

Expert Working Group:
Harmonisation and improvements to the FCO test procedures
(STANAG 4240)
Terms of Reference 2020 (excerpt)

1)Board Sponsor: **Gareth Flegg**, VP for the UK

2)Chairman: **Marie De Bats**

3)Task Definition:

Due to the environmental impact of burning jet fuel, an alternative procedure using a gas fuelled heating source has been introduced in edition 3 of the STANAG. Any test configuration developed to use an alternative fuel shall be properly calibrated and a minimum net absorbed heat flux of 80 kW/m² shall be demonstrated for a valid test fire.

This is a significant change in fire standards. This topic will still concentrate the attention of the FCO EWG for the coming year.

Main objectives of the group are:

- Objective #1: Califlux tool maturation
- Objective #2: FCO procedure harmonisation
- Objective #3: Communication on group activities

Task definition is dedicated to fulfil the above objectives.

Objective #1: CALIFLUX tool maturation

- a) Tool calibration continuation
- b) Contact with fire laboratories, review of opportunities to expand the tool use outside the AOP4240 needs
- c) Analysis of FCO trials results, synthesis on tool capabilities

Objective #2: FH procedure harmonization

- a) Collect / Continue FCO database (Europe / US / etc.)
- b) Compare SFT/AFT results: heat fluxes levels and distribution, reaction levels
- c) Alternative test facilities: list the parameters that would lead to a recalibration of the facility, if changed

Objective #3: Communication on group activities

- a) Preparation of a synthetic presentation on new AOP4240 (for communication purpose within IMEMG member companies)
- b) Discussions with MSIAC and NATO representatives
- c) Reporting to IMEMG (Board, GA)

4) Deliverables:

- a) Synthetic presentation on new AOP4240 (July 2020)
- b) Group report: synthesis report on CALIFLUX progress (December 2020)