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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

Geneva, 19–29 September 2017

Item 2 of the provisional agenda

##### Tanks

## Report of the informal working group on the inspection and certification of tanks

### Transmitted by the Government of the United Kingdom\* \*\*

1. The informal working group on the inspection and certification of tanks met for a sixth time in London from 6-8 June 2017, under the chairmanship of Mr. J. Mairs (United Kingdom). Representatives of Austria, Belgium, Finland, France, Germany, the Netherlands, Norway, Poland, Switzerland, the United Kingdom, European Industrial Gases Association (EIGA), International Tank-Container Organization (ITCO), and the Private Wagon Federation (PWF Rail) of Great Britain participated. Apologies were received from Ireland, Sweden and Republic of Turkey, International Dangerous Goods and Containers Association (IDGCA), International Union of Private Wagons (UIP) and the Chairman of the Working Group on Tanks, Mr. A. Bale.

2. The Chairman noted the outcome of the Joint Meeting held in Bern in March 2017 at which it was decided that the informal working group should continue its work based on the principles set out in working document ECE/TRANS/WP.15/AC.1/2017/22.

#### *Appointment, control and monitoring of inspection bodies.*

3. The ERA delivered a presentation aimed at ensuring optimal coordination between the work of the group and the applicable railway vehicle authorisation process in EU.

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\* In accordance with the programme of work of the Inland Transport Committee for 2016-2017, (ECE/TRANS/2016/28/Add.1 (9.2)).

\*\* Circulated by the Intergovernmental Organisation for International Carriage by Rail (OTIF) under the symbol OTIF/RID/RC/2017/38.

4. The Group made good progress in reviewing the text of 1.8.7 drawing upon proposals submitted previously by France and the Netherlands. The outcome of this work is presented at Annex I.

5. The Group was unable to reach complete agreement on the procedures for the surveillance of in-house inspection services and the Group will need to discuss further who is accountable for the decisions taken by them. Also, some further discussion is needed to decide whether a manufacturer based other than in an ADR contracting party or RID contracting state must be represented by a legal entity located in an ADR contracting party or RID contracting state.

6. Subject to the agreement of the Joint Meeting, the Group will meet again from 12-14 December 2017 to discuss amending section 1.8.6, taking account of proposals made by France and the Netherlands.

*Harmonisation of inspection procedures*

7. The Group was also presented with a proposal from France and the Netherlands for a section dealing with “who does what” concerning the assessment, type approval and inspection of tanks covered by Chapter 6.8. The proposed structure was accepted by the Group and the text developed previously by the Group and presented in ECE/TRANS/WP.15/AC.1/2017/12 formed the basis of the work. The output of this work and the consequential amendments to Chapter 6.8 is presented at Annex II. A complete text of Chapter 6.8, showing the proposed changes in the context of the whole of the Chapter will be submitted as an information document.

*Improvements to construction and inspection requirements*

8. Under any other business and at the request of Norway, the Group offered advice on the standards applying to hoses used in delivering LPG. The Group also noted that a Russian proposal to the International Maritime Organization (IMO) on fibre-reinforced plastic portable tanks could be raised at the United Nations Sub-Committee of Experts on the Transport of Dangerous Goods. Germany informed the Group that a correspondence group was being established on the construction of the bodies of EX/II and EX/III vehicles. Finally, the United Kingdom gave updates to the Group on its proposals:

- (a) To waive the first annual inspection for qualifying FL and AT vehicles under 9.1.2.1;
- (b) To modify 6.8.2.1 to more clearly allow for tank shells which vary in cross-section;
- (c) On the non-destructive testing of circumferential welds on elliptical aluminium tank vehicles;
- (d) For standardising the information displayed on tank plates based on a template that could be introduced into Chapter 6.8;
- (e) To define the construction date for tanks, possibly based on the date the hydraulic test was passed or on the date the initial inspection was passed, whichever as may be appropriate.

*Action requested of the Joint Meeting*

9. The Joint meeting is invited to adopt the amendments proposed in annexes I and II and to note the further work that the Group plans to undertake as outlined below.

*Proposed further work for the informal working group on tank inspection and certification.*

10. Subject to the consent of the Joint Meeting, the informal working group intends to meet again on 12-14 December 2017 when it will, inter alia:

- (a) Consider the feedback from the Joint Meeting on the proposals set out in annexes I and II;
- (b) Develop further proposed text for amending RID/ADR 1.8.6;
- (c) Prepare a working document for the spring 2018 session of the Joint Meeting containing further proposed amendments for the 2019 Editions of RID and ADR; and
- (d) Report further on the technical work aimed at improving the construction and inspection requirements for tanks.

## Annex I

### Proposal amendments to Section 1.8.7

#### 1.8.7 Procedures for conformity assessment, type approval certificate issue and periodic inspections

*NOTE: In this section, "relevant body" means a body performing conformity assessment and inspections assigned in 6.2.2.11 ~~when certifying for~~ UN pressure receptacles, in 6.2.3.6 ~~when approving for~~ non-UN pressure receptacles and ~~in special provisions TA4 and TT9 of 6.8.4, in 6.8.1.5 for tanks, battery-vehicles and MEGCs and for their service equipment.~~*

##### 1.8.7.1 General provisions

1.8.7.1.1 The procedures in section 1.8.7 shall be applied according to 6.2.3.6 when approving assessing non-UN pressure receptacles, and according to TA4 and TT9 of 6.8.4 when approving according to 6.8.1.5 when assessing tanks, battery-vehicles and MEGCs and their service equipment.

The procedures in section 1.8.7 may be applied according to the table in 6.2.2.11 when certifying UN pressure receptacles.

1.8.7.1.2 Each application for

(a) The type approval examination in accordance with 1.8.7.2.1; or;

(b) The type approval certificate issue in accordance with 1.8.7.2.2; or

~~(bc)~~ The supervision of manufacture in accordance with 1.8.7.3; or

~~(d) and (f)~~ The initial inspection and test in accordance with 1.8.7.4; or

(e) The entry into service inspection in accordance with 1.8.7.5; or

~~(ef)~~ The periodic inspection, intermediate inspection and exceptional checks in accordance with 1.8.7.6~~5~~

shall be lodged for (a), (c) or (d) by the manufacturer, (b) by the inspection body that has performed the type examination, and (e) or (f) by [the owner or] the operator applicant with a single competent authority, its delegate or an approved inspection body of his choice as required in Parts 4 and 6.

1.8.7.1.3 The application shall include:

(a) The name and address of the ~~applicant~~ manufacturer or the testing facility as applicable in Parts 4 and 6;

~~(b) For conformity assessment where the applicant is not the manufacturer, the name and address of the manufacturer;~~ [When the manufacturer is not in a RID Contracting State/Contracting Party to ADR, the manufacturer shall be represented by an authorized representative legally established in the country of registration];

(c) A written declaration that the same application has not been lodged with any other competent authority, its delegate or inspection body;

(d) The relevant technical documentation specified in 1.8.7.8~~7~~;

(e) A statement allowing the competent authority, its delegate ~~or~~ and inspection body access for conformity assessment inspection purposes to the locations of manufacture, inspection, testing and storage and providing them ~~it~~ with all necessary information.

1.8.7.1.4 ~~Where the applicant can demonstrate to the satisfaction of the competent authority or its delegated inspection body conformity with 1.8.7.6 the applicant may establish an in-house inspection service which may perform part or all of the inspections and tests when specified in 6.2.2.11 or 6.2.3.6.~~

~~[Where the manufacturer or a testing facility is allowed to establish an in-house inspection service in accordance with Part 6, it shall demonstrate to the satisfaction of an inspection body that it is able to perform inspection and test in conformity with 1.8.7.]~~

1.8.7.1.5 ~~Design~~ Type approval certificates and certificates/declarations of conformity - including the technical documentation - shall be retained by the manufacturer ~~or by the applicant for the type approval, if he is not the manufacturer,~~ and by the inspection body, who issued the ~~certificate~~ type examination report, for a period of at least 20 years starting from the last date of production of products of the same type, and by the owner/operator at least 15 month after the tank is taken out of service.

1.8.7.1.6 When a manufacturer or owner intends to cease operation, he shall send the documentation to the competent authority. The competent authority shall then retain the documentation for the rest of the period specified in 1.8.7.1.5.

1.8.7.2 ***Type examination procedure and type approval certificate issue***

~~Type approvals authorise the manufacture of pressure receptacles, tanks, battery vehicles or MEGCs within the period of validity of that approval.~~

1.8.7.2.1 Type examination procedure

The ~~manufacturer applicant~~ shall:

- (a) In the case of pressure receptacles, place at the disposal of the relevant body representative samples of the production envisaged. The relevant body may request further samples if required by the test programme;
- (b) In the case of tanks, battery-vehicles or MEGCs, give access to the prototype for type testing.

1.8.7.2.2

The relevant body shall:

- (a) Examine the technical documentation specified in 1.8.7.~~87~~.1 to verify that the design is in accordance with the relevant provisions of ADR, and the prototype or the prototype lot has been manufactured in conformity with the technical documentation and is representative of the design;
- (b) Perform the examinations and witness the tests specified in ADR, to determine that the provisions have been applied and fulfilled, and the procedures adopted by the manufacturer meet the requirements;
- (c) Check the certificate(s) issued by the materials manufacturer(s) against the relevant provisions of ADR;
- (d) As applicable, approve the procedures for the permanent joining of parts or check that they have been previously approved, and verify that the staff undertaking the permanent joining of parts and the non-destructive tests are qualified or approved;
- (e) Agree with the ~~manufacturer applicant~~ the location and testing facilities where the examinations and necessary tests are to be carried out.

The relevant body shall issue a type-examination report to the ~~applicant~~ manufacturer.

1.8.7.2.23 Type approval certificate issue

Type approvals authorise the manufacture of pressure receptacles, tanks, battery-vehicles or MEGCs within the period of validity of that approval.

1.8.7.2.2.1

Where the type satisfies all applicable provisions, the competent authority, ~~or its delegate or the inspection body~~, shall issue a type approval certificate to the ~~applicant manufacturer~~.

This certificate shall contain:

- (a) The name and address of the issuer;
- (b) The name and address of the manufacturer ~~and of the applicant when the applicant is not the manufacturer~~;
- (c) A reference to the version of ADR and standards used for the type examination;
- (d) Any requirements resulting from the examination;
- (e) The necessary data for identification of the type and variation, as defined by the relevant standard;
- (f) The reference to the type examination report(s); and
- (g) The maximum period of validity of the type approval;
- (h) And any specific requirements requested in Part 6.

A list of the relevant parts of the technical documentation shall be annexed to the certificate (see 1.8.7.87.1).

1.8.7.2.42.2

The type approval shall be valid for a maximum of ten years. If within that period, the relevant technical requirements of ADR (including referenced standards) have changed so that the approved type is no longer in conformity with them, the competent authority or the relevant body which issued the type approval shall withdraw it and inform the holder of the type approval as soon as possible. The type approval is not valid after the applicable transitional period and the type approval shall be withdrawn or renewed.

**NOTE:** For the ultimate dates for withdrawal of existing type approvals, see column (5) of the tables in 6.2.4 and 6.8.2.6 or 6.8.3.6 as appropriate.

If a type approval has expired or has been withdrawn, the manufacture of the pressure receptacles, tanks, battery-vehicles or MEGCs according to that type approval is no longer authorised.

In such a case, the relevant provisions concerning the use, periodic inspection and intermediate inspection of pressure receptacles, tanks, battery-vehicles or MEGCs contained in the type approval which has expired or has been withdrawn shall continue to apply to these pressure receptacles, tanks, battery-vehicles or MEGCs constructed before the expiry or the withdrawal if they may continue to be used.

They may continue to be used as long as they remain in conformity with the requirements of ADR. If they are no longer in conformity with the requirements of ADR they may continue to be used only if such use is permitted by relevant transitional measures in Chapter 1.6.

Type approvals may be renewed by a complete review and assessment type examination for conformity with the provisions of ADR applicable at the date of renewal. Renewal is not permitted after a type approval has been withdrawn.

Interim amendments of an existing type approval (e.g. for pressure receptacles minor amendments such as the addition of further sizes or volumes not affecting conformity, or for tanks see 6.8.2.3.2) do not extend or modify the original validity of the certificate.

**NOTE:** ~~The review and assessment of conformity type examination can be done by an inspection body other than the one which issued the original type approval examination report.~~

The ~~issuing body competent authority~~ shall keep all documents for the type approval (see 1.8.7.87.1) and the type examination report for the whole period of validity including its renewals if granted.

- 1.8.7.2.5 In the case of a modification of a pressure receptacle, tank, battery-vehicle or MEGC with a valid, expired or withdrawn type approval, the relevant type examination, testing, inspection and approval are limited to the parts of the pressure receptacle, tank, battery-vehicle or MEGC that have been modified.

The modification shall meet the provisions of ADR applicable at the time of the modification. For all parts of the pressure receptacle, tank, battery-vehicle or MEGC not affected by the modification, the documentation of the initial type approval remains valid.

A modification may apply to one or more pressure receptacles, tanks, battery-vehicles or MEGCs covered by a type approval.

Where the modified pressure receptacle, tank, battery-vehicle or MEGC satisfies all applicable provisions, a supplementary approval A-certificate approving for of the modification shall be issued to the owner/operator applicant by the competent authority of any Contracting Party to ADR or by a body designated by this authority-its delegate, as required in Part 6. For tanks, battery-vehicles or MEGCs, a copy shall be kept as part of the tank record.

~~§Each application for an approval certificate for a modification shall be lodged by the applicant with a single competent authority or body designated by this authority.~~

### 1.8.7.3 **Supervision of manufacture**

- 1.8.7.3.1 ~~The manufacturing process shall be subject to a survey by the relevant body to ensure the product is produced in conformity with the provisions of the type approval.~~

- ~~1.8.7.3.2 The manufacturer applicant shall take all the necessary measures to ensure that the manufacturing process complies with the applicable provisions of ADR and of the type approval certificate and its supporting documentation and reports annexes.~~

- 1.8.7.3.23 The manufacturing process shall be subject to a survey by the relevant body.

The relevant body shall:

- (a) Verify the conformity with the technical documentation specified in 1.8.7.87.32 and with the applicable provisions of ADR and of the type approval certificate and its annexes;
- (b) Verify that the manufacturing process produces products in conformity with the requirements and the documentation which apply to it;
- (c) Verify the traceability of materials and check the material certificate(s) against the specifications;

- (d) As applicable, verify that the personnel undertaking the permanent joining of parts and the non-destructive tests are qualified or approved;
- (e) Agree with the ~~manufacturer applicant~~ on the location where the examinations and necessary tests are to be carried out; and
- (f) Record the results of its survey.

**1.8.7.4 Initial inspection and tests**

1.8.7.4.1 The ~~manufacturer applicant~~ shall:

- (a) Affix the marks specified in ADR; and
- (b) Supply to the relevant body the technical documentation specified in 1.8.7.87.

1.8.7.4.2 The relevant body shall:

- (a) Perform the necessary examinations and tests in order to verify that the product is manufactured in accordance with the type approval and the relevant provisions;
- (b) Check the certificates supplied by the manufacturers of service equipment against the service equipment;
- (c) Issue an initial inspection and test report to the ~~applicant manufacturer~~ relating to the detailed tests and verifications carried out and the verified technical documentation;
- (d) Draw up a written certificate of conformity of the manufacture and affix its registered mark when the manufacture satisfies the provisions; and
- (e) Check if the type approval remains valid after provisions of ADR (including referenced standards) relevant to the type approval have changed.

The certificate in (d) and report in (c) may cover a number of items of the same type (group certificate or report).

1.8.7.4.3 The certificate shall contain as a minimum:

- (a) The name and address of the relevant body;
- (b) The name and address of the manufacturer ~~and the name and address of the applicant, if not the manufacturer;~~
- (c) The place of the initial inspection;
- (ed) A reference to the version of the ADR and standards used for the initial inspections and tests;
- (de) The results of the inspections and tests;
- (ef) The data for identification of the inspected product(s), at least the serial number or for non refillable cylinders the batch number; and
- (fg) The type approval number.

1.8.7.5 Entry into service inspection

1.8.7.5.1 If required by the competent authority under Part 6 the operator shall supply to a single inspection body the type approval and the technical documentation specified in 1.8.7.8.

1.8.7.5.2 The inspection body shall review the documentation with each equipment and:



- (a) Perform an internal and external checks of each equipment without demounting;
- (b) Verify the conformity of the equipment to the type approval;
- (c) Verify that the RID/ADR requirements have been fulfilled;
- (d) Verify the validity of the approvals and authorisations of the inspections bodies who performed the previous inspections and testing.

1.8.7.5.3 The inspection body shall issue a entry into service inspection report, that contains the results of the assessment.

If the equipment fails the entry into service inspection, it cannot be used until the non conformities are rectified and it passes a new entry into service inspection.

The inspection body in charge of the entry into service inspection shall without delay inform its competent authority of any refusal.

The operator shall be able to present this certificate at any request of the competent authority, and to any inspection body in charge of subsequent inspections and testing.

1.8.7.65 ***Periodic inspection, intermediate inspection and exceptional checks***

1.8.7.65.1 The relevant body shall:

- (a) Perform the identification and verify the conformity with the documentation;
- (b) Carry out the inspections and witness the tests in order to check that the requirements are met;
- (c) Issue reports of the results of the inspections and tests, which may cover a number of items; and
- (d) Ensure that the required marks are applied.

1.8.7.65.2 Reports of periodic inspections and tests of pressure receptacles shall be retained by the applicant/owner/operator at least until the next periodic inspection.

*NOTE: For tanks, see provisions for tank records in 4.3.2.1.7.*

1.8.7.76 ***Surveillance of the applicant's in-house inspection service***

1.8.7.76.1 The manufacturer or the testing facility applicant shall:

- (a) Implement an in-house inspection service with a quality system for inspections and tests documented in 1.8.7.87.65 and subject to surveillance;
- (b) Fulfil the obligations arising out of the quality system as approved and to ensure that it remains satisfactory and efficient;
- (c) Appoint trained and competent personnel for the in-house inspection service; and
- (d) Affix the registered mark of the inspection body where appropriate.

1.8.7.76.2 The inspection body shall carry out an initial ~~audit~~ survey. If satisfactory the inspection body shall issue an authorisation for a period not exceeding three years. The following provisions shall be met:

- (a) This ~~audit survey~~ shall confirm that the inspections and tests performed on the product are in compliance with the requirements of ADR;
- (b) The inspection body may authorise the in-house inspection service ~~of the applicant~~ to affix the registered mark of the inspection body to each approved product;
- (c) The authorisation may be renewed after a satisfactory ~~survey audit~~ in the last year prior to the expiry. The new period of validity shall begin with the date of expiry of the authorisation; and
- (d) The ~~surveyors auditors~~ of the inspection body shall be competent to carry out the assessment of conformity of the product covered by the quality system.
- (e) The in-house inspection service shall be engaged in frequent inspection and testing activity.
- (f) Where an in-house inspection service uses the services of any other entity (e.g. subcontractor, subsidiary), to carry out specific tasks this entity shall be included in the survey.

1.8.7.76.3 The inspection body shall carry out periodic ~~audits~~ surveillance visits within the duration of the authorisation to make sure that the ~~applicant-in-house inspection service~~ maintains and applies the quality system. The following provisions shall be met:

- (a) A minimum of two audits shall be carried out in a 12 month period year. Each surveillance visit shall not be later than 6 month after the previous one;
- (b) The inspection body may require additional visits, training, technical changes, modifications of the quality system, restrict or prohibit the inspections and tests to be done by the ~~applicant-in-house inspection service~~;
- (c) The inspection body shall assess any changes in the quality system and decide whether the modified quality system will still satisfy the requirements of the initial audit or whether a full reassessment is required;
- (d) The ~~surveyors auditors~~ of the inspection body shall be competent to carry out the assessment of conformity of the product covered by the quality system; and
- (e) The inspection body shall provide the ~~applicant-in-house inspection service~~ with a visit or ~~certificate for the equipment surveyed audit report~~ and, if tests ~~have~~ taken place, with a test report.

1.8.7.76.4 In cases of non-conformity with the relevant requirements the inspection body shall ensure that corrective measures are taken. If corrective measures are not taken in due time, the inspection body shall suspend or withdraw the permission for the in-house inspection service to carry out its activities. The notice of suspension or withdrawal shall be transmitted to the competent authority. A report shall be provided to the ~~in-house inspection service applicant~~ giving detailed reasons for the decisions taken by the inspection body.

#### 1.8.7.87 **Documents**

The technical documentation shall enable an assessment to be made of conformity with the relevant requirements.

1.8.7.87.1 *Documents for type ~~approval-examination and type approval issue~~*

The [manufacturer applicant](#) shall provide as appropriate:

- (a) The list of standards used for the design and manufacture;
- (b) A description of the type including all variations;
- (c) The instructions according to the relevant column of table A of Chapter 3.2 or a list of dangerous goods to be transported for dedicated products;
- (d) A general assembly drawing or drawings;
- (e) The detailed drawings, including the dimensions used for the calculations, of the product, the service equipment, the structural equipment, the marking and/or the labelling necessary to verify the conformity;
- (f) The calculation notes, results and conclusions;
- (g) The list of the service equipment with the relevant technical data and information on the safety devices including the calculation of the relief capacity if relevant;
- (h) The list of material requested in the standard for manufacture used for every part, sub-part, lining, service and structural equipment and the corresponding material specifications or the corresponding declaration of conformity to ADR;
- (i) The approved qualification of permanent joining process;
- (j) The description of the heat treatment process(es); and
- (k) The procedures, descriptions and records of all relevant tests listed in the standards or ADR for the type approval and for the manufacture.

#### 1.8.7.8.2 *Documents for the type approval issue*

The manufacturer shall provide as a minimum:

- (a) The list of standards used for the design and manufacture;
- (b) A description of the type including all variations;
- (c) The instructions according to the relevant column of table A of Chapter 3.2 or a list of dangerous goods to be transported for dedicated products;
- (d) A general assembly drawing or drawings;
- (e) The list of materials in contact with the dangerous goods;
- (f) The list of service equipment;
- (g) [The type examination report.](#)

#### 1.8.7.87.32 *Documents for the supervision of manufacture*

The [manufacturer applicant](#) shall make available as appropriate:

- (a) The documents listed in 1.8.7.87.1 and 1.8.7.8.2;
- (b) A copy of the type approval certificate;
- (c) The manufacturing procedures including test procedures;
- (d) The manufacturing records;
- (e) The approved qualifications of permanent joining operators;
- (f) The approved qualifications of the non destructive test operators;

- (g) The reports of the destructive and non destructive tests;
- (h) The heat treatment records; and
- (i) The calibration records.

1.8.7.87.43 *Documents for initial inspection and tests, and for entry into service inspection*

The ~~manufacturer applicant~~ shall make available as appropriate:

- (a) The documents listed in 1.8.7.87.1, 1.8.7.8.2, and 1.8.7.87.32;
- (b) The material certificates of the product and any sub-parts;
- (c) The declarations of conformity and material certificates of the service equipment; and
- (d) A declaration of conformity including the description of the product and all the variations adopted from the type approval.

*NOTE: All this documentation shall be made available to the owner/operator for the purpose of 1.8.7.8.5.*

1.8.7.87.54 *Documents for periodic inspections, intermediate inspections and exceptional checks*

The testing facility shall make available as appropriate:

- (a) For pressure receptacles, the documents specifying special requirements when the manufacturing and periodic inspections and tests standards so require;
- (b) For tanks:
  - (i) the tank record; and
  - (ii) ~~one or more of the any relevant~~ documents mentioned in 1.8.7.87.1 to 1.8.7.87.43 if requested by the inspection body.

1.8.7.87.65 *Documents for the assessment of in-house inspection service*

The ~~applicant for~~ in-house inspection service shall make available the quality system documentation as appropriate:

- (a) The organizational structure and responsibilities;
- (b) The relevant inspection and test, quality control, quality assurance and process operation instructions, and systematic actions that will be used;
- (c) The quality records, such as inspection reports, test data, calibration data and certificates;
- (d) The management reviews to ensure the effective operation of the quality system arising from the audits in accordance with 1.8.7.76;
- (e) The process describing how customer and regulation requirements are met;
- (f) The process for control of documents and their revision;
- (g) The procedures for dealing with non-conforming products; and
- (h) The training programmes and qualification procedures for relevant personnel.

**1.8.7.8 Products manufactured, approved, inspected and tested according to standards**

The requirements of 1.8.7.7 are considered to have been complied with if the following standards, as relevant, are applied:

Applicable subsection and paragraph	References	Title of the document
1.8.7.7.1 to 1.8.7.7.4	EN 12972:2007	Tanks for transport of dangerous goods— Testing, inspection and marking of metallic tanks

## Annex II

### Amendments to Chapter 6.8

6.8.1 Replace the title by: “Scope and general provisions”.

Add a new text under 6.8.1.5 as follows:

“6.8.1.5 ***Conformity assessment, type approval and inspections rules***

The procedures for undertaking a conformity assessment and the inspections described in 1.8.7 shall be performed according to 6.8.1.5.1 to 6.8.1.5.6.

The term “inspection body” in these paragraphs means a body conforming to 1.8.6 and recognized, or accredited according to EN ISO/IEC 17020:2012 (except clause 8.1.3).

The competent authority shall transmit to the secretariat of OTIF/UNECE the names of the inspection bodies it has approved and the scope of the work each is accredited to perform.

For the purpose of these paragraphs the term “country of registration” means:

the country of registration of the vehicle on which the tank is mounted.	the country of the RID Contracting State/Contracting Party to ADR where the owner's/operator's company is registered.
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When a tank is assembled from components manufactured in different locations the inspection body responsible for assessing the complete tank shall verify that all of these components conform to the requirements of RID/ADR, irrespective of where they have been manufactured.

6.8.1.5.1 ***Type examination according to 1.8.7.2.1***

(a) For the type examination, the manufacturer of the tank shall engage a single inspection body recognized by the competent authority of either the country of manufacture or the initial country of registration of the first tank manufactured of that type. If the country of manufacture is not a RID Contracting State/Contracting Party to ADR, the manufacturer shall engage a single inspection body approved by the country of registration.

(b) If the type examination of the service equipment is done separately from the tank according to 6.8.2.3.2, the manufacturer of the service equipment shall engage an inspection body recognized by a competent authority of a RID Contracting State/Contracting Party of ADR.

6.8.1.5.2 ***Type approval according to 1.8.7.2.2***

The competent authority who approved or recognized the inspection body who performed the type examination has the exclusive right to issue the type approval certificate.

6.8.1.5.3 ***Supervision of the manufacture according to 1.8.7.3***

(a) For the supervision of the manufacture, the manufacturer of the tank shall engage a single inspection body recognized either by the competent authority of the country of registration, or the country of manufacture. If the country of manufacture is not a RID Contracting State/Contracting Party to

ADR, a manufacturer shall engage a single inspection body recognized by the country of the Contracting Party of registration.

(b) If the type examination of the service equipment is done separately from the tank, the manufacturer shall engage for the supervision of manufacture a single inspection body recognized by a competent authority of a RID Contracting State/Contracting Party of ADR. The manufacturer may use an in-house inspection service according to 1.8.7.6 to perform the procedures of 1.8.7.3.

6.8.1.5.4 *Initial inspection according to 1.8.7.4*

For the initial inspection, the manufacturer of the tank shall engage a single inspection body recognized either by the competent authority of the country of registration, or the country of manufacture. If the country of manufacture is not a RID Contracting State/Contracting Party to ADR, a manufacturer shall engage a single inspection body recognized by the country of the Contracting Party of registration.

6.8.1.5.5 *Entry into service inspection according to 1.8.7.5*

When the initial inspection certificate of the tank is issued by a single inspection body that is not recognized by the competent authority of the country of registration an entry into service inspection may be required by the competent authority of the country of registration.

When the registration of a tank is transferred from one RID Contracting State/Contracting Party to ADR to another, the competent authority of the RID Contracting State/Contracting Party to ADR where the tank is transferred to may require an entry into service inspection.

In such a case, the owner/operator of the tank shall engage a single inspection body recognized by the competent authority of the country of registration to perform this entry into service inspection.

The entry into service inspection shall be proportional to the condition of the tank and shall ensure that the requirements of RID/ADR are fulfilled.

6.8.1.5.6 *Intermediate or periodic inspection or exceptional check according to 1.8.7.6*

The intermediate or periodic inspection or the exceptional check shall be performed

(ADR):

in the country of registration by an inspection body recognized by the competent authority of that country.

(RID/ADR)

by an inspection body recognized by the country where the inspection takes place or

(RID):

by an inspection body recognized by the country where the inspection takes place or by an inspection body recognized by the country of registration.

if the country is not a RID Contracting State/Contracting Party to ADR, by an inspection body recognized by the country of registration.

The owner/operator of the tank shall engage a single inspection body for each intermediate or periodic inspection or exceptional check.”

In 6.8.2.1.16, delete: “or by a body designated by that authority”.

In 6.8.2.1.23, replace the two first sentences by the following:

“Under 1.8.7.3 and 1.8.7.6, the ability of the manufacturer, or the maintenance or repair shop, to perform welding operations shall be verified and confirmed. A weld quality assurance system shall be operated by the manufacturer or the maintenance or repair shop.”

Replace the last paragraph by the following:

“Where there are doubts regarding the quality of welds, including the welds made to repair any defects revealed by the non-destructive checks, additional checks of the welds may be required.”

In 6.8.2.2.2, last sentence, delete: “or by a body designated by that authority”.

In 6.8.2.3, replace the title by the following: “Type examination and type approval”.

In 6.8.2.3.1, add the following title: “Type examination”

Add the following sentence: “The provisions in 1.8.7.2.1 shall be applied.”

Replace: “6.8.2.3.1” by “6.8.2.3.2”.

In the new 6.8.2.3.2, add the following title: “Type approval”.

Replace the first paragraph by the following:

“In accordance with 1.8.7.2.2.1, the competent authority shall issue in respect of each new type of tank-vehicle, demountable tank, tank-container, tank swap body, battery-vehicle or MEGC a certificate attesting that the type, including fastenings, which has been examined, is suitable for the purpose for which it is intended and meets the construction requirements of 6.8.2.1, the equipment requirements of 6.8.2.2 and the special conditions for the classes of substances carried.”

After: “The certificate shall show”, add: “in addition to 1.8.7.2.2”.

Delete the first indent: “- the results of the test;”

Replace the last paragraph of 6.8.2.3.1 by the following:

“At the request of the manufacturer of the service equipment carry out a separate type approval of valves and other service equipment for which a standard is listed in the table in 6.8.2.6.1, in accordance with that standard shall be carried out. This separate type approval shall be taken into account when issuing the certificate for the tank, if the test results are presented and the valves and other service equipment are fit for the intended use.”

In 6.8.2.3.3, replace the text by: “(Deleted)”.

In 6.8.2.3.4, replace the text by: “(Deleted)”.

In Footnote 10 in 6.8.2.4.1 and 6.8.2.4.2, replace “the expert approved by the competent authority” by “the competent authority”.

In 6.8.2.4.2, in the last paragraph, replace “the expert approved by the competent authority” by “the inspection body”.

In 6.8.2.4.5, replace the first paragraph by the following:



“Certificates shall be issued showing the results of the tests, inspections and checks in accordance with 6.8.2.4.1 to 6.8.2.4.4, even in the case of negative results. These certificates shall refer to the list of the substances permitted for carriage in this tank or to the tank code and the alphanumeric codes of special provisions in accordance with 6.8.2.3.2.”

In 6.8.2.5.1, in the 10th indent, replace “stamp of the expert” by: “stamp of the inspection body”.

In 6.8.2.6.2, replace the title by the following: “Type examination, inspection and test”.

In the first sentence, add “the type examination and” before “the inspection”.

In 6.8.3.3, replace the title by the following: “Type examination and type approval”.

In 6.8.3.4.4, replace “the expert approved by the competent authority” and “the approved expert” by: “the inspection body”.

In 6.8.3.4.7 and in 6.8.3.4.8, replace “the approved expert” by: “the inspection body”.

In Footnote 10 in 6.8.3.4.13, replace “the expert approved by the competent authority” by “the competent authority”.

In 6.8.3.4.14, replace “the competent authority or its authorized body” by: “the competent authority”.

In 6.8.3.4.18, replace “the expert approved by the competent authority” by: “the inspection body”.

In 6.8.3.5.10, in the last indent, replace “stamp of the expert” by: “stamp of the inspection body”.

In 6.8.3.7, replace the second paragraph by the following:

“The procedure for periodic inspections shall be specified in the type approval if the standards referenced in 6.2.2, 6.2.4 or 6.8.2.6 are not applicable or shall not be applied.”

In 6.8.4, in TA4 and in TT9, replace the text by: “(Deleted)”.

In 6.8.4, in TT2, replace “an expert approved by the competent authority” by: “an inspection body”.

In 6.8.4, at the end of the first paragraph of TT11, replace “the competent authority, its delegate or inspection body (see special provision TT9)” by: “the competent authority or the inspection body”.