

Simplification of Regulations

Lighting and Light Signalling Regulations including Regulation 48

Analysis and Concept

EXECUTIVE SUMMARY

Simplification of Regulations

Content

- ***Terms of reference and tasks of the informal group***
- ***Basic concept***
- ***Structure of UN-Regulation No. 48***
- ***Structure of UN-Regulations for devices***
- ***Consequences and benefits***
- ***Conclusion concept vs. terms of reference***
- ***Questions to GRE***

Simplification of Regulations

Informal group - Terms of reference (Tasks)

- Minimize the number of collective amendments in future
- Reduce the number of active (non-frozen) regulations
- Define more forceful essential requirements in performance terms

Simplification of Regulations

Informal group - Terms of reference (Goals)

- Reduce the administrative burden
 - Easy base for future amendments
- Reduce the burden for governments
 - Reduction of “Collective Amendments”
 - Significantly less complex amendments
 - Option for a reduction of Regulations (in future)
- Reduce regulatory burden for industry
 - Simple handling in application of the Regulation

Simplification of Regulations

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Simplification of Regulations

Basic concept

Major components of the concept:

- Principle Concept starting with a “Horizontal Reference Document (HRD)”;

Major components of the concept realization:

- Realization of the Principle Concept by implementation of the “HRD” as a Part II in the Regulation No. 48;
- Realization of a Principle Structure in the “Device”–Regulations in conjunction with the Part II in the Regulation No. 48;

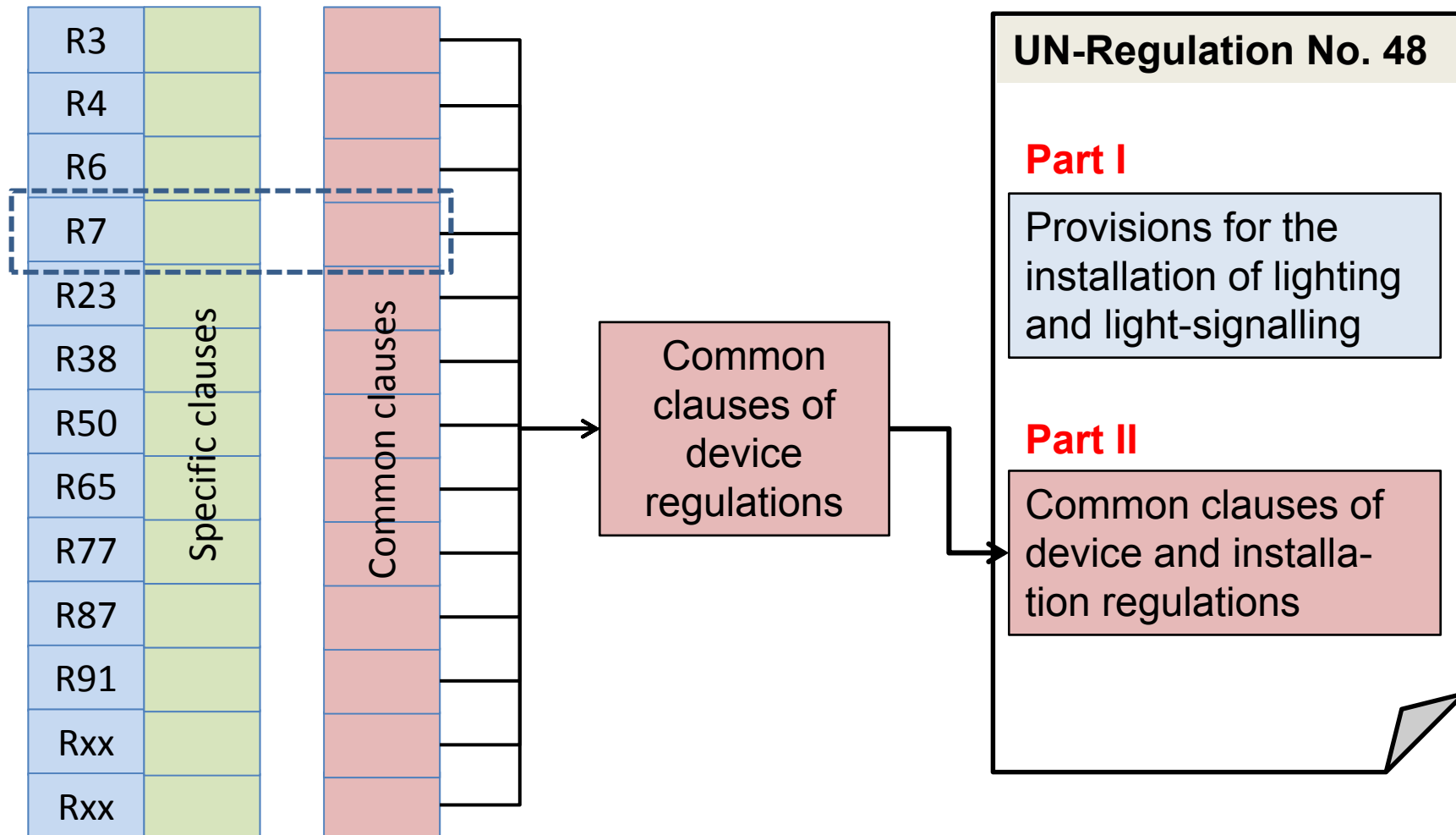
Major objectives of the concept:

- Simple concept for References;
- Uniform provisions for all devices by using same reference;
- Simple handling in application of the Regulation and the Part II of Reg. 48.

Simplification of Regulations

Basic concept

Device regulations



Simplification of Regulations

Basic concept

New basic structure of UN- “Lighting” - Regulations

- A Administrative provisions :
i.e. Definitions, Type approval, markings etc.

- B Technical requirements:
i.e. General specifications, Intensity of light emitted, Test Procedure,
Colour of light emitted

- C Further administrative provisions
i.e. Modification of type, Conformity of production (CoP), Penalties for
non-conformity of production, Production definitively discontinued,
Names and addresses, Transitional Provisions (if necessary) etc.

- D Annexes

Simplification of Regulations

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Simplification of Regulations

New basic structure of UN-Regulation No. 48

UN-Regulation No. 48

Part I

Paragraph numbers starts with “A”

“Installation”

...

Annexes

....

Part II

Paragraph numbers starts with “B”

“Common provisions”

...

Annexes

....

Simplification of Regulations

New basic structure of UN-Regulation No. 48, Part II

Content:

- B1. Definitions of Type**
- B2. Definitions**
- B3. Application for approval**
- B4. Approval**
- B5. Markings**
- B6. General Requirements**
- B7. General Requirements for signalling lamps**
- B8. General Requirements for headlamps**
- B9. General Requirements for retro - reflecting devices**
- B10. Modifications of a type of lamp for motor vehicles and their trailers and extension of approval**
- B11. Penalties for non-conformity of production**
- B12. Production definitely discontinued**
- B13. Names and addresses of Technical Services responsible for conducting approval tests, and of Administrative Departments**

ANNEXES

Simplification of Regulations

New basic structure of UN-Regulation No. 48, Part II

Annexes (so far):

1. Examples of arrangements of approval marks
2. Minimum requirements for conformity of production control procedures
3. Minimum requirements for sampling by an inspector
4. Colour of Lights
5. Photometric measurement provisions for signalling lamps
6. Photometric measurement provisions for headlamps
7. Photometric measurement provisions for retro-reflecting devices
8. Examples of lamp surfaces, axes, centres of reference, and angles of geometric visibility
9. Definition and sharpness of the "cut-off" line and aiming procedure by means of this "cut-off" line for asymmetrical and symmetrical passing beam headlamps
10. Tests for stability of photometric performance **of signalling lamps and** headlamps in operation
11. Requirements for lamps incorporating lenses of plastic material - Testing of lens or material samples and of complete lamps
12. Colour fastness to artificial light Xenon-arc lamp test for retro – reflecting devices
13. Requirements for LED modules and headlamps including LED modules
14. Gonio(photo)meter system used for the photometric measurements

Simplification of Regulations

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Simplification of Regulations

New basic structure of UN-Regulations for devices

UN-Regulation No. xx (any device)

Provisions

0. Scope
1. Definitions
2. Application for approval
3. Markings
4. Approval
5. General specifications
6. Intensity of light emitted
7. Test procedure
8. Colour of light emitted
9. Modifications of a type of ...
10. Conformity of production
11. Penalties for non conformity of production
12. Production definitively discontinued
13. Names and addresses of Technical Services ...
14. Transitional provisions

Annexes

Annexes

- Fixed part (for all)
 1. **Communication**
 2. Photometric measurement
 3. Light distribution in space
- Specific part (individual)
 - *Additional Annexes for the specific Regulation (if needed)*

Simplification of Regulations

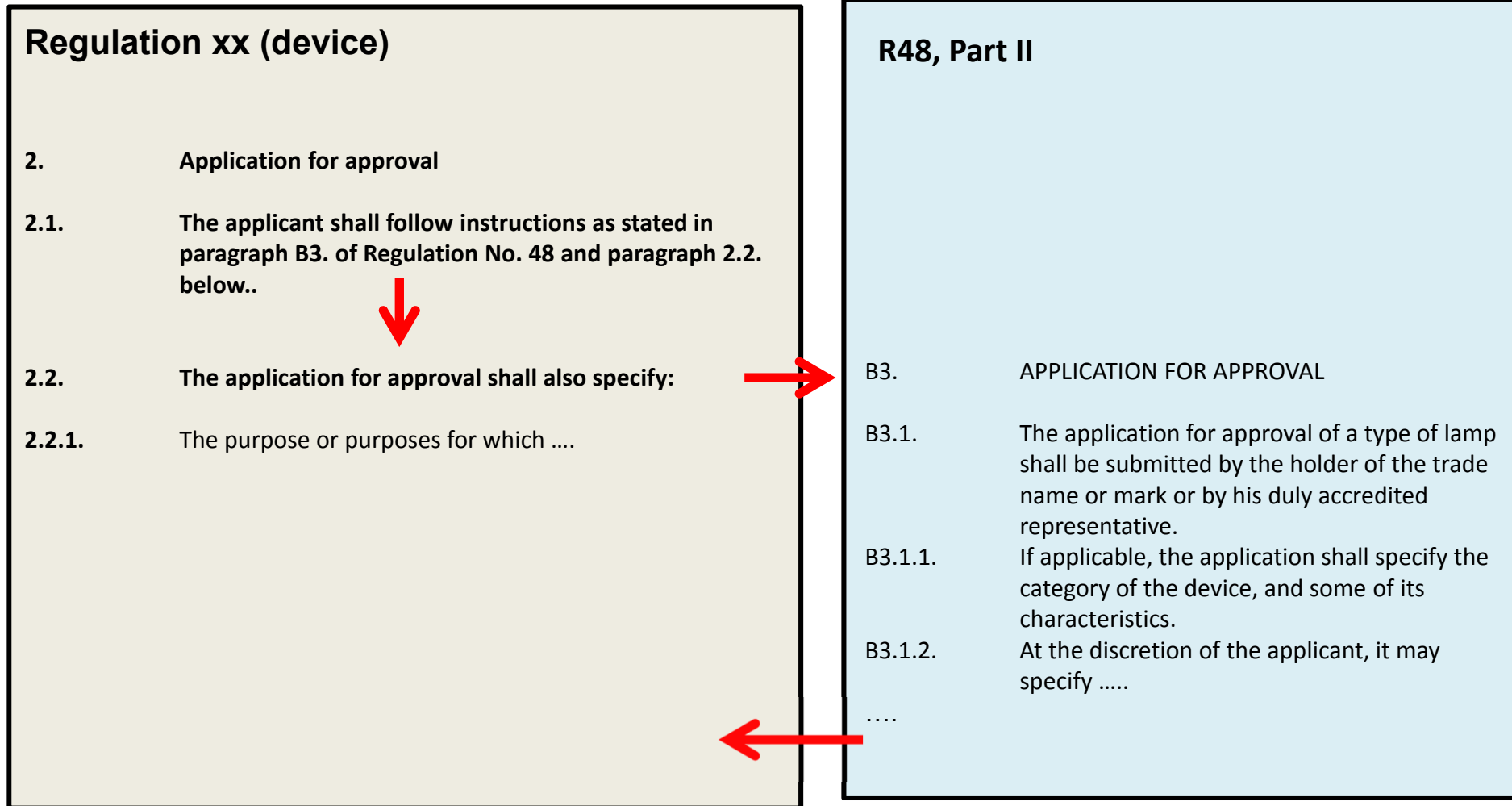
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Simplification of Regulations

Consequences and benefits, example

Handling of **Application for approval**



Simplification of Regulations

Consequences and benefits, example

Handling of Conformity of Production

Regulation xx (device)

10. Conformity of production

The conformity of production procedures shall comply with those set out in the Agreement, Appendix 2 (E/ECE/324-E/ECE/TRANS/505/Rev.2), with the following requirements:

10.1. Lamps shall be so manufactured as to conform to the type approved under this regulation. The compliance with the requirements set forth in paragraphs 6 and 8 above shall be verified as follows:

10.1.1. The minimum requirements for conformity of production control procedures set forth in **Annex 2 of Part II to Regulation 48 shall be complied with and no measured value deviates unfavourably by more than 20 per cent** from the values prescribed in this Regulation.

In addition for the minimum values ...

10.1.2. The sampled lamp shall be subjected to photometric measurements for ...

10.1.2. The minimum requirements for sampling by an inspector set forth in **Annex 3 of Part II to Regulation 48** shall be complied with

10.3. The authority which has granted type approval may at any time verify the conformity control methods applied in each production facility. The normal frequency of these verifications shall be once every two years.

R48, Part II

Annex 2

MINIMUM REQUIREMENTS FOR CONFORMITY OF PRODUCTION CONTROL PROCEDURES

....

2.4 Measured and recorded photometric characteristics
The sampled lamp shall be subjected to photometric **and colorimetric** measurements values at the points listed in **Paragraph 10.1.2. of the pertinent Regulation**

Annex 3

MINIMUM REQUIREMENTS FOR SAMPLING BY AN INSPECTOR

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Simplification of Regulations

Informal group – Concept vs. terms of reference

- Minimize the number of collective amendments ✓
- Reduce the number of non-frozen regulations ✓
- Define essential requirements in performance terms ✓
- Reduce the administrative burden ✓
- Reduce the burden for governments ✓
- Reduce regulatory burden for industry ✓

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Simplification of Regulations

Open questions to GRE

1. Does GRE agree to continue with the work
as proposed by the IWG-SLR?
2. If confirmed,
does GRE wish to provide further guidance?

END
of presentation
THANK YOU