Proposal for amendments to ECE/TRANS/WP.29/GRVA/2019/8

I. Proposal

Renumber paragraph 2.3.4.18. to 2.4.18.

Insert a new paragraph 5.7., to read:

5.7.   **Provisions for RCM fitted to vehicles of category M$_1$ and N$_1$.**

          Any RCM shall be subject to the requirements of Annex 6.

Renumber paragraph 5.6.5. to 5.7.1 and amend, to read:

5.~~6.5.~~**7.1.**   Vehicles of category M$_1$ and N$_1$ meeting the requirements of category G, ~~as well as [N2 with a maximum laden mass over 7,500kg], and N3~~ may be equipped with RCM provided the system fulfils the following requirements.

Renumber paragraphs 5.6.5.1. to 5.6.5.6. as 5.7.1.1 to 5.7.1.6. respectively.

Renumber paragraph 5.6.5.7. to 5.7.1.7. and amend, to read:

5.**7.1**~~6.5~~.7.   The specified maximum RCM operating range (**S$_{RCMmax}$**) shall not exceed ~~[6m.] for vehicles of category M1 and N1. For all other vehicles equipped with RCM, the maximum RCM operating range shall not exceed [15m].~~

Renumber paragraphs 5.6.5.8. to 5.6.5.10. as 5.7.1.8 to 5.7.1.10. respectively.

Amend and renumber paragraphs 5.6.5.11. and 5.6.5.12., to read:

5.**7.1**~~6.5~~.11.   System information data

~~5.6.5.12.~~   The Following data shall be provided together with the documentation package required in Annex 6 of this Regulation to the Technical Service at the time of type approval:

Renumber paragraphs 5.6.5.12.1. to 5.6.5.12.3. as 5.7.1.11.1. to 5.7.1.11.3. respectively.

Delete paragraph 5.6.5.13.

Renumber paragraphs 5.6.5.13.1. to 5.6.5.13.2. as 5.7.1.12. to 5.7.1.13. respectively.

Renumber paragraph 5.6.5.13.3. to 5.7.1.14 and amend, to read:

5.**7.1**~~6.5~~.1~~4~~**4**~~3.3~~.   If the vehicle stops having detected an obstacle in the manoeuvring area, subsequent operation shall only be possible following confirmation from the driver. The vehicle shall respond to any subsequent objects detected in the manoeuvring area as prescribed in paragraph 5.**7.1**~~6.5~~.13~~3.2~~.

Renumber paragraph 5.6.5.13.4. to 5.7.1.15.

Renumber paragraph 5.6.5.13.5. to 5.7.1.16. and amend, to read:

5.**7.16.~~5~~**.1~~6~~6~~3.5~~.   The vehicle shall detect if, while the RCM function is active, the vehicle enters any of the locations listed under paragraph 5.**7.16.~~5~~**.12~~3.1~~. In such a case, the vehicle shall stop immediately and the RCM function shall be deactivated.

Renumber paragraphs 5.6.5.13.6. to 5.6.5.13.7. as 5.7.1.17. to 5.7.1.18. respectively.

Renumber paragraph 5.6.5.13.8. to 5.7.1.19. and amend, to read:

5.**7.16.~~5~~**.19~~3.8~~.   If the vehicle reaches or exceeds the maximum total distance travelled defined in paragraph 5.**7.16.~~5~~**.17~~3.6~~., the vehicle shall stop immediately and the RCM function shall be deactivated. It shall not be possible to subsequently activate the RCM until a time period of at least 1 minute has elapsed. This shall be indicated to the driver at least at the remote control device.

Insert a new paragraph 5.7.1.20., to read:

5.7.1.20.   The manufacturer shall provide the Technical Service with documentation and supporting evidence to demonstrate compliance with the provisions of paragraphs 5.7.1.12., 5.7.1.13., and 5.7.1.16. This information shall be subject to discussion and agreement between the Technical Service and vehicle manufacturer.

II.   Justification

1.   Renumbering of paragraph 2.3.4.18. addresses an error in the formal document submission.

2.   After discussion with interested parties, it is proposed to first introduce regulation for RCM of M_1 and N_1 vehicles. Further work is required to understand the existing systems and use cases prior to regulating heavier vehicle classes, which is proposed to be done as part of a 2nd step review.

3.   The requirements are proposed here with a modification to the numbering to ensure a clear distinction between ACSF and RCM, as it could previously be misinterpreted that RCM is a form of ACSF.

4.   As an electronically controlled function, it is necessary that any RCM is subject to the requirements of the Electronics Annex (Annex 6 to Regulation 79).