

# Curriculum Vitae

## Carl Hawkings

### Profession Experience

20 years as an Environmental Advisor

### Date of Birth

1962

### Position

Consultant

### Nationality

British

### Qualifications and Professional Memberships

*Knowledge – Level (Shell International Health Services, accreditation system) in Health Impact Assessment (HIA)*

Member, Institute of Air Quality Management (IAQM)

Member, Institute of Environmental Sciences (IES)

Member, Environmental Protection UK formerly National Society for Clean Air and Environmental Protection (NSCA)

Member, International Association of Impact Assessment (IAIA)

BSc (Hons) Environmental Sciences, University of London, 1985

### Career History

2000-present: ADM Ltd, UK

2002-2009: Shell (*secondment*)

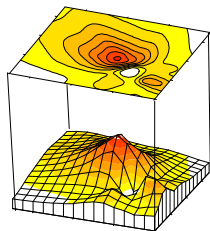
1987-2000: ERM, London, UK

1986-1987: UN FAO, Sudan

1986: Save the Children Fund, UK

### In-Country Experience

Azerbaijan, Chile, China, Cyprus, Germany, Hong Kong, India, Italy, Kazakhstan, Malaysia, Mexico, The Netherlands, Nigeria, Pakistan, Peru, Qatar, Singapore, Spain, Sri Lanka, Sudan, UK



**ADM Limited**

### Key Data

Carl Hawkings is a resourceful, team player who works well under pressure. He has extensive experience of project management and environmental assessment for a broad range of clients and in a number of industrial sectors. His experience at ERM, Shell and as an independent contractor has given him experience from both the client's and the consultant's perspective.

He has a strong technical background, in the field of air quality including local, regional and global issues; as well as in general project management. He has worked in environmental protection in the United Kingdom and has travelled extensively for work. In addition much of his UK work has involved travel overseas to those countries listed in the left-hand column as well as working remotely on projects in countries such as Abu Dhabi, Dubai, Greece, Libya, Turkey, Iran, Russia, Saudi Arabia, Brunei, Australia and Gabon.

Carl has worked in most industrial sectors including:

- Oil and gas, on and offshore including gas and oil platforms, gas plants, pipelines, LNG import and export terminals, and refineries.
- power plants (extensions, upgrades and new builds; oil, gas, wind, coal-fired, in the UK and abroad)
- cement works (new and existing plant in Pakistan and the UK)
- incinerators (UK and abroad, municipal, hazardous and clinical waste)
- infrastructure projects (eg airports, roads, rail termini, rail and tube links)
- other industry including sewage treatment works, carbon black plants, municipal landfills, lead smelters.

A significant proportion of Carl's work has involved detailed project planning and implementation. Since 2002 he has been working both full and part time with **Shell Global Solutions**, where his responsibilities included:

- Providing technical advice on air pollution and Pollution Prevention and Control (PPC) including the preparation of all (16) of Shell UK's offshore PPC applications and providing advice to Shell's European Refinery Technical PPC Network.
- Developing and agreeing project standards and guidelines at group level and within consortia.

- Developing and implementing contracting strategies for Environmental, Social and Health Assessments (ESHAs, EIAs etc)
- Internal reviewer and approver
- Developing internal Shell guidance on air issues including pollutant specific and impact assessment documents
- Member of the Shell Biodiversity Working Group
- Writing terms of reference for a variety of types of study
- Tender evaluation and award of contracts
- Managing 3rd party environmental consultancy contracts
- Reviewing 3rd party reports for compliance with standards/guidelines

At **ERM** and **ADM Limited** Carl managed and undertook numerous environmental studies. These involved detailed technical work in the field of air pollution (eg monitoring, dispersion modelling, policy development) and in areas such as ecology, human health risk assessment, health impact assessment, land and water contamination.

The work included preparing and editing assessments for Government and third party/lender/bank approval (including the World Bank Group and the Asian Development Bank).

### Projects

Carl has provided advice at all levels to projects in the various phases of design and development (site selection, BOD, BDP, BDEP, construction, operation, retrofit etc). He has a focus on environmental social and health issues but also has contributed to H&S through development of HSE Cases, HAZIDs and demonstration of ALARP etc. the following illustrates the type of work he has been involved with and his responsibilities. Carl now works as an independent consultant for several different clients including Shell.

**Petrofac: Pollution Prevention and Control (PPC) for a new installation (2008-9)** Project coordinator and author of a PPC application for a floating platform newly sited in the North Sea. Carl worked with Metoc Ltd to produce the PPC application including the dispersion modelling of pollutants.

**Confidential Client: Country-wide inventory and dispersion modelling (2008-2010).** Carl is a technical expert

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and reviewer for this country-wide emissions inventory and modelling project in Asia. The work involves reviewing all inputs and advising the client on the technical aspects of this very large project lasting 2 years.

### **Pollution Prevention and Control (PPC) for 16 Offshore Platforms in the North Sea, UK (2006-2008).**

Project coordinator and technical reviewer. This project involves managing the preparation of submissions (permits to operate) to the UK regulator (DTI). Carl manages the 16 separate teams within Shell and third party contractors. He is also part of Shell's DTI liaison team.

**European Refinery Technical Network, 2006-2009** Technical advisor on air quality and EU Regulatory Regime to Shell's internal refineries network.

**Persian LNG, Environmental, Social and Health Impact Assessment – Iran (2005-08)** Joint Venture/Shell Member of the SGSi team managing the ESHA, including specialist advice on air monitoring, assessment of impacts and mitigation.

**Bacton Gas Plant, PPC Permit Application, Shell UK (2006-08)** Project managed the production of the application for the permit to operate (PPC Application). Technical review of the application and management/tendering etc of contractors. Shell's representative on the Bacton Environmental Forum, comprising all operators at Bacton and the Regulator.

**NLNG Train 7+ Environmental, Social and Health Impact Assessment - Nigeria LNG (2004-9)** Member of the SGSi team acting as technical advisor to the project prior to Final Investment Decision (FID) including specialist advice on air monitoring, assessment of impacts and mitigation.

**AFAM Power Plant, Gas and Power/SPDC, Port Harcourt, Nigeria (2003-2007).** HSE and SD co-ordinator for Gas and Power, assistance to SPDC on integrated Environmental, Social and Health Assessment, technical advisor on detailed studies (noise, air and water). HSE/SD advice in relation to the project execution plan (PEP), Invitations to tender (ITTs) /minimum functional specifications.

**Brunei LNG Power Rejuvenation Project (2003/4)** Provided HSE and SD advice during the BOD and BDP/BDEP phases of this project to install additional power plant at the LNG plant in Brunei, including contributions to the HAZID, development of the HSE design premises and assistance with the environmental assessment work being undertaken on behalf of BLNG.

**NLNG Train 6 Environmental, Social and Health Impact Assessment - Nigeria LNG (2003-8)** Member of the SGSi team acting as technical advisor to the project prior to Final Investment Decision (FID) including specialist advice on air monitoring, assessment of impacts and mitigation.

**NLNG Train 4/5 Environmental, Social and Health Management Plan - Nigeria LNG (2004-6)** Reviewed and advised on the implementation of detailed ESH Management Plan (air quality aspects) for the NLNGPlus project. Advice provided regarding management of independent verification consultants for International Financing Institutions, progress reporting and implementation logistics.

**NOx Reductions Study for GTs and Furnaces, Expro/St Fergus Gas Plant (2002-3)** Managed and authored a BPEO/BATNEEC study for submission to the regulator (SEPA) examining the possibilities for NOx reduction at GTs and furnaces at St Fergus. Included a cost benefit analysis of the operation and recommendations.

**Kashagan Oil Fields for Agip KCO Corporate HSEQ department, Kazakhstan, 2004 – 2009.** Working in the team from SGSi providing ongoing HSE/SD/SP advice and support to Agip KCOs corporate HSEQ department in the Hague. Carl developed and assisted in the adoption of the Corporate Health, Safety, Security, Environmental and Social commitments/premises that were developed as a guide to all of the Agip KCO projects.

**Houdini/Roy, Pulau Bukom, Singapore, Shell Chemicals 2002 - 2003.** Managed the ESHA process at the Feasibility stage of the project. Provided input to VAR 3 stage gate. Provided HSE advice and prepared the HSE inputs to the hibernation documentation.

**ASPIRE Iran, Shell Chemicals, 2002-4.** Provided technical advice on air quality issues including monitoring, emissions estimates, dispersion modelling etc.

**Global Climate Change Network, OP 2003 -ongoing.** Carl provides technical input regarding air quality issues and editorship to this network.

### **Integrated Field Development, EP, Saudi Arabia, 2002-3.**

Pre-qualification of Environmental Consultants to undertake Environmental, Social and Health Assessments (ESHAs) for Seismic Survey, Gas Field Development, Gas Processing, Pipeline, power Plant and Desalination Plant, Saudi Arabia.

### **Barrow Island, LNG Plant, Australia, SGSi, 2002/3.**

Screening Environmental Assessment/Site Selection LNG Plant, Australia.

Prior to 2002 as an independent consultant with ADM and an employee of ERM Carl managed more than 50 environmental impact assessment (EIA) projects and other environmental studies. He was responsible for client liaison, budget and all deliverables, eg:

- Environmental Management Plan for Baku, Azerbaijan for JICA/KKC Ltd
- EIA for a 160MW<sub>e</sub> CCGT in Colombo, Sri Lanka, AES Ltd (World Bank/ADB)
- EIA of a 40MW<sub>e</sub> Energy from Waste Facility, UK for Independent Energy UK Limited
- Recycled Liquid Fuel Burning in Cement Kilns, Various sites in the UK for Blue Circle Industries plc (now Lafarge Cement UK)
- EIA of a 10MW<sub>e</sub> Wind Farm, UK for Independent Energy UK Limited
- PPC/IPC Permits, and Planning Submissions for a Meat and Bone Meal Incinerator, UK for Shanks Waste Solutions
- EIA and IPC Application for an 800MW<sub>e</sub> CCGT in Lincolnshire, British Energy
- Extension to a CCGT in Rugby and Keadby, Scottish Hydro-Electric plc
- Option Evaluation and EIA of Channel Tunnel Rail Link (CTRL) London Terminus and Rail Route
- IPC and EIAs of Cement Works in the UK for Blue Circle Industries UK (now Lafarge Cement UK).