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Economic Commission for Europe**Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on Lighting and Light-Signalling****Seventy-fourth session**

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Item 4 of the provisional agenda

Simplification of lighting and light-signalling Regulations**Proposal for Supplement 45 to the 03 series of amendments
to Regulation No. 37 (Filament lamps)****Submitted by the Informal Working Group "Simplification of the
Lighting and Light-Signalling Regulations"***

The text reproduced below was prepared by the experts from the Informal Working Group "Simplification of the Lighting and Light-Signalling Regulations" (IWG SLR) to simplify the content and amendment process of the light source Regulations. The modifications to the existing text of the 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 2012–2016 (ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Proposal

Paragraph 2.2.2., amend to read:

"2.2.2.2. A brief technical description; **this shall include the shape of the filament if the relevant light source sheet specifies that a straight or V-shaped filament is allowed;**"

Insert a new paragraph 3.1.11., to read:

"3.1.11. Lamp unit: device, using a light source and designed to either illuminate the road, to illuminate the rear registration plate or to emit a light signal to other road users."

Paragraph 3.2.3., amend to read:

"3.2.3. The filament(s) ~~as specified in the data sheet of the relevant category in Annex 1~~ shall be the only element(s) of the filament lamp that generate and emit light when energised."

Paragraph 3.6.2., amend to read:

"3.6.2. The definitions of the colour of the light emitted, given in Regulation No. 48 [~~Part B~~] and its series of amendments in force at the time of application for type approval, shall apply to this Regulation."

Paragraph 3.7., amend to read:

"3.7. UV radiation

The UV radiation of a halogen **filament** lamp shall be such that:"

Paragraph 3.9., amend to read:

"3.9. Check on optical quality

(Applies only to filament lamps ~~of categories R2, H4 and HS1~~ **with an internal shield to produce the cut-off**).

3.9.1."

Paragraph 8.3., amend to read:

"8.3. As from the ~~date period after the entry into force of the Supplements to the 03 series of amendments~~, as indicated for each category in the table for group 3 in Annex 1, no filament lamps of these categories or of the types within these categories shall be used in lamps **units** submitted for type approval, **unless the applicant for type approval of the lamp unit declares that these lamp units are intended as replacement parts for installation on vehicles in use only; this shall be noted in the communication form of the lamp unit.**"

Paragraph 8.4., delete.

Annex 1, replace by a new Annex 1 to read:

"Annex 1

Sheets* for filament lamps

The sheets of the relevant filament lamp category and the group in which this category is listed with restrictions on the use of this category shall apply as incorporated in the Resolution [No. y] or its subsequent revisions, applicable at the time of application for type approval of the filament lamp.

* From [date] onwards, the sheets for filament lamps, the list and groups of filament lamp categories with their restrictions on the use and their sheet numbers are incorporated in the Resolution [No. y] with symbol ECE/TRANS/WP.29/11XX."

Annex 5,

Paragraph 1.3., amend to read:

"1.3. Tests shall be made at test voltage(s) as specified in the relevant **filament** lamp data sheet."

Paragraph 2.3.1., amend to read:

"2.3.1. Initially, the receiver shall be positioned perpendicular to the **filament** lamp axis and ..."

Paragraph 2.3.2., amend to read:

"2.3.2. For filament lamps used in headlamps, measurements shall be made in directions around the filament lamp with the centreline of the receiver aperture located within an angle $\pm 30^\circ$, from the plane perpendicular to the **filament** lamp axis with the origin in the centre of the filament. In case of filament lamps with two filaments, the centre of the driving beam filament shall be taken."

Paragraph 2.4., delete.

Annex 7,

Table 1 and its notes, amend to read:

"Table 1

Characteristics

<i>Grouping of characteristics</i>	<i>Grouping*of test records between filament lamp types</i>	<i>Minimum 12 monthly sample per grouping*</i>	<i>Acceptable level of non-compliance per grouping of characteristics (percentage)</i>
Marking, legibility and durability	All types with the same external dimensions	315	1
Bulb quality	All types with the same bulb	315	1
Colour of the bulb	All types (emitting red and amber light) of the same category and colour technology	20	1
External filament lamp dimensions (excluding cap/base)	All types of the same category	200	1

<i>Grouping of characteristics</i>	<i>Grouping*of test records between filament lamp types</i>	<i>Minimum 12 monthly sample per grouping*</i>	<i>Acceptable level of non-compliance per grouping of characteristics (percentage)</i>
Dimensions of caps and bases	All types of the same category	200	6.5
Dimensions related to internal elements**	All filament lamps of one type	200	6.5
Initial readings, watts and lumens**	All filament lamps of one type	200	1
Colour endurance test	All filament lamps (emitting red, amber and white light) of one colour coating technology	20***	1

* The assessment shall in general cover series production filament lamps from individual factories. A manufacturer may group together records concerning the same type from several factories, provided these operate under the same quality system and quality management.

** In case a filament lamp has more than one inner element (filament, shield) the grouping of characteristics (dimensions, watts, lumens) applies to each element separately.

*** Representative distribution over categories of **filament** lamps using the same colour coating technology and finishing, and that comprises **filament** lamps of the smallest and the largest diameter of the outer bulb, each at the highest rated wattage."

Table 3, header row, amend to read:

"

<i>Number of filament lamps in records</i>	<i>Qualifying limit</i>	<i>Number of filament lamps in records</i>	<i>Qualifying limit</i>	<i>Number of filament lamps in records</i>	<i>Qualifying limit</i>
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II. Justification

This amendment is part of the proposal for simplification of the light source Regulations.