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|  |  | **INF.58** |

**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 17 March 2016**

Bern, 14–18 March 2016

Item 3 of the provisional agenda

**Standards**

Information on work in progress in CEN (revised – 15th March)

Annex [English only]

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

Dispatch 1

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| **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. | | | | | | | | |
| **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 | 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.  Annex G provides rejection criteria for the over-moulded case not the actual cylinder shell itself. | | The note should be modified to make it clear that for over moulded cylinders the rejection criteria is for the over moulded case and not the cylinder shell. | |  | Editorial |
| 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 final 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 reverence and in 6. "Filling conditions" | |  | Agreed |
| UK | General | | No objection to this standard being referenced subject to satisfactory resolution of the CEN Consultant’s comments. | |  | |  | OK |
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Dispatch 1

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| **prEN 13952** | | **LPG equipment and accessories - Filling procedures for LPG cylinders** | | Where to refer in RID/ADR:  Not referred at this stage | | Applicable sub-sections and paragraphs: | | |
| WI 00286166 | |
| Assessment by CEN Consultant provided | | | | | | | | |
| **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 | 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 |

Dispatch 1

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| **prEN ISO 21028-1** | | **Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 1: Temperatures below -80 degrees C (ISO/DIS 21028-1:2015)** | | Where to refer in RID/ADR:  Replace EN 1252-1:1998 | | Applicable sub-sections and paragraphs:  6.8.5.4 | | |
| WI 00268059 | |
| Assessment by CEN Consultant provided. | | | | | | | | |
| **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 |  | | 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 | |  | Comment withdrawn. Replace the EN 1252-1:1998 |
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| **prEN ISO 21028-2** | | **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)** | | Where to refer in RID/ADR:  Replace EN 1252-2:2001 | | Applicable sub-sections and paragraphs:  6.8.5.4 | | |
| WI 00268063 | |
| Assessment by CEN Consultant provided | | | | | | | | |
| **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 | 4.3 (Table 3) | | 4.3  Minimum *T*R values are given in Table 3….  However the legend for Table 3.  Table 3 — Minimum *Ts* values | | The legend for Table 3 should be corrected to *T*R. | |  | Editorial |
| 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.e1 or e2, 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 ~ e3  Reference thickness Part A ~ e2. | | 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 | |  | Comment withdrawn. Replace the EN 1252-2:2001 |
| CH |  | | No comment | |  | |  |  |

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| **prEN 13110\_2012prA1** | | **LPG equipment and accessories - Transportable refillable welded aluminium 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 & 6.2.3.4) | | |
| WI 286172 | |
| Assessment by CEN Consultant pending | | | | | | | | |
| **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 | 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 gases | |  | |  | Editorial |
| DT | 5.5 Minimum wall thickness | | The formula given    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 | |  | |  | Agreed |
| 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 | |  | TC 286 WG to consider |
| CH | 7.7.2.3 | | the third dash shall not be deleted | | ad the recommended new dash without deleting the old one | |  | TC 286 WG to consider |

Dispatch 3

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| **prEN ISO 10156 (Rev)** | | **Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets** | | Where to refer in RID/ADR:  Replace vear 2010  2.2.2.1.5 | | Applicable sub-sections and paragraphs:  2.2.2.1.5 | | |
| WI 00023189 | |
| Assessment by CEN Consultant pending | | | | | | | | |
| **Comments from members of the Joint Meeting:** | | | | | | | | |
| 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 | | *The non-flammable mixtures defined by UN number shall overrule any classification done by calculation.*  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 valve and the container 10 | |  | |  | Editorial comment |
| 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

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| **prEN ISO 24431 rev** | | **Gas cylinders - Cylinders for compressed and liquefied gases (excluding acetylene) - Inspection at time of filling (ISO/DIS 24431:2015)** | | Where to refer in RID/ADR:  Not referenced yet | | Applicable sub-sections and paragraphs: | | |
| WI 00023178 | |
| Assessment by CEN Consultant pending | | | | | | | | |
| **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 |  | | 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 | |  | |  |  |
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**B. Standards at Stage 3 or 4: Submitted for Formal vote or Published**

Dispatch 1

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| **FprEN ISO/FDIS 24490** | | **Cryogenic vessels - Pumps for cryogenic service (ISO/FDIS 24490:2015)** | | | Where to refer in RID/ADR  Replace EN 13275:2000 | | Applicable sub-sections and paragraphs: | | |
| WI 00268062 | |
| Positive assessment by CEN Consultant provided. | | | | | | | | | |
| Enquiry draft discussed by STD’s WG | | | | | | | | | |
| **Comments from members of the Joint Meeting:** | | | | | | | | | |
| 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 | | |  | |  |  |
| **Decision of the STD’s WG:** | | | Accepted  **Refused**  Postponed | Comments  Only general requirements on service equipment in RIDADR – not regulated | | No transition regulation required. | | | |

Dispatch 1

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| **FprEN A1 on EN 14025:2013** | | **Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction** | | | Where to refer in RID/ADR  See EN 14025 | | Applicable sub-sections and paragraphs: | | |
| WI 00296082 | |
| Positive assessment by CEN Consultant provided. | | | | | | | | | |
| Enquiry draft not discussed by STD’s WG | | | | | | | | | |
| **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 | 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” | |  | Keep informative |
| CH |  | | We do not agree that annex B should be normative as it only contains recommendations (e.g. it is considered) | | |  | |  | Keep informative |
| 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 |
| **Decision of the STD’s WG:** | | | **Accepted**  Refused  Postponed | Additional comments  Proposal to exclude the Annex B at this stage | | | | | No transition regulation required. |

Dispatch 2

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| **FprEN ISO 10286** | | **Gas cylinders - Terminology (ISO 10286:2015)** | | | Where to refer in ADR:  ? | | Applicable sub-sections and paragraphs: | | |
| WI 00023153 | |
| No assessment by CEN Consultant provided. | | | | | | | | | |
| **Comments from members of the Joint Meeting:** | | | | | | | | | |
| 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 |
| **Decision of the STD’s WG:** | | | Accepted  **Refused**  Postponed | Additional comments  Terminology is not supposed to be referred in RIDADR | | | | | No transition regulation required. |

Dispatch 2

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| **FprEN ISO 13341 A1** | | **Gas cylinders - Fitting of valves to gas cylinders - Amendment 1 (ISO 13341:2010/Amd 1:2015)** | | | Where to refer in RID/ADR  ? | | Applicable sub-sections and paragraphs: | | |
| WI 00023172 | |
| No assessment by CEN Consultant pending. | | | | | | | | | |
| **Comments from members of the Joint Meeting:** | | | | | | | | | |
| 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. | |  | Consider adding an informative note in 4.1.6 drawing attention to this standard. |
| D |  | | Concur with UK but consider possibility to reference it in P200 RID/ADR for assembling cylinders and valves | | |  | |  | see above |
| **Decision of the STD’s WG:** | | | Accepted  **Refused**  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

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| **FprEN ISO 17871:2015** | | **Gas cylinders - Quick-release cylinder valves - Specification and type testing (ISO 17871:2015)** | | | | Where to refer in RID/ADR  ? | | Applicable sub-sections and paragraphs: | |
| WI 00023179 | |
| No assessment by CEN Consultant provided. | | | | | | | | | |
| **Enquiry draft not discussed by STD’s WG** | | | | | | | | | |
| **Comments from members of the Joint Meeting:** | | | | | | | | | |
| 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 | | Agreed, no action needed |
| **Decision of the STD’s WG:** | | | **Accepted**  Refused  Postponed | Additional comments  **See Inf 48 Session March 2015** | | | | | No transition regulation required |

Dispatch 3

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| FprEN 11118 | | **Gas cylinders - Non-refillable metallic gas cylinders - Specification and test methods (ISO 11118:2015)** | | | | Where to refer in RID/ADR  Replace ver of 1999  6.2.2.1.1 | | Applicable sub-sections and paragraphs:  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) the hydraulic burst test pressure minimum is 1,6 times the test pressure of the cylinder’*  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. | |  | |  | | Noted |
| 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, | |  | |  | | To be referenced as below |
| **Decision of the STD’s WG:** | | | **Accepted**  Refused  Postponed | Additional comments  replacing EN 12205:2001 as well as EN ISO 13340:2001 in 6.2.4.2, | 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 | | 31 December 2018 |
| EN ISO 13340:2001 | | Between 1 January 2011 and 31 December 2017 | | 31 December 2018 |
| EN ISO 11118:2015 | | Until further notice | |  |

Dispatch 3

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| **FprEN ISO 11623:2015** | | **Gas cylinders - Composite construction - Periodic inspection and testing (ISO/FDIS 11623:2015)** | | | | Where to refer in RID/ADR  Replace ver. 2002  6.2.2.4 + § 660, | | Applicable sub-sections and paragraphs: | | | | |
| WI 00023150 | |
| 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 | 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 |  | | *Connection 6.2.2 to 6.2.4:* | | 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."* | |  | | | Agree to have a general note to cover all the similar cases; see proposal 5 in the report | | |
| **Decision of the STD’s WG:** | | | **Accepted**  Refused  Postponed | Additional comments | Proposed transition regulation | | Applicable | | |  | | |
|  | | |  | In Chapter 3.4 SP 660 simply replace EN ISO 11623:2002 with the 2015 version | EN ISO 11623:2002 | | | | Until 31st December 2018 |  | |
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|  | | |  |  | EN ISO 11623:2015 | | | | Mandatorily from 1st Jan 2019 | |  |

Dispatch 3

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| **FprEN ISO 21013-3 rev** | | **Cryogenic vessels - Pressure-relief accessories for cryogenic service - Part 3: Sizing and capacity determination (ISO/DIS 21013-3:2014)** | | | | Where to refer in RID/ADR  Replace EN 13648-3:2002  Only part 1 is referred so far  ? | | Applicable sub-sections and paragraphs: | |
| WI 00268060 | |
| 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 | Equation 3 and 4 | | Equation [3] and [4] return different values for the same condition i.e.≤ 75K | |  | |  | | To be checked by WG experts |
| DT | Equation 10 | | The formula uses e5 however in the references to that formula only e is defined. | |  | |  | | To be checked by WG experts |
| DT | 4.4 | | 4.4.1  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.  This refers to absolute pressure, however in other definitions with saturation temperature and the same 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? | |  | |  | | To be checked by WG experts |
| DT | Equation [36] | | Where is the value u defined? | |  | |  | | To be checked by WG experts |
| DT | Equation [40] | | Texit,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 | | |  | |  | | OK |
| **Decision of the STD’s WG:** | | | Accepted  **Refused**  Postponed | Additional comments  It should only be referred to in a construction standard for the tank.  No direct relevance in the regulation. | Proposed transition regulation | | Applicable for new type approvals or for renewals | | Latest date for withdrawal of existing type approvals |
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Dispatch 3

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| **FprEN 14595** | | **Tanks for transport of dangerous goods - Service equipment for tanks - Breather device** | | | | Where to refer in RID/ADR  Replace ver of 2005  6.8.2.6.1 | | Applicable sub-sections and paragraphs: | |
| 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 | | *…not exceeding 110 kPa (absolute pressure) at 50° C…*  The word pressure is not added after the pressure definition. Delete the word pressure. | | *…not exceeding 110 kPa (absolute) at 50° C…* | |  | | Comments of the Consultant taken into account before FV |
| DT | Scope | | *…not exceeding 110 kPa at 50 °C …*  To be in line with the foreword add the word absolute after kPa. | | *…not exceeding 110 kPa (absolute) at 50° C…* | |  | | Comments of the Consultant taken into account before FV |
| DT | 5.8 | | *…shall not exceed 106 :.*  The unit is missing. | | Add ‘Ω’ after 106 | |  | | Comments of the Consultant taken into account before FV |
| DT | 6.2.2.2.3 | | For clarity the text:  *…is not less than 0,4 kPa below atmospheric pressure and not greater than 2,5 kPa below atmospheric pressure.*  Should be the same as in 5.3.2  *…shall be between -0,4 kPa (gauge) and -2,5 kPa (gauge)…* | | Change 5.3.2.  *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.*  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. | |  | |  | |  |
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| **Decision of the STD’s WG:** | | | **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 I January 2007 and 31 December 2018 | |  |
| 14595:2016 | | Until further notice | |  |
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| **FprEN ISO 21029-2\_2015** | | **Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1 000 litres volume - Part 2: Operational requirements (ISO 21029-2:2015)** | | | | Where to refer in RID/ADR  Replace EN 1251-3:2000  6.2.4.2 | | Applicable sub-sections and paragraphs: | |
| WI 00268061 | |
| Assessment by CEN Consultant pending | | | | | | | | | |
| **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 |  | | It was agreed at the March 2015 meeting that this standard shall not be referenced since it contained defficiencies 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. | |  | |  | | Agreed |
| 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 |
| **Decision of the STD’s WG:** | | | Accepted  **Refused**  Postponed | 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  Keep the EN 1251-3:2000 for the moment.  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 |
| EN 1251-3:2000 | |  | |  |
| EN ISO 21029-2:2015 | |  | |  |
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| FprEN 16148 | | **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)** | | | | Where to refer in RID/ADR  Replace ver of 2006  6.2.1.6.1 | | Applicable sub-sections and paragraphs:  6.2.1.6.1 | |
| WI 00023171 | |
| Assessment from CEN Consultant pending | | | | | | | | | |
| **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 |  | | 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. | |  | |  | | Proposal to UN SCE-TDG by ISO when published. |
| DT |  | | No Comment | |  | |  | |  |
| CH |  | | We recommend that, if this standard is already published, it should be put into RID/ADR 2017 | |  | |  | | Agreed |
| **Decision of the STD’s WG:** | | | **Accepted**  Refused  Postponed | Additional comments  No transition needed as it is in the UN SC  A note in 6.2.3.5.1will be suggested to the Joint Meeting permitting the use of this EN ISO standard | Proposed transition regulation | | Applicable for new type approvals or for renewals | | Latest date for withdrawal of existing type approvals |
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| FprEN 1440 | | **LPG equipment and accessories - Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Periodic inspection** | | | | Where to refer in RID/ADR  Replace ver of 2008  6.2.4.2 | | Applicable sub-sections and paragraphs: | |
| WI 00286154 | |
| Assessment by CEN Consultant pending | | | | | | | | | |
| **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 |  | | 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. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | 5.5.2 Internal threads | | There is no requirement to check for leaks after valving. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | 7.3 Requirements for repair | | …carried out by a competent r person…  remove the r | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | B.3 Note 1 | | …allowed under conditions of ADR 2009 P200 v, which takes…  Remove the reference to the ADR version. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | Annex C | | If this standard is to be taken into RID/ADR then the requirements of this Annex should be excepted. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | D.5 marking | | …packing provision P200 (12) which includes…  Replace provision with instruction | |  | |  | | CEN Consultant comments to be considered at the next revision |
| CH | 4 | | Note 4: It has to be respected that EN ISO16148 is for **seamless** cylinders only  *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* ***seamless*** *steel cylinders and tubes of water having a capacity of up to 3 000 l used for compressed and liquefied gases.* | | delete the reference to EN ISO16148 | |  | | Agree to remove at the occasion of a next Amdt |
| CH | 5.3.2.4 d) | | Definition of Ph: Ph is the pressure applied by the inspection or testing body, not by the manufacturer | | replace "manufacturer" by "inspection or testing body | |  | | Agree to correct at the occasion of a next Amdt |
| **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 | |  |
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| EN 1440:2016 | | Mandatorily from 1 January 2019 | |  |

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| FprEN 16728 | | **LPG equipment and accessories - Transportable refillable LPG cylinders other than traditional welded and brazed steel cylinders - Periodic inspection** | | | | Where to refer in RID/ADR  Not yet referred | | Applicable sub-sections and paragraphs: | |
| WI 00286156 | |
| Assessment by CEN Consultant pending | | | | | | | | | |
| **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 |  | | Clause 7 does not take account of the restictions 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. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| 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. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | Table 1  Over-moulded cylinders | | — Internal condition check as described in 5.4;  5.4.1 Welded aluminium and steel cylinders of alternative design and construction  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. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | 5.2.2 Inspection procedure | | In this section there is no indication for the inspection requirement for over-moulded cylinders. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | 5.3.1 General | | There is no guidance on the additional hazards of pneumatic pressure testing. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| 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. | |  | |  | | 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. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | 7 Repair of cylinders | | Majors and minor repairs of cylinders…  There is no indication as to what constitutes a major or minor repair. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| DT | Table A 6 | | Damage of handle  Excessively deformed of the handle. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| 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. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| 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. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| 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. | |  | |  | | CEN Consultant comments to be considered at the next revision |
| CH |  | | We still belief 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 | |  | | General comment not in line with TC 286 decision |
| CH | 3.5 | | The definition of OMC in the design standard EN 14140 limits the water capacity to 13 liters. | | delete note 1 | |  | | Agree |
| CH | 3.5 | | There is no definition for OMC in ADR | |  | |  | | Not at this stage but does not impede the application at national level (FR, P) |
| CH | 4 Note 2 | | It has to be respected that ISO EN 16148 is for seamless steel cylinders only | | amend note | |  | | To be considered by the TC 286 working group in an urgent amendment |
| 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) | |  | |  | | To be considered by the TC 286 working group in an urgent amendment |
| 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 | |  | | To be considered by the TC 286 working group in an urgent amendment |
| CH | 5.5.2 / 6.2 Note | | This can be performed at..... | | Amend as "This **leak-tightness test** can be performed at.... | |  | | To be considered by the TC 286 working group in an urgent amendment |
| 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 | |  | | To be considered by the TC 286 working group in an urgent amendment |
| CH | D3 Note 1 | | As the extension to 15 years in the RID/ADR 2009 is only in connection with an agreement with the 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.  Additional remark: always use the RID/ADR not only ADR | | 15-year 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 | |  | | To be considered by the TC 286 working group in an urgent amendment |
| CH | F2.1 | | 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). | | Transfer the secend sentence after the note.  After the transferred sentence the following addition should be made:  **When the cylinders return to a filling plant, at the cylinders from the relevant annual production the periodic tests in accordance with 5.4, 5.5 and 5.6 have to be carried out** | |  | | To be considered by the TC 286 working group in an urgent amendment |
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| **Decision of the STD’s WG:** | | | **Accepted**  Refused  Postponed | Additional comments | Proposed transition regulation | | Applicable | | ~~Latest date for withdrawal of existing type approvals~~ |
|  | | Mandatorily from 1 January 2019 | |  |
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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 14140:2014 has been accepted for RID/ADR referencing in March 2015. Also, need to exclude over-moulded cylinders.

EN 12493:2013+A1:2014/AC:2015 – The 2013 version is in 6.8.2.6.1and 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" No action needed since the reference is undated.

EN ISO 9001:2015 Quality management systems - Requirements Propose to remove the date of this standard in RID/ADR.