

## 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, 14–18 March 2016

Item 3 of the provisional agenda

##### Standards

1 March 2016

### Information on work in progress in CEN (revised)

#### 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 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.

2. This advice was interrupted for the last session following the difficulties of the European Commission in funding the consultancy services. As a consequence, a larger number of items deserve attention and discussion by the Working Group on standards during this session.

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

3. Focussed on improving mechanisms and procedures for developing EN standards and following similar changes of the related ISO procedures and prompted by European Commission Communication COM(2011)311 asking for a 50% reduction of the average standards developing time CEN has adopted a new enquiry procedure (CEN/BT Decision 35/2014). It's implementation started on 1<sup>st</sup> January 2015 and applies to all incoming drafts since 23 October 2014.

4. Compared with the status quo it includes the following changes:

- Enquiry stage becomes in effect a weighted vote.
- CEN Members respond to vote: YES, NO, ABSTAIN.

(The assessments of the CEN Consultant will also need to decide on yes or no at this stage. The CEN/TC considers comments and launches 1 month ballot for decision to skip Formal Vote).

- Approval = 71% positive weighted vote and simple majority.
- Enquiry period is reduced from 5 to 3 months.
- Depending on the outcome of the enquiry the CEN/TC can decide to skip the Formal Vote and go straight to publication.

5. These changes affect the cooperation between Joint Meeting and CEN and the agreed cooperation procedures, in particular with respect to the timing of comments from the Joint Meeting Working Group on Standards and CEN timetables. The role of telephone conferences will become paramount. As soon as the amended CEN procedures are stabilized, CEN will come back with suggestion for amendments of the cooperation procedures and will then come up with suggested amendments of the cooperation procedures, if needed.

## Contractual situation of the CEN Consultant

6. At the end of 2014, CEN has recruited Mr David Teasdale in order to take over from Mr Karol Wieser. As in 2014, the European Commission took over 7 months in 2015 before offering a budget to CEN to cover this task. Luckily now CEN got a budget coverage till end December 2017.

7. CEN has therefore prepared 3 dispatches: Dispatch 1 and 3 include assessments of the drafts. Dispatch 2 contains only the standards without assessments. A Dispatch 4 could also be made available in January 2016 containing General Purpose Standards.

## New work items

8. 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, 286 and 296. Additional CEN standards which are already referenced in RID/ADR/ADN have been decided to be reviewed. Not all of them are considered candidates for reference in these regulations.

9. The members of the Joint Meeting are invited to advice 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	00023190	EN ISO 10297:2014/prA1	Gas cylinders - Cylinder valves - Specification and type testing (ISO 10297:2014/DAM 1:2016)
CEN/TC 23	00023191	EN ISO 14246:2014/prA1	Gas cylinders - Cylinder valves - Manufacturing tests and examinations (ISO 14246:2014/DAM 1:2016)
CEN/TC 23	00023192	prEN ISO 11363-1	Gas cylinders - 17E and 25E taper threads for connection of valves to gas cylinders - Part 1: Specifications
CEN/TC 23	00023193	prEN ISO 11363-2	Gas cylinders - 17E and 25E taper threads for connection of valves to gas cylinders - Part 2: Inspection gauges
CEN/TC 23	00023194	prEN ISO 11117	Gas cylinders - Valve protection caps and valve guards - Design, construction and tests
CEN/TC 23	00023195	prEN ISO 17879	Gas cylinders - Self-closing cylinder valves - Specification and type testing

CEN/TC 286	00286167	EN 12493:2013+A1:2014	LPG equipment and accessories - Welded steel pressure vessels for LPG road tankers - Design and manufacture
CEN/TC 286	00286168	prEN ISO 14245 rev	Gas cylinders - Specifications and testing of LPG cylinder valves - Self-closing
CEN/TC 286	00286169	prEN ISO 15995 rev	Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated
CEN/TC 286	00286170	EN 13175:2014/prA1	LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings
CEN/TC 286	00286172	EN 13110:2012/prA1	LPG equipment and accessories - Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) - Design and construction
CEN/TC 286	00286173	prEN 12807 rev	LPG equipment and accessories - Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) - Design and construction
CEN/TC 296	00296084	FprEN 14595 rev	Tanks for transport of dangerous goods - Service equipment for tanks - Pressure and vacuum breather device
CEN/TC 296	00296088	EN 14564:2013/prA1	Tanks for transport of dangerous goods - Terminology
CEN/TC 296	00296089	prEN 13094 rev	Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction

## New and amended references to standards

10. Since the session of March 2014, 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 3).

11. Members of the Joint Meeting have already been invited to provide their comments on the documents listed in Dispatch 1 and 2. They still have the time to provide their comments on Dispatch 3 documents to the CEN Consultant (david.teasdale@btinternet.com) before 30 January 2016. It is foreseen to organize ad hoc webconferences in order to review those comments second half of February 2016. All comments will be consolidated in a separate document and be provided to the Joint Meeting.

12. In the contractual arrangement with CEN, the European Commission has restricted the activity of the CEN Consultant to 'Qualitative assessments'. This is in line with Art 15 1b of Regulation 1025/2012/EU:

"1. The financing by the Union may be granted to the European standardisation organisations for the following standardisation activities:

(a) the development and revision of European standards or European standardisation deliverables which is necessary and suitable for the support of Union legislation and policies;

**(b) the verification of the quality, and conformity to the corresponding Union legislation and policies, of European standards or European standardisation deliverables;”.**

In those circumstances , the CEN Consultant is not allowed anymore to provide any activity in support to Art 15 1 (a). CEN therefore kindly ask the Joint Meeting to appoint a convenor for its Joint Meeting Working Group on Standards sessions.

13. The CEN-CENELEC Management Center (CCMC) will of course continue to support both the CEN Consultant and the Joint Meeting Working Group on Standards.

## Annex

[English only]

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

Dispatch 1

prEN 1439		LPG equipment and accessories - Procedure for checking transportable refillable LPG cylinders before, during and after filling	Where to refer in RID/ADR: Replace EN 1439:2008 except 3.5 and Annex G	Applicable sub-sections and paragraphs: P200	
WI 00286165					
Assessment by CEN Consultant provided.					
<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
DT	3.4 over-moulded cylinder	The Note 1 to the definition of an over-moulded cylinder states 'See also ADR definition' this implies that there is a definition in ADR for an over-moulded cylinder; currently in the 2015 version of ADR/RID there is no such definition.	This note should be removed.		Comment accepted.
DT	3.5 casing	The definition in casing refers to 'composite cylinder' however there is no similar definition for a composite cylinder to which that definition refers. There are also criteria in Annex D concerning the rejection criteria for composite cylinders without defining exactly what a composite cylinder is.	Add a definition of a composite cylinder		Comment accepted
DT	3.13 periodic inspection	In the context of this type of equipment (pressure receptacle) the term pressure vessel is not normally used. There are detailed requirements for periodic inspection within ADR/RID which typically refer to the cylinder shell.	Replace the term pressure vessel with a more applicable term.		Editorial nature
DT		NOTE Rejection limits for physical, material and other defects on the cylinder shell are given in Annex A, Annex B, Annex C, Annex D and Annex G.	The note should be modified to make it clear that for over moulded cylinders the		Editorial

		Annex G provides rejection criteria for the over-moulded case not the actual cylinder shell itself.	rejection criteria is for the over moulded case and not the cylinder shell.		
DT		Criteria in Table D 2 refers to the 'protective jacket' this term is not defined in the standard, however the photographs in the table seem to be of a cylinder with an over-moulded case (protective jacket?) which may have a liner however this is not clear.  The terms are used throughout the standard without themselves being defined or part of a definition.	Clarify/define the terms for a protective jacket and protected cylinder.		WG should consider and clarify the concept of the 'jacket'
DT		There is no guidance given on the corrosive limits of the LPG that can be filled into the cylinders.	The standard should include a reference to the LPG that is filled into the cylinders being in compliance with the limitations on corrosiveness as specified in ISO 9162:1989.		Comment withdrawn
CH		We agree with the comments of the CEN consultant in prEN 1439_DT and prEN 1439_DT (Add)			OK
CH		3.4 and Annexes G and H to be excluded (3.4 and Annex G already excluded for the Version EN 1439:2008)			Noted; exclusions to be confirmed on the next version.
CH		"D1.1 NOTE 2 RID/ADR requires that these criteria are acceptable to the competent authority" There are no such requirements in RID/ADR.			CEN/TC 286 WG to consider
CH		Concerning corrosion: ISO 9162:1989 is mentioned in prEN 13952:2015 under 4.3 LPG Quality.	It is therefore not necessary to mention it in EN 1439 ( EN 13952 is mentioned as normative reference and in 6. "Filling		Agreed

			conditions"		
UK	General	No objection to this standard being referenced subject to satisfactory resolution of the CEN Consultant's comments.			OK

Dispatch 1

<b>prEN 13952</b>		<b>LPG equipment and accessories - Filling procedures for LPG cylinders</b>	<b>Where to refer in RID/ADR:</b> Not referred at this stage	<b>Applicable sub-sections and paragraphs:</b>	
WI 00286166					
Assessment by CEN Consultant provided					
<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
DT	Scope	The scope does not include Over moulded cylinders – where are the filling procedures for these cylinders?			Editorial
DT	References	The reference for EN1439:2008 is dated			Editorial
CH		No comment			
UK	General	The existing version of this standard has not been referenced in RID/ADR and this new version also adds insufficient value to merit inclusion in the regulations.	Do not reference. The TC should consider amalgamating this standard with EN 1439.		Suggest to refer this standard in the future EN 1439 – No direct reference in RIDADR
NL		Concerns as to the suitability for reference in RID/ADR – EN 1439:2008 concerning the tightness is already referenced			See UK comment

<b>prEN ISO 21028-1</b>		<b>Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 1: Temperatures below -80 degrees C (ISO/DIS 21028-1:2015)</b>	<b>Where to refer in RID/ADR:</b> Replace EN 1252-1:1998	<b>Applicable sub-sections and paragraphs:</b> 6.8.5.4	
WI 00268059					
Assessment by CEN Consultant provided.					
<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
DT		No comment			
CH		No comment			
UK		These two standards will replace EN 1252-1 and EN 1252-2 both of which are normative references in the cryogenic tank design standards EN 13530 and EN 14398. These material property standards are invaluable to designers of cryogenic equipment and therefore, their role is as normative references in the tank design standards.	There is no need to reference these standards in RID/ADR; they support the cryogenic tank and pump design and construction standards		Replace the EN 1252-1:1998



<b>prEN ISO 21028-2</b>		<b>Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 2: Temperatures between -80 degrees C and -20 degrees C (ISO/DIS 21028-2:2014)</b>	<b>Where to refer in RID/ADR:</b> Replace EN 1252-2:2001	<b>Applicable sub-sections and paragraphs:</b> 6.8.5.4	
WI 00268063					
Assessment by CEN Consultant provided					
<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
DT	4.3 (Table 3)	4.3 Minimum TR values are given in Table 3....	The legend for Table 3 should be corrected to TR.		Editorial



		However the legend for Table 3. Table 3 — Minimum $T_s$ values			
DT	4.3 (Table 6)	There are a number of instances in the Construction detail column typically for Part A or Part B where there is a thickness given i.e. $e_1$ or $e_2$ , which are different to the Part A or Part B in the Reference thickness column. For example the third example for a Branches and nozzles. Construction detail Part A $\sim e_3$ Reference thickness Part A $\sim e_2$ .	The Parts A or B and associated material thickness's should be reviewed for those in the Construction detail column and the Reference thickness column to ensure that they are aligned.		Editorial
UK		These two standards will replace EN 1252-1 and EN 1252-2 both of which are normative references in the cryogenic tank design standards EN 13530 and EN 14398. These material property standards are invaluable to designers of cryogenic equipment and therefore, their role is as normative references in the tank design standards.	There is no need to reference these standards in RID/ADR; they support the cryogenic tank and pump design and construction standards		Replace the EN 1252-2:2001
CH		No comment			

Dispatch 3

<b>prEN 13110_2012prA1</b>		<b>LPG equipment and accessories - Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) - Design and construction</b>	<b>Where to refer in RID/ADR:</b> 4.1.4.1P200 (11) and 6.2.4.1	<b>Applicable sub-sections and paragraphs:</b> P200(8), (10) and (12) and 6.2.4.1 (6.2.3./1 & 6.2.3.4)	
WI 286172					
Assessment by CEN Consultant pending					
<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
DT	3.1.1	Define LPG as per the definition in ADR/RID low pressure liquefied gas composed of one or more light hydrocarbons which are assigned to UN 1011, UN 1075, UN 1965, UN 1969 or UN 1978 only and which consists mainly of propane, propene, butane, butane isomers, butene with traces of other hydrocarbon			Editorial

		gases			
DT	5.5 Minimum wall thickness	The formula given $a = b = \frac{D}{200} + 1.5$ Will for certain diameters of cylinders return a thinner wall thickness than is required by 6.2.5.4.3 of ADR/RID i.e.cylinders between 50 and 100 mm diameter or over 150mm but below 300 mm diameter .			Comment Withdrawn
DT	Graph 2 and 3	 The vertical axis has  it is unclear as to what the 1 in a circle indicates does this factor only apply to torispherical ends?.			Editorial
DT	Table 3	Type test Specified in sub-clause (Column 4) 8.2 b) There is no sub clause in the standard.			Editorial
DT	Table 3	Visual Production Test. The requirement for 9.1.2 is not clear. Is the visual examination required?			Editorial
UK		The CEN Consultant's comments should be addressed in this amendment except the minimum wall thickness formula which is already accepted in ADR/RID welded aluminium cylinder standards. 6.2.5.4 should be amended to adopt this more rational approach			The CEN consultant comment should be considered excluding the wall thickness formula.
CH		Not to be referenced in P200, in 6.2.4.1 only			
CH	7.7.2.3	"there is no fragmentation of the cylinder" (first dash) and "the cylinder shall remain in one piece" (new dash) have the same meaning	use only one of these possibilities		
CH	7.7.2.3	the third dash shall not be deleted	ad the recommended new dash without		

			deleting the old one		
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Dispatch 3

<b>prEN ISO 10156 (Rev)</b>	<b>Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets</b>		<b>Where to refer in RID/ADR:</b> Replace year 2010 2.2.2.1.5	<b>Applicable sub-sections and paragraphs:</b> 2.2.2.1.5	
WI 00023189					
Assessment by CEN Consultant pending					
<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		- ISO 10156, agreed to be referenced in RID/ADR, replacing the current standard in 2.2.2.1.5 (twice, flammable and oxidizing gases)			To provide the comments to the WG; decision for reference to be referred in the UN Sub-committee of experts on TDG
DT	2.1 Terms and definitions	'atmospheric pressure' is used throughout the standard it may be advantageous to define it. Annex A uses the term standard pressure. 'atmospheric conditions' is used throughout the standard it may be advantageous to define it.			Editorial comment
DT	3.1 General	<i>The non-flammable mixtures defined by UN number shall overrule any classification done by calculation.</i> Clarify this sentence, if a mixture contains only non flammable components then it will be non flammable, no need to do a calculation. However if there is a flammable component(s) then it has to be calculated and the outcome decides whether the mixture is flammable or not and then the correct NOS entry is chosen			Editorial comment
DT	3.2.5	....almost 0,1 % by volume for FL < 10 % and 0,2 % by volume for FL 10 %. Is the operator missing between the second FL and 10 %? Or is this absolute?.			Editorial comment
DT	Figure b)	There is no piping connection between the three way			Editorial comment

		valve and the container 10			
DT	Example 2	Is there a result missing? Only three shown, with four above.			Editorial comment
UK		This standard is referenced in Part 2 of RID/ADR only which is the responsibility of the UNSCE-TDG. It should be referred to the Sub Committee when published.			Agreed

## Dispatch 3

<b>prEN ISO 24431 rev</b>		<b>Gas cylinders - Cylinders for compressed and liquefied gases (excluding acetylene) - Inspection at time of filling (ISO/DIS 24431:2015)</b>	<b>Where to refer in RID/ADR:</b> Not referenced yet	<b>Applicable sub-sections and paragraphs:</b>	
WI 00023178					
Assessment by CEN Consultant pending					
<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		This standard should replace EN 1919 and EN 1920 in P200. No conflict with RID/ADR detected.			This standard should replace EN 1919 and EN 1920 in P 200.
DT		No Comment			

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

## Dispatch 1

<b>FprEN ISO/FDIS 24490</b>		<b>Cryogenic vessels - Pumps for cryogenic service (ISO/FDIS 24490:2015)</b>	<b>Where to refer in RID/ADR</b> Replace EN 13275:2000	<b>Applicable sub-sections and paragraphs:</b>	
WI 00268062					
Positive assessment by CEN Consultant provided.					
Enquiry draft discussed by STD's WG					
<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		No comment			
UK		No objection to this standard being referenced			
NL		Concerns as to the suitability for reference in RID/ADR. Currently for tanks only closures (equipment) directly to the shell have been referenced. The motor driving the pump (page 6) – this addresses only oxygen, flammable substances e.g. LNG is not considered.			
DT		No comment			
<b>Decision of the STD's WG:</b>	Accepted Refused <b>Postponed</b>	Comments Only general requirements on service equipment in RIDADR – should it be referred?	No transition regulation required.		

Dispatch 1

<b>FprEN A1 on EN 14025:2013</b>	<b>Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction</b>		<b>Where to refer in RID/ADR</b> See EN 14025	<b>Applicable sub-sections and paragraphs:</b>	
WI 00296082					
Positive assessment by CEN Consultant provided.					
Enquiry draft not discussed by STD's WG					
<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
DT	6.3.3.5.1 General Equation (5)	With the removal of the non-numbered equation b) there will be a superfluous 'where' in the existing standard.	Remove first 'where' in addition to the non-numbered equation.		Editorial comment
DT	Modification to the Bibliography	There is already an [8] in the bibliography of the existing standard.	Add "[9] EN 14460, Explosion resistant equipment" and update the following items.		Editorial comment

D	Headline (Annex B) Tech	In 5.1 "General" of the standard there is the option to choose the explosion pressure shock resistant design of tanks according to the new Annex B. Insofar Annex B should be normative and not informative.	Amend Annex B from "informative" in "normative"		To be investigated
CH		We do not agree that annex B should be normative as it only contains recommendations (e.g. it is considered)			
UK		No objection to this amendment being referenced			
UIP	Annex B3	"... the calculation pressure shall be 8,7 bar / 1,5 as a load case in operating conditions and only for the cylindrical part of the tank. Partitions can be ..."			To be considered
<b>Decision of the STD's WG:</b>		Accepted Refused <b>Postponed</b>	Additional comments Need to clarify the status of Annex B in Bern		No transition regulation required.

Dispatch 2

<b>FprEN ISO 10286</b>		<b>Gas cylinders - Terminology (ISO 10286:2015)</b>	<b>Where to refer in ADR: ?</b>	<b>Applicable sub-sections and paragraphs:</b>	
WI 00023153					
No assessment by CEN Consultant provided.					
<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		No comment			
UK	General	Terminology standards should not be referenced in RID/ADR: they should be referenced in standards. ISO and CEN committees worked hard to ensure compatibility with the regulations	Do not reference.		OK
D		Concur with UK opinion- ISO 10286, no candidate for reference in RID/ADR, terminology standard only with most of the terms copied from regulation			OK
<b>Decision of the STD's WG:</b>		Accepted <b>Refused</b> Postponed	Additional comments Terminology is not supposed to be referred in RIDADR		No transition regulation required.

Dispatch 2

<b>FprEN ISO 13341 A1</b>		<b>Gas cylinders - Fitting of valves to gas cylinders - Amendment 1 (ISO 13341:2010/Amd 1:2015)</b>	<b>Where to refer in RID/ADR ?</b>	<b>Applicable sub-sections and paragraphs:</b>	
WI 00023172					
No assessment by CEN Consultant pending.					
<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		No comment			

UK	General	The existing version of this standard 2010 has not been referenced in RID/ADR and this amendment does not change its usefulness to the regulations. This standard is a normative reference in the valve standard EN ISO 10297 and the periodic inspection standards. This is its correct role.	Do not reference.		
D		Concur with UK but consider possibility to reference it in P200 RID/ADR for assembling cylinders and valves			
<b>Decision of the STD's WG:</b>		Accepted <b>Refused</b> Postponed	Additional comments This standard should not be referred directly in RIDADR. It is used as a normative reference in periodic inspection standards. EIGA to consider proposing a note in RIDADR in order to draw attention to this standard.		No transition regulation required

## Dispatch 2

<b>FprEN ISO 17871:2015</b>		<b>Gas cylinders - Quick-release cylinder valves - Specification and type testing (ISO 17871:2015)</b>	<b>Where to refer in RID/ADR</b> ?	<b>Applicable sub-sections and paragraphs:</b>	
WI 00023179					
No assessment by CEN Consultant provided.					
<b>Enquiry draft not discussed by STD's WG</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		No comment			
UK	General	This standard relies on ISO 10297:2014 and ISO 14246:2014 for many of its requirements. Both of these have been accepted for RID/ADR (and UN). No contradictions of RID/ADR have been detected in this standard. The standard was developed with the intention of it appearing in the RID/ADR	Recommended for referencing. Standard published in September 2015		
D	General	It was already agreed to have the standard referenced in RID/ADR 2017 by Joint Meeting March 2015		Correct, CCMC apologised for this confusion	



<b>Decision of the STD's WG:</b>	Accepted Refused Postponed	Additional comments <b>See Inf 48 Session March 2015</b>	No transition regulation required
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Dispatch 3

FprEN 11118	<b>Gas cylinders - Non-refillable metallic gas cylinders - Specification and test methods (ISO 11118:2015)</b>	<b>Where to refer in RID/ADR</b> Replace ver of 1999 6.2.2.1.1	<b>Applicable sub-sections and paragraphs:</b> P 206 and 6.2.2.1.1
WI 00023143			

Assessed by CEN Consultant

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

Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
DT	A.2.3.4	The type of gas used for the leak tightness test is not specified, it is specified for the non –refillable valve test.	Specify the test gas.		This test is normally done at the first filling of the cylinder.
DT	A.3.2.2	This section is about how a hydraulic burst pressure test is carried out, item 'e) <i>the hydraulic burst test pressure minimum is 1,6 times the test pressure of the cylinder</i> ' this is what the result of the test should be.	Move 'the hydraulic burst test pressure minimum is 1,6 times the test pressure of the cylinder' to the end sentence of A.3.2.2.		Editorial; to be considered at next revision.
UK		This standard was published in 2015 and has been accepted by the UN SCE-TDG for UN cylinders. Text changes not possible.			
D		ISO 11118, agreed to be referenced in RID/ADR, replacing EN 12205:2001 as well as EN ISO 13340:2001 in 6.2.4.1,			
<b>Decision of the STD's WG:</b>	Accepted Refused Postponed	Additional comments replacing EN 12205:2001 as well as EN ISO 13340:2001 in 6.2.4.1,	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
			EN 12205:2001	[Between 1 January 2005 and 31 December 2017]	<b>31 December 2018</b>
			EN ISO 13340:2001	[Between 1 January 2005 and Between 1 January 2011 and	<b>To be withdrawn at the 31 December 2018</b>

				31 December 2017]	
			EN ISO 11118:2015	Until further notice	

## Dispatch 3

<b>FprEN ISO 11623:2015</b>	<b>Gas cylinders - Composite construction - Periodic inspection and testing (ISO/FDIS 11623:2015)</b>		<b>Where to refer in RID/ADR</b> Replace ver. 2002	<b>Applicable sub-sections and paragraphs:</b> 6.2.2.4 + 6.2.4.2 (except clause 4) + § 660	
WI 00023150			6.2.2.4 + § 660,		
Assessed by CEN Consultant					
<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
DT	Table 3	The symbols for the units in the first row should be checked.	The unit for gram is G this should be replaced by g.		Editorial mistake in the units
UK		Published 2015-11, unfortunately with the upper case G in Table 3. Otherwise no comments and can be refereced in 6.2.4.2 with the usual transition, i.e. mandatorily from 2019-1-1.			See above
CH		<b>Connection 6.2.2 to 6.2.4:</b>	<b>put a note in table of 6.2.2.4: NOTE: The EN version of this ISO standard fulfils the requirements and may also be used."</b>		
<b>Decision of the STD's WG:</b>	Accepted Refused Postponed	Additional comments	Proposed transition regulation	Applicable	<b>Latest date for withdrawal of existing type approvals</b>
		In Chapter 3.4 SP 660 simply replace EN ISO 11623:2002 with the 2015 version	EN ISO 11623:2002	Until 31 <sup>st</sup> December 2018	

			EN ISO 11623:2015	Mandatorily from 1st Jan 2019	

Dispatch 3

<b>FprEN ISO 21013-3 rev</b>		<b>Cryogenic vessels - Pressure-relief accessories for cryogenic service - Part 3: Sizing and capacity determination (ISO/DIS 21013-3:2014)</b>	<b>Where to refer in RID/ADR</b> Replace EN 13648-3:2002 Only part 1 is referred so far ?	<b>Applicable sub-sections and paragraphs:</b>	
WI 00268060					
Assessed by CEN Consultant					
<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
DT	Equation 3 and 4	$U_2(T_a - T) = 19\,000 \text{ W/m}^2 \text{ for } T \leq 75\text{K}$ $U_2(T_a - T) = 2\,850 \text{ W/m}^2 \text{ for } T \leq 75\text{K}$ <p>Equation [3] and [4] return different values for the same condition i.e. <math>\leq 75\text{K}</math></p>			To be checked by WG experts
DT	Equation 10	$U_5 = \frac{k_5}{e_5}$ <p>The formula uses e5 however in the references to that formula only e is defined.</p>			To be checked by WG experts
DT	4.4	<p>4.4.1</p> <p>The air or nitrogen condensation case for the loss of vacuum condition shall be considered for fluids with a saturation temperature below 75 K at 1 bar absolute pressure.</p> <p>This refers to absolute pressure, however in other definitions with saturation temperature and the same</p>			To be checked by WG experts

		temperature (75 K ) the reference is to bar i.e. 4.5.5 WT5 is equal to the heat transfer rate, W5, if the saturation temperature of the fluid is greater than or equal to 75 K at 1 bar.  Is the reference to absolute pressure correct in that instance and bar [gauge] to the others?			
DT	Equation [36]	$P_i = P - \frac{3,857 \cdot 10^{-13} \cdot Q_m^2 \cdot u \cdot K_{Ru}}{A_{Fu}^2}$ Where is the value u defined?			To be checked by WG experts
DT	Equation [40]	Textit,Pb is defined but not used in equation [40].			To be checked by WG experts
UK		A direct reference in the regulations to this standard is not necessary. It is referred to in the construction standard ISO 20421-1 via ISO 21013-1 and that is the correct role. We do not want to fill the RID/ADR with subsidiary references			Agreed
CH		There is no need to reference this standard in RID/ADR; it only supports the design and construction standards			
<b>Decision of the STD's WG:</b>	Accepted	Additional comments It should only be referred to in a construction standard for the tank	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
	<b>Refused</b>				
	Postponed				

## Dispatch 3

<b>FprEN 14595</b>	<b>Tanks for transport of dangerous goods - Service equipment for tanks - Breather device</b>	<b>Where to refer in RID/ADR</b> Replace ver of 2005 6.8.2.6.1	<b>Applicable sub-sections and paragraphs:</b>
WI 00296084			

Assessed by CEN Consultant

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

Country	Clause No.	Comment (justification for change)	Proposed change	Comment from CEN Consultant	Comment from WG Standards
DT	Foreword	<i>...not exceeding 110 kPa (absolute pressure) at 50° C...</i> The word pressure is not added after the pressure definition. Delete the word pressure.	<i>...not exceeding 110 kPa (absolute) at 50° C...</i>		Comments of the Consultant taken into account before FV
DT	Scope	<i>...not exceeding 110 kPa at 50 °C ...</i> To be in line with the foreword add the word absolute after kPa.	<i>...not exceeding 110 kPa (absolute) at 50° C...</i>		Comments of the Consultant taken into account before FV
DT	5.8	<i>...shall not exceed 10<sup>6</sup> .:</i> The unit is missing.	Add 'Ω' after 10 <sup>6</sup>		Comments of the Consultant taken into account before FV
DT	6.2.2.2.3	For clarity the text: <i>...is not less than 0,4 kPa below atmospheric pressure and not greater than 2,5 kPa below atmospheric pressure.</i> Should be the same as in 5.3.2 <i>...shall be between -0,4 kPa (gauge) and -2,5 kPa (gauge)...</i>	Change 5.3.2. <i>The relieving pressure of breather devices is not less than 0,4 kPa below atmospheric pressure and not greater than 2,5 kPa below atmospheric pressure in their normally installed attitude.</i> Or as an alternative change the text in 6.2.2.2.3 to match 5.3.2.		Comments of the Consultant taken into account before FV
DT	Annex A Figure A1	Figure is missing	Replace missing figure.		Comments of the Consultant taken into account before FV
UK		No comment – the standard can be referenced with the standard transition.			

<b>Decision of the STD's WG:</b>	Accepted Refused Postponed	Additional comments	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals	
			14595:2005	Between 1 January 2007 and 31 December 2018		
			14395:2016	Until further notice		

## Dispatch 3

<b>FprEN ISO 21029-2_2015</b>	<b>Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1 000 litres volume - Part 2: Operational requirements (ISO 21029-2:2015)</b>	<b>Where to refer in RID/ADR</b> Replace EN 1251-3:2000 6.2.4.2	<b>Applicable sub-sections and paragraphs:</b>		
WI 00268061					
Assessment by CEN Consultant pending					
<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		It was agreed at the March 2015 meeting that this standard shall not be referenced since it contained deficiencies and contradictions of the RID/ADR and added little value to the relevant PI&T regulations. This version has not changed sufficiently to revise that decision. Also, the many requirements in non-transport areas risk non-compliance with national legal requirements. The reference in RID/ADR to EN 1251-3 should be deleted since EN ISO 21029-2 will replace it and it also adds negligible value to RID/ADR.			
DT	Labelling	danger labels in accordance with transport regulations. The regulations specify labels remove the word danger.			Editorial

	Labelling	risk and safety phrases associated with the gas content; These terms refer to old regulations.				Editorial
<b>Decision of the STD's WG:</b>	Accepted	Additional comments Contradiction to RIDADR and no added value to periodic testing standards. Avoid binding people with recommendations which are in contradiction with their national regulation  To propose removing the EN 1251-3:2000  A standard describing in more details how to implement the periodic inspection would be welcome.	Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals	
	<b>Refused</b>		EN 1251-3:2000			
	Postponed		EN ISO 21029-2:2015			

Dispatch 3

FprEN 16148	<b>Gas cylinders - Refillable seamless steel gas cylinders and tubes - Acoustic emission examination (AT) and follow-up ultrasonic examination (UT) for periodic inspection and testing (ISO/FDIS 16148:2015)</b>		<b>Where to refer in RID/ADR</b> Replace ver of 2006 6.2.1.6.1	<b>Applicable sub-sections and paragraphs:</b> 6.2.1.6.1	
WI 00023171	Assessment from CEN Consultant pending				
<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		FDIS ballot already closed so no technical change is possible. The current edition of this standard is referenced in section 6.2.1 of RID/ADR which is the responsibility of the UNSCE-TDG so I suggest it is removed from the Joint Meeting SWG agenda.			
DT		No Comment			

<b>CH</b>		We recommend that, if this standard is already published, it should be put into RID/ADR 2017				
<b>Decision of the STD's WG:</b>	Accepted	Additional comments  No transition needed as it is in the UN SC		Proposed transition regulation	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
	Refused					
	Postponed					

## Dispatch 3

FprEN 1440	<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> Replace ver of 2008 6.2.4.2	<b>Applicable sub-sections and paragraphs:</b>		
WI 00286154						
Assessment by CEN Consultant pending						
<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		It would be better if the standard was less explicit about the frequency of periodic inspection and the personnel involved and simply stated that these depended on the national regulations. However, the standard complies with current regulations and can be referenced except Annex C.			To be noted by CEN/TC 286	
DT	5.3.2.4 Test Procedure (i)	Records of rejected cylinders shall be maintained. It may be beneficially to state the period of time these records need to be kept.			CEN Consultant comments to be considered at the next revision	
DT	5.3.3.2.2 Leak test (e)	Records of rejected cylinders shall be maintained. It may be beneficially to state the period of time these records need to be kept.				
DT	5.5.2 Internal threads	There is no requirement to check for leaks after valving.				



DT	7.3 Requirements for repair	...carried out by a competent r person... remove the r			
DT	B.3 Note 1	...allowed under conditions of ADR 2009 P200 v, which takes... Remove the reference to the ADR version.			
DT	Annex C	If this standard is to be taken into RID/ADR then the requirements of this Annex should be excepted.			
DT	D.5 marking	...packing provision P200 (12) which includes... Replace provision with instruction			
CH	4	Note 4: It has to be respected that EN ISO16148 is for <b>seamless</b> cylinders only <i>Scope ISO 16148: This International Standard gives procedures for the use of acoustic emission examination (AT) and ultrasonic examination (UT) follow-up during the periodic inspection and testing of <b>seamless</b> steel cylinders and tubes of water having a capacity of up to 3 000 l used for compressed and liquefied gases.</i>	delete the reference to EN ISO16148		
CH	5.3.2.4 d)	Definition of P <sub>h</sub> : P <sub>h</sub> is the pressure applied by the inspection or testing body, not by the manufacturer	replace "manufacturer" by "inspection or testing body"		
Decision of the STD's WG:	Accepted Refused Postponed	Additional comments	Proposed transition regulation	Applicable	Latest date for withdrawal of existing type approvals
			EN 1440:2008	Until 31 December 2018	
			EN 1440:2016	Mandatorily from 1 January 2019	

## Dispatch 3

FprEN 16728		<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> Not yet referred	<b>Applicable sub-sections and paragraphs:</b>	
WI 00286156					
Assessment by CEN Consultant pending					
<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		Clause 7 does not take account of the restrictions on repairs in RID/ADR 4.1.6.11. Also the expression "notified body" is used which is not defined and is not recognised in non-EU members states of RID/ADR. Appendix F shall be excluded from reference until the over-moulded cylinders are accepted by RID/ADR.			RIDADR sub-section 4.1.6.11 contains restrictions on weld repairs which need to be taken into account during the next revision
DT	3.5 over-moulded cylinder	Note 1 to entry: See also ADR definition. The Note 1 to the definition of an over-moulded cylinder states 'See also ADR definition' this implies that there is a definition in ADR for an over-moulded cylinder; currently in the 2015 version of ADR/RID there is no such definition.			CEN Consultant comments to be considered at the next revision
DT	3.8 Protective casing	The definition is for protective casing however there is no similar definition for a composite cylinder. It may be helpful to add a definition for a composite cylinder.			
DT	Table 1 Welded aluminium cylinders.	— Internal condition check as described in 5.4.2; The heading for 5.4.2 5.4.2 Check of the internal condition of composite cylinders. There is no reference to welded aluminium cylinders.			
DT	Table 1 Over-moulded	— Internal condition check as described in 5.4; 5.4.1 Welded aluminium and steel cylinders of alternative design and construction			

	cylinders	5.4.2 Check of the internal condition of composite cylinders There are no particular requirements in 5.4 referring to Over-moulded cylinders, so it is unclear exactly what is required.			
DT	5.2.2 Inspection procedure	In this section there is no indication for the inspection requirement for over-moulded cylinders.			
DT	5.3.1 General	There is no guidance on the additional hazards of pneumatic pressure testing.			
DT	5.3.2.4 Procedure	i) Records of rejected cylinders shall be maintained. It may be beneficially to state the period of time these records need to be kept.			
DT	5.3.3.2.2 Leak test	e) Records of rejected cylinders shall be maintained. It may be beneficially to state the period of time these records need to be kept.			
DT	7 Repair of cylinders	Majors and minor repairs of cylinders... There is no indication as to what constitutes a major or minor repair.			
DT	Table A 6	Damage of handle Excessively deformed of the handle.			
DT	C.2.2 Cylinders with a metallic liner	The rejection criteria given in Table C.2 are examples of the criteria applicable to cylinders with a liner of metallic material (welded or seamless), reinforced by fibres of glass, carbon or aramid (or a mixture thereof). The accompanying photographs and criteria appear to consider a cylinder with a protective casing rather than a composite cylinder.			
DT	Annex C	The title of the section refers to composite LPG cylinders.  However the rejection criteria in Table C2 appears to consider a cylinder with a protective casing.			

DT	Table C 1	Delamination See Figure C.3 and Figure C.4 for examples. Figure C 3 refers to Impact damage in combination with delamination and surface defects. Add impact damage to the defect legend.			
CH		We still believe that there should only be one standard for periodic inspections of all types of LPG cylinders. Live of inspection bodies would be much easier.	amend		
CH	3.5	The definition of OMC in the design standard EN 14140 limits the water capacity to 13 liters.	delete note 1		
CH	3.5	There is no definition for OMC in ADR			
CH	4 Note 2	It has to be respected that ISO EN 16148 is for seamless steel cylinders only	amend note		
CH	5.3.3.2	It was agreed by the JM WG for standards that d) to i) of 5.3.2.4 should also be applicable for 5.3.3.2 (INF.49 March 2015)			
CH	4.5 Table 1	Welded aluminum cylinders: reverence to internal inspection is in 5.4.1 not 5.4.2	Internal condition check as described in 5.4.1		
CH	5.5.2 / 6.2 Note	This can be performed at....	Amend as "This <b>leak-tightness test</b> can be performed at....		
CH	A/C	It was agreed by the JM WG for standards that, if at the time of inspection, no values for rejection criteria in table A.1, A.2, C.1 and C.2 are available, remedy must be proposed e.g. the use the values of the tables in EN 1440 (INF.49 March 2015: Missing rejection n criteria, to be covered in a FV version.)	Amend A and C as appropriate		
CH	D3 Note 1	As the extension to 15 years in the RID/ADR 2009 is only in connection with an agreement with the	15-year		

		<p>national competent authority tis should also be mentioned. There is no obligation for a competent authority to grant a system in accordance with RID/ADR 2009, or they may have their own system which is different to the one proposed in this standard.</p> <p>Additional remark: always use the RID/ADR not only ADR</p>	<p>periodic inspection interval is only allowed with the agreement of the competent authority of the country where the periodic inspection and the carriage take place and under the conditions of RID/ADR 2009 P200 v which takes precedence over any clause of this annex</p>		
CH	F2.1	<p>The sampling at random is only for F.2.2 and F.2.3. Therefore the sentence "The inspections described in 5.4, 5.5 and 5.6 shall be fulfilled for each OMC" should be placed after the note (as all cylinders of a certain production batch have to undergo these inspections).</p>	<p>Transfer the second sentence after the note. After the transferred sentence the following addition should be made:  <b>When the cylinders return to a filling plant, at the cylinders from the relevant annual</b></p>		

				production the periodic tests in accordance with 5.4, 5.5 and 5.6 have to be carried out		
<b>Decision of the STD's WG:</b>	<b>Accepted</b>	Additional comments	Proposed transition regulation	Applicable	Latest date for withdrawal of existing type approvals	
	Refused					
	Postponed					Mandatorily from 1 January 2019

**IMPORTANT REMARKS:**

Two standards were corrected for editorial mistakes

Documents are available in the Dispatch 3:

EN 14140:2014/AC:2015 – this version not in the 2015 RID/ADR; needs to be added.

EN 12493:2013+A1:2014/AC:2015 – The 2013 version is in 6.8.2.6.1 and 6.8.4 – TT11 without A1:2014 and AC:2015

It is proposed to update the references accordingly

In the category 'General purpose standard', CEN and CENELEC informs the Joint meeting of the publication of two revised standards since the spring session of March 2015:

EN 60079-7:2015 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

EN ISO 9001:2015 Quality management systems – Requirements