



Graham Hornby

Associate Director
WSP UK Limited

Career Summary

Graham has recently re-joined WSP after managing an Acoustics Team in Perth, Australia for a global engineering consultancy.

He has over fifteen years experience in the field of acoustics, gained on a variety architectural, environmental and building commissions. These cover a wide range of projects and clients, including industrial, commercial residential and education sectors.

During that time Graham has dealt with numerous acoustic assessments of sub-stations and associated generation and distribution systems, most recently culminating in the appointment on the panel of preferred consultants for Western Power, the state owned electricity generation and distribution provider in Western Australia. Graham also has experience of undertaking noise assessments and mitigation works for generators (including co-generation and tri-generation units) and wind farms.

Graham has experience of managing a team of consultants and project management of large and small projects in Australia, UK, US, Dubai, Qatar, Libya and across Europe.

Professional Qualifications

Education and Training

- 2003 – BSc(hons) Environmental Health – Middlesex University
- 1999 – Post Graduate Diploma in Acoustics and Noise Control
- 2006 – Level 6 Diploma in Occupational Safety & Health

Professional Memberships

- 2003 – Member of the Institute of Acoustics
- 2012 – Member of the Australian Acoustical Society

Selected Relevant Experience

Project Experience

2013 *Western Power, Perth, Australia*

A number of acoustic assessment undertaken for Western Power, the State owned electricity generation, distribution and supply network. Assessment undertaken on substations, transformer houses and temporary and permanent generation plant.

2013 *QEII (Charles Gairdner Hospital) Perth, Australia*

Detailed vibration assessment within an existing hospital to identify the cause of vibration on a ward causing complaint. Subsequent detailed investigation and specification of appropriate remedial works to the steam generation boiler and in particular the type of steam injector used.

2013 *Mesa A & Warramboe Mines Noise Assessment, Australia*

Project managing a site measurements and noise modelling and blast vibration study for an existing mine facility including future expansion proposals.

2012 – 2013 *Wind Farm, Australia*

Overseeing the delivery of a Special Audible Characteristics study for a recently opened wind farm in Western Australia. Studies included sound power level determination for a turbine, a study for tonality and a further study for low frequency noise emissions.

2012 – 2013 *Cape Lambert Port B Noise Assessment, Australia*

Project managing a noise impact study for new process facility as part of a larger 283Mtpa iron ore port project (part of the largest mining project ever undertaken in Australia), including a peer review of a third party noise report and modelling.

2013 *Eon Generators, Australia*

Project managing a study on a number of diesel powered generators for a leasing company in relation to vibration being outside specified limits resulting in higher breakdown rates. Studied a number of machines and identified manufacturers defect resulting in an appropriate repair by the supplier and resolution of the issues.

2011 – 2013 *Old Treasury Building, Perth, Australia*

Lead acoustic engineer for a new build 30+ storey commercial tower in Perth's CBD which included acoustic and vibration isolation of 2 triggen and a further diesel standby generator on Level 18. Responsibility for specifying all attenuators, mufflers, isolators, doors and wall / floor constructions.

2010 – 2013 *Perth Arena, Perth, Australia*

Overseeing the completion and commissioning stages of the iconic Perth Arena project, a 15,000 state of the art multipurpose venue suitable for concerts, sports events etc. Included in the design was a retractable roof which needed to provide high levels of acoustic performance and a number of smaller internal venues. Sign-off of the contractors proposed in-duct attenuators, isolators, doors, wall and roof construction were undertaken.

2010 *Gasification Plant, Derbyshire (UK):*

Provided acoustic assessment and mitigation advice in relation to an application for a gasification plant for the conversion of feedstock to gas, which when then used as a fuel source to create electricity through an on-site generator. Included modelling of impacts on surrounding noise sensitive properties and determination of mitigation measures to reduce impacts.

2010 *Oxfordshire Energy from Waste (UK):*

Provided high level acoustic input into the design of a 300,000 tonne per annum energy from waste process with a view to ensuring compliance with stringent noise related planning conditions.

2007 – 2010 *WEEE Recycling Facility, West Yorkshire (UK)*

Provided support and detailed acoustic mitigation schedules for an industrial process in a residential area under threat of closure due to noise emissions. Resolved noise complaints such that extended hours of operation were subsequently approved.

2008 -2010 *International Bank of Qatar, Doha (Qatar)*

Provided full acoustic design input for a 230m high office tower in the heart of Doha's new commercial district including 4 diesel powered generators operating during office hours to supplement power demands. Responsibility for specifying all attenuators, mufflers, isolators, doors and wall / floor constructions.

2009 *Proposed Open Cast Coal Mine, St Helens MBC (UK)*

Provided expert witness services at a Public Inquiry on behalf of a local planning authority relating to noise impacts for a proposed open-cast mine site in a rural location.

2009 *Waste to Energy Plant (UK);*

Provided acoustic assessment and mitigation advice in relation to an application for an Authorised Process under the Environmental Permitting Regulations. Included modeling of impacts on surrounding noise sensitive properties and determination of mitigation measures to reduce impacts.

2008 *Pilkington Glass (UK)*

Provided expert witness at a Public Inquiry on behalf of Pilkington Glass relating to noise impacts for existing and future operations from one of their sites (including 2 large float glass lines) on an adjacent site which was proposed for residential redevelopment.

Employment History

WSP Group

2013-Present – Associate Director

AECOM Australia Pty Ltd

2010-2013 – Team Leader – Acoustics / Specialisms Leader

WSP Group

2005-2010 – Principal Acoustic Consultant.