

**Status: 15.05.2008**

## **PROPOSAL**

### **Terms of Reference for the informal group on Electric Safety**

1. In March 2008, WP.29 decided that the electric safety subgroup under GRSP will be responsible to develop the electric safety requirements. The informal group agrees on establishing these requirements for (1) the UNECE Regulation 100 under the 1958 Agreement<sup>(1)</sup> and (2) the hydrogen fuel cell vehicle (HFCV) global technical regulation (GTR) under the 1998 Agreement<sup>(2)</sup>. This subgroup will be comprised of experts from GRSP and the HFCV GTR Subgroup Safety (SGS).  
(1) See report of WP.29 of November 2007 (document WP.29/1064 paragraph 14)  
(2) See section III of the HFCV Action Plan (document ECE/TRANS//WP.29/2007/41)
2. The goal is to establish electric safety provisions for electric-, hybrid- and hydrogen/fuel cell-vehicles during “**in-use**” and “**post crash**”. The scope of the electric safety provisions will be in accordance with the relevant documents identified in paragraphs 5 and 6.
3. A section for the HFCV GTR with the title “Electric Safety Provisions” will be developed. This section will have two sub-sections with the titles “Electric safety provisions during “in-use” and “Electric safety provisions post crash”. Therefore, the group will avoid attempting to harmonize current national crash tests for the GTR and instead include language in the GTR specifying that the Contracting Parties apply their existing crash tests and check for compliance with an agreed set of requirements and limit values.
4. Once the technical requirements of the sub-sections are defined and agreed, the formal integration into the 1958- and the 1998-agreement will be conducted separately. A proposal based on the technical requirements of the sub-sections will be submitted directly to GRSP to amend UNECE R100 regarding in-use under the 1958 agreement. After the adoption of requirements regarding “post-crash” could be transposed to ECE R94 and/or ECE R95. A proposal regarding in-use and post crash, which relate to HFCV, will be submitted to the SGS for the electrical safety section in the GTR.
5. The following documents are the basis for defining electric safety provisions during “**in-use**” of vehicles:
  - ECE-TRANS-WP29-GRSP-42-01 (proposal from Germany)
  - Japanese Technical Standard concerning the protection of occupants from high voltage etc. of electrical vehicles and electrical hybrid vehicles. (Annex, 110.) and fuel cell vehicles (Annex 101)

6. The following documents are the basis for defining electric safety provisions “post crash”:
  - Federal Motor Vehicle Safety Standard (FMVSS) No. 305, Electric-powered vehicles: electrolyte spillage and electrical shock protection.
  - Japanese Technical Standard concerning the protection of passengers from high voltage etc. after collision of electrical vehicles and electrical hybrid vehicles (Annex 111).
7. Relevant international Standards should be considered.
8. The proposal for the amendment of the ECE R100 will be presented to the 45<sup>th</sup> session of GRSP in May 2009. The proposal for the electric safety provisions section for the GTR of HFCV will be completed by December 2009. The mandate for the informal group shall be limited until June 2010.

## **Operating principles**

### **1. Participation**

Participants to include Contracting Parties, Vehicle Manufacturers, Technical Services, Traffic Safety Experts, etc.

### **2. A Chairperson and a Secretary will govern the informal group.**

### **3. The official language of the informal group will be English.**

### **4. Sessions**

Sessions shall be held in agreement with the majority of the participants after the group has been established in a constitutional meeting.

The Secretariat, at least two (2) weeks before the commencement of a session, shall distribute a notice of the opening date of said session, together with a copy of the provisional agenda. The basic documents relating to each item appearing on the provisional agenda of a session shall be available on the WP.29 website or sent by to members by email. If the previous meeting report is not available before the next scheduled session the subsequent sessions have to be postponed accordingly.

### **5. Agenda**

A provisional agenda shall be drawn up by the secretariat in accordance with the participants of the informal group. The first item upon the provisional agenda for each session shall be the adoption of the agenda.

### **6. Minutes**

The second item on the provisional agenda will be the discussion, matters arising and adoption of the Minutes of the previous session.

7. The process will pursue consensus. When consensus can not be reached, the Chairperson of the group shall present the different points of view in case of the R100 amendments to GRSP. In case of GTR, the HFCV GTR manager will inform WP.29/AC.3 .

**8.** The progress of the informal group will be reported to GRSP and SGS orally or as an informal document by the chairperson or another a designated participant of the group.

**9.** All working papers should be distributed in digital form. A specific website has been created at:

[http://www.unece.org/trans/main/wp29/wp29wgs/wp29grsp/elsa\\_1.html](http://www.unece.org/trans/main/wp29/wp29wgs/wp29grsp/elsa_1.html).