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PROFILE

Director in charge of Insurance Services Division providing engineering, quantum and other specialist advisory services to the Insurance Industry. Over 25 years experience in the design, management and construction of heavy civil and structural engineering projects in the United Kingdom and Overseas and provision of Insurance Advisory Services to Loss Adjusters, Solicitors, Insurers and Re-Insurers.

Since 1999, Matthew has worked exclusively on insurance losses, initially as Principal Civil / Structural Engineer and latterly as Engineering Manager on a variety of major UK and International losses. Has been involved in the management and co-ordination of multi-disciplinary teams providing a wide range of engineering, geotechnical and quantum and costing advice in relation to Property Damage. Provided the detailed civil and structural engineering input on many of these Losses and also the production of notional reinstatement timelines and critical path programmes for losses involving Business Interruption.

Work has included carrying out post-Loss damage surveys; co-ordinating the engineering and costing team's responses; leading engineering input to quantity surveyors for the provision of quantum and cost assessments; reviewing the Insured's proposed reinstatement budgets, purchase orders, tenders and reinstatement programmes; production of notional reinstatement works programmes as comparison to the Insured's own programmes; assisting when required with specific input on Contents and Business Interruption matters; detailed review of documentation provided by the Insured and close liaison with their advisors; and supporting Insurers and Loss Adjusters at meeting with the Insured and Insurers / Re-Insurers.

Prior to this was involved in the detailed design and construction supervision of a variety of reinforced concrete and structural steelwork structures mainly relating to power stations (thermal, combined cycle and nuclear) and desalination plants, but also including a variety of commercial and retail developments. Involved in all stages of projects from conceptual designs, option studies, outline design, production of tender documentation, detailed design, supervision of production of construction drawings and on-site supervision of construction works.

Major explosion at an adjacent fireworks and munitions factory causing significant damage to a 28 Te charge 2-chamber aluminium smelter and associated burner, charging, casting and emissions bag house facilities.

Countries Worked in: Belgium, Chile, Cyprus, Denmark, Czech Republic, Egypt, France, Germany, India, Kingdom of Saudi Arabia, Morocco, The Netherlands, Peoples Republic of China, Portugal, Poland, Qatar, Spain, Sweden, Thailand, Turkey, Venezuela.

EDUCATION

BSc (Hons) - Bachelor of Science (Honours) degree in Civil Engineering, University of Surrey.

AMICE - Associate Member, Institution of Civil Engineers.

RECENT PROFESSIONAL EXPERIENCE

2019 to date – Envista Forensics – Senior Principal Consultant

2012 to 2019 – McLellan and Partners Ltd, Divisional Director – Insurance Division

2014 to 2015 – Interested Insurers / Re-Insurers via The Richard Hartley Partnership, Ferrybridge Power Stations, UK, Fire Damage Loss

Severe fire during maintenance works causing widespread and significant damage to a gypsum slurry FGD Absorber unit, flue gas ductwork, gas-gas heat exchanger and associated electrical, instrumentation and mechanical services.

2013 to 2014 – The AIG via The Richard Hartley Partnership – Thames Water Utilities Ltd Flood Damage Losses) Heavy rainfall throughout December 2013 and January 2014 led to extensive and widespread flood water damage to an initially estimated 8-900 no. assets spread across a 85m long by 53 mile wide area. Multiple site inspection teams assessing varying degrees of damage to electrical, mechanical and structural installations at a water supply aqueduct, 4 no. water treatment works, 28 no. sewage treatment works and 400-plus no. sewage pumping stations (circa 100 visited). Also assisted with review of records to determine if dates and locations of flooding indicated one continuous or multiple events.

2013 to 2015 – Interested Insurers / Re-Insurers via Crawford and Company Ltd, Major Brewery Facility, Denmark, Storm Damage Loss

Storm damage to a fully automated 75,000 pallet high bay warehouse facility. Working closely with the Insured, their technical experts and the OEM to complete extensive structural design review works to determine the increased stresses in the structure following permanent deformation of the main structural bracing towers and pallet racking. This eventually enabling agreement of necessary repair and reinforcement works as opposed to total demolition and rebuilding.

2013 to 2014 – The AIG via The Richard Hartley Partnership, Beddington Sewage Treatment Works, UK, Fire Damage Loss

Major fire in the main CHP facility affecting the dual fuel CHP engines, power house building and other ancillary facilities and electrical distribution networks.

2013 – Interested Insurers / Re-Insurers via Uri Nass Ltd / Cunningham Lindsey International, Profal Limited, Israel, Explosion Damage Loss

2013 to 2014 – Interested Insurers / Re-Insurers via Integra Technical Services, Stanlow Refinery, Ellesmere Port, UK, Fire Damage Losses

Two separate major fire losses involving the demolition and replacement of a large convection bank to the Platformer Unit, and the partial demolition with extensive temporary support and repair works to a furnace to the Crude Distillation Unit.

2012 to 2013 – AVIVA via Crawford and Company Limited, Portimao Retail Park, Portugal, Fire Damage Loss

Severe fire damage to circa 22,000 sq.m retail park building resulting in total destruction of superstructure, including assessment of impact of local code compliance, reconstruction permitting, Tenant fit-out agreements and reinstatement timelines.

PREVIOUS EXPERIENCE

ASG Retail Park, Poland, Fire Damage Loss. Fire destroyed 2,500 sq.m of retail space and further smoke and fire fighting water damage to adjacent retail spaces.

Qatalum Aluminium Plant, Mesaaeid city, Qatar. Fire destroyed the GRP superstructure and forced draft fan equipment to large 178m long by 32m wide 22 No. cell cooling tower to captive CCGT Power Plant. Works included detailed review of status of construction handover documentation and impact of vibration issues on cooling tower integrity at time of transfer from construction to operational policy.

Atlantic LNG Facility, Trinidad. Review of causation and reinstatement works costs following damage to LNG train molecular sieve beds and mercury absorbers following amine liquid carry over.

Shoreham Power Station, Fuel Gas Compressor Fire Loss. Assessment of damage and reinstatement options for equipment and buildings following explosion and subsequent fire.

Mouchel Limited (formerly Mouchel Parkman Services Ltd, Mouchel Consulting Ltd and L G Mouchel and Partners), Divisional Manager, formerly Graduate to Principal Engineer.

Brynglas Tunnel Fire, Wales. Assessment of repairs to civil works and M&E services within the west bound bore of 370m long dual carriageway tunnel following vehicle fire.

Vassilikos Power Station, Cyprus, Explosion Damage Loss. Assessment of scope of damage, reinstatement contract review and validation of reinstatement costings to large number of power stations buildings, tankage, equipment and infrastructure following severe damage due to a major explosion at an adjacent site.

PDVSA Cardon Refinery, Venezuela, Jetty Fire Loss. Severe fire damage to head of circa 525m long unloading jetty resulting in total loss of ship unloading equipment and 50m of jetty concrete deck structure.

Ras Laffan LNG Port Berth 4, DEF Loss. Review of causation (later confirmed as Delayed Ettringite Formation) and reinstatement options following progressive cracking to mass concrete blocks forming berthing / mooring dolphins and loading platform structures.

London and Graham Miller (Crawford) Chile, Earthquake and Tsunami Losses, Bio Bio Region, Chile. Assessment of Property Damage to buildings, equipment, services and other infrastructure to multiple affected sites of 4 No. major fisheries businesses following 8.8 Richter scale earthquake and associated tsunami waves. Including refrigerated and ambient warehousing, fish meal production, animal and human consumption fish product production, fish oil extraction / storage, canning and despatch facilities.

Arkadia Shopping Mall, Cairo, Fire Damage Loss. Severe fire, smoke, fire fighting water and looting damage to a 9-storey, 76,800sq.m shopping mall following the Arab Spring uprising of January 2011 (450 No. units including retail outlets, foodcourt, children's entertainment area, offices and banking areas).

Kerry Ingredients Loss, Stirling, Storm Damage and Wild Yeast Infestation Loss. Review of causation of wild yeast infestation of process pipework in food additive production facility following rainwater leakage arising from storm damage to buildings / roofs.

RPC Packaging, Kerklade The Netherlands. Investigation of cause of collapse of 1,850sq.m steel portal frame warehouse following period of heavy snowfall in December 2010.

Henri Van Der Bilt Vleaswaren, Weurt, The Netherlands. Severe fire destroyed 8,000m² food processing and warehouse facility, including all processing equipment, and smoke/fire fighting water damage to adjacent office / administration building and warehouses.

Qatalum Aluminium Plant, Qatar. Investigation of causation of total power outage of in-house 1,350MW CCGT power plant to 275,000Te / year aluminium plant.

Sappi Paper Mill, Germany. Fire damage to complex automated paper mill machinery including control systems and power supplies.

Technology Solutions Aberdeen Flood loss. Review of cause of river flooding of industrial site due to 'failure' of recently modified flood defences to protect the site.

Bunge Rapeseed Oil Plant, Mannheim, Germany. Review of structural damage following a fire in oil press equipment housed in a 6-storey brickwork clad wrought iron structure with unreinforced jack-arch concrete floor slabs, constructed in circa 1906.

Whitesmith In-Vessel Composting Facility, UK. Review of causation and scope of remedial works to repair cracking to reinforced concrete structures during the final wet-commissioning stage of new municipal waste composting facility, including the main composting tunnels and fibre reinforced floor slabs. Including advice on impact of local Authority and Animal By Products legislation and later review of causation / extent of premature failure of protective paint systems to steelwork structures and cladding.

Millennium Business Centre Fire Loss, Bucharest, Romania. Major fire to 18-storey (with 4 basement levels) prestigious office building in central Bucharest resulting in widespread and varying degrees of fire, smoke and fire fighting water damage and considering the impact of local codes and legislation.

Prestige Mall Flood Loss, Istanbul, Turkey, Engineering Co-ordination, Senior Civil / Structural Engineer and Reinstatement Works Programmes. Flood damage to two basement levels (12,400m²) of a prestigious shopping centre in the Bahçeşehir District of Istanbul following exceptionally heavy rainfall in September 2009.

Longannet Power Stations, Scotland – GRP Pipe Failure and Fire Loss to FGD Units. Two separate losses occurring during final commissioning stage of the newly constructed Flue Gas Desulphurisation Units. Major fire in the Unit 3 absorber structure resulting in severe heat and smoke contamination to the concrete absorber shell and 400Te Gas-Gas Heat Exchanger, requiring their complete demolition and rebuild on the retained floor slab and foundations. Explosive failure of bell-and-spigot joint to large diameter GRP seawater supply pipelines to Unit 1 during final pressure testing.

UMEA University Flats Fire Loss and Landic Shopping Centre Fire Loss, Sweden. Severe fire, originating in roof loft space, causing varying degrees of damage to 71 flats over 4 storeys in a U shaped building of 6,500sq.m total floor area. Severe fire damage to anchor Supermarket store (circa 6,000 sq.m) and smoke / fire water damage to other adjacent retail park properties.

Royal Marsden Hospital, Chelsea Wing Fire Damage Loss. Severe fire affecting three number wards, roof plant room and CCU unit.

Abattoir Fire Damage Loss, Engineering Co-ordination, Senior Civil / Structural Engineer and Reinstatement Works Programmes. Major fire causing varying degrees of damage to approximately 2,700 sq.m of 5,600 pigs per day abattoir facility in the centre of the north-western Danish town of Skive.

New York, Goodyear (Thailand) PLC, Bangkok, Thailand – Fire Damage Loss. Severe fire in the basement of the Banbury Mixer No.1 area causing significant fire damage to approximately 3,500 sq.m of the Compound Mixing Area of major tyre production facility. A further 7,000sq.m of the Component Preparation area was smoke damaged involving repairs to the control equipment.

Danish Crown, Blans, Denmark – Abattoir Fire Damage Loss. Major fire causing varying degrees of damage to approximately 7,200 sq.m of this 10,000 pigs per day abattoir facility in the centre of the south-eastern Danish town of Blans.

Ecoparc II, Barcelona. Causation review of process and damage to large concrete anaerobic digestion structures following severe cracking concrete shells.

Total Kallo Refinery, Antwerp. Causation and contamination investigation following collapse of 40,000m³ (55m diameter, 18m high) steel oil storage tank.

Collahuasi Copper Mine, Chile. Engineering, quantum and critical path timeline review of electrical failure and replacement of 400Te, 21MW SAG mill stator.

Keystone Distribution UK Ltd Facility, Hemel Hempstead, UK. Engineering assessment and coordination of blast wave damage to blast wave damage to 9,000sq.m ambient and refrigerated storage & distribution centre affected by the 2005 Buncefield Oil Depot explosion.

Northgate Information Solutions Ltd, Hemel Hempstead, UK. Engineering management of blast and fire damage to large four storey data-centre building affected by the 2005 Buncefield Oil Depot explosion.

Mountbatten Building, University of Southampton, UK. Engineering Management (joint) and structural assessment of major fire damage at Optronics Department Clean Room research facility and associated Administration and Laboratory Block.

OMIFCO Fertiliser Plant, Sultanate of Oman. Causation investigation of craking in foundation of 45m diameter steel tank during testing.

Sea Way PEPP Plant, Vlissingen, The Netherlands. Engineering coordination and structural engineering following fire in multi-storey plastics reprocessing plant.

Kimberly-Clarke Northfleet RDC Warehouse, Northfleet, Kent. Engineering manager for all disciplines following fire damage to 21,500 sq.m distribution centre and warehousing (in former paper mill building).

Goodyear Tyre Factory, Philippsburg, Germany. Assessment of civil / structural damage and engineering coordination other disciplines following major fire affecting 17,500sq.m of tyre building and finished product storage areas.

Samir Refinery, Mohammedia, Morocco. Assessment of civil / structural damage and engineering coordination other disciplines following extensive flood and fire damage to refinery plant.

IBIS Hotel, Prague. Damage assessment to 210 room city centre hotel following floods os 2003.

Chemical Fertiliser Factory, Toulouse, France. Assessment of civil / structural damage to circa 250 No. buildings following 2001 explosion.

Earthquake Damage Losses, Turkey - Pirelli Tyre Production Facility, Pepsico Foodstuffs, Petkim Petrochemical Production Plant, Turkey. Assessment of civil / structural damage following the 1999 7.4 Richter scale earthquake in Izmir.

Project Manager and/or Structural Engineer on wide variety of civil and structural engineering projects, from conceptual design and proposal stage to detailed design and site construction. Particular experience relating to Power Station structures including turbine halls and cooling water system structures.

Detailed design projects including:

BAe Stage 3 Wing Production Facility, UK - foundations for 350m long by 70m wide A340 Airbus wing completion facility.

Walpole Reservoir, UK - technical assistance to Engineer's Decision in the settlement of a dispute over the cause of cracking to a reinforced concrete reservoir.

Ling Ao Nuclear Power Plant, People's Republic of China - foundations and cooling water culverts of the Turbine Building for 2 x 1,000MW nuclear power plant including 5 week secondment to supervise Chinese Design Institute.

Connah's Quay CCGT Power Station, UK - Turbine Hall structures and cooling water system for 650MW CCGT power plant.

Chek Lap Kok Airport, Hong Kong - gatehouses and security fence contract.

Ras Laffan LNG Plant CW System, Qatar - 105,000 cum/hr cooling water pumphouse.

Delimara Power Station, Malta - various civil works for 2 x 60MW oil fired power plant.

Design audit services on various projects including:

Changzhou CCGT Cogeneration Power Plant, People's Republic of China (45MW).

Star of the Sea Project, Jeddah, Saudi Arabia (leisure and marine research development).

Jebel Ali 'G' CCGT Power and Desalination Plant, UAE (400MW and 60mgd desalination).

Tendering support to EPC Contractors for various power plant projects including:

Pulau Seraya CCGT Power Plant, Singapore (2 x 370MW); Nowa Sarzyna CHP Plant, Poland (145MW);

Phetburi Thermal Power Plant, Thailand (2 x 700MW); Jiaying Power Plant Phase II and Zhuhai Power Plant,

People's Republic of China (both 4 x 660MW coal fired); Al Wusail Power and Desalination Plant, Qatar

(3 x 150MW oil fired and 40mgd desalination), Shenzhen Power Plant, People's Republic of China (2 x 350

MW coal fired); Alba 3 CCGT Power Plant, Bahrain (660MW).

Construction site supervision works including:

Sizewell 'B' Nuclear Power Station, UK - secondment to Nuclear Electric's Independent Inspection Agency for supervision of construction of the Primary Containment Wall of the Reactor Building.

Kingsnorth Power Station, Kent, UK - Client's Site Planning Engineer for major upgrade of coal handling plant and coaling jetty.

Piling design and assessment of pile test and site works for driven pre-cast concrete piling to Lakeside Shopping Centre, Thurrock, UK and Yueyang Power Plant, People's Republic of China.

Design of diaphragm retaining wall for a large retail and leisure development and numerous geotechnical site investigations for large office developments, large leisure complex, multi-storey car park and housing estates.

Design and construction drawings for a variety of structures including multi-storey structural steelwork portal frames, lattice girders and foundations for a large aircraft hanger (2 No. Boeing 747 aircraft); two storey reinforced concrete office buildings for a major business park development; structural and secondary steelwork for large in-town shopping development.