



Economic and Social Council

Distr.: General
16 February 2010
English
Original: English and French

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

Eighty-eighth session

Geneva, 3–7 May 2010

Item 6 (b) of the provisional agenda

Proposals for amendments to annexes A and B of ADR: construction and approval of vehicles

Chapter 9.2: requirements for electrical connections

Transmitted by the Government of France*

Summary

Executive summary: The purpose of this document is to allow in 9.2.2.6.3 an electrical connection for permanently energized equipment.

Action to be taken: Amend the provisions in 9.2.2.6.3 for electrical connections.

Introduction

1. The new requirements in 9.2.2.6.3 of ADR have to be applied on FL and EX/III vehicles from 1 July 2011.
2. Two types of connections are prescribed, one (ISO 12098) for lighting of the vehicles and general low voltage supply and another one (ISO 7638) for antilock or electronic braking systems.
3. It appears however that for other applications additional connections are used, for example for data transfer between tractor and trailer mainly for fuel distribution.

* The present document is submitted in accordance with paragraph 1(c) of the terms of reference of the Working Party, as contained in document ECE/TRANS/WP.15/190/Add.1, which provides a mandate to “Develop and update the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)”.

4. The following proposal is to complete the standards given in 9.2.2.6.3.

Proposal

5. Modify 9.2.2.6.3 as follows:

“9.2.2.6.3 Electrical connections

Electrical connections between motor vehicles and trailers shall have a protection degree IP54 in accordance with IEC 60529 and be designed to prevent accidental disconnection. Connections shall be in conformity with ISO 12098:2004, ISO 7638:2003 and EN15207:2006 as appropriate.”.

Justification

6. EN 15207 standard has been developed by CEN Technical Committee on tanks for the transport of dangerous goods to meet the need of permanently energized equipment under safe conditions. The connection described in this standard gives an identical level of safety as the ISO 12098.

Safety

7. No problem.

Feasibility and applicability

8. Facilitates the application of ADR.
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