Action Items involving UL:

6) Rupture definition -

The current definition for rupture in EVS-04-21e:

*Rupture" means opening(s) through the casing of any functional cell assembly casing of any functional cell assembly ~~=> RESS enclosure or electrical protection barrier :UL:EVS-03-12~~ created or enlarged by an event, large enough for a 12 mm diameter test finger (IPXXB) to penetrate and make contact with live parts (see paragraphs6.1.3. and 6.1.5.2.4.).*

Response: Reviewing the definition and clauses 6.1.3 and 6.1.5.2.4 referenced above, the concern is exposing live parts. The confusing part is the use of the term “cell assembly” rather than REESS. What constitutes a cell assembly is not defined although it may be a module. It is sufficient to indicate RESS. See below recommendation for re-wording.

Rupture means opening(s) through the REESS enclosure or an accessible casing created or enlarged by an event, that is wide enough for a 12-mm diameter test finger (IPXXB) to penetrate and allow contact with live parts (see paragraphs 6.1.3. and 6.1.5.2.4).

14. Post-crash fire hazard requirements -

5.2.3. REESS requirements for whole vehicle post-crash

5.2.3.3. Fire hazard

For a period of 1 hour after the crash test,; UL:EVS-03-12][As a result of the crash test, ; UL:EVS-03-12] there shall be no evidence of fire or explosion of the REESS.]

Response: It would be preferable if there was no evidence of fire or explosion after a crash. However, since this is representative of a crash scenario it may be acceptable if there is no fire after 1 h as noted above since that should be enough time for first responders to arrive on the scene and get victims out of the damaged car, and that there is no explosion with sufficient force to injure first responders and others in the area. Although explosion is defined in the draft, it would probably need to be quantified for testing, in some manner.