Working Party on the Transport of Dangerous Goods (Seventy-first session, Geneva, 5-9 November 2001, agenda item 4)

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UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE INLAND TRANSPORT COMMITTEE

Ad hoc Multidisciplinary Group of Experts on Safety in Tunnels

# RECOMMENDATIONS OF THE GROUP OF EXPERTS ON SAFETY IN ROAD TUNNELS

#### FINAL REPORT

Version 1.5

## DRAFT

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#### Measure D1.06

### Instruction of <u>drivers</u> of vehicles carrying <u>dangerous goods</u> should include specific aspects of behaviour in tunnels.

All drivers of vehicles transporting dangerous goods already have to undergo special instruction leading to a test , and successful candidates are awarded a certificate. They are required to attend a follow-up course and take another test every five years in order to renew this certificate. The initial training of new drivers as well as the follow-up courses for experienced drivers should include instruction on safety in tunnels.

#### Measure D1.07

## <u>Regulations</u> governing the transport of dangerous goods through tunnels should be <u>rationalized</u> at the international level.

OECD and PIARC are currently completing a proposal to:

- 1. create **five dangerous goods cargo groupings** accepted at the international level and which should be used to regulate the authorization of the transport of dangerous goods in road tunnels.
- 2. propose a quantitative risk analysis be carried out, taking into account both the itinerary including the tunnel and any alternative itinerary(ies), and a decision supporting model, allowing the authorization or not of all or part of the transport of the dangerous goods through each tunnel.

It is recommended:

- (a) to include the five dangerous goods cargo groupings proposed by OECD and PIARC in the appropriate UN and/or UN ECE legal instruments so that their use becomes compulsory for tunnel regulations regarding dangerous goods.
- (b) to create a new sign to be placed at tunnel entrances indicating which groupings of dangerous goods are allowed/prohibited, with reference to the five dangerous goods cargo groupings to be created.
- (c) to perform a quantitative risk analysis as proposed by OECD and PIARC before deciding on tunnel regulations regarding dangerous goods.
- (d) to study the possibility of classification as dangerous goods of certain liquids or easily liquefied substances with calorific values comparable to that of hydrocarbons.
- (e) to consider operating measures for reducing the risks involved in the transport of dangerous goods in tunnels (declaration before entering, escort, etc.), on a case-by-case basis. Regulations may require the formation of convoys and accompanying vehicles for the transport of certain types of particularly dangerous goods; however, these measures are also dependent on sufficient space being available in front or in advance of the tunnel as well as available operational means.
- (f) to study the possibility of introducing automatic detection of dangerous goods transport (e.g. by electronic devices carried on vehicles).