

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

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Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (ADN Safety Committee)

English

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Item 5 (a) of the provisional agenda

Proposals for amendments to the Regulations annexed to ADN: work of the RID/ADR/ADN Joint Meeting

Draft amendments that might be relevant for ADN adopted by the Joint RID/ADR/ADN Meeting and by the Working Party on the Transport of Dangerous Goods (WP.15) for entry into force on 1 January 2023

Note by the secretariat

The secretariat reproduces hereafter draft amendments that might be relevant to ADN adopted by the Joint RID/ADR/ADN Meeting and by the Working Party on the Transport of Dangerous Goods (WP.15) for the Safety Committee's consideration.

Chapter 1.2

Draft amendment:

In the definition for "Service equipment", add a new sub-paragraph (d) at the end to read:

"(d) Of a pressure receptacle, means closures, manifolds, piping, porous, absorbent or adsorbent material and any structural devices, e.g. for handling;"

Note by the secretariat: The definition of Service equipment is not included in the ADN but the term is used in several places, (i.e. definitions like "Body", "Flexible bulk container", in 9.3.1.11.7, 9.3.2.11.9, 9.3.3.11.8, just to mention a few). The Safety Committee might consider adding an adapted definition of the term for the purposes of ADN.

Chapter 1.8

Note by the secretariat: The secretariat reproduces hereafter the adopted texts for 1.8.6, 1.8.7 and 1.8.8 of ADR. The Safety Committee is invited to determine the relevance of these texts for ADN. The secretariat would like to draw the attention of the Safety Committee to the following:

1. "Inspection body" is defined in Article 3 of the ADN as:

"inspection body" means a body nominated or recognized by the Contracting Party for the purpose of inspecting vessels according to the procedures laid down in the annexed Regulations.

"Inspection body" is defined in 1.2.1 of the regulations annexed to ADN as: *Inspection body* means an independent monitoring and verification body certified by the competent authority;

2. "Conformity assessment" is defined in ADR but not in ADN.
3. "Conformity assessment" is used in the context of explosion protection as follows: "(e.g., conformity assessment procedure according to Directive 2014/34/EU,³ the IECEx System,⁴ ECE/TRADE/391⁵ or at least equivalent)" in several paragraphs of the regulations annexed to ADN.

Draft amendment:

1.8.6 Amend to read as follows:

“1.8.6 Administrative controls for the activities described in 1.8.7 and 1.8.8

NOTE 1: For the purpose of this section the terms:

- "approved inspection body" means an inspection body approved by the competent authority to perform different activities according to 1.8.6.1; and
- "recognized inspection body" means an approved inspection body recognized by another competent authority.

NOTE 2: An inspection body may be designated by the competent authority to act as the competent authority (see the definition of competent authority in 1.2.1).

1.8.6.1 General Rules

The competent authority of a Contracting Party to ADR may approve inspection bodies for the following activities: conformity assessments, periodic inspections, intermediate inspections, exceptional inspections, entry into service verifications and surveillance of the in-house inspection service as relevant in Chapters 6.2 and 6.8.

1.8.6.2 Obligations of the competent authority

1.8.6.2.1 When the competent authority approves an inspection body to perform the activities specified in 1.8.6.1, the accreditation of the inspection body shall be according to EN ISO/IEC 17020:2012 (except clause 8.1.3) type A requirements.

When the competent authority approves an inspection body to perform periodic inspections of pressure receptacles according to Chapter 6.2, the accreditation of the inspection body shall be according to EN ISO/IEC 17020:2012 (except clause 8.1.3) type A requirements or type B requirements.

The accreditation shall clearly cover the activities of the approval.

When the competent authority does not approve inspection bodies, but performs these tasks itself, the competent authority shall comply with the provisions of 1.8.6.3.

- 1.8.6.2.2 *Approval of inspection bodies*
- 1.8.6.2.2.1 Type A inspection bodies shall be established under domestic law and be a legal entity in the Contracting Party to ADR where the application for approval is made.
- Type B inspection bodies shall be established under domestic law and be part of a legal entity supplying gas in the Contracting Party to ADR where the application for approval is made.
- 1.8.6.2.2.2 The competent authority shall ensure that the inspection body continuously meets the conditions for its approval and shall end it if these conditions are not met. However, in the case of suspension of the accreditation, the approval is only suspended during the suspension period of the accreditation.
- 1.8.6.2.2.3 An inspection body starting a new activity may be approved temporarily. Before temporary approval, the competent authority shall ensure that the inspection body meets the requirements of 1.8.6.3.1. The inspection body shall be accredited according to EN ISO/IEC 17020:2012 (except clause 8.1.3) in its first year of activity to be able to continue this new activity.
- 1.8.6.2.3 *Monitoring of inspection bodies*
- 1.8.6.2.3.1 Wherever the activities of an inspection body are performed, the competent authority that approved this body shall ensure the monitoring of the activities of this body, including on-site monitoring. The competent authority shall revoke or restrict the approval given if this body is no longer in compliance with the approval, the requirements of 1.8.6.3.1 or does not follow the procedures specified in the provisions of ADR.
- NOTE: Monitoring of subcontractors as mentioned in 1.8.6.3.3 by the inspection body shall also be included in the monitoring of the inspection body.*
- 1.8.6.2.3.2 If the approval of the inspection body is revoked or restricted or if the inspection body ceased activity, the competent authority shall take the appropriate steps to ensure that the files are either processed by another inspection body or kept available.
- 1.8.6.2.4 *Information obligations*
- 1.8.6.2.4.1 Contracting Parties to ADR shall publish their national procedures for the assessment, approval and monitoring of inspection bodies and of any changes to that information.
- 1.8.6.2.4.2 The competent authority of the Contracting Party to ADR shall publish an up-to-date list of all the inspection bodies it has approved, including inspection bodies approved temporarily as described in 1.8.6.2.2.3. This list shall at least contain the following information:
- (a) Name, address(es) of the office(s) of the inspection body;
 - (b) The scope of activities for which the inspection body is approved;
 - (c) Confirmation that the inspection body is accredited according to EN ISO/IEC 17020:2012 (except clause 8.1.3) by the

national accreditation body and that the accreditation covers the scope of activities for which the inspection body is approved;

- (d) The identity mark or stamp, as specified in Chapters 6.2 and 6.8, of the inspection body and the mark of any in-house inspection service authorized by the inspection body.

A reference to this list shall be made on the website of the UNECE secretariat.

- 1.8.6.2.4.3 An inspection body approved by a competent authority may be recognized by another competent authority.

Where a competent authority wishes to engage the services of an inspection body already approved by another competent authority to carry out activities related to conformity assessments and inspections on its behalf, then that competent authority shall add this inspection body, the scope of activities for which it is recognized, and the competent authority that approved the inspection body, to the list mentioned in 1.8.6.2.4.2 and inform the UNECE secretariat. If the approval is withdrawn or suspended the recognition is no longer valid.

NOTE: In that context, reciprocal recognition agreements between Contracting Parties to ADR shall be respected.

1.8.6.3 Obligations of the inspection bodies

1.8.6.3.1 *General rules*

The inspection body shall:

- (a) Have a staff with an organizational structure, capable, trained, competent and skilled, to satisfactorily perform its technical functions;
- (b) Have access to suitable and adequate facilities and equipment;
- (c) Operate in an impartial manner and be free from any influence which could prevent it from doing so;
- (d) Ensure commercial confidentiality of the commercial and proprietary activities of the manufacturer and other bodies;
- (e) Maintain clear demarcation between actual inspection body functions and unrelated functions;
- (f) Have a documented quality management system, equivalent to that set out in EN ISO/IEC 17020:2012 (except clause 8.1.3);
- (g) Ensure that the tests and inspections specified in the relevant standards and in ADR are performed;
- (h) Maintain an effective and appropriate report and record system in accordance with 1.8.7 and 1.8.8;
- (i) Be free from any commercial or financial pressure and not remunerate its personnel depending on the number of the inspections carried out or on the results of those inspections;
- (j) Have a liability insurance covering the risks in relation to the conducted activities;

NOTE: This is not necessary if the Contracting Party to ADR assumes liability in accordance with domestic law.

- (k) Have person(s) responsible for carrying out the inspections who shall:
- Not be directly involved in the design, manufacture, supply, installation, purchase, ownership, use or maintenance of the product (pressure receptacle, tank, battery-vehicle or MEGC) to be inspected;
 - Have been trained in all aspects of the activities in relation to which the inspection body has been approved;
 - Have appropriate knowledge, technical skills and understanding of the applicable requirements, of the applicable standards and of the relevant provisions of Parts 4 and 6;
 - Have the ability to draw up certificates, records and reports demonstrating that assessments have been carried out;
 - Observe professional secrecy with regard to information obtained in carrying out their tasks or any provision of domestic law giving effect to it, except in relation to the competent authorities of the Contracting Party to ADR in which its activities are carried out. At the request of other inspection bodies, information may be shared as far as necessary for the performance of inspections and tests.

The inspection body shall additionally be accredited according to the standard EN ISO/IEC 17020:2012 (except clause 8.1.3),

1.8.6.3.2 *Operational obligations*

1.8.6.3.2.1 The competent authority or inspection body shall carry out conformity assessments, periodic inspections, intermediate inspections, exceptional inspections and entry into service verifications in a proportionate manner, avoiding unnecessary burdens. The competent authority or inspection body shall perform its activities taking into consideration the size, the sector and the structure of the undertakings involved, the relative complexity of the technology and the serial character of production.

1.8.6.3.2.2 The competent authority or inspection body shall respect the degree of rigour and the level of protection required for the compliance with the provisions of Parts 4 and 6 as applicable.

1.8.6.3.2.3 Where a competent authority or inspection body finds out that requirements laid down in Parts 4 or 6 have not been met by the manufacturer, it shall require the manufacturer to take appropriate corrective measures and it shall not issue any type approval certificate or initial inspection and test certificate until the appropriate corrective measures have been implemented.

1.8.6.3.3 *Delegation of inspection tasks*

NOTE: The following provisions only apply to type A inspection bodies. Type B inspection bodies are not allowed to delegate the activities for which they are approved. For in-house inspection services see 1.8.7.7.2.

- 1.8.6.3.3.1 Where an inspection body uses the services of a subcontractor to carry out specific tasks connected with its activities, the subcontractor shall be assessed and monitored by the inspection body, or it shall be accredited separately. In the case of separate accreditation, the subcontractor shall be duly accredited according to EN ISO/IEC 17025:2017 (except clause 8.1.3) or EN ISO/IEC 17020:2012 (except clause 8.1.3) as an independent and impartial testing laboratory or inspection body in order to perform testing tasks in accordance with its accreditation. The inspection body shall ensure that this subcontractor meets the requirements set out for the tasks given to it with the same level of competence and safety as laid down for inspection bodies (see 1.8.6.3.1) and the inspection body shall monitor it. The inspection body shall inform the competent authority about the above-mentioned arrangements.
- 1.8.6.3.3.2 The inspection body shall take full responsibility for the tasks performed by such subcontractors wherever the tasks are performed by them.
- 1.8.6.3.3.3 The type A inspection body may delegate only a part of each of its activities. In any case, the assessment and the issue of certificates shall be carried out by the inspection body itself.
- 1.8.6.3.3.4 Activities shall not be delegated without the agreement of the manufacturer, owner or operator as appropriate.
- 1.8.6.3.3.5 The inspection body shall keep at the disposal of the competent authority the relevant documents concerning the assessment of the qualifications and the work carried out by the above-mentioned subcontractors.
- 1.8.6.3.4 *Information obligations*
- Any inspection body shall inform the competent authority, which had approved it, of the following:
- (a) Except when the provisions of 1.8.7.2.2.2 apply, any refusal, restriction, suspension or withdrawal of type approval certificates;
 - (b) Any circumstance(s) affecting the scope of and conditions for the approval as granted by the competent authority;
 - (c) Any refusal of inspection certificates;
 - (d) Any request for information on activities performed which they have received from competent authorities monitoring compliance according to this section;
 - (e) On request, all activities performed within the scope of their approval, including delegation of tasks
 - (f) Any authorization or suspension or withdrawal of an in-house inspection service.”

1.8.7 Amend to read as follows:

(Reference document for whole 1.8.7: ECE/TRANS/WP.15/AC.1/2021/23/Rev.1, annex III with text striken out removed and as amended in ECE/TRANS/WP.15/AC.1/162 where indicated)

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

NOTE 1: In this section, "relevant body" means a body as assigned in Chapters 6.2 and 6.8.

NOTE 2: In this section, "manufacturer" means the enterprise who is responsible to the competent authority for all aspects of the conformity assessment and for ensuring the conformity of construction whose name and mark appear in the approvals and on the markings. It is not essential that the enterprise is directly involved in all stages of the construction of the product (see 1.8.7.1.5) which is subject of the conformity assessment.

1.8.7.1 General provisions

1.8.7.1.1 The procedures in section 1.8.7 shall be applied as specified in Chapters 6.2 and 6.8.

If the competent authority performs the tasks itself, the competent authority shall meet the provisions of this section.

1.8.7.1.2 Each application for

- (a) The type examination in accordance with 1.8.7.2.1;
- (b) The type approval certificate issue in accordance with 1.8.7.2.2;
- (c) The supervision of manufacture in accordance with 1.8.7.3; or
- (d) The initial inspection and tests in accordance with 1.8.7.4

shall be lodged by the manufacturer with a competent authority or an inspection body, as applicable, in conformity with Chapters 6.2 and 6.8.

Each application for

- (e) The entry into service verification in accordance with 1.8.7.5; or
- (f) The periodic inspection, intermediate inspection and exceptional inspection in accordance with 1.8.7.6

shall be lodged by the owner or its authorized representative, or by the operator or its authorized representative, with a competent authority or an inspection body.

When the in-house inspection service is authorized for (c), (d), or (f), it is not necessary to lodge an application for (c), (d), or (f).

1.8.7.1.3 The application shall include:

- (a) The name and address of the applicant according to 1.8.7.1.2;
- (b) A written declaration that the same application has not been lodged with any other competent authority or inspection body;

- (c) The relevant technical documentation in 1.8.7.8;
- (d) A statement allowing the competent authority or the inspection body, as appropriate, access for conformity assessment or inspection purposes to the locations of manufacture, inspection, testing and storage and providing it with all necessary information to perform their tasks.

1.8.7.1.4 Where the manufacturer or an enterprise with a testing facility is allowed to establish an in-house inspection service according to 6.2.2.12, 6.2.3.6.1, 6.8.1.5.3 (b) or 6.8.1.5.4 (b), it shall demonstrate to the satisfaction of the inspection body that the in-house inspection service is able to perform inspections and tests in conformity with 1.8.7.

1.8.7.1.5 Type approval certificates, inspection certificates and reports for the products (pressure receptacles, tanks, service equipment and the assembly of the elements, structural equipment and service equipment of battery vehicles or MEGCs), including the technical documentation, shall be kept:

- (a) by the manufacturer for a period of at least 20 years from the expiry date of the type approval;
- (b) by the issuing competent authority or the issuing inspection body, for a period of at least 20 years from the issuing date;
- (c) by the owner or operator for a period of at least 15 months after the product is taken out of service.

1.8.7.2 *Type examination and type approval certificate issue*

1.8.7.2.1 *Type examination*

1.8.7.2.1.1 The manufacturer shall:

- (a) In the case of pressure receptacles, place at the disposal of the inspection body representative samples of the production envisaged. The inspection 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;
- (c) In the case of service equipment, place at the disposal of the inspection body representative samples of the production envisaged. The inspection body may request further samples if required by the test programme.

NOTE: *The results of assessments and tests according to other regulations or standards may be taken into account.*

1.8.7.2.1.2 The inspection body shall:

- (a) Examine the technical documentation specified in 1.8.7.8.1 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 the tests, or perform the examinations and verify the test conditions and supervise the tests on site, as specified in ADR, including the relevant standards, to determine that the provisions have been applied and fulfilled, and the procedures adopted by the manufacturer meet the requirements;
- (c) Check the material(s) certificate(s) issued by the manufacturer(s) of the materials 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 the location(s) where the examinations and necessary tests are to be carried out.

The inspection body shall issue a report of the type examination to the manufacturer.

1.8.7.2.2 *Type approval certificate issue*

Type approvals authorize the construction of products 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 the inspection body, shall issue a type approval certificate to the manufacturer in conformity with Chapters 6.2 and 6.8.

This certificate shall contain:

- (a) The name and address of the issuer;
- (b) The competent authority under whom the certificate is issued;
- (c) The name and address of the manufacturer;
- (d) A reference to the version of ADR and standards used for the type examination;
- (e) Any requirements resulting from the type examination;
- (f) The necessary data for identification of the type and variation, as defined by the relevant standard;
- (g) The reference to the type examination report(s);
- (h) The maximum period of validity of the type approval; and
- (i) Any specific requirements in accordance with Chapters 6.2 and 6.8.

A list of the relevant parts of the technical documentation shall be annexed to the certificate (see 1.8.7.8.1).

- 1.8.7.2.2.2 The type approval shall be valid for a maximum of ten years. If within that period the relevant technical requirements of ADR have changed so that the approved type is no longer in conformity with them, then the type approval is no longer valid. If within that period, the withdrawal date according to column (3) of the tables in 6.2.2.1 and 6.2.2.3 or column (5) of the tables in 6.2.4.1, 6.8.2.6.1 and 6.8.3.6

applies, the type approval is also no longer valid. It shall then be withdrawn by the competent authority or the inspection body which issued the type approval certificate.

NOTE: For the latest date for withdrawal of existing type approvals, see column (5) of the tables in 6.2.4.1 and 6.8.2.6.1 or 6.8.3.6 as appropriate.

If a type approval has expired, or has been withdrawn, the manufacture of the products according to that type approval is no longer authorized.

NOTE: The relevant provisions concerning the use, periodic inspection and intermediate inspection of products contained in a type approval which has expired or has been withdrawn shall continue to apply to the products constructed according to that type approval before its expiry or its withdrawal if they may continue to be used.

Type approvals may be renewed on the basis of a new type examination. Results of the previous type examination tests shall be taken into account if these tests are still in accordance with the provisions of ADR including the standards applicable at the date of renewal. Renewal is not permitted after a type approval has been withdrawn.

NOTE: The type examination for renewal may be performed by an inspection body other than the one which issued the original type examination report.

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 6.8.2.3.3) do not extend or modify the original validity of the certificate.

- 1.8.7.2.2.3 In the case of a modification of a product with a valid, expired or withdrawn type approval, the relevant type examination, testing, inspection and approval are limited to the parts of the product that have been modified.

The modification shall meet the provisions of ADR applicable at the time of the modification. For all parts of the product not affected by the modification, the documentation of the initial type approval remains valid.

A modification may apply to one or more product(s) covered by the same type approval.

Where the modified product satisfies all applicable provisions, a supplementary approval certificate for the modification shall be issued to the owner or operator by the competent authority or inspection body of any Contracting Party to ADR in conformity with Chapters 6.2 and 6.8. For tanks, battery-vehicles or MEGCs, a copy shall be kept as part of the tank record.

1.8.7.3 *Supervision of manufacture*

- 1.8.7.3.1 The manufacturer 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, the technical documentation according to 1.8.7.8.3 and reports.

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

The relevant body shall:

- (a) Verify the conformity with the technical documentation specified in 1.8.7.8.3 and with the applicable provisions of ADR and of the type approval certificate and reports;
- (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(s) 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 on the location where the examinations and necessary tests are to be carried out; and
- (f) Provide a written report of the results of the supervision of manufacture.

1.8.7.4 *Initial inspection and tests*

- 1.8.7.4.1 The manufacturer shall:

- (a) Affix the marks specified in ADR; and
- (b) Supply to the relevant body the technical documentation specified in 1.8.7.8.4.

- 1.8.7.4.2 The relevant body shall:

- (a) Perform the examinations and the tests, or perform the examinations and verify the test conditions and supervise the tests on site to ensure 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 tests report relating to the detailed tests and verifications carried out and the verified technical documentation;
- (d) Issue an initial inspection and tests certificate and affix its mark when the manufacture satisfies the provisions; and
- (e) Check if the type approval remains valid after provisions of ADR (including the referenced standards) relevant to the type approval have changed. If the type approval is no longer valid, the relevant body shall issue a refusal inspection report and inform the competent authority or the inspection body which issued the type approval certificate.

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

- 1.8.7.4.3 The certificate in 1.8.7.4.2 (d) shall contain as a minimum:

- (a) The name and address of the inspection body and the name and address of the in-house inspection service when applicable;
- (b) The name and address of the manufacturer;
- (c) The location of the initial inspection;
- (d) A reference to the version of ADR and the standards used for the initial inspections and tests;
- (e) The results of the inspections and tests;
- (f) The data for identification of the inspected product(s), at least the serial number or for non refillable cylinders the batch number;
- (g) The type approval number; and
- (h) The reference to the certificate of authorization of the in-house inspection service when applicable.

1.8.7.5 *Entry into service verification*

1.8.7.5.1 If an entry into service verification is required by the competent authority under 6.8.1.5.5, the owner or operator shall engage a single inspection body to perform the entry into service verification and shall provide it with the type approval certificate and the technical documentation specified in 1.8.7.8.4.

1.8.7.5.2 The inspection body shall review the documentation and:

- (a) Perform external checks (e.g. marking, condition);
- (b) Verify conformity with the type approval certificate;
- (c) Verify the validity of the approvals of the inspection bodies who performed the previous inspections and tests;
- (d) Verify that the transitional measures of 1.6.3 or 1.6.4 have been fulfilled.

1.8.7.5.3 The inspection body shall issue an entry into service verification report that contains the results of the assessment. The owner or operator shall present this report at the request of the competent authority requiring the entry into service verification, and to the inspection body(ies) in charge of subsequent inspections and tests.

In the event of a failed entry into service verification, the non-conformities shall be rectified and a new entry into service verification passed before the tank is used.

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

1.8.7.6 *Periodic inspection, intermediate inspection and exceptional inspection*

1.8.7.6.1 The relevant body shall:

- (a) Perform the identification and verify the conformity with the documentation;

- (b) Perform the inspections and the tests, or perform the inspections and verify the test conditions and supervise the tests on site in order to check that the requirements are met;
- (c) Issue reports and certificates, as appropriate, of the results of the inspections and tests, which may cover a number of products; and
- (d) Ensure that the required marks are applied.

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

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

1.8.7.7 Surveillance of the in-house inspection service

1.8.7.7.1 Where an in-house inspection service is used according to 6.2.2.12, 6.2.3.6.1, 6.8.1.5.3 (b) or 6.8.1.5.4 (b), the manufacturer or the testing facility shall:

- (a) Implement a quality system for the in-house inspection service, including technical procedures, for inspections and tests documented in 1.8.7.8.6 and subject to surveillance;
- (b) Fulfil the obligations arising out of the quality system as approved and ensure that it remains satisfactory and efficient in particular:
 - (i) Authorize trained and competent personnel for the in-house inspection service; and
 - (ii) Affix the identity mark or stamp, as specified in Chapters 6.2 and 6.8, of the inspection body, and the mark of the in-house inspection service where appropriate on the product to ensure traceability.

1.8.7.7.2 The inspection body shall carry out an initial audit at each site. If satisfactory the inspection body shall inform the competent authority of the authorization of the in-house inspection service and issue a certificate of authorization for a period not exceeding three years. The following provisions shall be met:

- (a) This audit shall be undertaken at each site to confirm that the inspections and tests performed are in compliance with the requirements of ADR;
- (b) The inspection body may authorize the in-house inspection service to affix the identity mark or stamp, as specified in Chapter 6.2 and 6.8, of the inspection body to each approved product;
- (c) The authorization may be renewed after a satisfactory audit at each site in the last year prior to the expiry. The new period of validity shall begin with the date of expiry of the authorization;
- (d) The inspectors of the inspection body undertaking the audits shall be competent to carry out the assessment of conformity of the product covered by the quality system and to assess the quality system itself; and

- (e) The in-house inspection service shall be engaged in activities at a frequency which ensures the necessary level of competence.

The in-house inspection service may, in specific cases only, subcontract specific parts of its activities if approved by the inspection body which has authorized it. The subcontractor shall additionally be accredited according to EN ISO/IEC 17025:2017 (except clause 8.1.3) or EN ISO/IEC 17020:2012 (except clause 8.1.3) as an independent and impartial testing laboratory or inspection body in order to perform testing tasks in accordance with its accreditation.

1.8.7.7.3 The certificate of authorization shall contain as a minimum:

- (a) The name and address of the inspection body;
- (b) The name and address of the manufacturer or testing facility and addresses of all in-house inspection service sites;
- (c) A reference to the version of ADR used for authorization of the in-house inspection service and standards or recognised technical codes according to 6.2.5 used for initial inspection and tests or periodic inspections;
- (d) The reference to the initial audit report;
- (e) As necessary, further information to define the scope of the in-house inspection service (e.g. type approvals of the products for initial inspection and tests);
- (f) The mark of the in-house inspection service, if applicable; and
- (g) The expiry date.

1.8.7.7.4 The inspection body shall carry out periodic audits at each site within the duration of the authorization to make sure that the in-house inspection service maintains and applies the quality system, including the technical procedures. The following provisions shall be met:

- (a) The audits shall be carried out no later than every 6 months;
- (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 in-house inspection service;
- (c) The inspection body shall assess any changes in the quality system and decide whether the modified quality system still satisfies the requirements of the initial audit or whether a full reassessment is required;
- (d) The inspectors of the inspection body undertaking the audits shall be competent to carry out the assessment of conformity of the product covered by the quality system and to assess the quality system itself; and
- (e) The inspection body shall provide the manufacturer or the testing facility, as applicable, and the in-house inspection service, with the report of the audit and, if tests have taken place, with a test report.

1.8.7.7.5 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 manufacturer or the testing facility, as applicable, and to the in-house inspection service giving detailed reasons for the decisions taken by the inspection body.

1.8.7.8 Documents

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

1.8.7.8.1 *Documents for the type examination*

The manufacturer 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 carried 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 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 processes;
- (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 certificate issue*

The manufacturer 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 carried 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; and
- (h) Further documents mentioned under 1.8.7.8.1 on request of the competent authority or inspection body.

1.8.7.8.3 *Documents for the supervision of manufacture*

The manufacturer shall provide as appropriate:

- (a) The documents listed in 1.8.7.8.1 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.

1.8.7.8.4 *Documents for initial inspection and tests, and for entry into service verification*

The manufacturer for initial inspection and tests, and the owner or operator for the entry into service verification shall provide as appropriate:

- (a) The documents listed in 1.8.7.8.1, 1.8.7.8.2, and 1.8.7.8.3;
- (b) The material certificates of the product and any sub-parts including the service equipment;
- (c) The certificates of conformity 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.

1.8.7.8.5 *Documents for periodic inspection, intermediate inspection and exceptional inspection*

The owner or operator, or its authorized representative shall provide 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) any relevant document mentioned in 1.8.7.8.1 to 1.8.7.8.4 if requested by the inspection body.

1.8.7.8.6 *Documents for the surveillance of in-house inspection service*

The in-house inspection service shall provide 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 on-site audits in accordance with 1.8.7.7;
- (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.”

1.8.8 (a) Replace “1.8.7.5” by “1.8.7.6”.

1.8.8.1.1 Replace “IS body approved” by “IS authorized” and “IS bodies” by “IS”

1.8.8.1.4 Replace “1.8.7.6 excluding 1.8.7.6.1 (d) and 1.8.7.6.2 (b)” by “1.8.7.7 excluding 1.8.7.7.1 (d) and 1.8.7.7.2 (b)”.

1.8.8.6 Replace “1.8.7.6 excluding 1.8.7.6.1 (d) and 1.8.7.6.2 (b)” by “1.8.7.7 excluding 1.8.7.7.1 (d) and 1.8.7.7.2 (b)”.

1.8.8.7 Replace “1.8.7.7.1, 1.8.7.7.2, 1.8.7.7.3 and 1.8.7.7.5” by “1.8.7.8.1, 1.8.7.8.2, 1.8.7.8.3, 1.8.7.8.4 and 1.8.7.8.6”.

(Reference document: ECE/TRANS/WP.15/AC.1/2021/23/Rev.1, Annex VI)