GRSP / IWG-CRS

Status report for the fifty-seventh session (18-22 May 2015) of GRSP
3 meetings since last session of GRSP

- 21st January 2015 – Berlin (TAKATA)
- 18th & 19th March – Paris (OICA)
- 6th May – Paris (OICA)
- 18th June – Brussels (CLEPA)
Concrete achievements so far

- i-Size available up to 105 cm
  - Integral belts
  - Up to Q3
- Side impact protection
  - Fully incorporated
- 'Universal' plug-and-play approach
  - Achieved through R14 and R16 integration
- No forward facing transport up to 15 months of child age
Shortcomings phase 1

- Flexibility for infant carrier systems
  - Temporary fix to allow for seatbelt routing
- Certain measures still have more potential for improvement
  - Frontal impact pulse revision (update 1970's car fleet)
- Consideration of Shields as ‘Integral ECRS’
  - Not authorised in phase 1
Main problems in Phase 2

- Address enhanced safety for children in cars on booster cushions without a backrest

- Geometric definition of the test fixture (gabarit) for booster seats with an integrated backrest

- Centre of CRS ≠ centre of car seat
  - Due to potential size of 'gabarit'

- Q6 and Q10 reliability for testing
  - Acceptable solutions not expected before end of 2015

- Complexity of information to users in vehicle handbook
  - Due to number of classes, lack of universality
IWG CRS group reorientation

• Following last GRSP session EC and Germany have proposed different strategies for current and future phases:

  – CRS-50-03e_Richard_DAMM

  – CRS-50-04e_European_Commission
Germany proposal

• Introduce only non-integral i-Size ECRS as booster seats with an integrated backrest for children up to a stature of 135 cm in phase 2 of R129
• Booster cushions without a backrest are kept in R44 at this stage
• Propose for the interim a modification of the requirements for booster cushions without a backrest in R44 that prohibits their use for children with a stature below 125 cm
• This proposal will:
  – facilitate the discussion and decision in the IWG CRS
  – allow a short-term decision for phase 2 of R129
  – allow the time for discussion about booster cushions without a backrest
  – improve child safety for large children
• Proposal for Phases 3 (and 4)
  – Discuss strategy for the introduction of booster cushions without a backrest
  – Discuss strategy for the future of Regulation no. 44
  – Discuss promotion of installation of iSize and IsoFix in cars
  – Promote and expand concept and use of i-Size
EC proposal (1)

• How will we be successful to promote ISOFIX?
  – i-Size is the key
• Small car (Polo, Fiesta, C3, Clio, V40, …)
  – 2x positions is acceptable
• Larger family car (S-max, Touran, XC90, …)
  – 3x proposed gabarit side-by-side NEVER FITS
  – 3x side-by-side CRS IS A MUST for this type of cars
• Proposal
  – Create i-Size cars for i-Size products / adapt cars and CRS
EC proposal (2)

• Ease of use (plug & play)
  – Extend the i-Size philosophy
  – One size 'gabarit' fits all
• Avoiding misuse
  – Aim for plug & play solutions above to reduce the complexity of systems in the market
• Side impact & New dummies
  – Complete the analysis work
  – Make improvements where necessary

• Make i-Size standard across the board
  – Restrict the width of booster seat gabarit to 440 mm
    • Consistent with maximum width in Phase 1
    • Will fit 3-across larger family vehicles
The group agrees to study the feasibility of reducing the width of the F4 gabarit to 440 mm in order to try achieve an i-size seating position able to receive all i-size ECRS from 0 cm to 135 cm (95%).

If it is not feasible with current parameters, modification of conditions (energy, percentile, shoulder breadth, ...) could be proposed to achieve this goal.

The extreme fall back solution should be to increase gradually the gabarit width between 440 mm and 520 mm.

First feedback in June 2015

Dead line for decision on the feasibility is 1st week of September 2015
• Booster cushion

  – Keep the booster cushion for the time being in ECE R44.

  – Modify the ECE R44 to prohibit the use of booster cushion for children under 125 cm.
Conclusion

• IWG CRS asks for the consent of GRSP to go in this direction.

• IWG CRS proposes to GRSP to prepare four formal documents for the December session:
  – Amendments to Phase 1 of ECE R129.
  – Phase 2 amendment of ECE R129 (limited to booster seats ≤ 135 cm)
  – Amendment of ECE R16 accordingly.
  – Amendment of ECE R44 (booster cushion ≥ 125 cm)

• Accordingly, IWG CRS sought consent from GRSP for a one-year extension of his mandate until end of 2016.