

**Professional CV** **ANDREW INKERSOLE**

**Key qualifications:** MEng in Mechanical Engineering (1<sup>st</sup> class), University of Sheffield, 1996  
Diploma in Business Administration (Pass with credit), University of Lancaster, 1998  
Registered as a CEng since 2000 and a MIMechE.

**Key experience:** Structural integrity: Stress Analysis and Design Code Assessment of Piping Systems and Structural Components including Seismic and High Temperature Assessment; Fitness-for-purpose assessment; Pipe Stress Analysis Software (PSA5 and ADLPipe); Flow Accelerated Corrosion Assessment (FAC); Pipework Support Surveys and Condition Assessments; Author/Verifier of Referrals to Underwrite Return-to-Service of AGR plant at Statutory Outages; Component Life Assessment (CLA) including Tier 2/3 documentation.

Other key experience: Safety Case Authorship; Plant Maintenance and Reliability; SAP (in particular Plant Maintenance and Materials Management Modules); Health, Safety and Environmental Management; Financial and Project Management.

Suitably Qualified Experienced Personnel (SQEP) Qualifications are:

- Role code 0: Classic Strength of materials
- Role code 1: Design code & piping assessments
- Role code 4: Pipework analysis
- Role code 13: Flow Accelerated Corrosion Assessment
- Role code 14: Pipework Support Survey

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**Senior Engineer & EDF 4H Team Leader**  
*Engineering Analysis Services Limited (EASL)*

September 2019 - Present

Team lead for EASL's EDF 4H (Hinkley/Hunterston/Hartlepool/Heysham A) team. Line management responsibility as well as task and financial management (task engineer responsibility). Responsible for obtaining new work both within EDF and with other clients and for the allocation of work and management of resources. Undertaken significant novel work requiring an innovative approach with non-EDF clients.

Significant knowledge of plant at Hartlepool and Heysham A via contributing to extension to end-of-life of the boiler closure unit safety case; PCPV, liner and penetration assessments; significant hot box dome and skirt knowledge. Completion of EC2 safety case training (for responsible engineer, author-verifier and case officer). Completion of basic ABAQUS training.

**Senior Engineer**  
*Engineering Analysis Services Limited (EASL)*

January 2014 – August 2019

Single point of contact (SPOC) between EASL and EDF Energy's structural assessment group (SAG) for Heysham 2/Torness/Hunterston/Hinkley. Also SPOC between EASL and EDF Energy's SAG management team lead.

Work management lead within EASL responsible for all work across all clients including allocation of work and management of resources. EASL lead for statutory outages at Heysham 2 and Torness (referrals and other SAG related work). Successfully managed many outages at both sites including attendance and contribution to OAPs.

Significant Hartlepool/Heysham A plant knowledge of boiler and reactor internals. Authored report to assess the impacts of PVCW/CO<sub>2</sub> corrosion on liner and penetration components to support life extension of these two stations. The report includes consideration of isolated cooling pipes.

Significant capability in the analysis of piping systems including seismic assessment. Significant capability in undertaking minimum acceptable fitness calculations including both fitness-for-purpose and design code approaches. Pipework support thermal monitoring survey's (hanger surveys). On-site assessment of flow accelerated corrosion (FAC) including presentation of results to OAP.

Author of safety case to lift embargo on on-load reconnection of a boiler during operation on three quadrants at Hartlepool/Heysham A. Author of safety case to incorporate enhanced knowledge of skirt behaviour into existing hot



box dome and skirt safety case. Knowledge of safety cases and periodic safety reviews. Author/verifying structural assessments used as input to safety cases, IJCOs and JCOs.

AV2 author/verifier safety case management trained.

CLA work including Hartlepool/Heysham A tier 2, verification of LARC set review, verification of tier 3s, transient reviews and steady-state reviews.

**Engineer**

October 2008 – January 2014

*Engineering Analysis Services Limited (EASL)*

Pipe stress analysis – fluent in the use of PSA5 and ADLPipe for flexibility assessment. Significant experience of material properties and evaluation of allowable stresses for carbon, low alloy and austenitic steels. Extensive knowledge and experience in the use of many design codes - BS 806, ASME III, ASME B31.1, ASME B31.3, BS EN 13480 and PD 5500. Component Life Assessment (CLA) including tier 2, 3 and transient reviews. Task management and provision of technical lead to others. Verification of work by others. Dealing and liaising with clients at all levels. Preparation of offers and financial management.

**Process Improvement Manager**

June 2004 - October 2008

*Pilkington, St Helens, Lathom and worldwide*

Responsible for maintenance and reliability best practice across the Pilkington Group's worldwide float lines. Worked with site maintenance managers around the world to implement best practice. Significant technical and change management skills required. Initiatives introduced to Pilkington include maintenance and engineering inventory optimisation methodologies using RCM-Turbo© and SOS© software after leading pilot schemes in both the UK and Brazil. Led the use of SAP plant maintenance worldwide to determine maintenance life cycle costs and incorporation of these costs into new asset purchasing policies. Experience of plant condition monitoring techniques and implementation.

**Engineering & Maintenance Manager**

June 2001 - June 2004

*Pilkington Special Glass Ltd, St Asaph*

Led a 25-member engineering team with a £2M annual maintenance budget (excluding salaries and Capex). Successfully managed a number of significant reliability improvements, for example, MTBF of a key business glass processing machine increased from 129 to 1250 hours. Introduction of a pro-active maintenance philosophy with a formal planning and scheduling regime as opposed to the previous reactive environment. Major safety and environmental focus including risk assessment, lock off and isolation, reporting of near misses, PUWER, LOLER, DSEAR and COMAH. Lost time accident rate of engineering and maintenance team reduced by 75% over 3 years.

**SAP Implementation Project Engineer**

September 1998 - June 2001

*Pilkington, St Helens and locations in Europe*

Lead engineering member for the development of SAP Plant Maintenance and subsequent roll out throughout the European float operations of Pilkington. Also a key input to Materials Management and Warehouse Management modules. The solutions, processes and systems which I developed are still being used successfully throughout Pilkington globally to this day. If you own a car no more than 22 years old and/or have changed the windows in your house in the last 22 years you will almost certainly own some glass manufactured using systems I developed.

**Graduate Engineer**

September 1996 – September 1998

*Pilkington, St Helens*

Responsible for contributing to projects in support of Pilkington's St. Helens operations. In particular, drive improvements to batch plant sand belt conveyors, assessment of flow and heat transfer of furnace cooling water systems, replacement of heavy oil steam trace heating with electrical and replacement of historical boilers with modern package boilers to accommodate reduced demand for steam on site.