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
Bern, 12–16 March 2018
Item 3 of the provisional agenda
Standards

14 March 2018

Information on work in progress in CEN

Transmitted by the European Committee for Standardisation (CEN)

Introduction

1. Following the cooperation agreement between CEN/CENELEC and the Joint Meeting (see ECE/TRANS/WP.15/AC.1/122/Add.2, as amended by ECE/TRANS/WP.15/AC.1/130/Annex III), the New Approach 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.

New CEN Enquiry procedure - 3 Month enquiry with weighted vote and optional formal vote for CEN home-grown projects

2. With respect to the changes procedures to expedite the preparation of CEN deliverable described in paper 2017/32, CEN is not yet ready to propose consequential changes to the agreements laid down in the documents mentioned in paragraph 1. However the changes on the procedure are minor and can be tackled by the JM STD Working Group without difficulties.

Activities during the last semester

3. CEN had prepared 2 dispatches which include assessments of the drafts. A Dispatch 3 could also be made available in February 2018 containing General Purpose Standards.

New work items

- 4. 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 been decided to be added to the programme of CEN/TC's 23, 268, 286 and 296. It has been decided to review additional CEN standards which are already referenced in RID/ADR/ADN. Not all of them are considered candidates for reference in these regulations.
- 5. The members of the Joint Meeting are invited to advise their experts to take part in the drafting and revision process of these work items via their national standardization bodies.

Table of new CEN work items related to provisions of RID/ADR/ADN

Responsible standardizing body	Work item No.	Reference	Title
CEN/TC 23	00023205	prEN ISO 10460	Gas cylinders - Welded aluminium-alloy, carbon and stainless steel gas cylinders - Periodic inspection and testing (ISO/DIS 10460:2017)
CEN/TC 296	00296100	prEN 13922 rev	Tanks for transport of dangerous goods - Service equipment for tanks - Overfill prevention systems for liquid fuels

New and amended references to standards

- 6. Since the session of September 2017, draft standards have reached the enquiry and Formal vote stage and have even be published. They have been made available for consultation by members of the Joint Meeting on the dedicated CEN webpage (Dispatch 1 to 2).
- 7. Members of the Joint Meeting have already been invited to provide their comments on the documents listed in Dispatch 1. They still have the time to provide their comments to the CEN Consultant (david.teasdale@btinternet.com) on Dispatch 2 before 15 February 2018. It is foreseen to organize ad hoc web-conferences in order to review those comments second half of February 2018 (calendar of dates still to be defined with JM Working Group on Standards). All comments will be consolidated in a separate document and be provided to the Joint Meeting.

A. Standards at Stage 2: Submitted for Public Enquiry

Dispatch 1

EN 14071_2015_prA1 2017 WI 00286136		LPG equipment and accessories - Pressure relief valves for LPG tanks – Ancillary equipment	Where to refer in RID/ADR: 6.2.4.1? 6.8.2.6.1 for equipment	Applicable sub-sections and paragraphs: 6.2.16.3 NEW STANDARD		
Positive :	assessment b	y CEN Consultant provided				
Commen	nts from me	mbers of the Joint Meeting:				
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards	
UK 1	General	We cannot review this amendment's suitability for referencing since it only gives a few sentences and we need to see the whole text, i.e. the 2015 standard				
UK 2	Scope	Also, I happen to have a copy of this 2015 standard, so I can see from its scope that is for valves on static equipment. It is therefore not suitable for referencing in RID/ADR?	Do we need to spend time considering this standard in the Standards WG?		CEN/TC 286 to confirm this is aimed to become a TDG STD	
					NOT for TDG	

prEN 13175_2017 WI 00286183	LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings	Where to refer in RID/ADR: 6.2.4.1 for closures and 6.8.2.6.1 for equipment	Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.3 and 6.8.2.1, 6.8.2.2.and 6.8.2.4.1, 6.8.3.2.3
Negative assessment	by CEN Consultant provided		

Comments from members	of	the	Joint	Meeting:
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Note: we	need to disc	uss in the Standards WG if it should also be also referen	ced in 6.2.4.1		
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
DE		The comments from the CEN consultant seems to be related to PED only. Knowing that there was another assessment related to ADR, we fully support the comments given in this assessment.			
DT		TDG Comments added DT 17/02/2018			
DT 1	4.4	Valves and fittings shall be designed for a maximum allowable pressure of 25 bar. RID/ADR P200 UN 1965 Mixture C has a Test Pressure of 30 bar. RID/ADR (tanks) 4.3.3.2.5 has a test pressure for UN 1965 Mixture C has a Test Pressure of 27 bar. RID/ADR for design uses the 'test pressure' rather than the maximum allowable pressure, (PED) term for clarity this should be included in the definitions.	Clarify the maximum allowable pressure for all the mixtures in UN 1965.		
DT 2	6.1.5	For mobile applications, the valves and fittings shall be capable of withstanding a deceleration of 100 times gravity in the X, Y and Z axis and shall remain leak tight. The requirement for tanks in RID/ADR e.g. 6.8.2.1.2 has loading requirements for design.	Clarify the requirement '100 times gravity' equates to a design load.		
DT		PED Comments Deleted DT 17/02/2018			[CII]
DT-1	3.1.2 Definitions. (ge)	pressure vessel assembly of the pressure envelope (including the openings and their closures) and non-pressure-retaining parts attached directly to it. The PED Article 2 defines 'pressure equipment' and 'vessel' there is no definition for pressure vessel.	The definition in Article 2 should be used for vessel.		
DT 2	7.3.1 General (ge)	Ball valves shall be in accordance with EN 1983 or EN 13547. Only dated references should be referenced.	The references should be dated as per those		

			in the list of Normative References.	
DT 3	7.13.1 Pressure gauge (ge)	7.13.1 The pressure gauge shall conform to the appropriate requirements of this European Standard and to EN 837-1 and shall be resistant to the effects of the weather	The reference should be dated as per those in the list of Normative References.	
DT 4	7.13.3 Pressure gauge (ge)	7.13.3 The accuracy shall be in accordance with the requirements of EN 837-1, with a minimum Class 2,5.	The reference should be dated as per those in the list of Normative References	
DT 5	Annex ZA 2.1 (ge)	8.2 8.3 8.4 8.6 8.9 8.10 8.11 2.1. General The pressure equipment shall be properly designed taking all relevant factors into account in order to ensure that the equipment will be safe throughout its intended life. The design shall incorporate appropriate safety coefficients using comprehensive methods which are known to incorporate adequate safety margins against all relevant failure modes in a consistent manner. The requirement of 2.1 (first paragraph) is very general it is difficult to ascertain compliance with this very general requirement. There is also clause e.g. 8.4 for example where it would be difficult to demonstrate even the very general conformity with 2.1.	These clauses of the standard should be aligned with more applicable requirements of the directive so conformity can be assessed.	
DT 6	Annex ZA 2.2.1 (ge)	Clause 6 excluding 6.1.5, 6.1.6, 6.1.8 and 6.1.11 2.2.1. The pressure equipment shall be designed for loadings appropriate to its intended use and other reasonably foreseeable operating conditions. In particular, the following factors shall be taken into account: 6.1.2 It is unclear how this requirement meets the requirements for the elements of similar in 2.2.1 this concerns the function of the valve. 6.1.3 It is unclear how this requirement meets the	Exclude 6.1.2 or clarify the requirement.	
		requirements for the elements of similar in 2.2.1 this concerns the function of the valve.	clarify the requirement	

		6.1.4 As this is a 'transportation' requirement it is not appropriate to PED type equipment. 6.1.9 It is unclear how this requirement meets the requirements for the elements of similar in 2.2.1 this concerns the function of the valve.	Exclude 6.1.4 or clarify the requirement Exclude 6.1.9 or clarify the requirement	
DT 7	Annex ZA 2.2.1 (ge)	Clause 7 2.2.1. The pressure equipment shall be designed for loadings appropriate to its intended use and other reasonably foreseeable operating conditions. In particular, the following factors shall be taken into account: A lot of the requirements in the sub clauses in Clause 7 deal with functionality of the pressure accessories and in themselves are not loadings. Therefore, Clause 7 should not be referenced in its entirety.	Review all the sub clauses in Clause 7 for conformity with the requirements of 2.2.1 only the elements that are in conformity with 2.2.1 should be included.	
DT 8	Annex ZA 2.2.1 (ge)	8.9 Clause 8.9 contains elements that are not in conformity with the 2.2.1 criteria.	It should be confirmed which elements of 8.9 deal with the requirements of 2.2.1 designed for adequate strength rather than the functioning of the valve for its use.	
DT-9	Annex ZA 2.3 (ge)	Clause 6 excluding 6.1.5, 6.1.6, 6.1.8 and 6.1.11 2.3. Provisions to ensure safe handling and operation The method of operation specified for pressure equipment shall be such as to preclude any reasonably foreseeable risk in operation of the equipment. Particular attention shall be paid, where appropriate, to: 6.1.1, 6.1.2, 6.1.4,6.1.7,6.1.9,6.1.10,	It is unclear as to how these sub clauses meet the requirements of 2.3 – these should be reviewed.	

DT 10	Annex ZA	Clause-7		
	2.3	2.3. Provisions to ensure safe handling and operation		
	(ge)	The method of operation specified for pressure equipment shall be such as to preclude any reasonably foreseeable risk in operation of the equipment. Particular attention shall be paid, where appropriate, to: A lot of the requirements in the sub clauses in Clause 7 deal with functionality of the pressure accessories and in themselves are not concerned with safe handling and operation. Therefore, Clause 7 should not be referenced in its entirety.	Review all the sub clauses in Clause 7 for conformity with the requirements of 2.3 only the elements that are in conformity with 2.3 should be included.	
DT-11	Annex ZA 3.3 (ge)	Clause 10 Details some items and then in a Note. NOTE 1 Where marking is regulated by PED [4], this takes precedence over any clause in this European Standard. The PED [4] includes additional marking requirements, e.g. CE-marking. Effectively referring back to the PED, with which the accessory has to comply.	Either detail the marking requirements in the PED for these accessories and delete the note, or delete 3.3.	
UK1	General	Apart from the lack of correspondence between dated and undated references, the Consultant's negative assessment seems to relate only to the PED, not RID/ADR. Is this correct?		PED assessment deleted and TDG assessment added
UK2	General	I support adding this as a reference in 6.2.4.1 for valves fitted to e.g. pressure drums. However, it should be noted that this standard addresses the requirements of 6.8 of RID/ADR and does not address the valve protection requirements of 4.1.6.8. DE: We fully agree, such valves, if used for pressure drums have to be used with a valve protection (e.g. shroud) according to 4.1.6.8 ADR.		

	8.5.9 and 8.9.5	endurance test pressure of 12 bar and a tightness test pressure of 25 bar. Both test pressures shall be raised	Change test pressures to 30 bar.	
		to 30 bar.		

prEN 14025_2017 WI 00296094		Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction	Where to refer in RID/ADR: 6.8.2.6.1	Applicable sub-sections and paragraphs: 6.6.2.1 and 6.8.3.1	
Assessme	ent by CEN (Consultant provided			
Commer	nts from mei	mbers of the Joint Meeting:			
Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
UK	General	No Comment			
DE	Annex B	Annex B is an informative part of the standard. The explosion pressure shock resistant design is not obligatory according to RID/ADR. In 5.1 - 3) of the standard the manufacturer can choose (or not) an explosion pressure shock resistant design if required. Annex B should be the basis for the design if an explosion shock resistant design is chosen. Insofar the Annex B should be normative in our opinion.	Change Annex B from "informative" to "normative		Agree on the principle

prEN ISO DIS 14245_2017 WI 00286168	Gas cylinders - Specifications and testing of LPG cylinder valves - Self-closing	Where to refer in RID/ADR: 6.2.4.1 for equipment P200 (12) 3.4, 4.1.6.15	Applicable sub-sections and paragraphs: 4.1.6.8, 6.2.3.1 and 6.2.3.3	
Assessment by CEN Consultant provided [No Comments] Comments from members of the Joint Meeting:				

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Country	Clause No.	. Comment (justification for change)		Proposed change	Comment from CEN Consultant	Comment from WG Standards
UK	General	No Comme	nt			
DE	5.11.1	valve opera also cover r the enduran	test pressure for the tightness test for the ting mechanism was raised to 30 bar to nixture C, we don't agree to maintain it for the test for the valve operating mechanism the endurance test pressure shall also be bar.	Change endurance test pressure to 30 bar.		
DE	5.16.1		equirement as given above does also apply ance test pressure for testing the non-	Change endurance test pressure to 30 bar.		
DE	Annex B	normal tem	ss test pressure for tightness testing at perature range was raised to 30 bar. For perature test the same test pressure shall	Change tightness test pressure to 30 bar.		
Decision STD's W		Accepted Refused Postponed	Comments Still at enquiry stage; technical improvement to be carried out.	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
				EN ISO 14245:2010	Between 1 January 2013 and 31 December 2020	
				EN ISO 14245:[2018]	Until further notice	

FprEN ISO DIS 15995_2017 WI 00286169	Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated	Where to refer in RID/ADR: 6.2.4.1 for equipment P200 (12) 3.4, 4.1.6.15	Applicable sub-sections and paragraphs: 4.1.6.8, 6.2.3.1 and 6.2.3.3						
Assessment by CEN	Assessment by CEN Consultant provided [No Comments]								
Comments from members of the Joint Meeting:									

Country	Clause No.	Comment (justification for change)		Proposed change	Comment from CEN Consultant	Comment from WG Standards
UK	General	No Comme	nt			
DE	5.13.1	valve opera also cover r the enduran	test pressure for the tightness test for the ting mechanism was raised to 30 bar to nixture C, we don't agree to maintain it for ce test for the valve operating mechanism he endurance test pressure shall also be bar.	Change endurance test pressure to 30 bar.		
DE	5.16.1		equirement as given above does also apply rance test pressure for testing the non-	Change endurance test pressure to 30 bar.		
DE	Annex C	normal tem	ss test pressure for tightness testing at perature range was raised to 30 bar. For perature test the same test pressure shall	Change tightness test pressure to 30 bar.		
Decision STD's V		Accepted Refused Postponed	Comments Still at enquiry stage; technical improvement to be carried out.	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
				EN ISO 15995:2010	Between 1 January 2013 and 31 December 2020	
				EN ISO 15595:[2018]	Until further notice	

B. Standards at Stage 3 or 4: Submitted for Formal vote or Published

FprEN 12807_2017 WI 00286173	LPG equipment and accessories - Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) - Design and construction	Where to refer in RID/ADR 6.2.4.1	Applicable sub-sections and paragraphs: 6.2.3.1. and 6.2.3.4					
Negative assessment	by CEN Consultant provided.							
Enquiry draft not disc	Enquiry draft not discussed by STD's WG							

Countr	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
DT 1	9.6.2 (Gen)	9.6.2 Every cylinder brazed since the preceding acceptable ultrasonic or macro examination shall be set aside until it is demonstrated that these cylinders are satisfactory either by ultrasonic or macro examination or other appropriate means. Clarify what is meant by other appropriate means, as this would need to be approved by the Type test as only ultrasonic and macro are currently referenced and	Delete or other appropriate means		
DT 2	9 Production testing and examinatio n requiremen ts (Gen)	accepted. The requirement for Production tests in the standard are equivalent to the Initial inspection and tests of ADR/RID for which there are a number of requirements. 6.2.1.5.1 On an adequate sample of pressure receptacles: (a) Testing of the mechanical characteristics of the material of construction; (b) Verification of the minimum wall thickness; (c) Verification of the homogeneity of the material for each manufacturing batch; (d) Inspection of the external and internal conditions of the pressure receptacles; (e) Inspection of the neck threads; (f) Verification of the conformance with the design standard; It could be considered that (a) and (c) are considered by the production tests however it should be clarified how (b) (d) (e) and (f) are.			
UK 1	General	I do not read the Consultant's assessment as being positive. In particular, clause 9 is insufficient			
UK 2	Clause 9	I support the observations of the Consultant. It should be noted that Clause 9 of the standard is identical to			

	Clause 9 in 6.2.4.1.	the 2008 version which is referenced in			
Decision of the STD's WG:	Accepted Refused Postponed	Comments A second formal vote is needed on the version of the standard which has already been accepted by the CEN Consultant as answering his comments.	Proposed transition regulation EN 12807:2008 EN 12807:[2018]	* *	Latest date for withdrawal of existing type approvals

FprEN ISO/FDIS 21028-2:2018 WI 00268063		Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 2: Temperatures between -80 degrees C and -20 degrees C (ISO/FDIS 21028-2:2017)		Where to refer in RID/ADR 6.8.5.4		ions and paragraphs: and 6.8.5.3
Positive	assessment b	y CEN Consu	ıltant provided.			
Comme	nts from me	mbers of the	Joint Meeting:			
Countr	Clause No.	Comment (justification for change)		Proposed change	Comment from CEN Consultant	Comment from WG Standards
UK 1	Gen	No Commen	ts			
Decision of the STD's WG:		Accepted Refused Postponed	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:	Proposed transition regulation none required	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals

EN ISO 21028-2:[2018] Cryogenic vessels - Toughness requirements for		
materials at cryogenic temperature - Part 2: Temperatures between -80 $^{\circ}$ C and - 20 $^{\circ}$ C		

ISO EN ISO 14246:2014/Amd 1:2017 00023191		tests and examinations - Amendment 1 (ISO RII		Where to refer in RID/ADR 6.2.4.1	6.2.3.1 a	tions and paragraphs and 6.2.3.4 V Standard?
Positive	Assessment 1	oy Consultant	provided.			
Comme	nts from me	mbers of the Jo	oint Meeting:			
Countr	Clause No.	Comment (justification for change)		Proposed change	Comment from CEN Consultant	Comment from WG Standards
UK		No Comment				
Decision STD's V		Accepted Refused Postponed	Comments	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
				ISO EN ISO 14246;2014	Between 1 January 2015 and 31 December 2020	
				ISO EN ISO 14246:2014/Amd 1:2017	Until further notice	

Dispatch 2

FprEN 12972_2018 WI 00296099		inspection and marking of metallic tanks		Where to refer in RID/ADR 1.8.7.8 & 6.8.2.6.2 6.8.2.6.1		ons and paragraphs: 2.4 and 6.8.3.4
Assessm	ent by CEN	Consultant p	provided.			
Comme	nts from me	mbers of the	Joint Meeting:			
Countr y	Clause No.	Comment (justification for change)		Proposed change	Comment from CEN Consultant	Comment from WG Standards
UK	General	No misalign	ment with the regulation detected			
Decision STD's V		Accepted Refused	Comments	Proposed transition regulation	Applicable	
		Postponed		EN 12972_2007	Until 31 December 2020	
				EN 12972 [2018]	Mandatorily from 1 January 2021	

FprEN 13317_2018 WI 00296092	Tanks for transport of dangerous goods - Service equipment for tanks - Manhole cover assembly	Where to refer in RID/ADR 6.8.2.6.1 for equipment	Applicable sub-sections and paragraphs: 6.8.2.2.and 6.8.2.4.1						
Assessment by CEN 0	Assessment by CEN Consultant provided.								
Comments from members of the Joint Meeting:									

Countr	Clause No.	Co	omment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
UK	UK No comment					
Decision STD's V		Accepted Refused Postponed	Comments	Proposed transition regulation EN 13317_2002 + A1 2006	approvals or for	Latest date for withdrawal of existing type approvals
				EN 13317_[2018]	Until further notice	
				EN 13317_[2010]	Onth further house	

EN 1442_2017 WI 00286153		LPG equipment and accessories — Transportable refillable welded steel cylinders for LPG — Design and construction	Where to refer in RID/ADR 6.2.4.1	Applicable sub-sections and paragraphs: 6.2.3.1 and 6.2.3.4							
Positive assessment by CEN Consultant provided.											
Comme	nts from me	mbers of the Joint Meeting:									
Countr y	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards						
UK											

Decision of the STD's WG:	Accepted Refused Postponed	Comments	Proposed transition regulation	• •	Latest date for withdrawal of existing type approvals
			EN 1442:2006 + A1:2008	Between 1 January 2009 and 30 December 2020	
			EN 1442:2017	Until further notice	

WIs of General purpose standards reaching soon publication (reference of standards in RIDADR)

EN 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.

EN 590:2013+A1:2017 Automotive fuels - Diesel - Requirements and test methods. Currently referenced in the second entry for UN1202 in RID/ADR 3.2.1 Table A as EN 590:2013 + AC:2014

EN 60079-18:2015/A1:2017 Explosive atmospheres - Part 18: Equipment protection by encapsulation "m" (undated in ADR Part 9 currently, therefore no change is required)

EN IEC 60079-7:2015/A1:2018 Explosive atmospheres - Part 7: Equipment protection by increased safety "e" (undated in ADR Part 9 currently, therefore no change is required.)

FprEN 13765 Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals—Specification. Standards for hoses are not referenced in RID/ADR

Note related to EN 12245 based on the INF paper that will be prepared by AEGPL

First proposal for a text of a note:

"NOTE: This standard does not apply to cylinders and tubes without liner, manufactured from two parts joined together"