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(Bern, 7-11 March 2005)

TANKS

Paragraph 6.8.2.1.20

Requirement for External Tank Bands

Transmitted by the Government of the United Kingdom */

SUMMARY	
Executive Summary:	The proposal seeks to clarify the requirement for external protective bands on tanks to prevent lateral damage.
Action to be taken:	To remove the requirements for banding on the front and rear ends of the tanker by amending the text in 6.8.2.1.20 (b) 4. of ADR.
Related documents:	N/A.

Background and Discussion

ADR stipulates in 6.8.2.1.20 (b) 4. that a banding should be applied all around the tank shell at the mid-point of their vertical height and over at least 30% of the tank shell height.

*/ Circulated by the Central Office for International Carriage by Rail (OCTI) under the symbol OCTI/RID/GT-III/2005/22.

The requirements of 6.8.2.1.20 (b) 4. in ADR 2005:

4. Shells of forms other than in 1, especially box-shaped shells, **are provided, all round the mid-point of their vertical height and over at least 30% of their height** with a protection designed in such a way as to offer specific resilience at least equal to that of a shell constructed in mild steel ³ of a thickness of 5 mm (for a shell diameter not exceeding 1.80 m) or 6 mm (for a shell diameter exceeding 1.80 m). The protection shall be applied in a durable manner to the outside of the shell.

This builds on the general requirement in 6.8.2.1.19 ‘where protection of the tank against damage through lateral impact or overturning is provided according to 6.8.2.1.20, ...’ where the intent is to protect the side of the tank and not the ends.

The United Kingdom is not convinced that there should be a protection band ‘all around’ the mid point of the tank shell. The United Kingdom fully supports the use of a band along the two vulnerable sides of the tank which are parallel to the longitudinal access as they would offer protection from lateral damage should the tanker overturn; however, banding at the front and rear ends of the tank does not add any protection in the cases of lateral impact or overturning, as the front the tank is protected by the cab and the rear of the tank by the bumper.

Proposal

To amend 6.8.2.1.20 (b) 4. of ADR to remove the requirement for band protection at front and rear ends of tank shells as follows:

4. Shells of forms other than in 1, especially box-shaped shells, are provided, **along the two sides parallel to the longitudinal access** at the mid-point of their vertical height and over at least 30% of their height with a protection designed in such a way as to offer specific resilience at least equal to that of a shell constructed in mild steel ³ of a thickness of 5 mm (for a shell diameter not exceeding 1.80 m) or 6 mm (for a shell diameter exceeding 1.80 m). The protection shall be applied in a durable manner to the outside of the shell.

Justification

The addition of a band at mid vertical height at the front and rear ends of the tank adds weight to the vehicle which is not justified on safety grounds.

Safety implications

There is no evidence that the addition of a band at mid vertical height on the tank ends would increase safety in the case of an accident.

Feasibility

No problems are foreseen.

Enforceability

No problems are foreseen.
