Proposal for amendments to Regulations Nos. 19, 48 and 98.

Submitted by the expert from Germany

The text reproduced below was prepared by the expert from Germany, with the support from the expert from the Netherlands.

The present proposal is intended to clarify the provisions regarding the deletion of distributed lighting systems (DLS), or rather light generators, from the Regulations No.: 19, 48 and 98, because the provisions for the DLS systems are incomplete. The necessary completion of this deletion has never been finalized and in the meantime there is no interest anymore in such systems. The modifications to the existing text are marked in bold for new or strikethrough for deleted characters.

I. Proposal

A1. Proposal for Supplement 02 to the 04 series of amendments to Regulation No. 19

(The following text is based upon Rev 6 up to and including supplement 02.)

Contents, annexes, amend to read:

"12 Requirements in case of use of LED module(s) or for the use of light source module (s) for a **DLS**."

Introduction, amend to read:

"**…**

(b) Light sources can be selected according to the provisions of Regulation No. 37 (Incandescent filament light sources) and Regulation No. 99 (gas discharge light sources). Light emitting diode (LED) modules and distributed lighting systems may also be used.

...."

Paragraph 1.4.3, amend to read:

"1.4.3. The characteristics of the optical system; (basic optical design, type / category of light source, LED module, DLS etc.),"

Paragraph 1.4.5, amend to read:

"1.4.5. The category of filament lamp(s)used, as listed in Regulation No. 37, Regulation No. 99 and/or the LED module or light generator specific identification code(s) (if applicable)."

Paragraph 2.4.2, amend to read:

"2.4.2. In the case of LED module(s) or a light generator, the specific identification code of the module shall be stated. The drawing shall contain sufficient details to identify it and the position intended for the specific identification code and the trademark of the applicant."

Paragraphs 2.4.4, amend to read:

"2.4.4. If the front fog lamp is fitted with LED module(s) or a distributed lighting system, a brief technical specification shall be provided. This information shall include the part number assigned by the light source manufacturer, a drawing with dimensions and the basic electrical and photometric values, an indication whether the light source complies with the UV-radiation requirements of paragraph 4.6. of Annex 12 of this Regulation, an official test report related to paragraph 5.9. of this Regulation and the objective luminous flux."

Paragraph 2.4.5, to be deleted.

(2.4.5. In the case that a distributed lighting system is used, which part(s) is (are) to be intended to provide the front fog beam by this system. In addition, a brief technical specification includes the list of the lightguide(s) and related optical components and information describing the light-generator(s) sufficient to permit identification. This information shall include the part number assigned by the light-generator manufacturer, a drawing with dimensions and the basic electrical and photometric values and an official test report related to paragraph 5.9. of this Regulation.)

Paragraphs 2.4.6 up to 2.4.11, renumber as 2.4.5 uo to 2.4.10.

Paragraph 2.4.6 and subparagraphs, amend to read:

- "2.4.6. In the case where a gas discharge light source is used **and the ballast is not** integrated with the light source, one ballast, which may be totally or partly integrated in the front fog lamp.
- 2.4.6.1. and the ballast is not integrated with the light source, one ballast, which may be totally or partly integrated in the front fog lamp.
- 2.4.6.2. For approval of a distributed lighting system using a non-replaceable gas-discharge light source not approved under Regulation No. 99, two samples of the system including the light-generator and one ballast of each type to be used, where applicable."

Paragraph 2.4.7, amend to read:

"2.4.7. In the case of LED module(s) or a distributed lighting system and if no provisions are taken to shield the relevant front fog lamp or distributed lighting system components made of plastic material from UV-radiation of (gas-discharge) light sources, e.g. by UV-retaining glass filters:

One sample of each of the relevant materials. This shall have similar geometry to that of the front fog lamp **or distributed lighting system** being tested. Each material sample shall have the same appearance and surface treatment, if any, as intended for use in the front fog lamp to be approved."

Paragraph 2.4.8, amend to read:

"2.4.8. In the case of an approval of a front fog lamp according to paragraph 2.4.8. and/or according to paragraph 5.9. containing plastic lenses and/or having inner optical parts made from plastic, which have already been tested:

The materials making up the lenses, coatings or optical inner parts, if any, shall be accompanied by the test report(s) on material testing against UV-radiation."

Paragraph 3.1, amend to read:

- "3.1. The samples of a type of front fog lamp **or distributed lighting system** which are submitted for approval shall clearly, legibly and indelibly bear:
 - (a) The trade name or mark of the applicant,
 - (b) Marking indicating the class of the front fog lamp,

and in case of Class F3 front fog lamps:

(c) The LED module or light generator specific identification code, if any."

Paragraph 3.3, amend to read:

"3.3.	The approval marking shall be placed on an inner or outer part (transparent or not) of the device which can not be separated from the transparent part of the device emitting light; in the case of a distributed lighting system with outer lens built in the light-guide, this condition is deemed satisfied if the approval marking is placed at least on the light-generator and on the light-guide or on its protective shield. In any case the marking shall be visible when the device is fitted on the vehicle, at least when a movable part such as the hood or boot lid or a door is opened."							
Paragraph 3	.4, amend to read:							
"3.4.	In case of Class F3 front fog lamps with LED module(s) the lamp shall bear the marking of the rated voltage, rated wattage and the light source module specific identification code."							
3.4.1.	In case of a distributed lighting system, the light-generator(s) shall bear the marking of the rated voltage and wattage and in the case that the electronic control gear is not part of the device the light-generator(s) shall bear the trade name or mark of its manufacturer and the part number.							
3.4.2.	In case of lamps with LED module(s) the lamp shall bear the marking of the rated voltage, rated wattage and the light source module specific identification code."							
Paragraph 5	<i>.7 to 5.9</i> , amend to read:							
"5.7.	In the case of Class F3, the light sources shall be:							
5.7.1.	One or more replaceable light sources approved according to Regulation No. 37 or Regulation No. 99 and their associated series of amendments in force at the time of application for type approval.							
5.7.2.	And/or, one or more LED modules where the requirements of Annex 12 to this Regulation shall apply. The compliance with the requirements shall be tested.							
5.7.3.	And/or light generators where the requirements of Annex 12 to this Regulation shall apply. The compliance with the requirements shall be tested.							
5.8.	Even if these light sources cannot be replaced they shall comply with the requirements of Annex 12 to this Regulation, the requirements shall be tested.							
5.9.	In the case of LED module or light generator it shall be checked, that:							
5.9.1.	The design of the LED module(s) or light generator (s) shall be such that they can be fitted in no position other than the correct one.							
5.9.2.	Non-identical light source modules, if any, shall be non-interchangeable within the same lamp housing.							
5.9.3.	The LED module(s) or light generator(s) shall be tamperproof."							

Annex 1

Item 10.4, to be deleted. (10.4. Light generator: yes/no²)

Items 10.5 up to 10.10, renumber as items 10.4 up to 10.9.

Item 10.5, amend to read: "10.5. LED module **or light generator** specific identification code:"

Annex 12

The title, amend to read:

"Requirements in case of use of LED module(s) or of light generators"

Paragraphs 1.1, 1.2 and 1.3, amend to read:

- "1.1. Each LED module or light-generator sample submitted shall conform to the relevant specifications of this Regulation when tested with the electronic light source control-gear(s) supplied, if any.
- 1.2. LED modules or **light-generators** shall be so designed as to be, and to remain in good working order when in normal use. They shall moreover exhibit no fault in design or manufacture.
- 1.3. LED modules or **light-generators** shall be tamperproof."

Paragraph 2.2 and subparagraphs, amend to read:

- "2.2. In case of LED modules or light-generator(s):
- 2.2.1. The LED(s) on the LED module shall be equipped with suitable fixation elements.
- 2.2.2. The fixation elements shall be strong and firmly secured to the light source(s) and the LED module.
- 2.2.3. The light source in the light generator shall be equipped with suitable fixation elements.
- 2.2.4. The fixation elements shall be strong and firmly secured to the light source(s) and the light generator."

Paragraph 3.1.3 and subparagraphs, amend to read:

"3.1.3. **LED module operating conditions**

LED module or light-generator operating conditions:

- 3.1.3.1. All samples shall be tested under the conditions as specified in paragraph 6.4.1.4. of this Regulation.
- 3.1.3.2. If not specified differently in this annex, LED modules **or light-generators** shall be tested inside the front fog lamp as submitted by the manufacturer."

Paragraph 3.1.5, to be deleted.

(5.1.5.	In case of light-generators.							
3.1.5.1.	- Power supply							
	The power supply used for the starting and run-up tests shall be sufficient to secure the quick rise of the high current pulse.							
3.1.5.2.	Burning position							
	The burning position shall be as indicated by the applicant. Ageing and testing positions shall be identical. If the lamp is accidentally operated in the wrong direction, it shall be re-aged before measurements begin. During ageing and measurements no electrically conducting objects shall be allowed within a space as indicated by the applicant. Moreover stray magnetic fields shall be avoided.							
Paragraphs	3.2.1 and 3.2.2, amend to read:							
"3.2.1.	LED modules or light-generators shall be aged.							
3.2.2.	The tests below shall be carried out after ageing with the LED module(s) or light-generator (s) supplied by the submitted electronic light source control-gear at test voltage."							
Paragraph 4	4.5.1, amend to read:							
"4.5.1.	Red content							
	In addition to measurements as described in paragraph 7. of part A or B to this Regulation, the minimum red content of the light of a LED module or light-generator shall be such that:							
"								
Paragraph 4	4.6, amend to read:							
"4.6.	UV-radiation							
	The UV-radiation of the LED module or light-generator shall be such that:							
"								
Paragraphs "3.2.1. 3.2.2. Paragraph 4 "4.5.1. " Paragraph 4 "4.6. "	 3.2.1 and 3.2.2, amend to read: LED modules or light-generators shall be aged. The tests below shall be carried out after ageing with the LED module(s) or light-generator(s) supplied by the submitted electronic light source control-gear at test voltage." 4.5.1, amend to read: Red content In addition to measurements as described in paragraph 7. of part A or B to this Regulation, the minimum red content of the light of a LED module or light-generator shall be such that: 4.6, amend to read: UV-radiation The UV-radiation of the LED module or light-generator shall be such that: 							

A2. Proposal for Supplement 08 to the 04 series of amendments to Regulation No. 48

(The following text is based upon 05 Series + corr.1 + Supplement 8 (04 Series))

Paragraph 2.7.1, 2.7.1.1 and the note*, amend to read:

"2.7.1. Light source <u>*/</u>

2. 7. 1. 1. "Light source" means one or more elements for visible radiation, which may be assembled with one or more transparent envelopes and with a base for mechanical and electrical connection.
 A light source may also be constituted by the extreme outlet of a light guide, as part of a distributed lighting or light signalling system not having a built-in outer lens;

*/ For clarification see Annex 10."

Annex 10, amend to read:

ANNEX 10

EXAMPLES OF LIGHT SOURCE OPTIONS

- 1. Electrical terminals terminology
- Replaceable and regulated part
 Non-replaceable part of regulated device
 Light Source Module
 Test terminal ECE Regulations
 Either: replaceable and regulated part; or: non-replaceable part of regulated device; or: Light Source Module
- 2. Traditional

Replaceable R37 Filament light source:



Submitted by the expert from Germany

Informal Document No. GRE-67-19 (Sixty-seventh GRE, 26-29 March 2012, Agenda item 15(g))

Replaceable R99 Gas-discharge light source or replaceable H9 light source:



3. Summary of configurations



Components may be "grouped, combined or reciprocally incorporated". Summary drawing

A3. Proposal for Supplement 02 to the 01 series of amendments to Regulation No. 98

(The following text is based upon draft Supplement 2 to 01 series)

Contents, annex 1, the title, amend the content to read:

Page

1 Communication concerning the approval or extension or refusal or withdrawal of approval or production definitively discontinued of a type of headlamp or of a distributed lighting system pursuant to Regulation No. 98

```
...."
```

"…

Paragraph 0, amend to read:

"0. SCOPE ^{1/}

This Regulation applies to:

```
    (a) headlamps, and
    (b) distributed lighting systems,
utilizing gas-discharge light sources, for vehicles of categories, M and N
and L<sub>3</sub>."
```

Paragraph 2.1.6, to be deleted.

(2.1.6. whether a distributed lighting system is used and which type(s) of beam(s) is (are) intended to be provided by this system;)

Paragraph 2.1.7, renumber as paragraph 2.1.6. and amend to read:

"2.1.7. the category of light source as listed in Regulations Nos. 37 or 99 and their series of amendments in force at the time of application for type approval.

For a distributed lighting system using a non-replaceable gas-discharge light source not approved under Regulation No. 99, the part number assigned by the light-generator manufacturer to the light-generator."

Paragraph 2.2.2, amend to read:

- "2.2.2. A brief technical specification including, where it applies, the make and type of the ballast(s) and, in the case where the headlamp is used to produce bend lighting, the extreme positions according to paragraph 6.2.7. below. In the case of LED module(s) this shall include:
 - (a) a brief technical specification of the LED module(s);

(b) a drawing with dimensions and the basic electrical and photometric values and the objective luminous flux.

In addition, for a distributed lighting system, a brief technical specification including the list of the light-guide(s) and related optical components and information describing the light-generator(s) sufficient to permit identification. This information shall include the part number assigned by the light-generator manufacturer, a drawing with dimensions and the basic electrical and photometric values and an official test report related to paragraph 5.8. of this Regulation."

Paragraph 2.2.3.1, amend to read:

"2.2.3.1. for approval of a headlamp, two samples of each type of headlamp, one sample intended for the installation on the left side of the vehicle and one sample intended for the installation of the right side of the vehicle, with standard gas-discharge light source and one ballast of each type to be used, where applicable.

For approval of a distributed lighting system using a non-replaceable gas-discharge light source not approved under Regulation No. 99, two samples of the system including the light-generator and one ballast of each type to be used, where applicable."

Paragraph 2.3, to be deleted.

(2.3. For a distributed lighting system 10 samples of the material(s) and related protective coating/shield, if any, of which the light-guide and other optical parts of the system are made.)

Paragraph 2.4, renumber as paragraph 2.3. and amend to read:

"2.4. The materials making up the lens and, in the case of a distributed lighting system, the materials making up the optical parts of the system, and related coatings/shields, if any, shall be accompanied by the test report of the characteristics of these materials and coatings if they have already been tested."

Paragraph 3.1, amend to read:

"3.1. Headlamps **or distributed lighting systems** submitted for approval shall bear legibly and indelibly the trade name or mark of the applicant."

Paragraph 3.5, to be deleted.

- (3.5. In the case of a light-generator of a distributed lighting system using a non-replaceable gas-discharge light source not approved under Regulation No. 99, the light-generator shall bear the trade name or mark of its manufacturer and the part number referred to in paragraph 2.2.2. above.)
- *Paragraphs 3.6, 3.7 and subparagraphs,* renumber to paragraphs3.5, 3.6 and subparagraphs.

Paragraph 4.2.2.8, to be deleted.

(4.2.2.8. on distributed lighting systems, the letters "DLS" shall replace the letter "D" required in paragraphs 4.2.2.3., 4.2.2.4. and 4.2.2.5. applying the same criteria.)

Paragraph 4.2.5, amend to read:

"4.2.5. The marks and symbols referred to in paragraphs 4.2.1. to 4.2.3. above shall be clearly legible and be indelible. They may be placed on an inner or outer part (transparent or not) of the headlamp, which cannot be separated from the transparent part of the headlamp emitting the light. In the case of a distributed lighting system with outer lens built in the light-guide, this condition is deemed satisfied if the approval marking is placed at least on the light-generator and on the light-guide, or on its protective shield. In any case the marking shall be visible when the headlamp or the system is fitted on the vehicle or when a movable part such as the hood is opened."

Paragraph 4.3.2.2.2, amend to read:

"4.3.2.2.2. or in a group, in such a way that each of the grouped, combined or reciprocally incorporated lamps may be clearly identified (see **four** possible examples in Annex 2, **Figures 10, 11, 12**)."

Paragraph 4.3.2.5, amend to read:

"4.3.2.5. Annex 2, **Figures 10, 11, 12** of this Regulation gives examples of arrangements of approval marks for grouped, combined or reciprocally incorporated lamps with all the above-mentioned additional symbols."

Paragraph 4.3.3.1, amend to read:

"4.3.3.1. In addition, where the same lens is used, the latter may bear the different approval marks relating to the different types of headlamps or units of lamps, provided that the main body or distributed lighting system of the headlamp, even if they cannot be separated from the lens, also comprises the space described in paragraph 3.2. above, and bears the approval mark of the actual functions."

Paragraph 4.3.3.2, amend to read:

"4.3.3.2. Annex 2, **Figure 10**, to this Regulation gives examples of arrangements of approval marks relating to the above case."

Paragraph 4.3.4, to be deleted.

(4.3.4. Distributed lighting systems

For distributed lighting systems the applicable provisions of paragraphs 4.3.1. to 4.3.3.2. shall be complied with, in conjunction with the requirements of paragraph 3.4.) Paragraph 5.8 including subparagraphs, amend to read:

"5.8. Light sources

- 5.8.1. The gas-discharge light source(s) used in gas-discharge headlamps or in distributed lighting systems shall be replaceable and approved according to Regulation No. 99 and its series of amendments in force at the time of application for type approval. However, gas-discharge light source(s) not approved according to Regulation No. 99 can be used only in the case where they are a non-replaceable part of a light-generator. However, in the case of distributed lighting systems the light-generator can be replaceable without using special tools also in the case where the light-source used in it is not approved.
- 5.8.2. In the case that one or more (additional) filament light sources are used in the gas-discharge headlamp, these filament light sources shall be **replaceable and** approved according to Regulation No. 37 and its series of amendments in force at the time of application for type approval, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.
- 5.8.3. The design of the device shall be such that the **filament lamp, if any, the light source(s)** can be fixed in no other position but the correct one.
- 5.8.4. In the case of replaceable gas-discharge light sources and in the case of additional filament light sources. The lamp holder shall conform to the dimensional characteristics as given on the data sheet of IEC Publication 60061, relevant to the category of light source(s) used. The light source(s) shall fit easily into the headlamp."

Paragraph 5.9 and subparagraphs, to be deleted.

- (5.9. Non-replaceable gas-discharge light sources not approved under Regulation No. 99 used in distributed lighting systems shall moreover comply with the following requirements (corresponding to those specified in Regulation No. 99 for approval of gas-discharge light sources):
- 5.9.1. starting, run-up and hot-restrike as prescribed in paragraph 3.6. of Regulation No. 99;
- 5.9.2. colour as prescribed in paragraph 3.9. of Regulation No. 99. The colour shall be white;
- 5.9.3. UV-radiation as prescribed in paragraph 3.10. of Regulation No. 99, if so indicated in the application for approval (paragraph 2.2.2. above).

Paragraphs 5.10 up to 5.13, renumber as paragraphs 5.9 up to 5.12.

Paragraph 6.6.1, amend to read:

Informal Document No. **GRE-67-19** (Sixty-seventh GRE, 26–29 March 2012, Agenda item 15(g))

"6.1.1. Headlamps or distributed lighting systems shall be so made that with suitable gas-discharge light source they give adequate illuminance without dazzle when emitting the passing-beam, and good illumination when emitting the driving-beam."

Paragraph 6.1.3, amend to read:

"6.1.3. The headlamp or distributed lighting systems shall be deemed satisfactory if the photometric requirements set in the present paragraph 6. are met with one light source, which has been aged during at least 15 cycles, in accordance with Annex 4, paragraph 4. of Regulation No. 99.
 Where the gas discharge light source is approved according to Regulation No. 99 It shall be a standard (étalon) light-source approved according to Regulation No. 99.
 Bernor Bernor

The above correction does not apply to distributed lighting systems using a non-replaceable gas-discharge light source or to headlamps with the ballast(s) totally or partially integrated.

Where the gas-discharge light source is not approved according to Regulation No. 99 it shall be a production non-replaceable light source."

Annex 1, list of items,

Line above the list, amend to read:

".....of a type of headlamp or of a distributed lighting system pursuant to Regulation No. 98....."

Item 1, amend to read:

"1.	Trade name or mark of the headlamp or distributed lighting system:	······ '
-----	--	----------

Item 2, amend to read:

"

Item 9.9 and 9.10, renumber as items 9.8 and 9.9.

Submitted by the expert from Germany

Informal Document No. **GRE-67-19** (Sixty-seventh GRE, 26–29 March 2012, Agenda item 15(g))

-										
<i>Note 3,</i> to be deleted. (<u>3</u> / Indicate the appropriate marking selected from the list below:										
DC, DC,	DC/, DCR,	DC/PL, DC/R,	DR, DC/,	DCR, DC PL,	DC/R, DCR PL,	DC PL, DC/R PL,	DR PL, DC/PL,	DCR PL,	DC/R PL,	
DC,	$\overrightarrow{\text{DCR}}$,	→ DC/R,	→ ĐC/,	$\overrightarrow{\text{DC-PL}}$,	→ DCR PL,	→ DC/R PL,	→			
$\xrightarrow{\text{DLSC},}$	↔ DLSC/, DLSCB	↔ DLSC/PL, DLSC/R	↔ DLSR, DLSC/	←→ DLSCR, DLSC PL	← → DLSC/R, DLSCR PL	← → DLSC PL, DLSC/R PL	← → → DLSR PL, DLSC/PL	DLSCR PL	, DLSC/R PL,	
$\xrightarrow{\text{DLSC}}$	$\xrightarrow{\text{DLSCR},}$	$\xrightarrow{\text{DLSC/R}}$	$\xrightarrow{\text{DLSC/,}}$	$\xrightarrow{\text{DLSC PL}}$	$\xrightarrow{\text{DLSCR PL}}$	$\xrightarrow{\text{DLSC/R PL},}$	$\xrightarrow{\text{DLSC/PL}}$			
	\longleftrightarrow	\longleftrightarrow	\longleftrightarrow	\longleftrightarrow	\longrightarrow	$\rightarrow \rightarrow$	\longrightarrow			

Note 4, to be deleted.

(<u>4</u>/ In the case of a DLS using a non-replaceable gas-discharge light source not approved under Regulation No. 99 shall be indicated the part number assigned by the light-generator manufacturer to the light-generator.)

Annex 2

Figure 10 including the explanatory text, to be deleted.

(



Figure 10

The approval marking shown above identifies a distributed lighting system using a gas-discharge light source and meeting the requirements of this Regulation with respect to both the passing beam and the driving beam for both traffic systems.)

Figures 11, 12 and 13, renumber as figures 10, 11 and 12.

Annex 4

Test on complete headlamps, amend to read:

"....

(b) in case of **replaceable** light sources: using mass production filament light sources,...."

Paragraph 1.1.1.2, amend to read:

"1.1.1.2. Test voltage

The voltage shall be applied to the terminals of the test sample as follows:

- (a) In case of replaceable filament light source(s) operated directly under vehicle voltage system conditions: the test shall be performed at 6.3 V, 13.2 V or 28.0 V as applicable except if the applicant specifies that the test sample may be used at a different voltage. In this case, the test shall be carried out with the filament light source operated at the highest voltage that can be used.
- (b) In case of **replaceable** gas discharge light source(s): The test voltage for the electronic light source control-gear is 13. 2 ± 0.1 volts for 12 V vehicle voltage system, or otherwise specified in the application for approval.
- (c) In the case of non-replaceable light source operated directly under vehicle voltage system conditions: All measurements on lighting units equipped with non-replaceable light sources (filament light sources and/ or others) shall be made at 6.3 V, 13.2 V or 28.0 V or at other voltages according to the vehicle voltage system as specified by the applicant respectively.
- (c) In the case of light sources, replaceable or non-replaceable, being operated independently from vehicle supply voltage and fully controlled by the system, or, in the case of light sources supplied by a supply and operating device, the test voltages as specified above shall be applied to the input terminals of that device. The test laboratory may require from the manufacturer the supply and operating device or a special power supply needed to supply the light source(s).
- (d) LED module(s) shall be measured at 6.75 V, 13.2 V or 28.0 V respectively, if not otherwise specified within this Regulation. LED module(s) operated by an electronic light source control gear shall be measured as specified by the applicant.
- (e) Where signalling lamps are grouped, combined or reciprocally incorporated into the test sample and operating at voltages other than the nominal rated voltages of 6 V, 12 V or 24 V respectively, the voltage shall be adjusted as declared by the manufacturer for the correct photometric functioning of that lamp."

Annex 5, paragraph 1.2, amend to read:

"1.2. The two samples of complete lamps/ systems supplied pursuant to paragraph 2. 2. 4. of this Regulation and incorporating lenses of plastic material shall, with regard to the lens material, satisfy the specifications below."

Annex 8, paragraph 1.2, amend to read:

"....either

Submitted by the expert from Germany

Informal Document No. **GRE-67-19** (Sixty-seventh GRE, 26–29 March 2012, Agenda item 15(g))

equipped with a **replaceable** standard gas-discharge light source according..."

Annex 9, paragraph 1.2, amend to read:

"....either

equipped with a removable standard gas-discharge light source according ... "

II. Justification

The present proposal is intended to clarify the provisions regarding the deletion of distributed lighting systems (DLS), or rather light generators, from the Regulations Nos.: 19, 48 and 98, because the provisions for the DLS systems are incomplete. The necessary completion of this deletion has never been finalized and in the meantime there is no interest anymore in such systems.

Furthermore the remaining fragments of requirements for DLS give the possibility of unintended interpretations. Such an interpretation was used to approve headlamps with 25W gas discharge light sources as DLS, but this should be avoided.

The modifications to the existing text are marked in bold for new or strikethrough for deleted characters.