

Jason Hill

CEng, CMEngNZ, FIFireE, MFireInv, MSc, BSc(Hons), IFE SIG IF&R Chairperson

Jason's is a Chartered Fire Engineer with National Security Clearance (SC) and a career that extends to international work gaining extensive fire engineering and fire safety experience providing technical excellence within highly regulated industries, such as Nuclear.

Jason is an active member of many fire professional communities, he Chaired the Nuclear Industry Fire Safety Coordination Committee (2017 – 2019), he is also the Chair of the Institution of Fire Engineers (IFE) Special Interest Group for Industrial Fire and Risk, he is a Senior Examiner for the IFE, Charter applicant peer reviewer and a BSI Committee member for 7974-6.

Jason leads by example, in 2017 brought to life and hosted the UK's first Nuclear Industry Fire Safety and Risk Colloquium, with many distinguished speakers resulted in a truly international reach with delegates from all continents. Jason was also the Senior Fire Engineer at Horizon Nuclear Power providing fire safety advice and oversight for the UK's New Nuclear Development at Wylfa North Wales, which included emergency preparedness support, overarching fire strategy, site specific fire strategy, fire management policies and produced functional specifications for tender.

Jason has also brought to life fire educational platforms and tools such as FRED (Fire Related Educational Development) Talks aimed to provide detailed understanding through discussion and experiments, these talks are accredited with IFE CPD.

Other developments include; The Fire Safety Scheme, which provides oversight and governance to fire risk assessment undertaking.

YES – Young Engineer and Scientist, Developed and produced YES journal, supported by the IFE aimed to help students (ages 5 – 18) relate Science Technology Engineering Mathematics (STEM) topics with industry. The content takes everyday engineering problem (with a fire link) to show the application and importance of STEM, such as aircraft material science engine fire, fires in space, building fire spread.

Primary Expertise

Fire Safety Strategy – led the development for Horizon Nuclear Power's site-specific fire safety strategy, which included benchmarking this work against other Nuclear Power Stations, such as reference plant TEPCO facility at Kashiwazaki-Kariwa in Japan and Exelon facilities in Chicago.

Human Behaviour - Detailed understanding for human behaviour during fire, as BSI committee member his work supported new development of 7974 Part 6:2019, application of fire safety engineering principles to the design of buildings. Human factors. Life safety strategies. Occupant evacuation, behaviour and condition

Fire Investigation and Engineering Analysis – undertaken a number of fire investigations to ascertain likely sources of ignition and provide detailed understanding to clients to ensure corrective actions are undertaken to prevent any such reoccurrences.

Impact Assessment – provided fire understanding to assist problem solving and risk evaluation

Assisted Government working groups

Assisted government working groups for fire engineering, working group 3 (Fire Engineering) and working group 4 (Fire Risk Assessment) to author the competency criteria for fire risk undertaking and authorship of approved code of practice for fire risk undertaking.

IFE co-member of PAS9980:2021 Fire risk appraisal and assessment of external wall construction and cladding - Code of practice. A technical Steering Group

BSI – Technical steering group member for means of escape for disabled people

BSI – Technical steering group member for construction technologies, design and usage



Qualifications & associations

- CEng 655712
- CMEngNZ 1029672
- RICS 6956158
- CABE C.Build E MCABE 66989165
- FIFireE 00022807
- MFireInv 141271
- MSc Fire Investigation and Fire Explosion
- BSc (Hons) Fire Engineering
- IFE IF&R SIG Chair
- Legal Experience Training
Advanced Professional Award in Expert Witness Evidence (LETAPAEWE) level 7 (Masters level)

Primary Expertise

- Fire Safety
- Fire Engineering
- Fire Impact Assessment

Related Experience

- Assisted in the development of the IFE level 3 passive fire protection examination paper
- Lead the development of the site-specific fire safety strategy Horizon Nuclear Power Station at Wylfa
- Chemical fire analysis within various industrial facilities
- Developed fire safety and fire science educational material
- Senior examiner for Institution of Fire Engineers
- Technical Advisory Group member for Institution of Fire Engineer
- Review Charter Applicants for Institution of Fire Engineers
- Chair of Industrial Fire & Risk Special Interest Group for Institution of Fire Engineers
- IFE Ethics Committee Member

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External Wall Analysis

Jason has applied safety case analysis, fire engineering and material science understanding to conduct external wall analysis for buildings of all sizes. Information requested from clients for this undertaking include:

Supporting information requested from clients:

- Architects wall makeup, both sectional and elevations (including attachments to the wall/balcony)
- Architect drawings/as built detail for cavity barrier location
- Architects material selection of wall makeup, attachments and cavity barriers
- In lieu of physical inspection (Most buildings are inspected) of the building by the signatory of the EWS form (i.e. Jason Hill) photographic evidence is required of the building outside showing various elevations and if there are any taken during construction that would be most helpful evidence of systems employed
- Manufactures' material selection fire classification certificates, (BBA, and any other style certificate to provide confirmation as per MHCLG guidance notes)
- Confirmation (As Built) drawings
- Building control sign off
- O&M manuals
- Fire strategy used for the development of the project (Final version)
- Fire risk assessment

The report produced is a factual detailed analysis of the wall make up using an applied investigation methodology that includes; the classification of materials, industry best practise, the manufacture of materials and type, certification for materials, third party test facilities reports, review against compliance at the time of build and reflection for MHCLG guidance.

Should you wish to know more please don't hesitate to contact me.



Kind regards

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