

**PROPOSAL FOR DRAFT AMENDMENTS TO THE DRAFT 02 SERIES
OF AMENDMENTS TO REGULATION No. 107**
(Buses and coaches)

A. PROPOSAL

Annex 3:

Paragraph 7.8, amend to read:

“7.8. Artificial ~~interior~~ lighting.”

Paragraph 7.8.5, amend to read:

“7.8.5. Control of the mandatory ~~interior~~ lighting shall be by manual switches under the control of the driver or automatically controlled.”

Insert a new paragraphs 7.8.7 to 7.8.7.5, to read:

“7.8.7. When the electricity lighting is turn on the full power, the illumination parameters shall be following:

7.8.7.1. Middle (arithmetical) illumination above the passenger seats cushion 1/ shall not be less:

Class	Middle illumination, lx	
	Incandescent lamps	Luminescent lamps
I and A	60	100
II	30	75
III and B	60	150

7.8.7.2. Non-uniformity factor of illumination by passenger seats (ratio between maximal to minimum magnitude of illumination) shall not be more:
3,0 –for incandescent lamps,
2,0 –for luminescent lamps.

7.8.7.3. Minimum interior illumination of a vehicle shall be:

Illuminating zone (surface)	Illumination, lx	
	Incandescent lamps	Luminescent lamps
Gangway <u>2/</u>	20	50
Access passage, intercommunication staircase, half staircase <u>3/</u>	10	
Local (individual) passenger seats lighting (if fitted) <u>1/</u>	50	75
Conductor's seat <u>1/</u>	100	200
Driver's compartment, WC, wardrobe <u>1/</u>	30	75

- 7.8.7.4. In the case vehicles of Class I, II and A, illumination on ground surface near the service doors shall be not less than 5 lx 4/ (except service doors, which are situated on indirect view of the driver, seating in the normal driving position).
- 7.8.7.4.1. The lighting devices for the illumination of the area outside service doors shall be operated as follows:
- 7.8.7.4.1.1. turn on simultaneously with at least one service door opened, and
- 7.8.7.4.1.2. operating all the time, when door is effective, and
- 7.8.7.4.1.3. turn off after a speed exceeding 5 km/h and shall be incapable of operation above that speed.
- 7.8.7.4.2. If the requirements of paragraphs 7.8.7.4. and 7.8.7.4.1. of this Annex are ensured by external lighting devices, these devices shall comply with following requirements:
- 7.8.7.4.2.1. height of the lower edge of devices (including their fittings) from the ground shall not be less than 2000 mm (a kneeling system shall be engaged), and
- 7.8.7.4.2.2. devices shall not protrude more than 50 mm outside the side wall of the vehicle, and
- 7.8.7.4.2.3. light emitting by devices shall:
- 7.8.7.4.2.3.1. be the white color, and
- 7.8.7.4.2.3.2. have the direction, other than forward or back, and
- 7.8.7.4.2.3.3. not blind the drivers of other vehicles within 10 m from the lighting devices.
- 7.8.7.5. Illumination on platform's surface of a lift or ramp (in their working position) shall be not less than 10 lx 5/.

1/ at the height of 1000 mm from the floor,

2/ at the level of the floor,

3/ at the level of the steps,

4/ at the distance up to 1000 mm from any point of the lower edge of a door aperture,

5/ at the distance up to 750 mm from the plate of a door aperture.”

Annex 8:

Paragraph 3.10, amend to read:

“3.10 (**Reserved**).”

Paragraph 3.10.1, should be deleted.

Annex 11, paragraph 2.4.2, amend to read:

“...- for vehicles of categories M2 and M3, lighting devices (including their fittings) for the illumination of the area outside service doors provided that the lighting devices are placed not less than 2000 mm from the ground (when the kneeling system is turned) and do not protrude more than 50 mm outside the side of the vehicle.”

B. JUSTIFICATION

1. The level of illumination inside buses and outside near the service doors undoubtedly renders influence on safety, life and health of the users of buses.
2. The Regulations №№ 36, 52 and 107 contain the subjective requirements concerning the level of illumination in buses ("adequate lighting"), which can be ambiguously interpreted by Technical services and vehicle's manufacturers.
3. On the 87th and 88th sessions GRSG the expert from Sweden opened the subject on illumination of the bus service doors area at bus stops lacking illumination (informal document № GRSG-87-15, document TRANS/WP.29/GRSG/2005/2 and informal document № GRSG-88-21).
4. Proceeding from the listed premises, the Russian Federation submits for consideration of the GRSG experts supplement to the draft 02 series of amendments, which assumes introduction in the Regulations № 107 normative levels of illumination (on the basis of the Russian national standards) and application of the instrumental method of their estimation.
5. The draft of amendments enable to light the area outside service doors by not only internal lighting devices, but also external devices (that will be coordinated to the Sweden proposals), therefore it is offered to eliminate the word "interior" from the paragraphs 7.8 and 7.8.5.
6. The numbering of amendments is correct with account of the proposals, which contain in the next documents:
 - TRANS/WP.29/GRSG/2003/21 and TRANS/WP.29/GRSG/2005/2 (proposals to paragraphs 7.8 and 7.8.4 of the Annex 3 to the Regulations № 107),
 - TRANS/WP.29/GRSG/2003/22 and TRANS/WP.29/GRSG/2005/8 (paragraph 7.8.5 of the Annex 3 to the Regulations № 107),
 - GRSG-87-33 (paragraph 7.8.6 of the Annex 3 to the Regulations № 107),
 - TRANS/WP.29/GRSG/2005/10 and GRSG-88-13 (proposals to paragraph 3.10 of the Annex 8 to the Regulations № 107).
