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Item 5(b) of the provisional agenda
Amendments to External Projections Regulations:
UN Regulation No. 61 (External projections of commercial vehicles)

Proposal for the 01 of amendments to UN Regulation No. 61
(External projections of commercial vehicles)

Submitted by the expert from Germany on behalf of the Task Force on
UN Regulation No. 46*

The text reproduced below was prepared by the expert from Germany on behalf of the
Task Force on UN Regulation No. 46 (TF UN-R-46). It based on the discussions, which took
place during the meeting of the Task Force on UN-R 46 on May 4 and 5, 2023 held in-person
and online in Cologne, Germany. Participants of the task force were experts from China,
France, Germany, India, the Republic of Korea, The Netherlands, Sweden, the European
Association of Automotive Suppliers (CLEPA) and the International Organization of Motor
Vehicle Manufacturers (OICA). The modifications to the current text of the UN Regulation
are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in
proposed programme budget for 2023 (A/77/6 (Sect. 20), table 20.6), the World Forum will develop,
harmonize and update UN Regulations in order to enhance the performance of vehicles. The present
document is submitted in conformity with that mandate.
I. Proposal

Paragraph 1.1., amend to read:

"1.1. This Regulation applies to the external projections of goods vehicles of categories N₁, N₂ and N₃,¹ limited to the "external surface" as defined below.

It does not apply to the exterior devices for indirect vision, including their support, approved to UN Regulation No. 46 or to the accessories such as aerials and luggage racks."

Insert new paragraphs 2.11. to 2.12., to read:

"2.11. "Surveillance camera-monitor-recording device" means a camera and either a monitor or recording equipment other than the camera-monitor system defined in [paragraph 2.1.2. of] UN Regulation No. 46, which can be fitted to the inside or outside of the vehicle in order to provide fields of vision other than those specified in UN Regulation No. 46 or to provide a security system within or around the vehicle."

2.14. "Surveillance mirror" means a mirror other than the ones defined in [paragraph 2.1.1. of] UN Regulation No. 46, which can be fitted to the inside or outside of the vehicle in order to provide fields of vision other than those specified in UN Regulation No. 46.

Paragraph 4.1.2., amend to read:

"4.1.2. An approval number shall be assigned to each approved type in accordance with Schedule 4 of the Agreement (E/ECE/TRANS/505/Rev.3). type approved. Its first two digits (at present 00, corresponding to its original form) shall indicate the series of amendments incorporating the most recent major technical amendments made to the Regulation at the time of issue of the approval. The same Contracting Party may not assign the same number to another vehicle type."

Insert new paragraph 6.12. and subsequent paragraphs, to read:

"6.12. Surveillance mirror(s) and surveillance camera-monitor-recording device(s)

6.12.1 Exterior surveillance mirrors shall be mounted at least 2 m above the ground when the vehicle is under a load corresponding to its maximum technical permissible mass or shall be fully integrated in a housing including Class II or III mirror(s) which is (are) type approved to UN Regulation No. 46.

6.12.2. Exterior surveillance cameras shall be mounted at least 2 m above the ground when the vehicle is under a load corresponding to its maximum technical permissible mass, or, if the surveillance camera is less than 2 m from the ground it shall not project more than 50 mm beyond the overall width of the vehicle measured without this device.

6.12.3. Exterior surveillance mirrors and surveillance camera installed outside the vehicle which are in potential, static contact with a sphere of 100 mm in diameter, shall have a radius of curvature not less than 2.5 mm.

6.12.4. The requirements in paragraph 6.12.3. above shall not apply to parts of the external surface which protrude less than 5 mm, but the outward facing angles of such parts shall be blunted, and are considered save where such parts protrude less than 1.5 mm. For determining the dimension of the projection, the following method shall apply:"
6.12.4.2. If the dimension of the projection of a component which is mounted on a surface other than convex cannot be determined by simple measurement, it shall be determined by the maximum variation of the distance of the centre of a 100 mm diameter sphere from the nominal line of the panel when the sphere is moved over and is in constant contact with that component. Figure 1 shows an example of the use of this procedure.

Figure 1
Example for the measurement by maximum variation

6.12.5. Edges of fixing holes or recesses of which the diameter or longest diagonal is less than 12 mm are exempt from the radius requirements of paragraph 6.12.3. above provided that they are blunted.

6.12.6. For parts of the camera and the monitor which are made of a material with a Shore A hardness of less than 60 and which are mounted on a rigid support, the requirements of paragraph 6.12.3. above shall only apply to the support.”

Insert new paragraphs 12.1. to 12.5., to read:

"12.1. As from the official date of entry into force of the 01 series of amendments, no Contracting Party applying this Regulation shall refuse to grant or refuse to accept type approvals under this Regulation as amended by the 01 series of amendments.

12.2. As from 1 September [202X], Contracting Parties applying this Regulation shall not be obliged to accept type approvals to the preceding series of amendments, first issued after 1 September [202X].

12.3. Until 1 September [202Y], Contracting Parties applying this Regulation shall accept type approvals to the preceding series of amendments, first issued before 1 September [202X].

12.4. As from 1 September [202Y], Contracting Parties applying this Regulation shall not be obliged to accept type approvals issued to the preceding series of amendments to this Regulation.”

Annex 2, amend to read:

"Annex 2

Arrangements of the approval marks

Model A

(See paragraphs 4.4. of this Regulation)
The above approval mark affixed to a commercial vehicle shows that the vehicle type concerned has, with regard to external projections, been approved in the Netherlands (E 4) pursuant to UN Regulation No. 61 and under approval number 012439. The first two digits of the approval number indicate that UN Regulation No. 61 already included the 01 series of amendments when the approval was granted.

Model B
(See paragraph 4.1.5. of this Regulation)

The above approval mark affixed to a vehicle shows that the vehicle type concerned has been approved in the Netherlands (E 4) pursuant to UN Regulations Nos. 61 and 10. The first two digits of the approval numbers indicate that, at the dates when the respective approvals were given, UN Regulation No. 61 included the 01 series of amendments, while UN Regulation No. 10 already included the 01 series of amendments."

II. Justification

The Task Force of the Working Party on General Safety Provisions on UN Regulation No. 46 proposes to delete the contents regarding the surveillance cameras/mirrors in UN Regulation No. 46. Currently there is a provision made, that no surveillance camera/mirror shall be handled under UN Regulation No. 46, but then stating some specific requirements. In sake of clarity, these requirements shall be moved to the UN Regulations dealing with the external projections, namely UN Regulation No. 26 for passenger cars and UN Regulation No. 61 for commercial vehicles.

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1 The latter number is given as an example only.