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Collective amendments - UN Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119

Proposal for Collective amendments to Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119

Submitted by the expert from Germany*

The text reproduced below was prepared by the expert from Germany in order to insert provisions for the use of incandescent light sources in the case of light source modules and lamps with non-replaceable light sources. It is based on ECE/TRANS/WP.29/GRE/2008/03. 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 2010–2014 (ECE/TRANS/208, para. 106, ECE/TRANS/2010/8, 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.

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I. Proposal

A1. Proposal for Supplement 16 to the original series of amendments to Regulation No. 4

Paragraph 2. at the end, amend to read:

"....

- (c) two samples, equipped with the lamp or lamps recommended;
- (d) **in the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 5.7 of this Regulation. "**

Insert a new paragraph 5.7., to read:

- "5.7. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2. "**

Insert a new paragraph 10.5, to read:

- "10.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."**

Annex 6, insert a new paragraph 1.2.4., to read:

- "1.2.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3 of Publication IEC 60809, Amendment [6] to Edition 2."**

A2. Proposal for Supplement 23 to the 01 series of amendments to Regulation No. 6

Insert a new paragraph 2.2.6., to read:

- "2.2.6. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 5.6 of this Regulation."**

Insert a new paragraph 5.6., to read:

- "5.6. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2."**

Insert a new paragraph 10.5, to read:

- "10.4. The authority which has granted type approval may at any time verify the conformity control methods applied in each production facility.**

- 10.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2.**

The normal frequency of these verifications shall be once every two years."

Annex 5, insert a new paragraph 1.4., to read:

- "1.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2"**

A3. Proposal for Supplement 21 to the 02 series of amendments to Regulation No. 7

Insert a new paragraph 2.2.6., to read:

- "2.2.6. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s); the documents according to paragraph 5.11 of this Regulation."**

Insert a new paragraph 5.11., to read:

- "5.11. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2. "**

Insert a new paragraph 9.5, amend to read:

- "9.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with**

colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2.”

Annex 5, insert a new paragraph 1.4., to read:

"1.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2"

A4. Proposal for Supplement 19 to the original series of amendments to Regulation No. 23

Insert a new paragraph 2.2.4., to read:

"2.2.4. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 5.5 of this Regulation."

Insert a new paragraph 5.5., to read:

"5.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2."

Insert a new paragraph 9.5, amend to read:

"9.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

Annex 4, insert a new paragraph 1.4., to read:

"1.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

A5. Proposal for Supplement 16 to the original series of amendments to Regulation No. 38

Insert a new paragraph 2.2.4., to read:

"2.2.4. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 5.6 of this Regulation."

Insert a new paragraph 5.6., to read:

"5.6. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2."

Insert a new paragraph 10.5, to read:

"10.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

Annex 4, insert a new paragraph 1.4., to read:

"1.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

A6. Proposal for Supplement 16 to the original series of amendments to Regulation No. 50

Insert a new paragraph 3.2.4., to read:

"3.2.4. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 6.6 of this Regulation."

Insert a new paragraph 6.6., to read:

"6.6. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2."

Paragraph 10., amend to read:

"10. CONFORMITY OF PRODUCTION

10.1. Every device bearing an approval mark as prescribed under this Regulation shall conform to the type approved and shall comply with the requirements of this Regulation. However, in the case of a device picked at random from series

production, the requirements as to the respectively minimum and maximum intensities of the light emitted (measured with a standard filament lamp as referred to in paragraph 8 above) shall be at least 80 per cent of the minimum values specified and not exceed 120 per cent of the maximum values allowed.

- 10.2. **In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, ~~compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked~~ a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."**

A7. Proposal for Supplement 15 to the original series of amendments to Regulation No. 77

Insert a new paragraph 3.2.4., to read:

- "3.2.4. **In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 6.5 of this Regulation."**

Insert a new paragraph 6.5., to read:

- "6.5. **In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2."**

Insert a new paragraph 12.5, to read:

- "12.5. **In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."**

Annex 5, insert a new paragraph 1.4., to read:

- "1.4. **In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."**

A8. Proposal for Supplement 16 to the original series of amendments to Regulation No. 87

Insert a new paragraph 3.2.4., to read:

"3.2.4. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 6.6 of this Regulation."

Insert a new paragraph 6.6., to read:

"6.6. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2."

Insert a new paragraph 13.5, to read:

"13.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

Annex 5, insert a new paragraph 1.4., to read:

"1.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

A9. Proposal for Supplement 14 to the original series of amendments to Regulation No. 91

Insert a new paragraph 3.2.4., to read:

"3.2.4. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 6.5 of this Regulation."

Insert a new paragraph 6.5., to read:

"6.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2."

Insert a new paragraph 11.5, to read:

"11.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

Annex 5, insert a new paragraph 1.4., to read:

"1.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

A10. Proposal for Supplement 2 to the 01 series of amendments to Regulation No. 119

Insert a new paragraph 2.2.4., to read:

"2.2.4. In the case of a non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s): the documents according to paragraph 5.5 of this Regulation."

Insert a new paragraph 5.5., to read:

"5.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamp(s), the applicant shall demonstrate, with a test report or other means acceptable to the Authority responsible for type approval, compliance with the requirements as specified in paragraphs 2.11 and its subparagraphs of Publication IEC 60809, Amendment [6] to Edition 2."

Insert a new paragraph 9.5, to read:

"9.5. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, a test report or other means acceptable to the Authority which has granted the type approval, shall demonstrate compliance with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

Annex 5, insert a new paragraph 1.4., to read:

"1.4. In the case of non-replaceable filament lamp(s) or light source module(s) equipped with non-replaceable filament lamps, compliance, as specified in paragraph 4 of Publication IEC 60809, Amendment [6] to Edition 2, shall be checked with lifetime requirements as specified in paragraph 2.11.2 and, in the case of colour coated filament lamps, with colour endurance requirements, as specified in paragraph 2.11.3. of Publication IEC 60809, Amendment [6] to Edition 2."

II. Justification

1. This proposal for collective amendments on the basis of ECE/TRANS/WP.29/GRE/2008/03 intends to introduce requirements regarding the use of non-replaceable filament lamps in light source modules and signalling lamps.
 2. The reason for this is the risk of using low quality filament lamps:
 - (a) Filament lamps can have a relatively short lifetime;
 - (b) Requirements concerning the light source quality are missing, like for lumen and colour maintenance, colour endurance, and resistance against vibration and shock.
 3. Therefore, disadvantages may be noted for road safety and consumers, which could be avoided by replaceable solutions or by introducing appropriate requirements to non-replaceable solutions.
 4. The proposal is consisting of three parts:
 - (a) A requirement in the signal lamp regulations that a test report concerning non-replaceable filament lamps must be provided, and a reference to:
 - (b) IEC60809, where new requirements to non-replaceable filament lamps were inserted in one new paragraph. References are made to:
 - (c) IEC60810, for existing and well known test methods. Duplication into IEC60809 was avoided this way. IEC60810 is usually only for voluntary tests, but a reference to the test method only and not to requirements was considered acceptable.
 5. The corresponding proposal to amend IEC60809 and IEC60810 is published as informal document GRE-67-02.
 6. This proposal was produced in close cooperation with European light source manufacturers.
 7. The conformity of production requirements belong in UN Regulations and not in the IEC standard. Those were moved in this revision.
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