WorldSID Positioning
Sub-Committee Update

GTR working group meeting
November 17, 2010
Bonn, Germany
Current Seating Procedures

- EuroSID
  - Not compatible with WorldSID

- UMTRI / IIHS
  - Recommended by the WorldSID Task Group
  - Representative of field experience
  - Time consuming
  - Difficult to manipulate dummy to match required H-point
  - May not be compatible with preliminary design (modeling)
Objective

To develop a seating procedure that is specific to the WorldSID family of dummies

- Adaptable to regulatory requirements
- Applicable to all stages of vehicle design
- Efficient, repeatable, intuitive
Proposed Elements

Resolved

1. Fixed pre-designated location
2. Vertical seat set to lowest height
3. Seat adjustments: cushion angle set to mid, lumbar support retracted
4. Apply a 20 mm correction factor to SAE H-point
5. Foot placement
6. Arm placement
Proposed Elements

To be resolved

1. Seat back angle
   - As recommended by the manufacturer; or
   - Default value
   As measured by SAE machine

2. Dummy recline angle & position
   - Calculated head-thorax angle;
   - WorldSID head and thorax tilt sensors;
   - Rely on seat back angle as originally positioned.
Next Steps

1. Workshop
   - To finalize draft procedure;
2. Inclusion of the seating procedure in ISO 15830
ISO

Revision of all 4 parts of ISO 15830 are 99% complete.

1) Adding a table summarizing dummy component mass and geometrical measurements to part 4
2) Reviewing all sections to update information regarding the types of connectors currently being used
3) Incorporating some editorial changes noted during a document review by GM
4) Correcting a few misc typo’s etc.

Once these changes are complete the document will be ready for final review and then balloting by ISO upper committees