

**Draft Minutes**  
**12<sup>th</sup> Flex-PLI Technical Evaluation Group (Flex-TEG) Meeting**  
**Date: 2nd December, 2010 (10:30 – 17:30)**

**Place: BAST (<http://www.bast.de/>) – Bergisch Gladbach, Germany**

**Present:**

**A. Konosu, Chairperson (J-MLIT/JARI)**

**M. Burleigh, Secretariat (Humanetics Europe)**

**B Been (Humanetics Europe)**

**T. Warkentin (Humanetics Europe)**

**Y. Takahashi (JAMA/HONDA R&D)**

**T. Yamakawa (JAMA)**

**O. Zander (BAST)**

**D. Gehring (BGS)**

**P. Lessmann (BGS)**

**W. Liebers (TUV)**

**T. Kinsky (ACEA/Opel)**

**B. Buenger (ACEA/Opel)**

**J. Christopher Kolb (Bertrandt)**

**Mr. Wilsmann (Bertrandt)**

**C. Hess (ACEA/Audi)**

**S. Kondratiev (Toyota Europe)**

**A. Otubushin (ACEA BMW)**

**A. Sipido (Ford)**

**O. Ries (ACEA/Volkswagen)**

**C. Hoffman (ACEA/VW)**

**D. Martin (DTS), on phone**

**B. Hardy (TRL), on phone**

**1. Opening: Welcome and Self introductions**

- The Chairman expressed his appreciation to the participants as well as to BAST, who provided the conference room as well as the phone conference system.
- Members made self introductions.

**2. Finalization: Draft Agenda of the 12th Flex-TEG Meeting (TEG-137)**

- The draft agenda for the 12th TEG meeting (TEG-137) was discussed.
- The draft agenda was finalized with several modifications described in red (TEG-137-Rev. 1).

### **3. Confirmation: Status of the Action Items**

- Chairperson: Most of the action items of TEG were done properly so far. The only remaining item is to discuss how to treat the corridors for the pendulum and inverse certification tests based on Humanetics's update requests. We would like to discuss those points in this meeting.

### **4. Information: Flex-GTR Dynamic Certification Test Results**

- JAMA/JARI (TEG-138) presented pendulum type and inverse type certification test data regarding the Flex-GTR-prototypes and the Flex-GTR-production types. As a result, it was revealed that the Flex-GTR-prototypes and Flex-GTR-production types have some differences in their responses because several of the production types test data are slightly out of the current corridors which are made by using Flex-GTR-prototype certification test data only.
- Additionally, JAMA/JARI presented certification test corridor widths with regards to the other dummies (TRL legform impactors, Hybrid III and World-SID). It was shown that the Flex-GTR corridor widths for the pendulum and inverse tests are relatively tight compared to those of the other dummies.
- BASt (TEG-139) presented inverse type certification test data regarding the Flex-GTR-prototypes and the Flex-GTR-production types. The test data also indicated that the Flex-GTR-prototypes and Flex-GTR-production types have some differences in their responses.
- Humanetics (TEG-140) presented their report regarding the difference of the Flex-GTR-prototypes and the Flex-GTR-production types. It seemed that the best way to produce the Flex-GTR-production types is to use similar methods of production to the Flex-GTR-prototypes. In fact, their latest production of the Flex-GTR-production type, which was produced by using similar production methods to the Flex-GTR-prototypes, can achieve better fitting to the pendulum test corridors compared to that of the other Flex-GTR-production types.
- Humanetics stated that they are going to make a Flex-GTR-production type, which can pass

the current pendulum type and inverse type test corridors, from now on. In addition, they promised that they are going to update all of the Flex-GTR-production types, which have been sold by Humanetics so far, free of charge.

## **5. Discussions: Flex-GTR Dynamic Certification Test Corridors**

- The chairperson proposed to update the current corridor widths regarding pendulum type and inverse type certification tests because the widths are very narrow compared to that of the other dummies.
- ACEA and BAST insisted that the inverse type certification test corridors should not be changed. The agreed injury threshold values so far are based on Flex-GTR-prototype performance. On the other hand, ACEA and BAST could allow the pendulum type test corridors to be wider because they prioritize using the inverse type certification test.
- JAMA could not accept to change only the pendulum type certification test corridors because they prioritize using the pendulum type certification test.
- Finally, TEG agreed to not update/change the current corridor widths for pendulum type and inverse type certification tests.

## **6. Others**

### **6.1. ACEA Final Report (Information)**

- ACEA submitted ACEA/BAST final reports regarding their research (TEG-141, TEG-142) as informative documents (no need discussions).

## **7. Status report for the 48<sup>th</sup> GRSP Meeting (Dec. 2010)**

- The chairperson stated that as the current corridors were kept in this meeting, it is not necessary to submit any report to the 48<sup>th</sup> GRSP.

## **8. AOB**

- None.

**9. Closing**

- The Chairman again expressed his appreciation to the participants as well as to BAST, who provided the conference room as well as the phone conference system.
- All members thanked the chairperson for his hard work in chairing the meeting.

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