

## **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, 18–22 March 2019

19 March 2019

Item 3 of the provisional agenda

##### **Standards**

### **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 HAS consultant (replacing now 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. As mentioned during the last Joint Meeting, the European Commission decided to transfer the responsibility of managing the consultants (now referred as HAS consultant) to Ernst and Young (EY). The contract with EY started 1 April 2018 but at this stage EY has not succeeded to recruit a transport of dangerous goods consultant. Screening of applicants is currently taking place.

##### **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 in procedures to expedite the preparation of the CEN deliverables described in document ECE/TRANS/WP.15/AC.1/2017/32, CEN is not yet ready to propose consequential changes to the agreements laid down in the documents mentioned in paragraph 1. However, the changes in the procedure are minor and CEN is confident that it could be tackled by the Joint Meeting Standards' Working Group without difficulties.

##### **Activities during the last semester**

3. CEN had prepared 1 dispatch which include assessments of the drafts. A Dispatch 2 could also be made available early February 2019 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 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.

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	00023212	EN ISO 11623 rev	Gas cylinders - Composite construction - Periodic inspection and testing
CEN/TC 286	00286194	prEN 12493 rev	LPG equipment and accessories - Welded steel pressure vessels for LPG road tankers - Design and manufacture
CEN/TC 286	00286195	prEN 13953 rev	LPG equipment and accessories - Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG)
CEN/TC 286	00286196	EN 1440:2016 +A1:2018/prA2	LPG equipment and accessories - Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Periodic inspection

## **New and amended references to standards**

6. Since the session of September 2018, draft standards have reached the enquiry and Formal vote stages. They have been made available for consultation by members of the Joint Meeting on the dedicated CEN webpage (Dispatch 1).

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 CCMC ([tlegrand@cencenelec.eu](mailto:tlegrand@cencenelec.eu)) – **till 1<sup>st</sup> February 2019**. It is foreseen to organize ad hoc web-conferences in order to review those comments second half of February 2019 (calendar of dates still to be defined with the Joint Meeting Working Group on Standards). All comments will be consolidated in a separate document and be provided to the Joint Meeting.

**Annex**

**[English only]**

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

Dispatch 1

<b>prEN ISO 11117</b>		<b>Gas cylinders - Valve protection caps, guards and shrouds - Design, construction and tests</b>	<b>Where to refer in RID/ADR:</b> 4.1.6.15	<b>Applicable sub-sections and paragraphs:</b> 4.1.6.8 (b) and (c)		
00023194						
Assessment by Consultant still awaited						
<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		Suitable for referencing; no changes needed.				
<b>Decision of the STD's WG:</b>		<b>Accepted</b> Refused Postponed	Comments			

Dispatch 1

<b>prEN ISO 10961</b>		<b>Gas cylinders - Cylinder bundles - Design, manufacture, testing and inspection</b>	<b>Where to refer in RID/ADR:</b> 6.2.4.1	<b>Applicable sub-sections and paragraphs:</b> 6.2.3.1 and 6.2.3.4		
00023202						
Assessment by Consultant still awaited						
<b>Comments from members of the Joint Meeting:</b>						

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Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
UK	Clause 1	The scope includes bundles containing tubes, i.e. seamless pressure receptacles greater than 150 litres. Bundles of tubes are defined as MEGCs and are subject to different requirements.	The scope must be limited to cylinders to conform with RID/ADR.		
D	7.2.2.3.4.1	Missing leakage pass fail criteria in 7.2.2.3.4.1 (vertical drop) and 7.2.2.3.4.2 (rotating drop). It has to be specified if it is sufficient to check if water was released or if the bundle shall be pressurized (in this case test pressure to be specified too) after the drop.			
D	7.2.2.3.4.1	Unclear how to measure the angle of 5 ° in 7.2.2.3.4.1.	A figure might be needed.		
D	7.3.3.2	Unclear how to measure leakage and missing leakage pass fail criteria in 7.3.3.2 (assembly leak test) and 7.3.3.3 (final leak test). For 7.3.3.2 it has to be specified if it is sufficient to check by leak detection spray. For 7.3.3.3 it is not acceptable that the user has to specify appropriate methods and acceptance criteria.	The standard shall at least give minimum requirements which can be enlarged by the user.		
<b>Decision of the STD's WG:</b>		Accepted Refused <b>Postponed</b>	Comments The technical comments will be examined by the WG in ISO/ TC 58		

Dispatch 1

<b>prEN 17339</b>	<b>Transportable gas cylinders – Fully wrapped carbon composite cylinders and tubes for hydrogen use</b>	<b>Where to refer in RID/ADR:</b> 6.2.4.1	<b>Applicable sub-sections and paragraphs:</b> 6.2.3.1 and 6.2.3.4
00023203			
Assessment by Consultant still awaited			

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 1	Introduction and 4	The authors effectively propose using the maximum developed pressure at 65 °C as the test pressure. The relationship between test pressure and working pressure is undefined, but all tests are related to the maximum developed pressure. The developed pressure at 65 °C is assumed in clause 4 to be 1,25 times the working pressure whereas P200 (5) (a) requires the test pressure to be 1,5 times the working pressure.	The standard must be brought into line with RID/ADR or it shall be introduced with a fully justified special provision in part 3.3 of RID/ADR		To clarify: 1.The test pressure is not defined in the standard but it may be assumed that it is 1.5 times the working pressure. 2. Other tests used for these composite cylinders are based on 1.25 times the working pressure whereas all other standards used in transport use 1.5 times working pressure.
UK 2	1	This is not a scope statement. It has no limitations: it should specify the maximum working or design/test pressure, maximum (and possibly minimum) water capacity, and a maximum energy (water capacity × working pressure)	Add quantitative limitations. Are tubes allowed?		
UK3	5.1 para.5	A limit of 1 000 000 bar litres is set but the requirements to extend this limit to 3 000 000 bar litres are very vague	Give more detail on the requirements of the “risk assessment”.		
UK4	5.2.1 b)	Editorial: The standard reference is incorrect	EN ISO 9809-4		
UK 5	6.2.1.1.1	The sentence ‘Equivalent tests in accordance with alternative standards or test specifications acceptable to the inspection body may be applied.’ is not acceptable. The standard must give definitive requirements, not open the way to use unspecified tests.	Delete this sentence. List the permissible alternative tests if known.		
UK 6	6.2.4.1	The final sentence should point out that pneumatic pressure testing requires the agreement of the competent authority. See ADR 6.2.1.5.1 (g) NOTE	Insert requirement to obtain agreement of the competent authority.		

UK 7	6.2.5.2	The burst pressure is 1.8 x the maximum developed pressure at 65 °C. This contrasts with EN 12245 where the burst pressure must be at least 2x the test pressure.	Justify this further downgrading of safety		The burst pressure ratio required in RID/ADR 6.2.5.5 is 2.0 x test pressure.
UK 8	6.2.8.1 first para.	Here we have the first mentioning of tubes since the scope. The standard refers exclusively to cylinders up to this point.	Define cylinder and tube and make clear whether the text applies to cylinders or to tubes or to both.		
UK 9	6.2.8.1 para. Before Fig.1	“risk assessment” is not the correct procedure to determine adequate protection of the cylinders or tubes. This can only be done by tests or calculations.	Clarify the procedure to be used.		
UK 10	6.2.10.1.2	What is isobanding?	Define or explain		
UK 11	6.2.10.1.2	The Note appears to be a disguised requirement to do something, but it is not clear what.	Delete the note or provide a requirement		
UK 12	General	This prEN does not conform to RID/ADR and requires fundamental modifications before it could be accepted. It also has many unclear requirements.			
<b>Decision of the STD's WG:</b>		Accepted Refused <b>Postponed</b>	Comments The comments will need to be examined carefully by the WG in CEN 23		

Dispatch 1

<b>prEN ISO 10462:2013_prA1</b>	<b>Gas cylinders - Acetylene cylinders - Periodic inspection and maintenance - Amendment 1</b>	<b>Where to refer in RID/ADR:</b> 6.2.4.2	<b>Applicable sub-sections and paragraphs:</b>
00023207			
Assessment by Consultant still awaited			
<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 1	9	This amendment is irrelevant to the RID/ADR since its observance does not affect the requirements of RID/ADR 6.2.3.5			
<b>Decision of the STD's WG:</b>		Accepted Refused Postponed	Comments		

Dispatch 1

prEN ISO 11118:2015_prA1 00023208	Gas cylinders - Non-refillable metallic gas cylinders - Specification and test methods – Amdt 1	Where to refer in RID/ADR: 6.2.4.1	Applicable sub-sections and paragraphs: 6.2.3.1, 6.2.3.3 and 6.2.3.4		
Assessment by Consultant still awaited					
<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 1	12.2.4	RID/ADR 5.2.1.1 requires the “UN” and the UN number to be at least 6mm high for cylinders between 60 and 5 litres water capacity. Smaller cylinders can have smaller characters and the UN number on cylinders above 60 litres shall be 12 mm high.	Change requirement on UN number height.		This requirement is also in UN 5.2.1.1
UK 2	A.2.2.2.1 2 <sup>nd</sup> para.	Editorial: The word “accomplished” does not seem correct.	Replace with “demonstrated”?		
UK 3	A.3.2.1 after e)	Ditto.	Ditto.		
<b>Decision of the STD's WG:</b>		Accepted Refused Postponed	Comments		

		The size of the UN number is creating a problem in practice... The comment particularly related to 12.2.4 will need to be examined carefully by the WG in ISO/TC 58	
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## Dispatch 1

<b>EN 16728:2016+A1:2018 /prA2</b>		<b>LPG equipment and accessories - Transportable refillable LPG cylinders other than traditional welded and brazed steel cylinders - Periodic inspection</b>		<b>Where to refer in RID/ADR:</b> 6.2.4.2	<b>Applicable sub-sections and paragraphs:</b>	
00286191						
Assessment by Consultant still awaited						
<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 1	5.3.1	Note 1 of RID/ADR 6.2.1.6.1 requires the agreement of the competent authority for pneumatic pressure testing	Replace “may require” with “requires”.			
UK 2	General	Amendment conforms to RID/ ADR apart to above comment.				
<b>Decision of the STD’s WG:</b>		<b>Accepted</b> Refused Postponed	Comments			

## Dispatch 1

<b>EN 1440:2016+A1:2018 /prA2</b>		<b>LPG equipment and accessories - Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Periodic inspection</b>		<b>Where to refer in RID/ADR:</b> 6.2.4.2	<b>Applicable sub-sections and paragraphs:</b>	
00286196						

Assessment by Consultant still awaited					
<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 1	General	The amendments do not change the acceptability of the standard as a reference in RID/ADR	None		
<b>Decision of the STD's WG:</b>		Accepted Refused Postponed	Comments		

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

Dispatch 1

<b>FprEN 13175</b>	<b>LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings</b>		<b>Where to refer in RID/ADR</b> 6.8.2.6.1, 6.2.4.1	<b>Applicable sub-sections and paragraphs:</b> 6.8.2.1.1, 6.8.2.2, 6.8.2.4.1 and 6.8.3.2.3 6.2.3.1 and 6.2.3.3	
00286183					
Assessment by Consultant still awaited					
Enquiry draft discussed by STD's WG in March 2018					
<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 1	6.1.6	This clause is in a muddle because it mixes up the requirements for pressure receptacles and tanks. Breakaway valves are not used on pressure receptacles, but are typically found on tanks. The requirements for valve protection found in RID/ADR 4.1.6.8 are applicable only to pressure receptacles and it requires valves to have adequate strength to	Rewrite to distinguish between transport tanks and pressure receptacles		Accept to redraft to clarify that 4.1.6.8 is applicable only to pressure receptacles

		withstand likely impacts or be protected by e.g. a cap, guard or shroud.			
UK 2	6.1.6 Note	This is an incomplete sentence.	Complete the sentence or delete the note.		Need to complete the note
UK 3	6.1.6	This is a standard about design and manufacture of valves, so the clause 6.1.6 about choice of valve and its protection is not really relevant. For tanks, the suitability of the valve will be determined at the type approval by the inspection body and for pressure receptacles, the choice of valve and protection is the responsibility of the user. Neither of these parties will read this standard.	The misleading advice in this clause can be ignored and the standard can be referenced.		
<b>Decision of the STD's WG:</b>	Accepted Refused <b>Postponed</b>	Comments A decision is postponed. The Standards WG would like to see an amendment to clause 6.1.6 and preferably the elimination of pressure receptacles from the scope. If such an amendment is not available to the Joint Meeting Standards WG by March 2020, the published standard will be referenced with an exclusion of clause 6.1.6.	Proposed transition regulation	Applicable for new type approvals or renewals	Latest date for withdrawal of existing type approvals
			EN 13175:2014	Until 31 December 2022	
			EN 13175:2019	Until further notice	

Dispatch 1

<b>EN 14071:2015/FprA1</b>	<b>LPG equipment and accessories - Pressure relief valves for LPG pressure vessels - Ancillary equipment</b>	<b>Where to refer in RID/ADR</b>	<b>NEW STANDARD</b>
00286185			
Assessment by Consultant still awaited			
Enquiry draft discussed by STD's WG in March 2018			
<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	Scope	The scope of the standard is limited to equipment for static pressure vessels; therefore the Standards WG refused a reference in March 2018.				
D		No RID/ADR candidate; covers stationary equipment under PED (2014/68/EU) only				
<b>Decision of the STD's WG:</b>		Accepted Refused Postponed		Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals

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

None identified since the last session

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