

Fire Guidance UK LLP

Company profile 2013

20130613



**Fire Protection
Association
MEMBER 2013**

History

Fire Guidance UK LLP was formed in 2012 to provide a flexible, customer targeted approach to the application of Fire Safety Engineering for projects of all sectors and sizes.

Fire Guidance UK LLP is not affiliated with any other organisation or company and can truly be described as an 'independent', offering a gamut of Fire Safety Engineering Services to a wide range of clients including construction contractors, architects, building services engineers, building managers and private individuals.

Since incorporation in 2012 Fire Guidance UK LLP has established a portfolio of clients in a number of sectors covering a variety of project types ranging from fire risk assessment to full fire strategy development.

Current and past experience within Fire Guidance UK LLP spans over 25 years in fire and safety related industries and consultancies with projects ranging from single occupancy fire risk assessments to the provision of Fire Safety Engineering services for a complete town centre regeneration project.

Services

Bid Assistance

During the bid stage of a project the possibility exists to identify areas that could be subject to value engineering.

Value engineering must at all times ensure that the fire safety of the eventual building occupants is not compromised but at the same time the cost of such provisions is not excessive or prohibitive.

Fire Safety Engineering at this stage of a project can identify any potential major risks relating to fire safety and also determine whether capital or on-going running costs can be reduced whilst still maintaining a suitable level of fire safety inherent in the design.

Design Stage

The design stage of a project, irrespective of type or size is the point where Fire Safety Engineering is of most benefit to the team.

Close liaison with all members of the design team ensures a coherent and holistic approach to fire safety is taken and maximum benefit in terms of building use realised.

During the design stage the project will involve a number of Local Authority representatives who will need to be satisfied that the functional requirements of the Building Regulations are being met. Fire Safety Engineering is used to demonstrate compliance and a documented fire strategy report together with plans indicating compartmentation and other fire safety provisions are generated for approval. The role of the Fire Safety Engineer is to ensure that an interface exists between the design team and the Local Authority and to provide evidence to that Authority to substantiate the fire safety measures included in the project.

Construction Stage

Fire engineering is not usually considered during the construction stage of a project however it is important to ensure that any fire safety measures designed into the building are implemented correctly. To that end site inspections and construction team support can be advantageous to the build process, minimising problems that may need to be addressed prior to practical completion and handover.

Fire Safety Strategy

Every building needs a fire strategy. In its simplest form the fire strategy may be nothing more than a statement of design however for more complex buildings, buildings with a higher than normal fire risk or buildings with special classes of occupants are involved a fully documented fire strategy is necessary and required by Regulation 38 of the Building Regulations 2010.

The fire safety strategy conveys detailed information relating to the provisions that have been included for the safety from fire of a building's occupants and any measures pertaining to operational continuity and capital loss minimisation in the event of a fire.

Fire Engineering

Fire engineering involves the understanding not only of fire but also the reaction to fire of people and building fabric.

The application of fire engineering principles can be simple or complex depending on the subject to which they are applied and the required outcome. The basic premise is that the resulting fire safety provisions meet the requirements of the Building Regulations where required and also the aspirations of the client or end user.

Blind application of recommendations contained in published guidance can in some instances lead to fire safety measures being implemented that may not actually be necessary to safeguard a building's occupants from fire. A fire engineered approach ensures that a value for money scheme can be realised without detriment to fire safety.

The role of the fire engineer involves not only the generation of a fire strategy but also supporting the design team, construction team, client and providing an interface between the project and relevant approving Authorities on matters related to fire safety.

Services

Fire Risk Assessment

The introduction of the Regulatory Reform (Fire Safety) Order 2005 saw the demise of fire certificates that were once issued by the Local Fire and Rescue Service for certain kinds of premises.

The RRO places an onus of responsibility on a premises owner/manager/occupier to provide an environment that is safe for occupants and those who may occasion the vicinity of the premises from fire. The responsibility is a legal requirement that also includes the provision and maintenance of any fire safety measures for the building.

Virtually all buildings (there are exceptions such as crown property, places of detention, military installations etc.) are required under the RRO to have a fire risk assessment in place at all material times. The purpose of the fire risk assessment is to ensure that suitable and sufficient fire precautions and fire prevention measures are implemented based on the nature and vulnerability of the occupants, the building complexity and building use.

Applicable buildings with more than 5 occupants/employees are required by the RRO to have a fully documented fire risk assessment that is periodically reviewed and re-visited. This risk assessment report must be available for Local Fire and Rescue Service inspection at all material times given suitable notice.

Computer Modelling

Computer modelling of fire scenarios is a relatively new development in fire engineering that is advancing all the time, ranging from the application of basic fire phenomenon related calculations through zone models to field (CFD) models.

In the vast majority of projects there will be the need only for basic scenario modelling however the more complex a building is designed and the further from published guidance the design strays, more complex modelling techniques become necessary.

At the far end of the modelling scale is CFD modelling which entails the generation of a 3-dimensional geometric representation of the building together with a time based definition of a design fire. The fire engineer can then interpret the results from the model using raw data or visualisation software and determine whether the fire safety provisions included are adequate to meet the requirements for the building.

It should be noted that most CFD models use up extensive resources in generating the input required and then days or even weeks to carry out the computer operations required, such is the complexity of CFD.

Fire Guidance UK LLP has an expandable, dedicated computer array purposely built for CFD modelling.

Past and present experience

AVIATION

RAF Mildenhall fuel filtration facility; Southampton Airport international departures lounge.

COMMERCIAL/OFFICE

33 Grosvenor Place, London; 54 Portland Place, London; 77-78 Wimpole Street, London; 83-84 Wimpole Street, London; Berkley Square House, London; BP Headquarters, Aberdeen; Fleetway House, London; Hope Street, Liverpool; Portland House, London; Project Tango, Bishopbriggs; Richmond Station conversion, Yorkshire; 66-72 New Cavendish street, London; Paul Street, London; 47-51 Queen Anne Street, London; 1-3 Bedford Place, London.

EDUCATION

Barnet College; Barnfield South and West Academies; Beaucamps School, Guernsey; Blackburn College; Bournemouth & Poole College; Bridge academy, Hackney; Darwen Vale High School; Pleckgate High School, Blackburn; St Bedes School, Blackburn; Witton Park School, Blackburn, New East Blackburn School; Clarendon Primary School, Bolton; Derby Moor Sports and Community College; Noel Baker and St Martin's School, Derby, Bolsover School, Derbyshire; Springwell Community School, Derbyshire; Dunblane High School; Dyke House School, Hartlepool; Hollymount School, London; John Moores University, Liverpool; Le Rondin School, Guernsey; Guildersome Primary School, Leeds; Greenhill Primary School, Leeds; Oulton Primary School, Leeds; Richmond Hill Primary School, Leeds; Sts Peter and Paul Primary School, Leeds; Bonus Pastor Schools, Lewisham; Deptford Green School, Lewisham; Alsop High School, Liverpool; Gateacre High School, Liverpool; West Derby & Ernest Cookson School, Liverpool; Livity School, London; Maesteg Comprehensive School; Buglawton School, Manchester; Castlefield School, Manchester; Communications Academy, Manchester; Cooperative Academy, Manchester; Creative & Media Academy, Manchester; Enterprise Academy, Manchester; Gorton Education Village, Manchester; Health Academy, Manchester; King David's School, Manchester; Levensulme & Acacias School, Manchester; New Burnage Academy, Manchester; New East Manchester Academy; Newall green School, Manchester; Our Ladies School, Manchester; St Paul's School, Manchester; McClaren High School, Stirling; Myrtle Springs Academy, Sheffield; Nailsea Pathfinder School, Bristol; Raploch Community Campus, Stirling; St Bartholomew's School, Newbury; St Matthew's Academy, London; St Modan's High School, Stirling; Stirling High School; Stockbridge Village School; Stockport Academy; Cooperative at Brownhills Academy, Stoke; Swindon Academy; Teddington school; University of Huddersfield Business School; Wallace High School, Stirling; Waltheof Park Academy, Sheffield; Wren Academy, Finchley; Ormiston Gateway Free Primary School, Essex; Holden Lane School, Stoke; Ipswich Academy; Our Lady & St John Catholic College, Blackburn; Aylesbury Vale Academy; St Margaret Ward School, Stoke; Kearsley Academy; Thistley Hough School, Stoke; St Joseph's School, Stoke; Birmingham University NSSH.

HOTEL

Barton House Hotel, Bristol; Express by Holiday Inn, Hull; Gainsborough Hotel, Bath; Grange St Paul's Hotel, London; Grange Tower Hotel, London; Midland Hotel, Morecambe.

INDUSTRIAL

Dupont Nylon NBP, Middlesbrough; Dupont Nylon Nitric Acid Plant, Middlesbrough; Hullet Aluminium Rolled Products, South Africa; Indian Ocean Fertilizer, South Africa; Savonetta Pier, Trinidad & Tobago; Wind Turbine Blade Technology Centre, Isle of White; Nacelle Production Facility, Hull; Eastham Bitumen Refinery; Inverness Oil Terminal, Lerwick Oil terminal; Aberdeen Oil Terminal.

Past and present experience

LEISURE

ABC Concert Venue, Glasgow; Cumbria Archive; Hull History Centre; Kirkdale Community centre; Orangebox, Halifax; Longsight Library; Our Place, Huyton; Valentines Mansion, Ilford; Woodhorn Mining Museum, Northumberland.

MIXED USE

Heritage Works, Halifax; High Street, Wimborne; Lamb Street, London; Princesshey Shopping Centre, Exeter; St Stephen's (Ferensway) Centre, Hull; Phse 3 The Grand, Wigan; 227-231 Wimbledon Park Road, London.

POWER

Blackpoint Power Station, Hong Kong; Bristol CCGT; Connah's Quay Power Station; Croydon CCGT; Derby COGEN Power Plant; Duvha Power Station, South Africa; Exter CCGT; Fort Dunlop CCGT, Birmingham; Ho-Ping Power Station, Taiwan; Majuba Power Station, South Africa; Manjung Power Station, Malaysia; Marmara Power Station, Turkey; MPC Qatar; Ombilin Power Station, Indonesia; Port of Liverpool CCGT; Seal Sands CCGT, Middlesbrough; Shajao C Power Station, China; Uskmouth B Power Station; Winnington CCGT; Beddington EfW bid, London; Sleaford Biomass Power Plant; Gloucester EfW bid.

RELIGIOUS

Rylands Hall, Manchester; Salaam Centre, Harrow;

RESIDENTIAL

Lakeshore Imperial House, Bristol; Maine Road, Manchester; Paragon Complex, Brentford; Westminster Theatre Residential Scheme; THT Extra Care, Trafford; Mallard Court Extra Care, Stockport; Alamein Road Extra Care, Sale; The Meadows Student Accommodation; 240 Burlington Road, London; Slater Street Extra Care, Stoke.

Fire Guidance UK LLP

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