**Proposal for amendment of R48**

**(electrical connection requirements of headlamps and DRLs)**

**Note**: Modifications to the text are marked in **bold characters for new** or ~~strikethrough for deleted text.~~

**I. Proposal**

*Paragraph 6.2.7.5., should be deleted*

~~6.2.7.5.~~ ~~Dipped-beam headlamps may be switched ON or OFF automatically. However, it shall be always possible to switch these dipped-beam headlamps ON and OFF manually.~~

*Paragraphs 6.2.7.6. (former) to 6.2.7.7., renumber as paragraphs 6.2.7.5. to 6.2.7.6.*

*Paragraph 6.2.7.5.,* amend to read:

6.2.7.5. The dipped-beam headlamps shall be switched ON and OFF automatically relative to the ambient light conditions (e.g. switch ON during night-time driving conditions, tunnels, etc.) according to the requirements of Annex 13.

**6.2.7.5.1.** **It may be possible to switch the dipped-beam headlamps OFF manually only when the lamps of paragraph 5.11 are ON and at least one of the following requirements is met:**

**(a) The vehicle speed does not exceed 10 km/h provided they switch ON automatically when the vehicle speed exceeds 10 km/h or when the vehicle has travelled more than 100 m and they remain ON until deliberately switched off again.**

**(b)　The front fog lamps are switched ON.**

**6.2.7.5.2. It shall always be possible to switch the dipped beam headlamps ON manually.**

6.2.7.6. Without prejudice to paragraph 6.2.7.**5**~~6.1~~., the dipped-beam headlamps may switch ON and OFF automatically relative to other factors such as time or ambient conditions (e.g. time of the day, vehicle location, rain, fog, etc.)

*Paragraph 6.19.7.,* amend to read:

6.19.7. Electrical connections

6.19.7.1. The daytime running lamps shall be switched ON automatically when the device which starts and/or stops the engine (propulsion system) is set in a position which makes it possible for the engine (propulsion system) to operate. However, the daytime running lamps may remain OFF while the following conditions exist:

6.19.7.1.1. The automatic transmission control is in the park position; or

6.19.7.1.2. The parking brake is in the applied position; or

6.19.7.1.3. Prior to the vehicle being set in motion for the first time after each manual activation of the propulsion system.

6.19.7.2. The daytime running lamps may be switched OFF manually when the vehicle speed does not exceed 10 km/h provided they switch ON automatically when the vehicle speed exceeds 10 km/h or when the vehicle has travelled more than 100 m and they remain ON until deliberately switched off again.

6.19.7.3. The daytime running lamp shall switch OFF automatically when the device which starts and/or stops the engine (propulsion system) is set in a position which makes it impossible for the engine (propulsion system) to operate or the front fog lamps or headlamps are switched ON, except when the latter are used to give intermittent luminous warnings at short intervals.

6.19.7.4. The lamps referred to in paragraph 5.11. may be switched ON when the daytime running lamps are switched ON.

6.19.7.5. If the distance between the front direction-indicator lamp and the daytime running lamp is equal or less than 40 mm, the electrical connections of the daytime running lamp on the relevant side of the vehicle may be such that either:

(a) It is switched OFF; or

(b) Its luminous intensity is reduced during the entire period (both ON and OFF cycle) of activation of a front direction-indicator lamp.

6.19.7.6. If a direction-indicator lamp is reciprocally incorporated with a daytime running lamp, the electrical connections of the daytime running lamp on the relevant side of the vehicle shall be such that the daytime running lamp is switched OFF during the entire period (both ON and OFF cycle) of activation of the direction-indicator lamp.

**6.19.7.7. Except as specified in paragraph 6.19.7.1. to 6.19.7.6., the daytime running lamps shall not be switched OFF.**

**II. Justification**

1. While an appropriate use of daytime running lamps and headlamps contributes to traffic safety, some of these electrical connections requirements regarding manual and automatic switching are unclear so that the following clarifications should be made based on the provisions of 06 series of amendment of UN-Regulation 48.

2. This proposal clarifies that the drivers cannot switch OFF the dipped-beam headlamps manually when they are switched ON automatically according to paragraph 6.2.7.5., except in the case specified in paragraph 6.2.7.5.1. Manual switching OFF of the headlamps at night conditions should not be allowed at principle from the point of view of safety. Hence, if there are some situations or conditions where drivers inevitably need to switch OFF the headlamps for any rational reason, these situation or conditions should be limitedly and concretely specified as the "exception" to the automatic activation of headlamps.

3. This proposal clarifies that daytime running lamps shall not be switched OFF except as specified in paragraphs 6.19.7.1. to 6.19.7.6. For example, DRLs shall not be switched OFF when only the position lamps are ON.