

**Information regarding the development of EN standards for reference in the  
ADR/RID**

**Transmitted by the European Committee for Standardisation (CEN)**

The document in Appendix is issued as a regular update on the status of the CEN standards that are considered as eventual candidates for reference in ADR/RID.

Since the previous update at the November 2001 session of WP15, the following documents have been issued by CEN for the 6 months public enquiry:

| <b>Reference</b>             | <b>Title</b>  |
|------------------------------|---|
| EN 1975:1999/prA1-Alloy 2001 | Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0.5 litre up to 150 litre |
| prEN 14140                   | Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) - Alternative design and construction   |
| prEN 14189                   | Transportable gas cylinders - Gas cylinder valves - Inspection and maintenance  |
| prEN 14208                   | Transportable gas cylinders - Specification for welded gas drums up to 3000 litre capacity for the transport of gases - Design and construction   |

Those documents can be requested from the CEN National Members (the countries of EEA + Czech Republic) or from the Affiliates or Corresponding Members. The CEN website <http://www.cenorm.be/aboutcen/whatis/membership/> can be consulted for more recent information on its members, affiliates or corresponding members.

These documents will be presented to the Joint Meeting by the CEN consultant when they will be at their final stage ready for formal vote, hopefully at the latest for the March 2003 session.

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## **Reference in RID/ADR (restructured) to published standards and standards in preparation at CEN TC 23/256/261/268/286/296**

Notes: the standards (published or in preparation) are noted in the following lists as follows:

1. in **normal bold**: standards that have been adopted for reference
2. in **italic bold**: standards that have been proposed for future reference
3. in normal: standards in preparation for future reference
4. in *italic*: “supporting” standards; i.e. standards published or in preparation that are not candidates for future reference in ADR/RID but that are related to the provisions of ADR/RID and useful for the users of the regulations

### **Part 1 General provisions, definitions and training**

#### **1.2 Definitions and units of measurements**

Standards referred to in 1999 edition:

ASTM D 4359-90 in the definition of “liquid” and “solid”

### **Part 2 Classification**

#### **2.2 Class specific provisions**

##### **2.2.2 Class 2 Gases**

###### **2.2.2.1 Criteria**

Standards referred to in 1999 edition:

ISO 10156: 1990 flammability and oxidising ability

~~ISO 10298: 1995 toxicity criteria: (only for the LC50's values) reference deleted at JM Sep.2001~~

##### **2.2.3 Class 3 Flammable liquids**

###### **2.2.3.1 Criteria**

Standards referred to in 1999 edition:

ASTM D 4359-90

ISO 2431: 1984

##### **2.2.41 Class 4.1 Flammable solids**

###### **2.2.41 Criteria**

Standards referred to in 1999 edition:

ASTM D 4359-90

ISO 2431: 1984

##### **2.2.8 Class 8 Corrosive substances**

###### **2.2.8.1 Criteria**

Standards referred to in 1999 edition:

ASTM G31-72

ISO 9328

#### **2.3 Test methods**

##### **2.3.2 tests relating to flammable liquids of Classes 3, 6.1 and 8**

Standards referred to in 1999 edition:

for flash-point

ISO 1516; ISO 1523: 1983; ISO 2719: 1988; ISO 3679:1983; ISO 3680: 1983;

EN 22719: 1994

ASTM D56: 1993; ASTM D93: 1994; BS 2000 Part170: 1995; DIN 51755; Part1: 1974; DIN 51755, Part2:

1978; DIN 53213, Part 1: 1978; NF MO7-011:1988; ; NF MO7-036:1984; NF T66-009: 1969

IP 34: 1988

for fluidity

ISO 2137: 1985

## Part 3 Dangerous goods list

no reference to standards foreseen

## Part 4 Packing requirements (including use of packagings, IBC's, tanks, containers and vehicles for packing purposes)

### 4.1.4 List of packing instructions

in P200:

Published standards referred to in 2001 edition:

| Doc ref  | Title of document   |
|--|---|
| EN 1439:1996   | Transportable refillable welded steel cylinders for liquefied petroleum gases (LPG) - Procedures for checking before, during and after refilling (ADR only) |
| EN 1440:1996   | Transportable refillable welded steel cylinders for liquefied petroleum gases (LPG) - Periodic requalification  |
| EN 1801:1998   | Filling conditions for single acetylene cylinders   |
| EN 12755:2000  | Filling conditions for acetylene bundles  |
| "Supporting" standards (see note on top of document) |   |
| EN 1919:2000   | Cylinders for liquefiable gases (excluding acetylene) - Inspection at time of filling   |
| EN 1920:2000   | Cylinders for permanent gases - Inspection at time of filling   |
| EN 12754:2001  | Transportable gas cylinders -Cylinders for dissolved acetylene - Inspection at time of filling  |
| prEN 13096   | Transportable gas cylinders - Conditions for filling gases into cylinders - Single component gases  |
| prEN 13099   | Transportable gas cylinders - Conditions for filling gas mixtures into cylinders  |
| prEN 13365   | Transportable gas cylinders - Cylinder bundles for permanent and liquefied gases (excluding acetylene) - Inspection at the time of filling                  |
| prEN 13952   | LPG cylinders- Filling procedures   |

In P203:

Standards to refer to:

- no reference to standards foreseen

In P204:

Standards referred to: .

- for aerosol dispensers (1950 aerosols):Annex to the **Council Directive 75/324/EEC** as amended by Commission Directive 94/1/EC

- for 2037 gas cartridges containing 1965 hydrocarbon gas mixture, liquefied:

**EN 417: 1992** Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances - Construction, inspection, testing and marking

Standards to refer to in future editions when published:

| WI n°          | Doc ref               | Title of document   | Status  |
|----------------|-----------------------|---|---|
| GAS CARTRIDGES |                       |   |   |
| 157002         | prEN417:1992 rev 2002 | Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances - Construction, inspection, testing and marking | Document at formal vote, presented at JM March 2002 |

### 4.1.6 Special packing provisions for goods of Class 2

Published standards referred to in 2001 edition:

| Doc ref             | Title of document   |
|---------------------|---|
| EN 1795:1997        | Gas cylinders (excluding LPG) - Procedures for change of gas service  |
| EN 962:1996/A2:2000 | Valve protection caps and valve guards for industrial and medical gas cylinders - design, construction and tests- Amendment 2 |

Standards to refer to in future editions when published:

| WI n° | Doc ref | Title of document | Status |
|-------|---------|-------------------|--------|
|-------|---------|-------------------|--------|

|        |  |   |  |
|--------|--|---|--|
|        | <b>Annex A of EN 849:1996/A2:2001</b>      | <b>Cylinder valves: Specifications and type testing - Amendment 2</b>                                   | <b>adopted at JM Sep 2001 for 2003 edition</b> |
| 286009 | <i>EN 13152:2001 (impact testing only)</i> | <i>Specifications and testing for liquefied petroleum gas (LPG) - cylinder valves-self closing</i>      | <i>submitted to JM at May 2001 meeting</i>     |
| 286010 | <i>EN 13153:2001 (impact testing only)</i> | <i>Specifications and testing for liquefied petroleum gas (LPG) - cylinder valves-manually operated</i> | <i>submitted to JM at May 2001 meeting</i>     |

## **4.2 Use of UN portable tanks**

no reference to CEN standard foreseen

## **4.3 Use of fixed tanks, tank-vehicles, demountable tanks, battery vehicles and RID/ADR tank-containers**

“Supporting” standards (see note on top of document)

| <i>Doc ref</i>    | <i>Title of document</i>  |
|-------------------|---|
| <i>prEN 13385</i> | <i>Transportable gas cylinders - Battery vehicles for permanent and liquefied gases (excluding acetylene) - Inspection at the time of filling</i>                     |
| <i>prEN 13720</i> | <i>Filling conditions for acetylene cylinder battery trailers</i>   |
| <i>prEN 13776</i> | <i>Filling and discharge procedures for LPG road tankers</i>  |
|                   | <i>Discharge procedures for LPG rail tankers</i>  |
|                   | <i>Tanks for transport of liquid dangerous goods with vapour pressure not exceeding 110 kPa at 50°C and gravity drained (including petrol) - Operating conditions</i> |

## **Part 5 Consignments procedures**

### **5.2 Marking and labelling of packages**

Published standards adopted for reference in 2001 edition in 5.2.2.2.1.2:

| <b>Doc ref</b>                         | <b>Title of document</b>  |
|--|---|
| <b>ISO 7225:1994 (Dimensions only)</b> | <b>Precautionary labels for gas cylinders-Design, content and application</b> |

“Supporting” standards (see note on top of document)

|                       |  |
|-----------------------|--|
| <i>EN 1089-3:1997</i> | <i>Transportable gas cylinders - Gas cylinder identification - Part 3: Colour coding</i> |
|-----------------------|--|

## **Part 6 Requirements for the construction and testing of packagings, IBC's and tanks**

### **6.1 Requirements for the construction and testing of packagings**

Standards to refer to in 6.1.5 when published:

| <b>WI n°</b> | <b>Doc ref</b> | <b>Title of document</b>  | <b>Status</b>                  |
|--------------|----------------|---|--------------------------------|
| 261231       | prEN ISO 16101 | Packaging - Transport packages for dangerous goods - Plastics compatibility testing   | Document available for comment |
| 261232       |                | Packaging - Transport packages for dangerous goods - Quality assurance programmes for the manufacture and testing of packaging and IBCs | No document ready for comment  |
| 261255       | prEN ISO 16104 | Packaging - Transport packages for dangerous goods - Test methods for packaging   | Document available for comment |
| 261258       |                | Packaging - Transport packages for dangerous goods - Leak proof testing   | No document ready for comment  |
| 261999       |                | Packaging - Transport packages for dangerous goods - Recycled plastics material   | No document ready for comment  |

### **6.2 Requirements for the construction and testing of receptacles, aerosols and cartridges for gases**

Published standards referred to in 2001 edition in 6.2.2:

| <b>Doc ref</b> | <b>Title of document</b> |
|----------------|--------------------------|
|----------------|--------------------------|

| CYLINDERS                               |  |
|---|--|
| Annex I, Parts 1 to 3 to 84/525/EEC     | Council directive on the approximation of the laws of the Member States relating to seamless steel gas cylinders   |
| Annex I, Parts 1 to 3 to 84/526/EEC     | Council directive on the approximation of the laws of the Member States relating to welded unalloyed steel gas cylinders   |
| Annex I, Parts 1 to 3 to 84/527/EEC     | Council directive on the approximation of the laws of the Member States relating to seamless, unalloyed aluminium and aluminium alloy gas cylinders  |
| EN 1442:1998                            | Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) - Design and construction  |
| EN 1800:1998                            | Transportable gas cylinders - Acetylene cylinders- Basic requirements and definitions  |
| EN 1964-1:1999                          | Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders of capacity from 0.5 litre up to 150 litre - Part 1: Seamless steel with a maximum Rm value of 1100 N/mm <sup>2</sup> |
| EN 1964-3:2000                          | Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders of capacity from 0.5 litre up to 150 litre - Part 3: Cylinders made of stainless steel                                |
| EN 1975:1999 (except Annex G)           | Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless aluminium alloy gas cylinders of capacity from 0.5 litre up to 150 litre  |
| EN12862:2000                            | Transportable gas cylinders - Specification for the design and construction of refillable transportable welded aluminium alloy gas cylinders   |
| TUBES                                   |  |
| EN ISO 11120:1999                       | Gas cylinders - Refillable seamless steel tubes for compressed gas transport of water capacity between 150 litre and 3000 litre - Design, construction and testing   |
|   |  |
| PRESSURE DRUMS                          |  |
|   |  |
| CRYOGENIC RECEPTACLES                   |  |
| EN 1251-1:2000                          | Cryogenic vessels- Transportable, vacuum insulated, of not more than 1000 litres volume - Part 1: Fundamental requirements   |
| EN 1251-2:2000                          | Cryogenic vessels- Transportable, vacuum insulated, of not more than 1000 litres volume - Part 2: Design, fabrication, inspection and testing  |
| EN 1251-3:2000                          | Cryogenic vessels- Transportable, vacuum insulated, of not more than 1000 litres volume - Part 3: Operational requirements   |
| CYLINDER BUNDLES                        |  |
|   |  |
| MATERIALS                               |  |
| EN 1797- <del>1</del> -1998 :2001       | Cryogenic vessels-Gas/material compatibility - <del>Part 1: Oxygen compatibility</del> (modification of title and reference adopted at JM Sep.2001)  |
| EN ISO 11114-1:1997                     | Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents- Part 1: Metallic materials  |
| EN ISO 11114-2:2000                     | Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents- Part 2: Non-metallic materials  |
| MARKING                                 |  |
| EN 1089-1:1996                          | Gas cylinder identification Part 1: Stampmarking   |
| VALVES                                  |  |
| EN 849:1996 (except Annex A) /A2 :2001) | Cylinder valves: Specifications and type testing (modification of reference adopted at JM Sep.2001)  |

Standards to refer to in future editions when published:

| WI n°     | Doc ref      | Title of document   | Status                         |
|-----------|--------------|---|--------------------------------|
| CYLINDERS |              |   |                                |
| 23006     | prEN 13293   | Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless normalised carbon manganese steel gas cylinders up to and including 1litre | Document available for comment |
| 23008     | prEN 13322-1 | Transportable gas cylinders - Refillable welded steel gas cylinders - Design and construction - Part 1: Welded steel  | Document available for comment |

|                             |                   |  |   |
|-----------------------------|-------------------|--|---|
| 23009                       | prEN 13322-2      | Transportable gas cylinders - Refillable welded stainless steel gas cylinders - Design and construction - Part 1: Welded stainless steel   | Document available for comment  |
| [23013]                     | EN 12245:2002     | Transportable gas cylinders - Fully wrapped composite cylinders  | submitted to JM Sep. 2000 in Inf.Doc.8; submitted for adoption at JM Mar.2002]  |
| [23014]                     | EN 12205:2001     | Transportable gas cylinders - Non refillable metallic gas cylinders  | ; submitted to JM Sep.99 by Inf. Doc. 7; submitted for adoption at JM Mar.2002]   |
| [23050]                     | EN 12257:2002     | Transportable gas cylinders - Seamless, hoop wrapped composite cylinders -Specification  | submitted to JM Sep. 2000 in Inf.Doc.8; submitted for adoption at JM Mar.2002]  |
| [23053]                     | EN 1964-2:2001    | Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders of capacity from 0.5 litre up to 150 litre - Part 2: Tensile strength ( $R_m \max$ ) > 1100 N/mm <sup>2</sup> | submitted to JM at Sep. 2001 meeting; submitted for adoption at JM Mar.2002]  |
| 23086                       | EN 1975:1999/prA1 | Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless aluminium alloy gas cylinders of capacity from 0.5 litre up to 150 litre  | Document available for comment  |
| [286002]                    | EN 12807:2001     | Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) - Design and construction  | submitted to JM Sep.2000 in Inf.Doc.8; submitted for adoption at JM Mar.2002]   |
| 286037                      | prEN 13110        | Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) - Design and construction  | Document at formal vote   |
| 286056                      | prEN 14140        | Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) - Alternative design and construction  | Document available for comment  |
| 286057                      |                   | Transportable refillable composite cylinders for LPG - design and construction   | No document ready for comment   |
| <b>PRESSURE DRUMS</b>       |                   |  |   |
| 23054                       | PrEN14208         | Welded steel drums: cap < 1000l  | Document available for comment  |
| <b>BUNDLES OF CYLINDERS</b> |                   |  |   |
| 23069                       | prEN 13769        | Transportable gas cylinders - Cylinder bundles -Design, manufacture, identification and testing  | Document available for comment  |
| <b>VALVES</b>               |                   |  |   |
| 286009                      | EN 13152:2001     | Specifications and testing for liquefied petroleum gas (LPG) - cylinder valves-self closing  | Issued for CEN formal approval; submitted to JM at May 2001 meeting in Inf.8; J; submitted for adoption at JM Mar.2002  |
| 286010                      | EN 13153:2001     | Specifications and testing for liquefied petroleum gas (LPG) - cylinder valves-manually operated   | Issued for CEN formal approval; submitted to JM at May 2001 meeting in Inf. 8; J; submitted for adoption at JM Mar.2002 |
| <b>PERIODIC INDECTION</b>   |                   |  |   |
| [23040]                     | EN 1968:2002      | Transportable gas cylinders - Periodic inspection and testing of seamless steel gas cylinders (excluding LPG)  | ;submitted for comments to JM at Sep. 2001 meeting]; submitted for adoption at JM Mar.2002                              |
| [23052]                     | EN ISO 11623:2002 | Transportable gas cylinders - Periodic inspection and testing of composite gas cylinders   | submitted to JM Sep. 2000 in Inf.Doc.8]; J; submitted for adoption at JM Mar.2002                                       |
| 23057                       | prEN 12863        | Transportable gas cylinders - Periodic inspection and maintenance of dissolved acetylene cylinders   | Document at formal vote   |
| [23064]                     | EN 1802:2002      | Transportable gas cylinders - Periodic inspection and testing of seamless aluminium gas cylinders  | submitted for comments to JM at Sep. 2001 meeting];   |

|        |              |   |   |
|--------|--------------|---|---|
|        |              |   | <i>submitted for adoption at JM Mar.2002]</i> |
| 23065  | EN 1803:2002 | Transportable gas cylinders - Periodic inspection and testing of welded steel gas cylinders (excluding LPG) | to be submitted to JM at Mar. 2002 meeting    |
| 286032 |              | Brazed steel cylinders for LPG - Periodic requalification   | No document ready for comment                 |

“Supporting” standards (see note on top of document)

| <i>Doc ref</i>              | <i>Title of document</i>   |
|-----------------------------|--|
| <i>EN ISO 13340:2001</i>    | <i>Transportable gas cylinders - Cylinder valves for non-refillable cylinders - Specifications and type testing</i>  |
| <i>Tech. Report</i>         | <i>Transportable gas cylinders - High porosity porous masses for acetylene cylinders</i>   |
| <i>WI 23084</i>             | <i>Transportable gas cylinders - Gas cylinder valves - Inspection and maintenance</i>  |
| <i>WI 23030</i>             | <i>Gas cylinders - Safety devices to protect the cylinder against over-pressurisation - Specification and testing (bursting discs, relief valves, fusible plugs,...)</i> |
| <i>EN ISO 11114-3: 1997</i> | <i>Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents- Part 3: Autogenous ignition test in oxygen atmosphere</i>              |
| <i>PrEN 13953</i>           | <i>Pressure relief valves for LPG cylinders</i>  |

Published standards referred to in 2001 edition in 6.2.4:

| <b>Doc ref</b>  | <b>Title of document</b>   |
|---|--|
| <b>AEROSOLS</b>   |  |
| <b>Annex to the Council Directive 75/324/EEC as amended by Commission Directive 94/1/EC</b> |  |
| <b>GAS CARTRIDGES</b>   |  |
| <b>EN 417:1992</b>  | <b>Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances - Construction, inspection, testing and marking</b> |

Standards to refer to in future editions when published:

| <b>WI n°</b>          | <b>Doc ref</b>        | <b>Title of document</b>  | <b>Status</b>                                       |
|-----------------------|-----------------------|---|---|
| <b>GAS CARTRIDGES</b> |                       |   |   |
| 157002                | prEN417:1992 rev 2002 | Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances - Construction, inspection, testing and marking | Document at formal vote, presented at JM March 2002 |

### 6.3 Requirements for the construction and testing of packagings for Class 6.2 substances

Standards to refer to:

no reference to CEN standard foreseen

### 6.5 Requirements for the construction and testing of intermediate bulk containers (IBC's),

Standards to refer to:

| <b>WI n°</b> | <b>Doc ref</b> | <b>Title of document</b>  | <b>Status</b>                  |
|--------------|----------------|---|--------------------------------|
| 261206       | prEN ISO 16467 | Packaging - Transport packages for dangerous goods - Test methods for IBCs  | document available for comment |
| 261232       |                | Packaging - Transport packages for dangerous goods - Quality assurance programmes for the manufacture and testing of packaging and IBCs | No document ready for comment  |
| 261xxx       |                | Packaging - Transport packages for dangerous goods - Recycled plastics material   | No document ready for comment  |

### 6.8 Requirements for the construction and testing of fixed tanks (tank-vehicles), demountable tanks, battery-vehicles and RID/ADR tank-containers

Standards referred to:

**ISO R 148**

Standards to refer to in 6.8.2

| <b>WI n°</b> | <b>Doc ref</b> | <b>Title of document</b> | <b>Status</b> |
|--------------|----------------|--------------------------|---------------|
|--------------|----------------|--------------------------|---------------|

| <b>GENERIC TANKS</b>   |   |   |  |
|------------------------|---|---|--|
| 296002                 | prEN 13094                                  | Tanks for the transport of dangerous goods - Non-pressure metallic tanks - Design and construction                                  | Document available for comment                           |
| 296003                 | prEN 14025                                  | Tanks for transport of dangerous goods -P >50 kPa - design and construction   | Document available for comment                           |
| 296008                 | prEN 13314                                  | Tanks for transport of dangerous goods - Service equipment - Fill hole cover  | Document ready for formal vote; submitted to JM Mar 2002 |
| 296011                 | prEN 13308                                  | Tanks for transport of dangerous goods - Service equipment - Non pressure balanced footvalve  | Document ready for formal vote; submitted to JM Mar 2002 |
| <b>296018</b>          | <b>EN 12972:2001 (except annex C and D)</b> | <b>Tanks for transport of dangerous goods - Testing, inspection and marking of metallic tanks.</b>                                  | <b>adopted at JM May 2001 for 2003 edition</b>           |
| 296020                 | prEN 13316                                  | Tanks for transporting dangerous goods - Service equipment - Pressure balanced footvalve  | Document ready for formal vote; submitted to JM Mar 2002 |
| 296024                 |   | Tanks for transport of dangerous goods - Tank equipment for the transport of liquid chemicals - Foot valve                          | No document ready for comment                            |
| 296025                 |   | Tanks for transport of dangerous goods - Tank equipment for the transport of liquid chemicals - Hinged manholes, collars and fixing | No document ready for comment                            |
| 296027                 | prEN 13317                                  | Tanks for transporting dangerous goods - Service equipment - Manhole cover assembly   | Document ready for formal vote; submitted to JM Mar 2002 |
| <b>LPG TANKS</b>       |   |   |  |
| [286007]               | EN 12493:2001                               | <i>Design and manufacture of welded steel tanks for LPG road tankers.</i>   | <i>submitted to WP15 Nov 2000]</i>                       |
| 286008                 |   | Design and manufacture of welded steel tanks for LPG rail tankers.  | No document ready for comment                            |
| [286021]               | EN 12252:2000                               | <i>Equipping of LPG road tankers</i>  | <i>Document published; submitted to WP15 Nov2000]</i>    |
| <b>CRYOGENIC TANKS</b> |   |   |  |
| 268022                 |   | Large transportable non-vacuum insulated vessels -Part 2: Design, fabrication, inspection and testing                               | No document ready for comment                            |
| 268025                 | prEN 13530-2                                | Cryogenic vessels - Large transportable vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing              | Document at final vote; submitted to WP15 Nov.2001       |

#### Standards to refer to in 6.8.3

| WI n° | Doc ref    | Title of document  | Status                         |
|-------|------------|--|--------------------------------|
| 23070 | prEN 13807 | Cylinder battery trailers -design, manufacture, identification and testing | document available for comment |

#### Standards to refer to in 6.8.5:

| WI n° | Doc ref         | Title of document  | Status  |
|-------|-----------------|--|---|
|       | EN 1252-1: 1998 | Cryogenic vessels - Materials - Part 1: Toughness requirements for temperature below -80°C             | In 2001 edition in 6.2.2; moved to 6.8.5 for 2003 edition |
|       | EN 1252-2:2001  | Cryogenic vessels - Materials - Part 1: Toughness requirements for temperature between -80°C and -10°C | adopted at JM May 2001 for 2003 edition]                  |

#### “Supporting” standards (see note on top of document)

| Doc ref         | Title of document   |
|-----------------|---|
| EN 12561-1:1998 | Railway applications - Tank wagons - Part1: Marking of tank wagons for the carriage of dangerous goods              |
| prEN 12561-2    | Railway applications - Tank wagons - Part 2: Bottom emptying devices for liquid products including vapour return    |
| prEN 12561-3    | Railway applications - Tank wagons - Part 3: Bottom filling and emptying devices for gases liquefied under pressure |
| prEN 12561-4    | Railway applications - Tank wagons - Part 4: Top devices for top emptying and filling of liquid products.           |

|                       |  |
|-----------------------|--|
| <i>prEN 12561-5</i>   | <i>Railway applications - Tank wagons - Part 5: Top devices for bottom emptying and top filling of liquid products.</i>  |
| <i>prEN 12561-6</i>   | <i>Railway applications - Tank wagons - Part 6: Manholes .</i>   |
| <i>EN 13081:2001</i>  | <i>Tanks for transport of dangerous goods - Service equipment for tanks - Vapour collection adaptor and vapour collection coupler</i>  |
| <i>EN 13082:2001</i>  | <i>Tanks for transport of dangerous goods - Service equipment - Vapour transfer valve</i>  |
| <i>EN 13083:2001</i>  | <i>Tanks for transport of dangerous goods - Service equipment - Adaptor for bottom loading and unloading</i>   |
| <i>prEN 13175</i>     | <i>Specifications and testing for LPG tank valves and fittings</i>   |
| <i>296009</i>         | <i>Tanks for transport of liquid dangerous goods - Tanks with vapour pressure not exceeding 110kPa at 50°C - Service equipment for tanks - Pressure and vacuum breather vent</i> |
| <i>296010</i>         | <i>Tanks for transport of liquid dangerous goods - Tanks with vapour pressure not exceeding 110kPa at 50°C - Service equipment for tanks - Emergency venting</i>                 |
| <i>prEN 13315</i>     | <i>Tanks for transport of dangerous goods - Service equipment - Gravity discharge coupler</i>  |
| <i>296022</i>         | <i>Tanks for transport of dangerous goods - Tank equipment for the transport of liquid chemicals - Air inlet and discharge valve</i>   |
| <i>prEN 13530-1</i>   | <i>Cryogenic vessels - Large transportable vacuum insulated vessels - Part 1: Fundamental requirements</i>   |
| <i>268003</i>         | <i>Large transportable non-vacuum insulated vessels- part 1: Fundamental requirements</i>  |
| <i>prEN 13530-3</i>   | <i>Cryogenic vessels - Large transportable vacuum insulated vessels - Part 3: Operational requirements</i>   |
| <i>268004</i>         | <i>Large transportable non-vacuum insulated vessels -Part 3: Operational requirements</i>  |
| <i>prEN 13648-1</i>   | <i>Cryogenic vessels - Safety devices for protection against excessive pressure - Part 1: Safety valves for cryogenic services</i>   |
| <i>prEN 13648-2</i>   | <i>Cryogenic vessels - Safety devices for protection against excessive pressure - Part 2: Bursting discs for cryogenic services</i>  |
| <i>prEN 13648-3</i>   | <i>Cryogenic vessels - Safety devices for protection against excessive pressure - Part 3: Determination of required discharge capacity and sizing for relief devices</i>         |
| <i>EN 1626:1999</i>   | <i>Cryogenic vessels- valves for cryogenic service</i>   |
| <i>EN 12300:1998</i>  | <i>Cryogenic vessels - Cleanliness for cryogenic service</i>   |
| <i>EN 12434: 2000</i> | <i>Cryogenic vessels - Cryogenic flexible hoses</i>  |
| <i>prEN 13799</i>     | <i>Contents gauge for LPG tanks</i>  |
| <i>prEN 14071</i>     | <i>Pressure relief valves for LPG tanks - Ancillary equipment</i>  |
| <i>286024</i>         | <i>Inspection and testing of LPG road tankers</i>  |
| <i>286028</i>         | <i>Requalification procedures for LPG rail tankers</i>   |
| <i>PrEN 16421</i>     | <i>Pressure relief valves for LPG tanks</i>  |

## **Part 7 Provisions concerning the conditions of carriage, loading, unloading and handling**

### **7.5.1 Handling and stowage**

“Supporting” standards (see note on top of document)

|                      |   |
|----------------------|---|
| <i>EN 12640:2000</i> | <i>Securing of cargo on road vehicles – lashing points on commercial vehicles for goods transportation – Minimum requirements and testing</i> |
| <i>prEN 12642</i>    | <i>Securing of cargo on road vehicles - Body structure of commercial vehicles- Minimum requirements</i>                                       |