

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

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Joint Meeting of the RID Committee of Experts and the

Working Party on the Transport of Dangerous Goods

Geneva, 13–17 September 2010

Item 2 of the provisional agenda

Tanks

**Discussion document related to
TRANS/WP.15/AC.1/2010/43, transmitted by the
Government of Germany**

Overview of transitional measures in ADR 1.6.3

Transmitted by the Government of Belgium

Introduction

1. In working document TRANS/WP.15/AC.1/2010/43 and the related informal document INF 6, Germany and the RID Committee of Experts' working group on tank and vehicle technology have reviewed all the transitional provisions in RID 1.6.3 relating specifically to tank-wagons. These documents have been submitted to the Joint Meeting to be discussed in the tank working group.

2. Since many of the transitional measures in RID share a common basis in ADR, the above mentioned documents rightly point out that it has to be checked if the proposed actions to be taken or the comments made also apply to the relevant provisions in ADR. Belgium has therefore studied all of the transitional measures in ADR 1.6.3 and provides an overview, as well as proposed actions to be taken per transitional measure, in the table attached to this document.

Proposal

3. Include the table presented in the annex to this document to facilitate the tank working group discussion related to transitional measures in ADR/RID 1.6.3.

4. As a general comment, it would be useful to compose a version of ADR/RID which shows the various changes per biennium going back at least to the restructured version of 2001 for future reference regarding the evaluation of transitional measures.

ANNEX

Transitional provisions in ADR 1.6.3

| | ADR 2009 | Proposal |
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| 1.6.3 | Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles | |
| 1.6.3.1 | Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles built before the entry into force of the requirements applicable as from 1 October 1978 may be kept in service if the equipment of the shell meets the requirements of Chapter 6.8. The thickness of the shell wall, except in the case of shells intended for the carriage of refrigerated liquefied gases of Class 2, shall be appropriate to a calculation pressure of not less than 0.4 MPa (4bar) (gauge pressure) in the case of mild steel or of not less than 200 kPa (2 bar) (gauge pressure) in the case of aluminium and aluminium alloys. For other than circular cross-sections of tanks, the diameter to be used as a basis for calculation shall be that of a circle whose area is equal to that of the actual cross-section of the tank. | Combine with 1.6.3.3. |
| 1.6.3.2 | The periodic tests for fixed tanks (tank-vehicles), demountable tanks and battery-vehicles kept in service under these transitional requirements shall be conducted in accordance with the requirements of 6.8.2.4 and 6.8.3.4 and with the pertinent special requirements for the various classes. Unless the earlier requirements prescribed a higher test pressure, a test pressure of 200 kPa (2 bar) (gauge pressure) shall suffice for aluminium shells and aluminium alloy shells. | Keep transitional provision. |

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| 1.6.3.3 | Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles which meet the transitional requirements in 1.6.3.1 and 1.6.3.2 may be used until 30 September 1993 for the carriage of the dangerous goods for which they have been approved. This transitional period shall not apply to fixed tanks (tank-vehicles), demountable tanks and battery-vehicles intended for the carriage of substances of Class 2, or to fixed tanks (tank-vehicles), demountable tanks and battery-vehicles whose wall thickness and items of equipment meet the requirements of Chapter 6.8. | Combine the part relative to tanks for substances of Class 2 or tanks whose wall thickness and items of equipment meet the requirements of Chapter 6.8 with transitional provision 1.6.3.1. This allows those (mainly gas-)tanks built before 1 October 1978 to still be used, as is the case now. The rest is obsolete from 30 September 1993. |
| 1.6.3.4 | (a) Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles constructed before 1 May 1985 in accordance with the requirements of ADR in force between 1 October 1978 and 30 April 1985 but not conforming to the requirements applicable as from 1 May 1985 may continue to be used after that date; (b) Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles, constructed between 1 May 1985 and the entry into force of the requirements applicable as from 1 January 1988 which do not conform to those requirements but were constructed according to the requirements of ADR in force until that date, may continue to be used after that date. | Combine (a) and (b) as there is no reason to keep these provisions as separate entries. |
| 1.6.3.5 | Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles, constructed before 1 January 1993 in accordance with the requirements in force up to 31 December 1992 but which do not conform to the requirements applicable as from 1 January 1993 may still be used. | Keep transitional provision but reference the extra requirements applicable from 1 January 1993. |

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| <p>1.6.3.6</p> | <p>(a) Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles constructed between 1 January 1978 and 31 December 1984, if used after 31 December 2004, shall conform to the requirements of marginal 211 127(5), applicable as from 1 January 1990, concerning shell thickness and protection against damage;</p> <p>(b) Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles constructed between 1 January 1985 and 31 December 1989, if used after 31 December 2010, shall conform to the requirements of marginal 211 127(5), applicable as from 1 January 1990, concerning shell thickness and protection against damage.</p> | <p>Possibly update the reference to marginals to the relevant paragraphs of the restructured ADR (6.8.2.1.20) as few people have records dating so far back in time. Again it is possible to combine (a) and (b) into a single entry.</p> |
| <p>1.6.3.7</p> | <p>Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles constructed before 1 January 1999 in accordance with the requirements in force up to 31 December 1998 but which do not, however, conform to the requirements applicable as from 1 January 1999 may still be used.</p> | <p>Keep transitional provision but reference the extra requirements applicable from 1 January 1999.</p> |
| <p>1.6.3.8</p> | <p>Fixed tanks (tank-vehicles) demountable tanks and battery-vehicles intended for the carriage of substances of Class 2, which were built prior to 1 January 1997, may carry markings conforming to the requirements applicable up to 31 December 1996, until the next periodic test.</p> <p>When, because of amendments to ADR, some proper shipping names of gases have been modified, it is not necessary to modify the names on the plate or on the shell itself (see 6.8.3.5.2 or 6.8.3.5.3), provided that the names of the gases on the fixed tanks (tank-vehicles), demountable tanks and battery-vehicles or on the plates [see 6.8.3.5.6 (b) or (c)] are adapted at the first periodic test thereafter.</p> | <p>The first paragraph will be obsolete in ADR 2013. The second paragraph is still needed.</p> |
| <p>1.6.3.11</p> | <p>Fixed tanks (tank-vehicles) and demountable tanks constructed before 1 January 1997 in accordance with the requirements in force up to 31 December 1996 but which do not, however, conform to the requirements of marginals 211 332 and 211 333 applicable as from 1 January 1997, may still be used.</p> | <p>Possibly update the reference to marginals to the relevant paragraphs of the restructured ADR (6.8.3.2) as few people have records dating so far back in time.</p> |

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| 1.6.3.15 | Fixed tanks (tank-vehicles) and demountable tanks constructed before 1 July 2007 in accordance with the requirements in force up to 31 December 2006 but which do not, however, conform to the requirements of 6.8.2.2.3 applicable as from 1 January 2007 may continue to be used until the next periodic inspection. | Keep transitional provision at least until 30 June 2013. |
| 1.6.3.16 | For fixed tanks (tank-vehicles), demountable tanks and battery-vehicles constructed before 1 January 2007 which do not conform to the requirements of 4.3.2, 6.8.2.3, 6.8.2.4 and 6.8.3.4 concerning the tank record, the retention of files for the tank record shall start at the latest at the next periodic inspection. | Keep transitional provision at least until 31 December 2012. |
| 1.6.3.17 | Fixed tanks (tank-vehicles) and demountable tanks intended for the carriage of substances of Class 3, packing group I having a vapour pressure of not more than 175 kPa (1.75 bar) (absolute) at 50°C, constructed before 1 July 2007 in accordance with the requirements applicable up to 31 December 2006, to which tank code L1.5BN had been assigned in accordance with the requirements applicable up to 31 December 2006, may continue to be used for the carriage of the substances mentioned above, until 31 December 2018 | Keep transitional provision at least until 31 December 2018. |
| 1.6.3.18 | Fixed tanks (tank-vehicles), demountable tanks and battery-vehicles constructed before 1 January 2003 in accordance with the requirements in force up to 30 June 2001, but which do not, however, conform to the requirements applicable as from 1 July 2001, may still be used. | Keep transitional provision? What were the extra requirements in the restructured ADR applicable from 1 July 2001? |
| 1.6.3.19 | Fixed tanks (tank-vehicles) and demountable tanks constructed before 1 January 2003 in accordance with the requirements of 6.8.2.1.21 in force up to 31 December 2002 but which do not, however, conform to the requirements applicable as from 1 January 2003 may still be used. | Keep transitional provision. |

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| 1.6.3.20 | Fixed tanks (tank-vehicles) and demountable tanks constructed before 1 July 2003 in accordance with the requirements in force up to 31 December 2002 but which do not, however, conform to the requirements of 6.8.2.1.7 applicable as from 1 January 2003 and special provision TE15 of 6.8.4 (b) applicable from 1 January 2003 to 31 December 2006 may still be used. | Keep transitional provision. |
| 1.6.3.25 | The type of the test (“P” or “L”) required by 6.8.2.5.1 need not be added to the tank plate until the first test after 1 January 2007 is performed | Obsolete in ADR 2013. |
| 1.6.3.26 | Fixed tanks (tank-vehicles) and demountable tanks constructed before 1 January 2007 in accordance with the requirements in force up to 31 December 2006, but which do not, however, conform to the requirements applicable as from 1 January 2007 regarding the marking of the external design pressure in accordance with 6.8.2.5.1, may still be used. | Keep transitional provision. |
| 1.6.3.30 | Vacuum-operated waste fixed tanks (tank-vehicles) and demountable tanks constructed before 1 July 2005 in accordance with the requirements applicable up to 31 December 2004 but which do not conform to the requirements of 6.10.3.9 applicable as from 1 January 2005, may still be used. | From a technical viewpoint this transitional measure is no longer strictly required as the tuning of the safety valves and the conditions specified would have been remedied during the next periodic inspection dating at the latest 1 January 2011. |
| 1.6.3.31 | Fixed tanks (tank-vehicles), demountable tanks and tanks forming elements of battery-vehicles designed and constructed in accordance with a technical code which was recognized at the time of their construction according to the provisions of 6.8.2.7 which were applicable at that time may still be used. | Keep transitional provision. |

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| <p>1.6.3.32</p> | <p>Fixed tanks (tank-vehicles) and demountable tanks constructed before 1 July 2007 in accordance with the requirements applicable up to 31 December 2006, equipped with manhole cover assemblies in accordance with the provisions of standard EN 13317:2002 referred to in the table of paragraph 6.8.2.6, applicable until 31 December 2006, including those of the figure and table B.2 of annex B of the said standard which are no longer accepted as from 1 January 2007, or the material of which does not meet the requirements of EN 13094:2004 paragraph 5.2, may still be used.</p> | <p>Keep transitional provision.</p> |
| <p>1.6.3.33</p> | <p>When the shell of a fixed tank (tank-vehicle) or demountable tank was already divided by partitions or surge plates into sections of more than 7500 litres capacity before 1 January 2009, the capacity of the shell need not be supplemented with the symbol “S” in the particulars required by 6.8.2.5.1 until the next periodic inspection according to 6.8.2.4.2 is performed.</p> | <p>Keep transitional provision at least until 31 December 2015.</p> |
| <p>1.6.3.34</p> | <p>Notwithstanding the provisions of 4.3.2.2.4, fixed tanks (tank-vehicles) and demountable tanks intended for the carriage of liquefied gases or refrigerated liquefied gases, which meet the applicable construction requirements of ADR but which were divided, before 1 July 2009, by partitions or surge plates into sections of more than 7500 litres capacity may still be filled to more than 20% and less than 80% of their capacity.</p> | <p>Keep transitional provision, date the ADR version that is of application.</p> |
| <p>1.6.3.35</p> | <p>Contracting parties need not apply the requirements of 1.8.6, 1.8.7 and 6.8.4 TA4 and TT9 before 1 July 2011.</p> | <p>Obsolete in ADR 2013.</p> |
| <p>1.6.3.40</p> | <p>FRP tanks which have been constructed before 1 July 2002 in conformity with a design type approved before 1 July 2001 in accordance with the requirements of Appendix B.1c which were in force until 30 June 2001 may continue to be used until the end of their lifetime provided that all the requirements in force up to 30 June 2001 have been and continue to be complied with.</p> <p>However, as from 1 July 2001, no new design type may be approved in accordance with the requirements in force until 30 June 2001.</p> | <p>Possibly update the reference to Appendix B.1c to the relevant paragraphs of the restructured ADR (6.8 and 6.9) as few people have records dating so far back in time.</p> |