

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

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Tanks

8 September 2020

Tanks: Marking of serial number on tank shells

Transmitted by the Government of the United Kingdom

Summary

- Executive summary:** This paper proposes introducing a requirement for the manufacturer's serial number to be stamped on tank shells to ensure identification if the tank plate is not present.
- Action to be taken:** Insert new text in RID/ADR 6.8.2.5.1 that requires tank shells to be so marked.
- Related documents:** None.

Introduction

1. RID/ADR 6.8.2.5.1 sets out a requirement for every tank to be fitted with a corrosion-resistant metal plate that is permanently attached and in a place readily accessible for inspection. This section also allows, as an alternative, the plate details to be engraved directly onto the walls of the shell provided the walls are reinforced.
2. However, it has been noted that if a tank plate is either missing or has been deliberately removed, formal identification of the shell may be difficult. In addition, in theory at least, tank plates may be swapped between tanks by those engaged in fraudulent activities.
3. Section 5.13.3 in referenced standard EN12972:2018 includes a requirement for the serial number of the tank to be stamped directly onto the shell at a place where the stamping will not reduce the strength of the shell, such as on a neck ring or flange, but as this requirement is absent from RID/ADR the stamping of the shell is not mandatory.
4. To ensure the tank can be formally identified in cases where the tank plate is lost or it is suspected that an attempt has been made to conceal the identity of the tank, it is proposed that RID/ADR should be amended to require the manufacturers serial number to be stamped on the tank shell.

Proposal

Insert the following text in RID/ADR 6.8.2.5.1 (new text in bold and underlined):

“ - test pressure on the shell as a whole and
test pressure by compartment in MPa
or bar (gauge pressure) where the
pressure by compartment is less than
the pressure on the shell.

The manufacturer's serial number shall be marked directly onto the shell by stamping or any other similar method in a position where the strength of the shell will not be reduced (for example onto a neck ring or flange).

In addition, the maximum working pressure allowed shall be inscribed on **the [plate / shell] of** pressure-filled or pressure- discharge tanks.”
