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AMENDMENTS TO OTHER REGULATIONS UNDER THE 1958 AGREEMENT

Regulation No. 58 (Rear underrun protection)

Proposal for draft 02 series of amendments to Regulation No. 58

Submitted by the experts from France and the European Commission

The text reproduced below was prepared by the experts from France and the European Commission proposing to align the provisions of Regulation No. 58 with those of the corresponding European Union (EU) Directive 2006/20/EC. It is based on informal documents Nos. GRSG-91-17 and GRSG-91-21, distributed during the ninety-first session of the Working Party on General Safety Provisions (GRSG) (ECE/TRANS/WP.29/GRSG/70, para. 39). The modifications to the current text of the Regulation are marked in **bold** characters.

Note: This document is distributed to the Experts on General Safety Provisions only.

A. PROPOSAL

Contents of the Regulation, insert a new reference to Part IV, to read:

"PART IV. TRANSITIONAL PROVISIONS"

The text of the Regulation,

PART I.

Paragraph 6.2., amend to read:

"6.2. An approval number shall be assigned to each type approved. Its first two digits (at present **02** corresponding to the **02** series of amendments) shall indicate the series of amendments "

Insert new paragraphs 7.4. to 7.4.2., to read:

"7.4. **For vehicles fitted with a platform lift at the rear, the underrun device may be interrupted for the purposes of the mechanism. In this case, the following special requirements apply:**

7.4.1. **The maximum lateral clearance measured between the elements of the underrun device and the elements of the platform lift, which move through the interruption when the lift is operated and which make the interruption necessary, may amount to no more than 2.5 cm.**

7.4.2. **The individual elements of the underrun protection, including those outboard of the lift mechanism, where provided, must have an effective surface area, in each case, of at least 350 cm²."**

Paragraphs 8. to 8.2., amend to read:

"8. CONFORMITY OF PRODUCTION

The conformity of production procedures shall comply with those set out in the Agreement, Appendix 2 (E/ECE/324-E/ECE/TRANS/505/Rev.2), with the following requirements:

8.1. Every rear underrun protective device approved under this Regulation shall be so manufactured as to conform to the type approved by meeting the requirements set out in paragraph 7. above.

8.2. **The authority that has granted type approval may at any time verify the conformity control methods applied in each production facility. The normal frequency of these verifications shall be one every two years."**

Paragraphs 8.3. to 8.4.5., should be deleted.

PART II.

Paragraph 15.2., amend to read:

"15.2. An approval number shall be assigned to each type approved. Its first two digits (at present **02** corresponding to the **02** series of amendments) shall indicate the series of amendments "

Paragraph 16.3., amend to read:

"16.3. The device must be so fitted that the horizontal distance between the rear of the device and the rear extremity of the vehicle, **including any platform lift mechanism**, does not exceed 400 mm diminished any part of the vehicle which is more than **2 m** above the ground when the vehicle is unladen shall be excluded."

Paragraph 16.4., amend to read (deletion of the second sentence):

"16.4. The maximum mass to be installed on that vehicle."

Paragraphs 17. to 17.2., amend to read:

"17. CONFORMITY OF PRODUCTION

The conformity of production procedures shall comply with those set out in the Agreement, Appendix 2 (E/ECE/324-E/ECE/TRANS/505/Rev.2), with the following requirements:

17.1. Every vehicle approved **under** this Regulation shall be so manufactured as to conform to the type approved by meeting the requirements set out in paragraph 16. above.

17.2. **The authority that has granted type approval may at any time verify the conformity control methods applied in each production facility. The normal frequency of these verifications shall be one every two years."**

Paragraphs 17.3. to 17.6., should be deleted.

PART III.

Paragraph 24.2., amend to read:

"24.2. An approval number shall be assigned to each type approved. Its first two digits (at present **02** corresponding to the **02** series of amendments) shall indicate the series of amendments "

Paragraph 25.6., amend to read:

"25.6. The RUP must offer the rear extremity of the vehicle, **including any platform lift mechanism**, does not exceed 400 mm at any of the points where the test forces are applied. In measuring this distance, any part of the vehicle which is more than **2 m** above the ground when the vehicle is unladen must be excluded."

Insert new paragraphs 25.8. to 25.8.2., to read:

"**25.8. For vehicles fitted with a platform lift at the rear, the underrun device may be interrupted for the purposes of the mechanism. In this case, the following special requirements apply:**

25.8.1. the maximum lateral clearance measured between the elements of the underrun device and the elements of the platform lift, which move through the interruption when the lift is operated and which make the interruption necessary, may amount to no more than 2.5 cm.

25.8.2. The individual elements of the underrun protection, including those outboard of the lift mechanism, where provided, must have an effective surface area, in each case, of at least 350 cm²."

Paragraphs 26. to 26.2., amend to read:

"26. CONFORMITY OF PRODUCTION

The conformity of production procedures shall comply with those set out in the Agreement, Appendix 2 (E/ECE/324-E/ECE/TRANS/505/Rev.2), with the following requirements:

26.1. Every vehicle approved under this Regulation shall be so manufactured as to conform to the type approved by meeting the requirements set out in paragraph 25. above.

26.2. **The authority that has granted type approval may at any time verify the conformity control methods applied in each production facility. The normal frequency of these verifications shall be one every two years."**

Paragraphs 26.3. to 26.4.5., should be deleted.

Insert a new Part IV., to read:

"PART IV. TRANSITIONAL PROVISIONS

31. TRANSITIONAL PROVISIONS

31.1. As from the official date of entry into force of the 02 series of amendments, no Contracting Party applying this Regulation shall:

- (a) refuse to grant approval under Parts I, II and III of this Regulation as amended by the 02 series of amendments;**
- (b) refuse a type of component or separate technical unit approved under Part I of this Regulation as amended by the 02 series of amendments;**
- (c) prohibit the fitting on a vehicle of a component or separate technical unit approved under Parts I and II of this Regulation as amended by the 02 series of amendments.**

31.2. Until [18 months] after the date of entry into force of this Regulation as amended by the 02 series of amendments, Contracting Parties applying this Regulation shall:

- (a) not refuse a type of component or separate technical unit approved under Part I of this Regulation as amended by the 01 series of amendments;**
- (b) not refuse to grant approvals to those types of component or separate technical unit which comply with the requirements of Part I of this Regulation as amended by the 01 series of amendments;**
- (c) not refuse to grant extensions of approval for components or separate technical units which comply with Part I of this Regulation as amended by the 01 series of amendments;**
- (d) continue to allow the fitting on a vehicle of a component or separate technical unit approved under Parts I and II of this Regulation as amended by the 01 series of amendments.**

31.3. As from [18 months] after the date of entry into force of this Regulation as amended by the 02 series of amendments, Contracting Parties applying this Regulation shall:

- (a) refuse a type of component or separate technical unit which does not meet the requirements of Part I of this Regulation as amended by the 02 series of amendments;**
- (b) grant approvals only if the type of component or separate technical unit to**

be approved meets the requirements of Part I of this Regulation as amended by the 02 series of amendments;

- (c) prohibit the fitting of a component or separate technical unit which does not meet the requirements of Parts I and II of this Regulation as amended by the 02 series of amendments;
- (d) consider approvals in the case of types of component or separate technical unit to be invalid, except where they comply with the requirements of Part I of this Regulation as amended by the 02 series of amendments.

31.4. Until [48 months] following the date of entry into force of this Regulation as amended by the 02 series of amendments Contracting Parties applying this Regulation shall:

- (a) continue to grant approvals to those types of vehicles which comply with the requirements of Part III of this Regulation as amended by the 01 series of amendments;
- (b) continue to accept national or regional type-approval of a vehicle type-approved under Part III of this Regulation as amended by the 01 series of amendments.

31.5. As from [48 months] after the date of entry into force of this Regulation as amended by the 02 series of amendments, Contracting Parties applying this Regulation shall:

- (a) grant approvals only if the vehicle type to be approved meets the requirements of Part III of this Regulation as amended by the 02 series of amendments;
- (b) refuse national or regional type-approval and shall refuse first national or regional registration (first entry into service) of a vehicle which does not meet the requirements of Part III of this Regulation as amended by the 02 series of amendments;
- (c) consider approvals to this Regulation to be invalid, except in the case of vehicle types which comply with the requirements of Part III of this Regulation as amended by the 02 series of amendments.

31.6. Notwithstanding the transitional provisions above, Contracting Parties whose application of this Regulation comes into force after the date of entry into force of the most recent series of amendments are not obliged to accept approvals which were granted in accordance with any of the preceding series of amendments to this Regulation."

Notes 1/ and 2/, amend to read:

"1/ As defined in Annex 7 to the Consolidated Resolution on the Construction of Vehicles (R.E.3), (document TRANS/WP.29/78/Rev.1/Amend.2 as last amended by Amend.4).

2/ 1 for Germany, 2 for France, 3 for Italy, 4 for the Netherlands, 5 for Sweden, 6 for Belgium, 7 for Hungary, 8 for the Czech Republic, 9 for Spain, 10 for Serbia, 11 for the United Kingdom, 12 for Austria, 13 for Luxembourg, 14 for Switzerland, 15 (vacant), 16 for Norway, 17 for Finland, 18 for Denmark, 19 for Romania, 20 for Poland, 21 for Portugal, 22 for the Russian Federation, 23 for Greece, 24 for Ireland, 25 for Croatia, 26 for Slovenia, 27 for Slovakia, 28 for Belarus, 29 for Estonia, 30 (vacant), 31 for Bosnia and Herzegovina, 32 for Latvia, 33 (vacant), 34 for Bulgaria, 35 (vacant), 36 for Lithuania, 37 for Turkey, 38 (vacant), 39 for Azerbaijan, 40 for The former Yugoslav Republic of Macedonia, 41 (vacant), 42 for the European Community (Approvals are granted by its Member States using their respective ECE symbol), 43 for Japan, 44 (vacant), 45 for Australia, 46 for Ukraine, 47 for South Africa, 48 for New Zealand, 49 for Cyprus, 50 for Malta, 51 for the Republic of Korea, 52 for Malaysia and 53 for Thailand. Subsequent numbers shall be assigned to other countries in the chronological order in which they ratify or accede to the Agreement Concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, and the numbers thus assigned shall be communicated by the Secretary-General of the United Nations to the Contracting Parties to the Agreement."

Annex 4, Models A and B,

In the examples of the approval marks and in the captions below amend the approval number "012439" to read "**02**2439" (three times) and amend the words "01 series of amendments" amend to read "**02** series of amendments" (two times).

Annex 5,

Paragraph 2.5., amend to read:

"2.5. Vehicles equipped shall be tested **with the suspension or device** in the normal running condition specified by the manufacturer."

Paragraph 3.1.2., amend to read:

"3.1.2. In the cases defined in paragraphs 1.1.1. and 1.1.2. of this annex a horizontal force of **50 kN or 25 per cent** of the force generated"

Paragraph 3.1.3., amend to read:

"3.1.3. In the cases defined in paragraph 1.1.3. of this annex a horizontal force of **50 kN or 25 per cent** of the force generated "

Insert new paragraphs 3.2. to 3.2.2., to read:

"3.2. Replacement force application points

If any point defined under paragraph 3.1. is located within the interruption area of the underrun protection device as mentioned in paragraphs 7.4. or 25.8. of this Regulation, the test forces shall be applied at replacement points located:

3.2.1. for the requirement under paragraph 3.1.1., on the horizontal centerline and within 50 mm of each vertical edge closest to the intended points of force application, as defined in that paragraph, and

3.2.2. for the requirement under paragraph 3.1.2., at the intersection of the horizontal and vertical centerlines of each element furthest from the vertical centerline of the device or of the vehicle, whichever is applicable. These points should be a maximum of 325 mm from the longitudinal planes tangential to the outer edges of the wheels on the rear axle."

Note by the secretariat The International Organization of Motor vehicle Manufacturers (OICA) has requested the secretariat to include the following alternative proposal (ECE/TRANS/WP.29/GRSG/70, para. 39) for paragraph 3.2.:

Insert a new paragraph 3.2., to read:

"3.2. If any point defined under paragraph 3.1. is located between adjacent individual elements of the underrun protection device, mentioned in paragraphs 7.4. or 25.8. of this Regulation, the force shall be applied at a point located in the middle of each of those adjacent individual elements."

B. JUSTIFICATION

The new paragraphs 7.4. and 25.8. of the text of the Regulation as well as paragraph 3.2. of Annex 5 are inserted in order to allow the increasing use of platform lifts on the rear of vehicles. The lift mechanisms for these units require interruption of protection systems and this proposal would allow the necessary changes to be made. Paragraphs 7.4.2. and 25.8.2. would ensure that any section of devices, remaining outboard of the lift device, would have a minimum surface area in order not to present danger.

The amendments to paragraph 2.5. of Annex 5 are proposed for clarification of vehicle testing conditions.

The amendments to paragraphs 3.1.2. and 3.1.3. of Annex 5 are introduced in order to improve the levels of safety provided by the system and to ensure international harmonization of the requirements.
