
Nick Fells

nickfells@gmail.com

November 2008

+44(0)7989 444138

Overview

Nick Fells is a Chartered Chemical Engineer specialising in Process Safety, Risk and HSE Engineering. He also has a strong background in Nuclear Power. He is an independent Consultant with over twenty-five years diverse process, safety and environmental engineering experience gained since the early 1980s in the oil and gas, chemical and nuclear industries. He has worked for eight oil companies, four consultancies, four engineering contractors and two nuclear operators in that time. He is based in the UK but from 2004 to 2007 worked regularly in the Far East (Brunei and Jakarta) providing specialist advice on decision support for major projects and production operations. He now works mostly in Central Asia, the Middle East and Russia.

Nick is a versatile HSE (Health, Safety & Environment) all-rounder as well as a risk specialist, and an accomplished communicator. He has functioned in consultant, managerial, technical, operations support and training roles and has extensive experience in leading HAZOP (Hazard and Operability), HAZID (hazard identification) and other forms of risk assessment directed at Process Safety improvement. Also workforce engagement and training, Quantitative Risk Assessment (QRA) and HSE Case development.

Nick has the necessary range and depth of experience to help make major decisions for Energy Projects and Operations driven by corporate policy on safety, environmental impact and sustainable development – and to help define corporate policy.

He obtained his Masters degree in Chemical Engineering at Trinity College, Cambridge (UK) after a four-year course which included a post-graduate year of advanced study. After leaving school he was a pre-university engineering student for one year at BP Sunbury Research Centre, then he was sponsored through university by the UK Atomic Energy Authority (UKAEA) spending periods of time working at Atomic Energy Research Establishment (AERE) Harwell. In 1983 he began his career in the area of radioactive waste management. In this time he was awarded a six month industrial scholarship under which he made a tour of several nuclear facilities and government departments in the US, France, Germany, Austria and UK.

After the Piper Alpha disaster of 1988 he left to become an independent safety engineer and worked for several oil and gas consultancies and engineering companies on contract. In 1998 began working directly as a Consultant to oil companies, then in 2008 changed course again to work as an Associate Consultant.

Professional Affiliations and Qualifications

- MA (Hons) in Chemical Engineering, University of Cambridge
- Certificate of Advanced Study in Chemical Engineering, University of Cambridge
- Chartered Engineer
- Member of Institution of Chemical Engineers

Personal Details

- British nationality
- Date of birth 1959

Key Skills

- HAZOP and HAZID team leader
- Safety Integrity Level (SIL) assessment / Instrument Protective Function (IPF) assessment, Layer of Protection Analysis (LOPA)
- Process Hazard Assessment (PHA) and Hazard Management Review
- Hazard & Effects Management Process (HEMP) for lifecycle ALARP demonstration
- Safety Critical Element (SCE) performance standard development, suitability assessment and operational compliance reporting
- Quantitative Risk Assessment (QRA) and Cost/Benefit Analysis (CBA)
- Bowtie risk analysis
- Project total risk assessment
- HSE Case and Verification Scheme development
- HSE Management Systems development and implementation
- Design review for lifecycle safety, operability, maintainability, constructability & compliance
- Operational procedures, inspection and maintenance system overhaul
- Knowledge preservation and lessons learned review
- Continuous improvement programme development
- Training workshop development and facilitation
- Independent critical review and due diligence assessment
- Combined Production and Rig Activities (CPRA) / SIMOPs review
- Human Factors Engineering Assessment (HFEA)
- Fire, explosion and toxic hazard assessment
- Smoke & gas ingress analysis (SGIA)
- Evacuation, escape and rescue analysis (EERA)
- Emergency systems survivability analysis (ESSA)
- Personnel transfer risk assessment
- Dropped object risk assessment
- Ship collision risk assessment
- Failure mode, effect & consequence analysis (FMECA)
- Fault Tree reliability assessment
- High integrity protective system (HIPS) risk assessment
- Hazardous Area Classification (HAC)

Nick Fellsnickfells@gmail.com

November 2008

+44(0)7989 444138

Technical Facilitation Experience

- Re-HAZOP of the Chirag Platform (BP Caspian Operations) over a two month period in late 2008
- Several HAZID/ENVID and HAZOP studies for major projects in Shaw Energy & Chemicals mid 2008
- Hazard management, SIMOPs reviews and Process Hazard Assessment (PHA) for projects in Brunei Shell Petroleum between 2004 and 2007
- Numerous HAZOP and HAZID studies between 1999 and 2007 for modifications and projects on gas platforms and onshore gas terminals operated by Perenco UK, ExxonMobil, ARCO British, NAM, British Petroleum, Shell Gas Supply Group and Phillips Petroleum in the Southern North Sea
- Re-HAZOP of the Inde 49/23A gas compression complex (BP Amoco) in 1998
- HAZOPs for process and utility systems on the BP Foinaven FPSO (Floating Production, Storage and Offloading unit) in mid 1990s
- Independent process safety engineer for the BP Andrew project HAZOP study campaign in mid 1990s

Chronological Record

When	Title	Operator
Oct 1995	Steam boiler fuel systems Petrojarl Foinaven Ph 1	BP
Sep 1996	Little Dotty subsea development in Hewett Field	Phillips
Aug 1997	Clipper PT ESDV-2507 overhaul with hydraplug	Shell
Sep 1997	Galleon reception at Sole Pit Clipper PM	Shell
Dec 1997	Clipper PT/PW blowdown harmonisation	Shell
April 1997	Leman liquids handling system	Shell
Jan 1998	Corvette reception at Leman A – Design Freeze 1	Shell
July 1998	Lancelot-Excalibur pipeline flooding & dewatering	Phillips
July 1998	Reciprocating compressor at West Sole Alpha	BP
Aug 1998	Intelligent pig inspection of Leman No. 1 Sealine	Shell
Aug 1998	Corvette reception at Leman A – Design Freeze 2	Shell
Nov 1998	Davy & Bessemer compression at Inde 23A	AMOCO
Jan 1999	Re-HAZOP of Inde 23A compression complex	AMOCO
June 2000	Inde 23C simplification	BP
Feb 2001	Hellvellyn tie-in to Amethyst platform	BP
Dec 2001	Non-operational Gawain SDV-4001	ARCO British
Feb 2002	Galahad condy/water coalescer failed level trips	ExxonMobil
July 2002	K8 FA Accommodation Platform	NAM
Sept 2002	Thames export dewpoint analyser	ExxonMobil
May 2004	SEREP unit for Inde 23A produced water cleanup	Perenco UK
July 2004	Rerouting TEG contactor boot fluids	Perenco UK
Sep 2004	Bacton intersite condensate storage & evacuation	Perenco UK

Nick Fellsnickfells@gmail.com

November 2008

+44(0)7989 444138

Chronological Record (continued)

When	Title	Operator
Nov 2004	Bacton fuel gas low point drain	Perenco UK
Nov 2004	Microturbine fuel gas skid	Perenco UK
Feb 2005	Dual CPRA at Iron Duke	Brunei Shell
April 2005	23A liquid handling improvements	Perenco UK
April 2005	Bacton sphere receiver letdown	Perenco UK
May 2005	Temporary interconnection of Bacton slugcatchers	Perenco UK
May 2005	Bacton SAIL stabiliser bypass	Perenco UK
April 2006	Jetpump trial for liquid unloading at 27F	Perenco UK
April 2008	NC2 Ethylene Plant Modifications	FAO
May 2008	Ruwais Refinery Expansion (Takreer)	Takreer
June 2008	Ammonia Plant Vent System (Fatima Fertilisers)	Fatima Fertilisers
Sept-Nov 2008	Re-HAZOP of Chirag Platform	BP Caspian Operations

Training and General

- French and German spoken to working level
- Some Russian and Bahasa Indonesia spoken
- Basic Offshore Safety Induction and Emergency Training (BOSIET) with Emergency Breathing System (EBS) and Helicopter Underwater Escape Training (HUET)
- UKOOA Offshore Medical Certificate
- Experienced user of DNV PHAST consequence modelling software
- Training course for Shell FRED consequence modelling software
- Training course for Shell SCOPE explosion effect modelling software

Pursuits and Interests

- Argentine Tango
- Saxophone
- Sailing
- Unicycling

Nick Fells

nickfells@gmail.com

November 2008

+44(0)7989 444138

Career Summary

August to Date – Risktec Solutions, Associate HSE Consultant

- Team Leader for HAZOP of Chirag Platform (BP Caspian Operations), working with G3 Baxi Partnership in Baku, Azerbaijan between September and November

March to July 2008 – Shaw Energy & Chemicals, Process HSE Team Lead

Led a team of three HSE engineers working on several major projects:

- Ruwais Refinery Expansion Project (Takreer), Abu Dhabi
- Hassi Messaoud LPG Plant (Sonatrach), Algeria
- ONGC Ethylene Plant, India
- Sharq Ethylene Plant, Saudi Arabia
- Ammonia Plant Relocation Project (Fatima Fertilisers), Pakistan
- NC2 Gap Closure Project (Fina Antwerp Olefins)
- Dung Quat Polypropylene Project, Vietnam

January to March 2008 – Lloyd's Register Technical Services, Malaysia

- Process Safety, Risk and HSE Engineering Consultant

September to December 2007 – HSE Engineering Consultant, Premier Oil

- Project Leader for update of Anoa Field Safety Case and Hazard Management training programme, based in Jakarta. Advisor on HSE engineering requirements for projects in Premier worldwide.

2004 to 2007 – Technical Safety Consultant, Brunei Shell Petroleum

- Major Projects (2006 to 2007) – Design HSE Cases for Mampak, Seria North Flank, Industrial Gas Terminal and Bugan Phase 2
- Champion West Drilling Platform 1 (2005) – Hazard Management Plan for Combined Engineering and Drilling (CED)
- Champion 7 Complex (2005) – fire hazard assessment for LQ replacement
- Iron Duke (2005) – Process Hazard Assessment for dual CPRA
- Champion West Wellhead Jacket 2 (2004) – Hazard Management Plan for Combined Production and Rig Activities (CPRA)

Nick Fells

November 2008

nickfells@gmail.com

+44(0)7989 444138

September 2006 – QRA Consultant, ERM Indonesia

- QRA advisor for a ConocoPhillips project

December 2003 to Nov 2006 – Consultant HSE Engineer, Perenco UK

- Process safety, risk and HSE engineering specialist for projects, modifications, unusual operations and integrity assurance at Bacton gas terminal, Inde, Leman, Trent/Tyne, Waveney and Pickerills assets. HAZOP, HAZID and design study chairman. Co-ordination of HSE-led projects. QRA studies, Safety Case support, liason with HSE Offshore Safety Division, technical authority for major hazard management

June to December 2003 – HSE Engineer, Agip KCO Kashagan Development Project

- Member of HSE team specialising in HSE management systems implementation for lifecycle management of hazards. HSE planning, demonstration of ALARP, sustainable development, compliance with Agip corporate standards, Shell EP-95000 standards and the legislative requirements of the Republic of Kazakhstan

August 2001 to May 2003 – SH&E Compliance Engineer, ExxonMobil SNS Operations, Great Yarmouth

- Member of Goal Setting Regulations (GSR) compliance team for Thames Complex and five LAPS platforms in Southern North Sea. Technical co-ordination for overhaul of Verification Scheme including Performance Standards development, Suitability Assessments, SIL assessments, engineering support studies, maintenance/inspection strategy reviews and monitoring of operational reliability

March 1999 to August 2001 – Safety & Compliance Engineer, ARCO British

- Operational support, working closely with Facility Engineering. Team leader for risk assessments, HAZIDs, HAZOPs and technical safety reviews. Maintenance of Safety Cases and support studies, also HSE liason support. Managed engineering studies and maintained Performance Standards, also co-ordinated the Continuous Improvement process

In 1999 led a series of multidisciplinary legislative compliance reviews and conducted Performance Standard development workshops as part of PFEER compliance process and improvement programme. Co-ordinated action close-out, provided technical HSE input to Performance Standards and managed work of external consultants

Nick Fells

November 2008

nickfells@gmail.com

+44(0)7989 444138

2000 and 2001 – Independent Consultancy

- British Petroleum SNS – Led HAZOPs for Inde 23C Simplification and Hellvellyn tie-in to Amethyst platform
- British Nuclear Fuels – Advisor on safety culture and behavioural change to Sellafield Operations
- Websters International Publishers – Expert Contributor, writing the Nuclear Power article for 2002 edition of the Encarta encyclopedia

October 1998 to March 1999 – Loss Prevention Specialist, BP AMOCO

- Attached to Inde Field Operations Engineering Team to perform a suitability assessment for the Inde 49/23A compression complex. Developed methodology, carried out knowledge capture interviews, led a full HAZOP study for the existing facilities and produced and improvement plan

1997 to 1998 – Lead Technical Safety Engineer, AMEC Process and Energy

- Formed and led a team of four safety engineers based in Great Yarmouth UK. Worked closely with process engineers, environmental specialists and Shell personnel in the Integrated Services Contract to Shell Gas Supply Group

January to April 1997 – Principal Risk Assessment Engineer, Curlew Project, Aberdeen

- Working in Aberdeen for the MAS Alliance (Maersk, Amec and SBM) as principal risk assessment engineer for the Curlew FPSO Project

1991 to 1996 – Consultant Safety Engineer, Genesis Engineering Consultants, London

- Managed numerous studies for eleven major clients and worked closely with Phillips Petroleum over five years as QRA and Safety Case consultant for their gas terminal at Bacton and the Hewett Field. Gained extensive experience in liason with HSE Offshore Safety Division

1990 and 1991 – Safety and Reliability Consultant, Four Elements Limited

Performed several offshore and onshore QRA and other specialist studies including for Shell Dunlin platform, land-use planning in Hong Kong, crane barge dynamic positioning systems and Shell Nelson platform

Nick Fells

November 2008

nickfells@gmail.com

+44(0)7989 444138

1986 to 1990 – Senior Process Engineer, Davy Energy and Environmental Limited, Teeside

- Enhanced Actinide Removal Plant (EARP) for British Nuclear Fuels
- Commissioning team member for coal preparation plant at Maltby colliery
- High Severity Reformer project at ICI North Tees works
- Solvent Treatment Plant (STP) for British Nuclear Fuels

1983 to 1986 – Chemical Engineer, NEI Waste Technologies, Gateshead

- Process development, plant trials and marketing for novel radioactive waste management and decontamination systems in UK under joint venture with Chem Nuclear Systems Incorporated (CNSI) of Columbia, South Carolina
- NEI Scholarship 1985 - six months tour of nuclear facilities and government departments in US, France, Germany, Austria and UK