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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

World Forum for Harmonization of Vehicle Regulations

Working Party on Passive Safety

Forty-second session

Geneva, 10-14 December 2007

Item XX of the provisional agenda

**REGULATION No. 44**  
**(Child Restraint System)**

**Proposal for a new Regulation on Child Restraint System**

**Submitted by the experts from France**

As reported in documents ECE/TRANS/WP.29/GRSP/41 paragraphs 45 and 46 the text reproduced below was prepared by the expert from France in order to propose to GRSP a list of issues to be integrated in a future new regulation for child restraint systems.

Note: This document is distributed to the Experts of the Working Party on Passive Safety (GRSP) only.

**A. PROPOSAL**

1. Test bench
  - a. Representatives of cars
  - b. Anchorages positions
  - c. Retractor position
  - d. Anti rotation anchorages
2. Classification of Child Restraint Systems
  - a. Dimensions
  - b. Weight
  - c. Integral (ISOFIX) / Non integral
3. Dummies
  - a. Q series
  - b. Abdominal loading
  - c. Vertical head/neck acceleration
4. Dynamic tests
  - a. Multiple scenario
    - i. Frontal impact
    - ii. Lateral impact
    - iii. Rear impact
  - b. Two types of tests (2 pulses)
    - i. Child seat mechanical robustness
    - ii. Bio mechanical performances
5. Components tests
  - a. Product durability
6. Labelling
  - a. Content (information)
  - b. Durability (tests)
7. Ease of Use / Misuse
  - a. With criteria
    - i. CRS installation in vehicle
    - ii. CRS adjustment for child retention
  - b. Adjustable (permanently fitted) harness
8. Control Of Production
9. Interoperability with vehicle
  - a. Components
    - i. Safety belts
    - ii. Pre tensionners
    - iii. Load limiters
    - iv. Airbag
  - b. Adult sitting position (space)
10. Child comfort and health harmlessness

## **B. JUSTIFICATION**

At its 41<sup>st</sup> session GRSP considers to propose to WP29 to set up a new informal group on child restraint systems. (See below §45 and §46 of the report of the 41<sup>st</sup> GRSP - ECE-TRANS-WP29-GRSP-41e)

*“45. The expert from IC gave a presentation (GRSP-41-17) indicating a large number of wide-ranging issues to be solved. He mentioned amongst others that labelling was an issue in terms of permanence, visibility and wording. He suggested reducing the span of group I in order to avoid overlaps with group 0+. He outlined that a higher test pulse and an earlier peak were needed to match the increased stiffness of cars. The expert from France shared the concerns by CI. He suggested the establishment of a new informal group in order to fully review Regulation No. 44 and to devise a new set of performances. The expert from Germany informed GRSP about the work progress made by EEVC working group 18. He suggested considering the conclusions of EEVC in the future work agenda of the informal group. He added that the major challenge was to find a compromise on age/weight/height to cover the entire child population with a limited number of dummies. The expert from Australia announced the input of a study of the Adelaide University concerning height and mass of children.*

*46. Thus, GRSP agreed to set up a new informal group on child restraint systems. The Chairperson announced the intention to inform WP.29 and AC.1 at their next session in June 2007. GRSP also agreed to consider the terms of reference of the informal group at the next GRSP session. GRSP invited the experts from USA, France and Australia to prepare presentations on this subject.”*

During its 142<sup>nd</sup> session WP29 agreed to the establishment by GRSP of the new informal group ((See below §37 of the report of the 142<sup>nd</sup> WP29 - ECE-TRANS-WP29-1062e)

*“37. She informed WP.29 that GRSP had also agreed to establish a new informal group to devise new performance requirements for Regulation No. 44 (Child restraint systems). WP.29 gave its consent to the establishment of the new informal group.”*

France wants to propose a frame work for this informal group based on outputs coming from different organisations which consider the needs to improve Child Restraint Systems regulation on the basis of a new set of performances.

## C. DOCUMENTS

- EEVC WG18: Draft document to be validated by EEVC SC “*LEGISLATION REVIEW ON CHILD PROTECTION & PROPOSAL OF POSSIBLE IMPROVEMENTS OF THE CURRENT EUROPEAN LEGISLATION*”
- EEVC WG12: *Documents N° 394, 493, 498 & 500*
- ISO: ISO TC 22/SC 12/WG 1 Document ISO/PDTS 14646-2
  - [http://www.iso.org/iso/fr/iso\\_catalogue/catalogue\\_ics/catalogue\\_detail\\_ics.htm?csnumber=45301&ICS1=43&ICS2=040&ICS3=80](http://www.iso.org/iso/fr/iso_catalogue/catalogue_ics/catalogue_detail_ics.htm?csnumber=45301&ICS1=43&ICS2=040&ICS3=80)
- EC: NPACS New Programme for the Assessment of Child Seats - Procedures for the Evaluation of Child Restraint Systems for Consumer Information - Final Report - March 2006
  - <http://www.dft.gov.uk/rmd/project.asp?intProjectID=11427>
  - [http://ec.europa.eu/transport/roadsafety/publications/projectfiles/npacs\\_en.htm](http://ec.europa.eu/transport/roadsafety/publications/projectfiles/npacs_en.htm)
- CI: *Documents ECE-TRANS-WP29-GRSP-41-inf17e&18e*
  - <http://www.unece.org/trans/doc/2007/wp29grsp/ECE-TRANS-WP29-GRSP-41-inf17e.pdf>
  - <http://www.unece.org/trans/doc/2007/wp29grsp/ECE-TRANS-WP29-GRSP-41-inf18e.pdf>