

TF8 Conference Summary

1. Works

- 1> Have communications by e-mail to exchange the ideas and opinions;
- 2> Have consultations in workgroup for collecting the opinions about the definition of heavy vehicles and the scope of EVS-GTR;
- 3> Have a teleconference in TF8 about the definition of heavy vehicles and the scope of GTR;

2. Conference Process

In the first section, the TF8 leader introduced the works have been done in the task force. In the second section, he showed the opinions collected from the members. That includes 3 topics: the definition of heavy vehicles; the attitude to include heavy vehicles into this EVS-GTR; the items` adoptions for heavy vehicles.

China and OICA/JAMA have the same opinion on the 1st topic as that heavy vehicles include the vehicles belong to category 1-2 with GVM 4,500kg and the vehicles belong to category 2 with GVM 3,500kg;

On the second topic, China believe that heavy vehicles could be added into the EVS-GTR or as an Annex and OICA/JAMA hold the opinion that a separate GTR is more appropriate for heavy vehicles but they also could consider that as an interim solution;

On the third topic, China and OICA/JAMA showed the opinions on

the items as it shows in the chart below:

Chart1. opinions about the items` adoption

	items	Opinion from China	Opinion from OICA/JAMA
1	Water immersion/water resistance	Research for appropriate parameters	Phase 2
2	Low energy	empty	N/A
3	Leakage requirements	Research for appropriate parameters	Phase 2
4	Vibration	Research for appropriate parameters	Phase 1, to the extent of R100_02, other/additional requirements in Phase 2
5	Thermal shock and cycling	applicable	Phase 1, to the extent of R100_02
6	Mechanical shock	Research for appropriate parameters	Phase 1, to the extent of R100_02
7	Mechanical integrity	empty	N/A
8	External short circuit protection	applicable	Phase 1, to the extent of R100_02
9	Overcharge protection	applicable	Phase 1, to the extent of R100_02
10	Over discharge protection	applicable	Phase 1, to the extent of R100_02
11	Over temperature protection	applicable	Phase 1, to the extent of R100_02
12	Thermal propagation	applicable	Phase 2
13	Fire resistance	Applicable, but must consider the packs placed over the height 1.5m	Phase 1
14	Venting	Phase 2	Phase 1, to the extent of R100_02 Long term test postponed to Phase 2
15	Warning	Most part applicable, some adjustment	Phase 2

At the end of the presentation, Mr. Tan showed some Buses of BYD with different structure and different packs placement. Besides he showed pictures of flooding test by BYD.

The next section is discussion, meeting participants have some

comments on presentation.

3. Meeting Conclusion

1> Heavy vehicles include the vehicles belong to category 1-2 with GVM 4,500kg and the vehicles belong to category 2 with GVM 3,500kg;

2> All the experts hope heavy vehicles could be included in the EVS-GTR document or as an annex , while OICA/JAMA prefer a separate GTR for heavy vehicles, the US hold a neutral standard and that depends on whether the research on the heavy vehicle items will delay the EVS-GTR document ;

3> Final Opinions of Items` adoption

	items	Adoptions	Phase1/phase2
1	Water immersion/water resistance	Research for appropriate parameters	depend on the speed of research
2	Low energy	Exemption	-----
3	Leakage requirements	Research for appropriate requirement for packs with different placement	Phase1
4	Vibration	Research for appropriate parameters and scheme of choose test component	depend on the speed of research, to the extent of R100_02, other/additional requirements in Phase 2
5	Thermal shock and cycling	Applicable	Phase 1
6	Mechanical shock	Applicable	Phase 1
7	Mechanical integrity	Exemption	-----
8	External short circuit protection	Applicable	Phase 1
9	Overcharge protection	Applicable	Phase 1
10	Over discharge	Applicable	Phase 1

	protection		
11	Over temperature protection	Applicable	Phase 1
12	Thermal propagation	Research for appropriate requirement for packs with different placement	depend on passenger part
13	Fire resistance	Applicable, but must consider the packs placed over the height 1.5m	Phase 1
14	Venting	depend on passenger part	depend on passenger part
15	Warning	Do more discussion and research which warnings are necessary for heavy vehicles	depend on passenger part and research

4. Work Plan

- 1> Have discussions with members on parameter for flooding test and warning item by e-mail;
- 2> Held some teleconferences about the tasks that should be researched or discussed (that would be informed by the e-mail);
- 3> Keep communications with other task forces about the latest development;
- 4> Research plan:

	Items	deadline
1	Flooding parameters	2016.1
2	Vibration parameters	
3	Placement influences on electrolyte leakage item	
4	Warning item for heavy vehicles	