

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, 11-21 September 2007

Agenda item 3

STANDARDS

Information on work in progress in CEN

Transmitted by the European Committee for Standardisation (CEN)

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.

Since the last session of March 2007, CEN has issued to all ADR/RID members four dispatches of standards to be consulted on the dedicated CEN webpage. All of these standards are at Step 3 of the approval process. ADR/RID members were invited to send comments according to the model in Appendix (English only) to the CEN consultant at [karol.wieser@yahoo.de](mailto:karol.wieser@yahoo.de) before mid-August. The CEN consultant has consolidated all comments in the Annex to this document that will be reviewed by the Joint Meeting working group on standards that will meet at lunch breaks during the Joint Meeting session of September 2007.

With respect to item prEN ISO FDIS 23667 (IBC compatibility testing) reference is made to document [INF. 50](#), "Proposed decision in principle on the allocation of compatibility test requirements to ADR/RID and/ or standards", to be found on internet under <http://www.unece.org/trans/doc/2007/wp15ac1/ECE-TRANS-WP15-AC1-07-BE-inf50e.doc> prepared by the working group on standards during the Joint Meeting in March 2007. Because of the envisaged merger with **EN ISO 16101:2004**, the plastics packaging compatibility test standard, it will be necessary to look at this standard as well, which was part of CEN's Dispatch 3 for the March session 2003.

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**B. Standards at Stage 3: Submitted for Final Voting**

**1. Dispatch from CEN dated 11.04.2007**

<a href="#">EN 1439:2005 rev</a>		LPG equipment and accessories - Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) - Procedure for checking before, during and after filling		Where to refer in ADR/RID: P200(7), (10)ta	Applicable sub-sections and paragraphs:
CEN consultants <a href="#">assessment</a> dated 9.4.2007					
<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
UK	3.6	Disagree with the recommendation of the CEN Consultant that a definition of composite cylinder is required to assist understanding of the definition of casing. EN 14427:2004 on composite cylinders is a normative reference and the term is well understood by likely readers of this standard and of the RID/ADR.	none	“Composite cylinders” can either be understood as cylinders made from composite materials or cylinders, composed from cylinder and outer casing, i.e. protected cylinders	
UK	General	Other comments by the CEN Consultant are supported.			
UK	General	The reference will need to exclude protected cylinders.	Add a Note <i>Note: Carriage of protected cylinders as defined in this standard is prohibited in ADR/RID.</i>	The introduction of requirements on protected cylinders in the ADR/RID could be the better alternative to cover its use in some countries.	
CH	General	The standards EN 14794 / 14763 / 14913 mentioned in the introduction of the Consultant’s assessment are not for periodic testing but for test during filling procedure		Correct; however, the statements of the assessments are not touched by this incorrect nomination.	
CH	3.51	Protected cylinders are not part of the ADR	Exception to be mentioned in the standard table	Correct; but they are used in some ADR/RID countries.	
CH	3.15	tara weight	Tara mass?	Support the use of SI-units throughout all standards; in this case “tare mass”.	
<b>Decision of the STD’s Working Group:</b>		Accepted <input type="checkbox"/> Refused <input type="checkbox"/>		<b>Comments:</b>	

<a href="#">EN 1440:2005 rev</a>		LPG equipment and accessories - Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) - Periodic requalification		Where to refer in ADR/RID: P200(10), 6.2.1.6.1	Applicable sub-sections and paragraphs:
CEN consultants <a href="#">assessment</a> dated 9.4.2007					
<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
UK	General	The reference will need to exclude protected cylinders.	Add a Note <i>Note: Carriage of protected cylinders as defined in this standard is prohibited in ADR/RID.</i>	The introduction of requirements on protected cylinders in the ADR/RID could be the better alternative to cover its use in some countries.	
UK	4	What is the content of a written scheme? No explanation, guidance or definition is given.		Would support an amendment such as "...written scheme, describing responsibilities, works procedures, criteria, etc."	
UK	4	The standard should clarify that 10 years between periodic inspections is a maximum interval.	Second sentence to start "The maximum interval between periodic inspections . . . ." In the third sentence replace "period" by "maximum interval".	Agree	
UK	5.1; Table 1	The proposed inspection elements for steel cylinders do not conform to RID/ADR which requires both an internal inspection and a hydraulic or pneumatic proof pressure test.	Either the standard to require all tests in RID/ADR or a submission made to the Joint Meeting for a change to 6.2.1.6	Agree	
UK	5.3.3.1.1	RID/ADR requires internal inspection on ALL cylinders.	Rewrite this clause accordingly to make it applicable to all cylinders.	Agree	
UK	5.3.5	Note 3 of 6.2.1.6 of RID/ADR allows the replacement of the hydraulic pressure test by a test of equivalent safety. There is no justification provided to show that a leak test at 6 bar achieves the same safety as a test at the test pressure.	Provide a justification or seek a modification of Note 3 of 6.2.1.6 of RID/ADR to specifically allow this test.	Agree	
CH	General	Protected cylinders are not part of the ADR	Exception to be mentioned in the standard table  If this should be part of the ADR a proposal by the LPG industry should be sent to the joint meeting and the problem of the re-testing has to be solved	Correct; but they are used in some ADR/RID countries.  Support proposal to encompass current practise.	

CH	5.1	A hydraulic test is mandatory! It could be replaced by a test with gas as suggested in 5.3.4.2.1	This point already been discussed several times and is still ignored by CEN!	Agree, that replacement of the hydraulic test by visual internal inspection as in 5.1 with ref. to 5.3.(3) is not covered by ADR/RID.	
CH	5.3.2.4	The test pressure should not be higher than the marked test pressure. P200 is not for design and testing but for packing and gives the minimum test pressure for a receptacle for a certain gas	Exclude d)	Disagree. P200 is also on periodic inspections and specifies MINIMUM test pressures. 5.3.2.4.d), deals with test pressures <u>above</u> the required minimum test pressure and does not contradict ADR/RID. The adequacy of the proviso in the last para. of d)“...a competent person shall...” may be discussed.	
CH	5.3.3.1.1	The minimum calculated wall thickness is not usable as this is no longer marked on LPC receptacles	delete	Support discussion of the user-friendliness	
CH	Annex B	It is not possible for an inspection body to find out to which standard a steel cylinder is manufactured.	Delete B and use the same criteria as in Annex A	Should be answered by industry.	
<b>Decision of the STD's Working Group:</b>		Accepted <input type="checkbox"/> Refused <input type="checkbox"/>		<b>Comments:</b>	

2. Dispatch from CEN dated 18.04.2007

<a href="#">prEN ISO 23667</a>		<b>Packaging – Transport packaging for dangerous goods – Rigid plastics and plastics composite IBCs - Compatibility testing /ISO/FDIS 23667:2007</b>		Where to refer in ADR/RID: <b>4.1.1.19, 6.1.6, 6.5.6.3 – 6.5.6.9</b>	Applicable sub-sections and paragraphs:
<b>CEN consultants <a href="#">assessment</a> dated 12.2.2007</b>					
<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
CH		Referring to ECE/TRANS/WP.15/AC/2007/12 and INF.50 (March 2007) a merger of the two standards EN ISO 16101 and prEN ISO 23667 should be discussed but neither of the standards were available to the delegates. For this purpose the CEN consultant should inform if there are differences between the prEN ISO 16101fv (2002-08) and the actual standard.(Sept 2004)	The two standards should be merged as they are equal with the exception of a very few specific items which also could be incorporated in one standard. This procedure would also allow the correction of the differences between the standards and also between the directives as mentioned by the CEN consultant.	Supported. However, further decisions should be prepared, such as: Shall - the design type test requirements, as in ADR/RID 6.1.5 and 6.5.4, - the specification of the standard liquids, - the assimilation procedure, - the assimilation list be repeated in the (merged) standard? For information: prEN ISO 16101fv (2002-08) is sufficiently identical with the published version, as to prepare a sound recommendation on the future of this standard and EN ISO 23667, which was dispatched in FDIS version (see above).	
<b>Decision of the STD's Working Group:</b>		Accepted <input type="checkbox"/> Refused <input type="checkbox"/>		<b>Comments:</b>	

**3. Dispatch from CEN dated 01.06.2007**

<a href="#">EN 12493:2001 rev</a>		<b>LPG equipment and accessories - Welded steel tanks for liquefied petroleum gas (LPG) - Road tankers - Design and manufacture</b>	Where to refer in ADR/RID: <b>1.2.1, 6.8.1,, 6.8.2.1, 6.8.3.4.9, 6.8.2.5, 6.8.3.1, 6.8.3.5, 6.8.5.1 – 6.8.5.3</b>	Applicable sub-sections and paragraphs:	
<b>CEN consultants <a href="#">assessment</a> dated 28.5.2007</b>					
<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
D	Annex D	In general, one main aim of a revision should be to bring the standard in line with ADR requirements. It is not user-friendly to have furthermore non-compliances with ADR in the basis of a tank standard (calculation of minimum wall thickness).	Change the calculation in compliance with ADR	Earlier critics on this point led to the NOTE under D.2.1, introducing a correlation factor of 1,2 to determine the design pressure to be used.	
D	10.8	“Pressure test”. There is a special standard (EN 12972) for testing and inspection of metallic tanks in ADR. EN 12493 is not an inspection and testing standard in the sense of e.g. initial inspection of tanks according to ADR (done by an inspection body for approval).	Delete “6.8.2.4.1” in the applicable sub-sections and paragraphs in the reference of EN 12493 in 6.8.2.6 ADR	Disagree. The tests described in 6.8.2.4.1 are seen as manufacturing tests to be performed after the design type has already been approved (see first indent “...conformity to the APPROVED type”.	
UK	5.2	Surge plates spaced at 4 metres do not meet the requirement of ADR 4.3.2.2.4 for 7,500 litres enclosed volume when the diameter is between 1.54m and 1.8m so tanks cannot be used part filled.	Make the volume enclosed by surge plates 7,500 litres max. for all tanks (assuming the proposals from the March 2007 meeting of the Tanks Working Group are confirmed)	Agree.	
UK	General	Agree Consultant’s assessment			
CH	General	As suggested by the Consultant the change of the entry in ADR should be postponed until a revised version is accepted by the standard working group			
<b>Decision of the STD’s Working Group:</b>		Accepted <input type="checkbox"/> Refused <input type="checkbox"/>		<b>Comments:</b>	

<a href="#">EN 1442:2006+ prA1</a>		<b>Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) - Design and construction</b>		Where to refer in ADR/RID: <b>6.2.1.1.1, 6.2.1.5.1, P200(3-4), 6.2.1.7</b>	Applicable sub-sections and paragraphs:
<b>CEN consultants <a href="#">assessment</a> dated 27.4.2007</b>					
<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
UK		No comments			
CH	general	There is a new version of prEN 1442A1 (August 2007) which has not been distributed to the delegates		EN 1442:2006+A1 is the same then version of prEN 1442A1 (August 2007) which has been distributed to the delegates in its draft version as usual before the FV launching (see dispatch 3 – 2007-09 session).	
CH		<a href="#">EN 1442:2006</a> is not available	prEN 1442/A1 has to be judged together with the whole standard	EN 1442:2006 was made available before the launching of the FV as usual already at the occasion of the 2006-03 session – see dispatch 2	
CH	9.5	of EN 1442:2006 if cylinders are heat treated, <b>the heat treatment shall be repeated</b> after weld repair	amend standard	Valuable technical point; should be resolved.	
CH	10	Note should read: Marking in accordance with EN 14894 <b>must</b> comply with the requirements...	amend	Disagree; such wording would be inadequate for NOTES.	
CH	Table A.1	The marking of Butane or Mixture A must be placed out of the range of the RID/ADR Marking (and should be connected with the appropriate UN number)	amend	Disagree; ADR/RID 6.2.1.7.5 requires that other marks shall not conflict with required marking and its placement without negative consequences on stress situation. Separation from required marking is not part of ADR/RID.	
<b>Decision of the STD's Working Group:</b>		Accepted <input type="checkbox"/> Refused <input type="checkbox"/>		<b>Comments:</b>	

**4. Dispatch from CEN dated 02.07.2007**

<a href="#">EN 12252:2005</a> <a href="#">+prA1:2007</a>		<b>LPG equipment and accessories – Equipping of LPG road tankers</b>		Where to refer in ADR/RID:	Applicable sub-sections and paragraphs:
CEN consultants <a href="#">assessment</a> dated 29.6.2007					
<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
CH		Latest issue of EN 12252 was not made available to the delegates!		The latest issue of EN 12252 was not made available to the delegates. As agreed, standards in published form are not made available to delegates, as a principle. However, the version prior launching of the FV was dispatched at the occasion of the 2005-09 meeting (dispatch 1).	
D	A1	A standard for equipment and accessories should contain the set pressure of possible safety valves. A deletion of the set pressure is not user-friendly.	Add the right set pressure of ADR (between 0.9 and 1.0 times the test pressure of the tank)	Would support the addition of set pressures compliant with ADR/RID.	
D	6.1.3.3 b)	Filling to vapour phase - At the last joint meeting a new decision/clarification was adopted (Inf. 16 B). 6.8.3.2.3 ADR All filling and all discharge openings of tanks ..... <b>A non-return valve does not fulfil the provisions of this paragraph.</b> 6.1.3.3 b) of EN 12252 is not in line with ADR.	Delete b) and add in a) Discharge/filling to liquid <b>and vapour</b> phase	An adequate clause should be added to A1 to align EN 12252:2005 with ADR/RID 2009	
UK	2	Reference to clause 9.6 – this clause does not exist	change to 9.2.6	Disagree. 9.6 of EN 12252:2005 deal with the leak test, which is altered by A1, clause 2.	



UK	2	Proposed wording in clause 9.2.6 does not specify the pressure of the leakproofness test – it is only specified for gas free testing.	insert after the word ‘shall’ the following “be not less than 20% of the test pressure and shall be”	Comment seems to refer to an earlier draft; the published text o EN 12252 specifies minimum pressures for both, tank in gas free condition and in gas service.	
CH	9.6	The last sentence does not specify the minimum leakproofness test pressure as specified in ADR 6.8.3.4.9	The original sentence should be kept with the addition of the word “using “ after test pressure		
<b>Decision of the STD’s Working Group:</b>		Accepted <input type="checkbox"/> Refused <input type="checkbox"/>		<b>Comments:</b>	