

Plan for Comparing Head Restraint Probes



Probe Comparison Plan

- ▶ Goal: do limited testing to see if there is a basis for choosing the large vs small probe for head restraint testing
- ▶ Current advantages:
 - Large probe closely mimics loading conditions seen in car seat sled testing
 - Small probe is easier to use due to fewer changeovers
- ▶ Final Choice

Probe Comparison Plan

- ▶ Test 2 PDB dummies
- ▶ Test several dummies in Huron
- ▶ Get probe to Japan to evaluate large probe test

Test 2 PDB dummies

- ▶ Cooperative effort with PDB
- ▶ Using two dummies from ESV paper that showed differences
- ▶ Goals
 - Determine if new tests can detect differences
 - Determine if new tests can be used to fix differences

Test 2 PDB dummies

► Plan

- PDB tests both dummies in Sports Seat to see if differences still exist
- HIS Europe runs all new tests on both dummies to see if differences can be detected
- HIS Europe adjusts/repairs dummies according to new tests
- PDB re-runs both dummies in Sports Seat to see if differences have been fixed

Test Several Dummies in Huron

- ▶ All dummies coming through the Huron lab through May will be tested with both probes
 - Data will be overlaid and examined
 - At least 3 re-cert dummies will be tested

Get Probe to Japan

- ▶ Plan to install large probe in HIS Japan lab mid-May
 - Work with JASIC to evaluate both probes

Final Choice

- ▶ Choose probe at June meeting based on
 - Data available
 - Best engineering judgement