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**Economic Commission for Europe****Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on General Safety Provisions****124th session**

Geneva, 11–14 October 2022

Item 6 (a) of the provisional agenda

**Amendments to Regulations on Gas-Fuelled Vehicles:****UN Regulation No. 67 (Liquefied Petroleum Gas vehicles)****Proposal for Supplement 3 to the 03 series of amendments  
and for Supplement 2 to the 04 series of amendments to UN  
Regulation No. 67 (Liquefied Petroleum Gas vehicles)****Submitted by the expert from Liquid Gas Europe \***

The text reproduced below was prepared by the expert from Liquid Gas Europe. It is based on informal document GRSG-123-06-Rev.1 distributed at the 123rd session of the Working Party on General Safety Provisions (GRSG). The modifications to the current text of the UN Regulation are marked in bold characters and strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2022 as outlined in the proposed programme budget for 2022 (A/76/6, part V, sect. 20, para. 20.76), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



## I. Proposal

Paragraphs 6.17.2.1. and 6.17.2.2., amend to read:

"6.17.2.1. The electrical connections inside the boot and passengers compartment shall comply **with at least the minimum** protection degree class IP 40 according to IEC Standard 60529-1989+A1:1999+A2:2013 or **IP40 according to ISO20653:2013.**

6.17.2.2. All other electrical connections shall comply **with at least the minimum** protection degree class IP 54 according to IEC Standard 60529-1989+A1:1999+A2:2013 or **IP5K4 according to ISO20653:2013."**

Paragraph 6.17.10.8., renumber as paragraph 6.17.10.9:

"6.17.10.89. For vehicles of category M<sub>1</sub>, the filling unit shall not be located below the body of the vehicle and shall respect the height provisions of paragraph 17.4.5."

## II. Justification

Modifications to UN Regulation No. 67 consist of two parts.

The first aims to align the requirements of IP protection grades to the latest IEC standard and to recognise ISO 20653 as a valid alternative, which is more appropriate and focused on automotive applications.

In addition, all IP classes with protection grades higher than those specified by the regulation can be accepted to comply with the requirements, including the following grades which are not automatically recognised by IEC and ISO standards:

- Water protection grade 7: temporary immersion
- Water protection grade 8: continuous immersion
- Water protection grade 9K: water during high-pressure/steam-jet cleaning

Automotive connectors are usually certified according to one of the above-mentioned grades and have better performances than grade 4 which ensures protection to splash water only.

The last part aims to correct the overlap of the same paragraph number 6.17.10.8. introduced by ECE/TRANS/WP.29/2019/94 (as amended by paragraph 70 of the report ECE/TRANS/WP.29/1149) and by ECE/TRANS/WP.29/2021/20. The solution proposed renumbers the first as paragraph 6.17.10.9.

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