
TC22 SC37 WG3 Liaison Report for EVS-GTR Thermal Propagation Work Item

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Jan-2019



Introduction

□ AAT & BJI participated in one TC22 SC37 WG3 meeting on Thermal Propagation since EVS 16th session:

- 22-23 Oct-2018, Versailles, France

□ 8 national standards organisations represented, plus one guest:

- China (CN), France (FR), Germany (DE), Japan (JP), South Korea (KR), Sweden (SE), UK and USA
- Canada (guest)

□ Twin development themes continuing in parallel

- Test method development
 - Multiple triggering concepts across various sponsors
- Standardised methodology for “Documented Approach”
 - SE lead

Note: Expectation that both concepts to be included in ISO 6469-1 amendment.

WG3 Activity – Versailles Meeting

□ New definition proposals discussed:

- Internal Short Circuit - ✓ (Definition agreed)
- Thermal Event- ✓ (Definition agreed)
- Thermal Runaway - ✓ (Definition agreed)
- “Worst case” ISC (time/energy release) - ✗ (Agreed NOT to define due to complexity)
- Internal [cell] failure - ✗ (Definition NOT agreed)

□ Agreement to draft candidate test procedures by next meeting

- Various trigger method short-listed
 - Internal micro-heater (FR)
 - Internal Short Circuit Device (US)
 - Nail penetration (CN, DE & KR)
 - Heater [conventional] (JP & KR)
 - Self-heating [resistor] (CN)
 - TRIM heater (SE)
- Further studies also agreed
 - Laser heating (JP)
 - Chemical heating [cell replacement] (DE)

□ Draft standard/guideline for “documented approach”

- Being restructured by SE (AAT) for submission/circulation Jan-2019



Summary & Conclusions – Versailles Meeting

Most mature methods (plural) to be written in to ISO 6469-1 Amendment 1st Ed.

- Promising but less mature methods to be considered up to DIS draft finalisation, circa Dec-2020
- Target publication date Mar-2022

Next steps

- WD1 now to be drafted following next meeting

Next meetings:

- 5 to 7-Mar-2019, S. Korea
- Autumn/Fall meeting dates tba, EU (likely DE in absence of further offers)