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**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**

Bern, 12-16 March 2018

Item 2 of the provisional agenda

**Tanks****Qualification of welding procedures – Welding according to  
6.8.2.1.23****Transmitted by the Government of Poland\****Summary*

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| <b>Executive summary:</b>  | The aim of this proposal is to clarify which level of welding procedure tests described in EN ISO 15614-1:2017 should be used. This standard is referenced in standards EN 14025:2013 and EN 14025:2013 + A1:2016, which are included in the Table in 6.8.2.6.1. |
| <b>Action to be taken:</b> | Amend the relevant regulations to indicate the applicable level of welding procedure tests, if necessary.  |

**Introduction**

1. According to 6.8.2.1.4 "Shells shall be designed and constructed in accordance with the requirements of standards listed in 6.8.2.6 or of a technical code recognized by the competent authority, in accordance with 6.8.2.7 (...)". The Table in 6.8.2.6.1 under the heading "For design and construction" includes two standards EN 14025 "Tanks for the

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\* In accordance with the draft programme of work of the Inland Transport Committee for 2018-2019, (ECE/TRANS/WP.15/237, annex V, (9.2)).

transport of dangerous goods – Metallic pressure tanks – Design and construction" which are still applicable. One of them is EN 14025:2013 applicable to new type approvals or to renewals between 1 January 2015 and 31 December 2018 and the other is EN 14025:2013 + A1:2016 (except Annex B). The relevant part of the Table listing the standards is reproduced below.

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable to new type approvals or to renewals	Latest date for withdrawal of existing type approvals
(1)	(2)	(3)	(4)	(5)
<i>For design and construction of tanks</i>				
(...)				
EN 14025:2013	Tanks for the transport of dangerous goods – Metallic pressure tanks – Design and construction	6.8.2.1 and 6.8.3.1	Between 1 January 2015 and 31 December 2018	
EN 14025:2013 + A1:2016 (except Annex B)	Tanks for the transport of dangerous goods – Metallic pressure tanks – Design and construction	6.8.2.1 and 6.8.3.1	Until further notice	

2. Both EN 14025 standards contain references to standard EN ISO 15614-1 *Specification and qualification of welding procedures for metallic materials — Welding procedure test — Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys* (ISO 15614-1). Chapter 7.4 of EN 14025 stipulates that the welding procedures must be approved in accordance with EN ISO 15614-1, among others. Chapter 8 on repairs requires repairs, including the depositing of weld metal, to be carried out in accordance with a procedure qualified among others in accordance with EN ISO 15614-1.

3. The reference to EN ISO 15614-1 included in the EN 14025 standards is undated. According to the general rule which governs references to standards, it can therefore be assumed that it is the latest edition of the referenced document (including any amendments) that should be applied.

4. The ISO 15614-1 standard has been recently revised by Technical Committee ISO/TC44 "Welding and allied processes" and Technical Committee CEN/TC121 "Welding and allied processes". The new version was published in June 2017 as EN ISO 15614-1:2017. As stipulated in the standard concerned, it must be given the status of a national standard by December 2017 at the latest (by CEN members).

5. The main change to EN ISO 15614-1 includes introducing two levels of welding procedure tests designated by levels 1 and 2. Level 1 is based on the requirements of Section IX of the ASME Boiler and Pressure Vessel Code (ASME IX) and Level 2 is based on the previous issues of ISO 15614-1.

6. Poland is of the opinion that to avoid different practices in applying the requirements of EN ISO 15614-1 to welding procedures, it would be advisable to clarify which level of welding procedure tests described in EN ISO 15614-1:2017 should be used.

7. In Poland's view, level 2 should be applied. Firstly, because it is based on the previous issue of EN ISO 15614-1. It follows from the standard that if no specific requirements are mentioned, level 2 should apply and last but not least, level 2 ensures a higher level of safety

than level 1. Secondly, in the informative Annex ZA for European union Directive 2014/68/EU (PED), level 2 is indicated.

8. The issue concerned was already raised at the eighth session of the RID Committee of Experts' standing working group (Utrecht, 20 to 24 November 2017). As the subject is relevant both for RID and ADR the standing working group asked the representative of Poland to submit her document to the Joint Meeting's working group on tanks. The standing working group also suggested that the Joint Meeting's standards working group should check whether it would be expedient to refer directly to standard EN ISO 15614-1:2017, indicating the test level.

9. In view of the above Poland would like to ask the Joint Meeting to refer the document to the working group on tanks for consideration and possibly to the standards working group as suggested by the RID Committee of Experts' standing working group.

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