

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

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Item 5 (b) of the provisional agenda:

**Proposals for amendments to annexes A and B of ADR:
miscellaneous proposals**

Proposal to add a footnote to the table in 1.1.3.2 to define Nm³

Transmitted by the Government of the United Kingdom

Summary

Executive summary:	To facilitate correct interpretation of the exemptions related to the carriage of gases, it is appropriate to define the unit Nm ³ used in the table of ADR 1.1.3.2, energy content of fuels.
Action to be taken:	Add a footnote to the table in NOTE 1 of 1.1.3.2 defining a normal cubic meter, Nm ³ .

Introduction

1. The table in NOTE 1 of 1.1.3.2 states the energy content of gases in MJ/Nm³. The unit Nm³, a normal cubic meter, is associated with reference conditions of temperature and pressure which are not defined in 1.1.3.2 or elsewhere in ADR.
2. The United Kingdom has not identified the use of Nm³ in ADR outside of 1.1.3.2.

Proposal

3. To create a footnote (a) to the table in NOTE 1 of ADR 1.1.3.2, stating:
“(a) 1 Nm³ refers to a ‘normal cubic meter’: the amount of a gas occupying 1 m³ under temperature and pressure conditions of 0 °C and 1.013 bar (1 atmosphere).”
A superscript (a) next to the two mentions of Nm³ may be used to reference the footnote.

Justification

4. Defining Nm³ in 1.1.3.2 will help to ensure accurate interpretation of the text. It is noted that different regions and organisations may choose to use different temperature and pressure conditions when defining what conditions are “normal” and “standard”. Therefore, it would be helpful to include a definition of the Nm³ reference conditions in ADR.