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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### 183rd session

Geneva, 9-11 March 2021

Item 4.8.1 of the provisional agenda

#### 1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRSG

## **Proposal for Supplement 9 to the 04 series of amendments to UN Regulation No. 46 (Devices for indirect vision)**

### **Submitted by the Working Party on General Safety Provisions \***

The text reproduced below was adopted by the Working Party on General Safety Provisions at its 119th session, held in October 2020 (ECE/TRANS/WP.29/GRSG/98, para. 31). It is based on ECE/TRANS/WP.29/GRSG/2020/6. It is submitted to World Forum for Harmonization of Vehicle Regulations (WP.29) and the Administrative Committee of the 1958 Agreement (AC.1) for consideration and vote at their March 2021 sessions.

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\* In accordance with the programme of work of the Inland Transport Committee for 2020 as outlined in proposed programme budget for 2020 (A/74/6 (part V sect. 20) para 20.37), 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.

Paragraphs 2.1.1.7. to 2.1.1.9., amend to read:

- "2.1.1.7. "Spherical surface" means a convex surface, which has, in both horizontal and vertical direction, measured radii of curvature compliant with the provisions given in paragraphs 6.1.2.2.2 and 6.1.2.2.4.
- 2.1.1.8. "Aspherical surface" means a convex surface, which may have variable radii of curvature both in the horizontal and vertical direction.
- 2.1.1.9. "Aspherical mirror" means a mirror composed of a spherical and an aspherical part, defined in 2.1.1.7 and 2.1.1.8 respectively, in which the transition of the reflecting surface from the spherical to the aspherical part has to be marked. As an example, the curvature of the main axis of the mirrors may be defined in the x/y coordinate system defined by the radius of the spherical primary calotte with:

$$y = R - \sqrt{(R^2 - x^2)} + k(x - a)^3$$

Where:

R: nominal radius in the spherical part

k: constant for the change of curvature

a: constant for the spherical size of the spherical primary calotte"

Paragraph 6.1.2.2.1., amend to read:

- "6.1.2.2.1. The reflecting surface of a mirror shall be either flat or convex. Exterior mirrors may be equipped with an additional aspherical part provided that the main mirror fulfils the requirements of the indirect field of vision."
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