Status Report of the IWG of the Three-Dimensional H-Point Machine (3D-HPM)

62ND GRSP SESSION
12 – 15 DEC 2017
Luis Martínez Sáez
Delegates involved

- ADIENT – Thomas Boenniger.
- BMW – Stefan Essebier.
- CLEPA – Paolo Alburno.
- DAIMLER – Erwin Kirschner.
- FAURECIA – Detlef Watermann.
- HONDA – Toshiaki Shimizu.
- HONDA – Yoshiji Kadotani.
- INSIA – Luis Martínez.
- LEAR – Antonio Hernández.
- OPEL – Alexandra Scholz.
- OPEL – Thomas Kinsky.
- RENAULT – Irina Dausse.
- TAKATA – Karsten Hallbauer.
- UTAC CERAM – Jean-Philippe Lepretre.
- VDA – Sascha Pfeifer.
- VOLKSWAGEN – Sven Rathmann.
- ZF – Andrés Iglesias.
Background

• Variability between UNECE documents regarding the specifications of the 3D-HPM.
• VDA provide an excel sheet with revisions of affected UNECE Regulations from previous IWG activities.
• ISO 6549-1999 makes reference to SAE HPM (SAE J826 assumed).
• SAE J826 has been updated at: 1995, 2002, 2008 and 2015.
• Such updates have not been reflected in UNECE documents.
Objectives

• To harmonize the specifications of the 3D-HPM for all the UNECE Regulations: 1958 and 1998 Agreement.
• Validate the harmonized 3D-HPM specifications before propose Regulation updates to the affected ones.
• To propose Regulation updates according to IWG on 3D-HPM results.
Status of IWG Meetings

• 1\textsuperscript{st} Meeting
  ▪ Web meeting, 24\textsuperscript{th} May 2017.
  ▪ Summary of previous meetings of the IWG of the 3D-HPM.
  ▪ Sharing of the machines used by the attendants according to UNECE R. E. 3 and ISO 6549.
  ▪ Discussion about the variability between standards regarding the dimensions of the 3D-HPM.

• 2\textsuperscript{nd} Meeting
  ▪ Web meeting, 27\textsuperscript{th} June 2017.
  ▪ Revision of the affected UNECE Regulations.
  ▪ Discussion between the different uses of the 3D-HPM depending on the Regulation.
Status of Discussion

• There are 22 regulations where the 3D-HPM is referenced.

• The 3D-HPM in these regulations has a direct reference to ISO 6549 (1999 or 1980) or SAE J826-1995. Other cases have reference to RE.3 rev 2&3.

• The finality of the 3D-HPM in these regulations is for R-point validation or for dummy positioning.

• 4 dummies are referenced: H-III50M, H-III5F, ES-2 and WS-50M. Further validation are needed.

• The certification of a 3D-HPM will be revised.
Next IWG Meetings

• 3rd Web Meeting
  ▪ End of January 2018 (TBD).

• 4th Meeting Face to Face
  ▪ In Europe, February/March 2018 (TBD).
  ▪ Close most discussion items.
Thank you for your attention