ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations (WP.29)

Working Party on Lighting and Light-Signalling (GRE)
(Fifty-first session, 15-19 September 2003, agenda item 1.1.2.6.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 48
(Installation of lighting and light-signalling devices)

Transmitted by the expert from Germany

Note: The text reproduced below was prepared by the expert from Germany, proposing new provisions in order to clarify the discrepancies between electrical supply conditions during the type approval test and the electrical supply conditions in the vehicle in service. The amendment is based on the text of a document without a symbol (informal document No. 22), distributed during the fiftieth GRE session (see report TRANS/WP.29/GRE/50, para. 21).

Note: This document is distributed to the Experts on Lighting and Light-Signalling only.
A. PROPOSAL

Add a new paragraph 5.25, to read:

"5.25. In case a lamp (function) has been approved in combination with a special (dedicated) power supply as described in the communication form of the accompanying lamp approval, all these lamps shall be operated in the vehicle under the same electrical operating conditions as they were approved.

In all other cases the voltage at the terminals of the lamp shall not exceed 6.75 V (6 Volt-Systems), 13.5 V (12 Volt-Systems) or 28 V (24 Volt-Systems)."

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B. JUSTIFICATION

1. An amendment to ECE Regulation No. 7 has been adopted to allow a dedicated voltage instead of the reference luminous flux for measurement of the luminous intensity during type approval.

This new measuring procedure requires an amendment to this regulation to avoid additional discrepancies between type approval conditions and operating conditions in the vehicle.

2. In recent years the electrical power consumption of vehicles is increasing more and more. Therefore the 42 Volt network is in development. But also in the conventional vehicle network the voltage is also increasing due to the increasing power consumption, which was under discussion in several former meetings.

Certain vehicle manufacturers therefore installed electronic control units into the vehicles to control the electrical power consumption or to limit the voltage level, e.g. to increase the lifetime of filament lamps especially but not only in headlamps.