Annex A)	Transportable gas cylinders – Cylinder valves: Specification and type testing		Before 1 July 2003	
EN 849:1996 + A2:2001	Transportable gas cylinders – Cylinder valves: Specification and type testing		Before 1 July 2007	
EN ISO 10297:2006	Transportable gas cylinders - Cylinder valves: Specification and type testing	6.2.3.1 6.2.3.3	Until further notice	
EN 13152:2001	Specifications and testing of LPG – cylinder valves – Self closing	6.2.3.1 6.2.3.3	Between 1 January 2005 and 31 December 2010	
EN 13152:2001 + A1:2003	Specifications and testing of LPG – cylinder valves – Self closing	6.2.3.1 6.2.3.3	Until further notice	
EN 13153:2001	Specifications and testing of LPG – cylinder valves – Manually operated	6.2.3.1 6.2.3.3	Between 1 January 2005 and 31 December 2010	
EN 13153:2001 + A1:2003	Specifications and testing of LPG – cylinder valves – Manually operated	6.2.3.1 6.2.3.3	Until further notice	

### III. New and amended references to standards

12. Since the last session of March 2010, draft standards were and will be made available for consultation by members of the Joint Meeting on the dedicated CEN webpage. These standards are at steps 2 and 3 of the approval process as to seen in the following tables.

13. It is noted that the discontent expressed by the Working Group on Standards during the last session about the form of EN ISO standards submitted to the delegates has not yet led to improvements. Consequently, draft EN ISO standards may still be dispatched, showing the layout of an ISO standard without EN cover sheet and European foreword. However, European Annexes may be included in the ISO document, not mentioned in the table of contents!

14. Members of the Joint Meeting may send their comments using the model reproduced in the annex hereto (English only) to the CEN consultant at karol\_wieser@yahoo.de before end of July 2010. All comments will be consolidated in a revision to this document which will be distributed again and be reviewed by the Joint Meeting Working Group on Standards during the September 2010 session.

## Annex

[English only]

### A. Standards at Stage 2: Submitted for Public Enquiry

Dispatched by CEN on 28.4.2010

<b>prEN 13922</b>	<b>Tanks for transport of dangerous goods – Service equipment for tanks – Overfill prevention systems for liquid fuels</b>	<b>Where to refer in RID/ADR/ADN: No reference recommended</b>	<b>Applicable sub-sections and paragraphs: None</b>		
<p>Assessed by CEN consultant on 26.3.2010</p> <p>Summary of conclusions:  <i>prEN 13922 can be promoted to the formal vote stage. A few improvements are recommended.  It is not considered to be a candidate for reference in RID/ADR/ADN.</i></p> <p>Proposed follow-up action:  <i>No action required, as this standard is not related to RID/ADR/ADN-requirements.</i></p>					
<b>Comments from members of the Joint Meeting:</b>					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
<b>prEN ISO/DIS 11118</b>	<b>Gas cylinders - Non-refillable metallic gas cylinders - Specification and test methods (ISO/DIS 11118:2009)</b>	<b>Where to refer in RID/ADR/ADN: 6.2.4.1</b>	<b>Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.4</b>		
<p>Assessed by CEN consultant on 22.4.2010</p> <p>Summary of conclusions:  <i>With respect to the concordance of the requirements on UN- pressure receptacles it is important to know that there are some non- compliances between prEN ISO 11118 and RID/ADR/ADN 2009, as amended and to become effective by 1.1.2011. These need to be removed.</i></p> <p><i>In addition, several deficiencies have been detected and need to be addressed for the formal vote version of the standard.</i></p> <p><i>The absence of a European Annex is questioned, given the fact that comparable EN ISO standards include European Annexes to take account of specific European practices and needs. A European Annex is proposed.</i></p> <p><i>Because of the number and significance of the shortcomings it is proposed to launch a second enquiry based on a new draft text.</i></p> <p><i>prEN ISO 11118 is considered to be a candidate to replace EN 12205:2001 in RID/ADR, once it has been accepted for reference by the Standards</i></p>					

<p><i>Working Group and has been approved.</i></p> <p>Proposed follow-up action:  <i>This standard needs to be discussed by the STD's WG for reference in RID/ADR 6.2.4.1, Table, under "for design and construction" and related to subsections 6.2.3.1 and 6.2.3.4.</i></p>					
<b>Comments from members of the Joint Meeting:</b>					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards

**B. Standards at Stage 3: Submitted for Formal vote**

Dispatched by CEN on 3.6.2010

<b>FprEN ISO DIS 13341</b>	<b>Transportable gas cylinders – Fitting of valves to gas cylinders</b>	<b>Where to refer in RID/ADR/ADN: No reference recommended</b>	<b>Applicable sub-sections and paragraphs: None</b>		
<p>Assessed by CEN consultant on 27.5.2010</p> <p>Summary of conclusions:  <i>FprEN ISO 13341 can be approved. A few editorial improvements are recommended.  It is not considered to be a candidate for reference in RID/ADR/ADN.  There is seen no need to have European modifications.</i></p> <p>Proposed follow-up action:  <i>No action required, as this standard is no candidate for reference in RID/ADR/ADN.</i></p>					
<b>Comments from members of the Joint Meeting:</b>					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards

Decision of the STD's WG:	Accepted Refused Postponed	Comments	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
			Old edition	Between 1 January XXXX and 31 December XXXX	31 December XXX
			New edition	Until further notice	

To be dispatched by CEN (dispatched on 28.4.2010 but withdrawn on 27.5.2010 to improve quality of dispatch)

<b>FprEN ISO 7866:2009</b>	<b>prEN ISO 7866 - Gas cylinders – refillable seamless aluminium alloy gas cylinders (ISO/DIS 7866:2007)</b>	<b>Where to refer in RID/ADR/ADN: 6.2.4.1</b>	<b>Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.4</b>		
<p>Assessed by CEN consultant on 27.4.2010</p> <p>Summary of conclusions:</p> <p><i>There are no non-compliances between prEN ISO 7866 and RID/ADR/ADN 2009, as amended and to become effective by 1.1.2011.</i></p> <p><i>Comments by the Standards Working Group and of my assessment of the enquiry draft text have been considered to some extent. Some of them have not been addressed adequately. Consequently, a series of editorial improvements are required prior to publication – see 3.3 and the Annex to this assessment, using the e-balloting commenting template.</i></p> <p><i>A European Annex is required in line with other EN ISO standards on the design and construction of transportable pressure receptacles.</i></p> <p><i>The necessary amendments are considered as editorial.</i></p> <p><i>This standard is a candidate for reference in RID/ADR, section 6.2.4 for non-UN pressure receptacles. It is assumed that the existing reference in RID/ADR section 6.2.2 for UN- pressure receptacles will be updated.</i></p> <p>Proposed follow-up action:</p> <p><i>This standard needs to be discussed by the STD's WG for reference in RID/ADR 6.2.4.1, Table, under “for design and construction” and related to subsections 6.2.3.1 and 6.2.3.4.</i></p>					
<b>Comments from members of the Joint Meeting:</b>					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards



<b>Decision of the STD's WG:</b>	Accepted	Comments	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
	Refused		Old edition	Between 1 January XXXC and 31 December XXXX	31 December XXXX
	Postponed		New edition	Until further notice	

Dispatched by CEN on .9.11.2009

<b>FprEN 12245:2009 +prA1:2010</b>	<b>Transportable gas cylinders – Fully wrapped composite cylinders</b>	<b>Where to refer in RID/ADR/ADN: 6.2.4.1</b>	<b>Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.4</b>
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Assessed by CEN consultant on 29.4.2010

Summary of conclusions:

*The proposed amendments have no influence on the concordance with the provisions of RID/ADR and clauses of the standard.*

*This amendment had been triggered by the Joint Meeting Working Group on Standards which postponed the adoption of the 2009 version of the standard for reference in RID/ADR due to an insufficient solution of the marking regulations.*

*The amendment ignores these comments. This is why the proposed text of the amendment is not supported.*

*Minor deficiencies should also be addressed in a second draft of the amendment.*

*EN 12245:2009 +A1, once a new draft is agreed is a candidate for reference in RID/ADR, section 6.2.4 for non-UN pressure receptacles as a replacement to the existing reference to EN 12245:2002.*

Proposed follow-up action:

*It is expected that a second draft amendment is launched and is made available to the members of the Joint Meeting to discuss a reference of EN 12245:2009+A1 in RID/ADR during one of the next meetings.*

**Comments from members of the Joint Meeting:**

Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards

<b>Decision of the STD's WG:</b>	Accepted Refused Postponed	Comments	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
			Old edition	Between 1 January XXXX and 31 December XXXX	31 December XXXX
			New edition	Until further notice	

To be dispatched by CEN

<b>FprEN 14638-3</b>	<b>Transportable gas cylinders – Refillable welded receptacles of a capacity not exceeding 150 litres – Part 3: Welded carbon steel cylinders made to a design justified by experimental methods</b>		<b>Where to refer in RID/ADR/ADN: 6.2.4.1</b>	<b>Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.4</b>	
<p>Assessed of first final draft by CEN consultant on 10.2.2010</p> <p>Summary of conclusions:</p> <p><i>There are no non-compliances between FprEN 14638-3 and RID/ADR/ADN 2009, as amended and to become effective by 1.1.2011. Comments by the Standards Working Group and of my assessment of the second enquiry draft text of the standard - both considered as of editorial nature - have not been addressed adequately. Consequently, a series of editorial corrections are required prior to publication – see 3.3 and 3.4 and the Annex to this assessment.</i></p> <p><i>EN 14638-3 is proposed for reference in RID/ADR 6.2.4.1, Table, under “for design and construction related to subsections 6.2.3.1 and 6.2.3.4.</i></p> <p>Proposed follow-up action:</p> <p><i>This standard needs to be discussed by the STD's WG for reference in RID/ADR 6.2.4.1, Table, under “for design and construction” and related to subsections 6.2.3.1 and 6.2.3.4.</i></p> <p>Assessment of second final draft to come.</p>					
<b>Comments from members of the Joint Meeting:</b>					
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
<b>Decision of the STD's WG:</b>	Accepted Refused Postponed	Comments	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
			Old edition	Between 1 January XXXC and 31 December XXXX	31 December XXX
			New edition	Until further notice	