

## **Status report about informal group Hydrogen / Fuel Cell - Vehicles**

Transmitted by the Chairman (Germany)

### 1. Meetings

Since 45<sup>th</sup> GRPE the 5th and 6th meeting of the Hydrogen informal group took place on 13/14 February in Ruesselsheim (Opel) and on 10/11 April in Gothenburg (Volvo). The progress made in that meeting was based on the outcome of several preparation meetings with GRPE, EIHP and ISO experts.

### 2. Draft Regulation on Liquid Hydrogen Onboard Storage Systems

The draft regulation on LH2 as a proposal for a new regulation under the 1958 agreement was presented as informal document No. 3 at the 45<sup>th</sup> GRPE meeting. This is now on the agenda as document TRANS/WP.29/GRPE/2003/14. With the exception of a corrected mistake in section 6.3.1 and an additional discussion concerning "system approval marking" no other comment or proposal was transmitted since last GRPE. Document TRANS/WP.29/GRPE/2003/14 includes now two outstanding issues in square brackets.

First square brackets are concerning the container approval in section 6.2.1:

"6.2 Provisions regarding Hydrogen container(s)

6.2.1 The Hydrogen container(s) shall be type-approved pursuant to the provisions laid down in Annexes 7A of this Regulation. *[The performance of Hydrogen container(s) made from materials other than metal shall be demonstrated to be equivalent to the requirements of Annex 7A of this Regulation according to existing International Standards.]*"

This is linked to the general question of type approval and future technologies. Since this was and will be discussed in several groups and because of the position of several participants of the Hydrogen informal group my conclusion and proposal to GRPE is to delete the text in square brackets in 6.2.1.

The second point in square brackets is complete annex 5 (ARRANGEMENTS OF APPROVAL MARKS FOR A VEHICLE TYPE WITH REGARD TO THE INSTALLATION OF A HYDROGEN SYSTEM). This item is linked to the general discussion on "Approval marking in ECE Regulations" (see informal document No.15 of 126<sup>th</sup> WP29, document Trans/WP.29/GRPE/2003/10 and document TRANS/WP.29/GRPE/2003/11). The Hydrogen informal group would like to ask GRPE for consideration of this general question.

### 3. Draft Regulation on Compressed Hydrogen Onboard Storage Systems

Since last GRPE the Members of the Hydrogen informal group has done a really hard job to be in the position to prepare a draft regulation on CGH2 as a proposal for a new regulation under the 1958 agreement, to be presented as an informal document at 46<sup>th</sup> GRPE. This revision 12 of the draft CGH2 regulation is based on the former rev 10 and the amended rev 11 that was discussed in the last meeting in Gothenburg. All amendments in rev 12 were agreed in principle by the Members of the Hydrogen informal group, so there remains no outstanding issue under discussion. But because rev 12 was finalised and distributed very late prior to this GRPE meeting, there was not enough time for all Members to have a detailed look on this last consolidated draft version.

Participants from Japan, USA and ISO raised in the last meetings of the Hydrogen informal group several reservations concerning this draft regulation on CGH2. Since we found compromises in the group (e.g. concerning the reduction of no. of components to be approved) and because other items were postponed to be discussed in the case of a GTR development, we expect no disapproving position concerning this draft proposal for a new regulation under the 1958 agreement.

### 4. Next meeting

The next meeting (7th) of the informal group is provisionally scheduled for 6/7 October in München (TUEV).

All presentations and documents concerning the informal group are available on the EIHP website ([www.eihp.org](http://www.eihp.org))