

CRS-1-7

Transmitted by the expert from France

Informal document No.**GRSP-42-27**
(42nd GRSP, 11-14 December 2007,
agenda item 12(a))

Proposal for a new Regulation on Child Restraint System

Informal document No.**GRSP-42-02**
(42nd GRSP, 11-14 December 2007,
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Submitted by the experts from France

Justification

- During its 142nd session WP29 agreed to the establishment by GRSP of the new informal group
- France wants to propose a frame work for this informal group
 - based on outputs coming from different organisations
 - consider the needs to improve Child Restraint Systems regulation
 - on the basis of a new set of performances.

PROPOSAL

1. Test bench
2. Classification of Child Restraint Systems
3. Dummies
4. Dynamic tests
5. Components tests
6. Labelling
7. Ease of Use / Misuse
8. Control Of Production
9. Interoperability with vehicle
10. Child comfort and health harmlessness

Test bench

- Representatives of cars
- Anchorages positions
- Retractor position
- Anti rotation anchorages

Classification of CRS

- Dimensions
- Weight
- Integral (ISOFIX) / Non integral

Dummies

- Q series
- Abdominal loading
- Vertical head/neck acceleration

Dynamic tests

- Multiple scenario
 - Frontal impact
 - Lateral impact
 - Rear impact
- Two types of tests (2 pulses)
 - Child seat mechanical robustness
 - Bio mechanical performances

Components tests

- Product durability

Labelling

- Content (information)
- Durability (tests)

Ease of Use / Misuse

- With criteria
 - CRS installation in vehicle
 - CRS adjustment for child retention
- Adjustable (permanently fitted) harness

Control Of Production

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Interoperability with vehicle

- Components
 - Safety belts
 - Pre tensioners
 - Load limiters
 - Airbag
- Adult sitting position (space)

Child comfort and health harmlessness

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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
- 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
- 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>