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

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Jan-2019



Introduction

❑ AAT participated in one TC22 SC37 WG3 meeting on Thermal Propagation since EVS 17th session:

- 3-5 Mar-2019, Jeju, S Korea

❑ 6 national standards organisations represented, plus one guest:

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

❑ 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.

❑ Next meeting in Europe, 27-29 Nov-2019

WG3 Activity – Jeju Meeting

□ Review of draft candidate test procedures

- Internal micro-heater (FR)
- External high rate micro-heater (CA)
- External micro-heater (JP)
- Self-triggering (CN)
- Chemical heating [cell replacement] (DE)

□ Review of draft standard/guideline for “documented approach”

- Restructured methodology guidelines
 - Scope split between ISO 6469-1 AM1 (REESS thermal propagation safety) and ISO 26262 (Functional safety electrics/electronics)
- Template development to support documentation of Safety Case for Thermal Propagation of REESS
 - Cell level
 - REESS level
 - Vehicle level
 - Recommendation statement

Next steps – Development of WD1

☐ Most mature methods (plural) included in WD1 (Jun-2019)

- Internal heater (FR)
- External high power heater “TRIM” (CA)
- Methodology approach (SE)

☐ Test methods under development – to be merged into WD/CD ISO 6469-1 AM1 when reaching sufficient readiness

- Self triggering (CN)
- External Heater (JP, South Korea)
- Cell replace / Heating (DE)
- Nail (DE, CN, South Korea)
- Internal Short Device (US)

☐ Test methods in research phase – early stage of development

- Cell replace / Chemical (DE)
- Laser (JP)

Timeline of ISO 6469-1 AM1

- ❑ 36 months project: Apr-2019 – Apr-2022
- ❑ Further development of test methods in parallel with WD
- ❑ Implementation of new methods continually during WD and CD phase

WD stage from 2019-04
until 2020-04

CD-Stage
2020-04
until 2021-02

DIS Stage
2021-03 until 2022-04