

## **Proposal for Supplement [x] to UN Regulation No. 148 (Light-Signalling Devices)**

### **I. Proposal**

*Paragraph 5.6.11.*, amend to read:

“5.6.11. For direction indicator lamps of categories 1, 1a, 1b, 2a ~~or~~, 2b, **11, 11a, 11b, 11c or 12** the flash may be produced by sequential activation of their light sources if the following conditions are met:

(a) Each light source, after its activation, shall remain lit until the end of the ON cycle;

(b) The sequence of activation of the light sources shall produce a signal which proceeds in a uniform progressive manner from inboard towards the outboard edge of the light emitting surface;

(c) It shall be one signal with no interruption and no vertical oscillations (e.g. not more than one change of direction along the vertical axis). The distance between two adjacent/tangential distinct parts of the light emitting surface of the sequential direction indicator shall not exceed 50mm, when measured perpendicularly to the reference axis, instead of the values defined in paragraph 5.7.2. of UN Regulation No. 48 **or paragraph 5.7.2. of UN Regulation No. 86 or paragraph 5.6.2. of UN Regulation No. 53**. These interruptions of the signal shall not create any overlap in the vertical axis between the different parts, from inboard towards the outboard of the vehicle, and shall not be used for any other lighting or light signalling functions;

(d) The variation shall finish no more than 200ms after the beginning of the ON cycle;

(e) The orthogonal projection of the light emitting surfaces of the direction indicator in the direction of the axis of reference shall be circumscribed by a rectangle on a plane normal to the axis of reference and having its longer sides parallel to the H-plane. The ratio of the horizontal to the vertical sides shall not be less than 1.7.

Compliance to the conditions mentioned above shall be verified in flashing mode.”

### **II. Justification**

This proposal is aimed at restoring the sequential activation of direction indicators of categories 11, 11a, 11b, 11c and 12, which was included in UN Regulation No. 50 but omitted when UN Regulation No. [148] was developed during SLR Stage 1.

The corresponding references to UN Regulation Nos. 53 and 86 have been included.