

## Economic Commission for Europe

### Inland Transport Committee

#### Working Party on the Transport of Dangerous Goods

Joint Meeting of the RID Committee of Experts and the  
Working Party on the Transport of Dangerous Goods

23 August 2021

Geneva, 21 September – 1 October 2021

Item 2 of the provisional agenda

Tanks

### Non-destructive testing according to 6.8.2.1.23

Submitted by the International Association of the Body and Trailer  
Building Industry (CLCCR)

#### *Summary*

- Executive summary:** Clarification of the weldseam tests required in 6.8.2.1.23 is needed as certain advanced designs (newly permitted under 6.8.2.1.18) require alternative test methods.
- Action to be taken:** Inclusion of a supplement to footnote <sup>7</sup> in 6.8.2.1.23, which should refer to test methods for alternative tank designs or cut-outs/projections outside the shell.
- Related document:** ECE/TRANS/WP.15/253: Report of the Working Party WP.15 on its 109th session, page 20 on Chapter 6.8;  
ECE/TRANS/WP.15/AC.1/160, Annex II and informal document INF.11 of the spring 2021 session of the Joint Meeting

### Introduction

1. The United Kingdom proposed with informal document INF.11 of the Joint Meeting in spring 2021 to change paragraph 6.8.2.1.23 ADR. This has been discussed in the tank working group at the spring 2021 meeting and finally formulated as an amendment proposal for the ADR/RID. It has also been agreed to supplement a sentence requiring testing in accordance with the applicable standards set out in 6.8.2.6.1. In the course of the discussion, the applicant noticed that for non-destructive testing of the tank weldseams in 6.8.2.1.23 only the methods ultrasound and X-ray are explicitly mentioned in the first section. There are exceptions with footnote <sup>7</sup> for overlapping connections, used to connect the tank bottom to the cylindrical part. Today, technical progress allows advanced tank designs as well as cut-outs and projections outside the tank shell according to 6.8.2.1.18/6.8.2.1.19 footnote <sup>3</sup>. Alternative test methods should be defined for those designs.

### Proposal

2. Depending on the weldseam type and component, another non-destructive testing method can be useful in addition to ultrasound and X-ray. The cut-outs and projections outside the shell that are permitted under 6.8.2.1.18/6.8.2.1.19 footnote <sup>3</sup> require alternative test methods. Therefore, we propose to add the following sentence to footnote <sup>7</sup> in 6.8.2.1.23:

**“Tank cross-sections containing cut-outs or projections outside the shell as referred to in point 6.8.2.1.18/6.8.2.1.19 footnote <sup>3</sup>, may be tested using alternative methods instead of radiography or ultrasound where radiography or ultrasound are not possible.”**

### **Justification**

3. The opening in the ADR for alternative tank shapes containing cut-outs or projections outside the shell subsequently requires an adaptation of the test methods in accordance with the weldseam types used.
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