

PROTECTING FIREFIGHTERS

PROTECTING FIREFIGHTERS through the development of a gender based integrated PPE assessment facility

HOW WE CAN HELP TO PROTECT ALL FIREFIGHTERS

Gender based integrated PPE assessment facility using flame engulfment manikins

BTMG Fire Technology Services has upgraded its well known RALPH fire test manikin

The new test facility has the following features:

- Interchangeable male and female form manikins
New **RALPH*** now joined by **SOPHIE***
- Each manikin able to be dressed realistically with clothing, gloves, fire hood, helmet, breathing apparatus
- Each manikin is fitted with 130+ heat sensors
- Each manikin fitted with heat sensors in all regions except the feet and therefore having sensors in the neck, head and hands
- Each manikin fitted with higher density of sensors at PPE interface regions
- Compliant with draft test method **EN ISO 13506: 2005**: Prediction of Burn Injury using an instrumented manikin
- Compliant with aims of ISO Committee TC94/SC14: Firefighter's Personal Protective Equipment
- Produces body map colour coded printout of predictions of pain, and first, second and third degree burn injury regions
- Able to assess PPE ensembles for all fire related activities - Fire and Rescue, Industrial, Military, Police
- Test viewing access for clients and/or video recording
- Installed in dedicated fire test laboratory close to Manchester Airport and motorways

Over 15 years of development and use of three generations of manikin test equipment

Represented on CEN and ISO project teams for fire test manikins

Manikin test programmes to customer requirements
- for research
- to meet specifications
- to compare tender submissions

The most experienced independent laboratory team for developing and using fire test manikins



* RALPH

"Research Aim Longer Protection against Heat"



FIRE
TECHNOLOGY
SERVICES