

for EDF Energy's fleet of nuclear power stations. Experience includes task management, origination and/or verification of:

- minimum acceptable thicknesses calculations for external inspections;
- creep-fatigue crack initiation assessments using the R5 procedure;
- limiting defect size, fatigue crack growth and leak-before-break assessments using the R6 procedure;
- component life assessment reporting involving determining frequencies of operating cycles from plant data to be used as input for creep-fatigue damage predictions and steady state and transient reviews intended to monitor plant behavior and responses in relation to operational limits and design intent;
- mean effective creep temperatures and mean steam pressures from plant data for use in creep assessments;
- development of pipework models and stress analysis of pipework systems; and
- creep life review of external main steam and hot reheat components.

Other experience includes:

- structural integrity knowledge lead for the Heysham 2 reactor 8 2010 statutory outage;
- responsibility for the on-site management of flow assisted corrosion inspections and assessments at Sizewell B power station in RF08, 9, 10 and 11;
- pipe hanger thermal movement surveys at Heysham 2 power station;
- supervision and management of graduate engineers;
- development and maintenance of the Company quality management system to reach certification to ISO 9001: 2008; and
- IRCA trained internal auditor.

Mechanical Project Engineer
Robinson Industrial Buildings Limited

July 2004 – January 2006

Reported to the Project Manager on a £3 million design and build construction project and produced sub-programmes to co-ordinate mechanical, structural and civil activities in order to achieve deadlines in the main programme. Assisted consulting engineers in structural designs and main interface for client's engineers. Production of working, manufacturing and 'as-built' drawings as project progressed.

Mechanical Engineer
Hirt Combustion Engineers Limited

October 2002 – July 2004

Provided mechanical and structural design support to the Process Engineer in the design of bespoke thermal oxidation systems for abatement of liquid and gaseous wastes in the glass, chemical, tobacco and water industries. Carrying out heat and mass balances to determine acceptable flow velocities and requirements for refractory lining to ensure satisfactory combustion. Managed a team of skilled and semi-skilled operatives. Planned the in-flow and monitored the progress of manufacturing work, including both fabrication/welding and refractory installation operations. Quality monitoring/inspection of all plant/equipment manufactured.

Mechanical Engineering Technician
Hirt Combustion Engineers Limited

August 2001 – October 2002

Drafting of general arrangements and detailed drawings on AutoCAD. Taking of quantities of materials. Procurement of materials. Assisting in the receipt of materials. Development of quality procedures for the manufacture of plant/equipment. Servicing/upgrading of existing equipment.

Apprentice Fabricator/Welder
Hirt Combustion Engineers Limited

May 1998 - August 2001

Fabrication and Welding of plant/equipment from engineering drawings. Working to strict tolerances and deadlines. Development of components using sheet metal geometry methods.