



Economic and Social Council

Distr.: General
31 January 2011

Original: English
English and French only

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

Working Party on General Safety Provisions

100th session

Geneva, 11–15 April 2011

Item 3(a) of the provisional agenda

Regulation No. 107 (M₂ and M₃ vehicles)

Proposal for a Supplement to Regulation No. 107 (M₂ and M₃ vehicles)

Submitted by the experts from France, Germany, Norway and Sweden *

The text reproduced below was prepared by the experts from France, Germany, Norway and Sweden to introduce requirements for fire detection systems in compartments other than the engine compartment. The modifications to the current text of the Regulation are marked in bold for new or strikethrough for deleted characters.

*In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106 and ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Proposal

Insert new paragraphs 10.21. to 10.23., to read:

- "[10.21.] As from the official date of entry into force of the Supplement [1] to the [04] series of amendments, no Contracting Party applying this Regulation shall refuse to grant approval under this Regulation as amended by the Supplement [1] to the [04] series of amendments.
- [10.22.] As from 24 months after the date of entry into force of the Supplement [1] to the [04] series of amendments, Contracting Parties applying this Regulation shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by Supplement [1] to the [04] series of amendments.
- [10.23.] As from 36 months after the entry into force of Supplement [1] to the [04] series of amendments, Contracting Parties applying this Regulation may refuse to grant national/regional approvals and first national registration (first entry into service) of a vehicle which does not meet the requirements of Supplement [1] to the [04] series of amendments to this Regulation."

Annex 3, insert new paragraphs 7.5.6. to 7.5.6.3., to read:

- "7.5.6. Fire Detection.
- 7.5.6.1. Vehicles shall be equipped with an alarm system detecting either an excess temperature or smoke in separate compartments, which can not be viewed by the driver directly or indirectly by suitable devices, toilet compartments and driver's sleeping compartments and in the staircase(s) of double deck vehicles.
- 7.5.6.2. Upon fire detection, the system given in paragraph 7.5.6.1. shall provide the driver with both an acoustic and a visual signal.
- 7.5.6.3. The alarm system shall be at least operational whenever the engine start device is operated, until such time as the engine stop device is operated, regardless of the vehicle's attitude."

II. Justification

1. Studies from different countries show that in a significant number of cases, fire is initiated from the interior compartment of buses and coaches. An alarm system is recommended to inform the driver at an early stage of a possible fire hazard in compartments which are not directly visible.
 2. The alarm system will inform the driver of the need to evacuate the passengers quickly. Various detection devices already exist on the market. Adequate transitional provisions are needed for the adaptation of vehicles.
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