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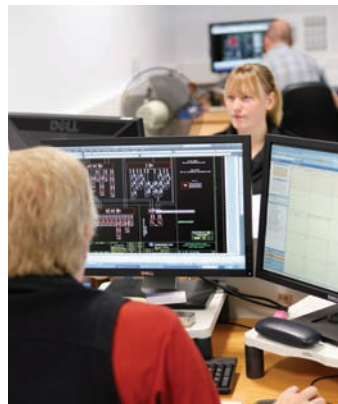
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BUILDING INFRASTRUCTURE SERVICES



Responsive nuclear engineering and support services





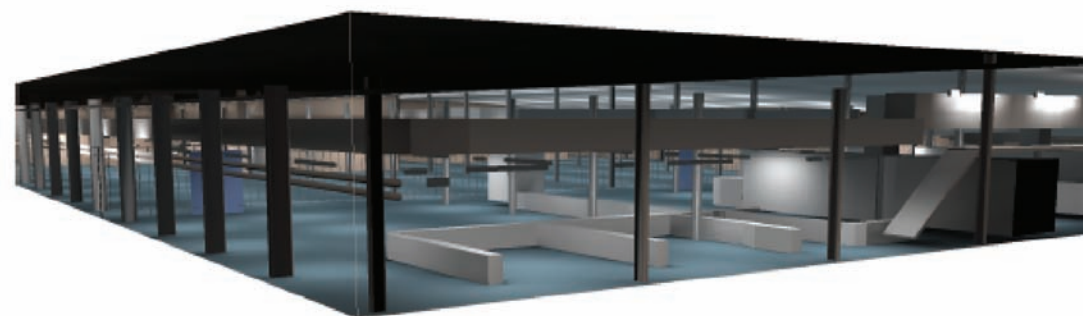
## BUILDING INFRASTRUCTURE SERVICES

James Fisher Nuclear (JFN) provides responsive design and engineering services to nuclear customers. With a Cumbrian workforce of some 80 nuclear engineers together with local design offices, service facilities and rig halls JFN is ideally placed to support Sellafield.

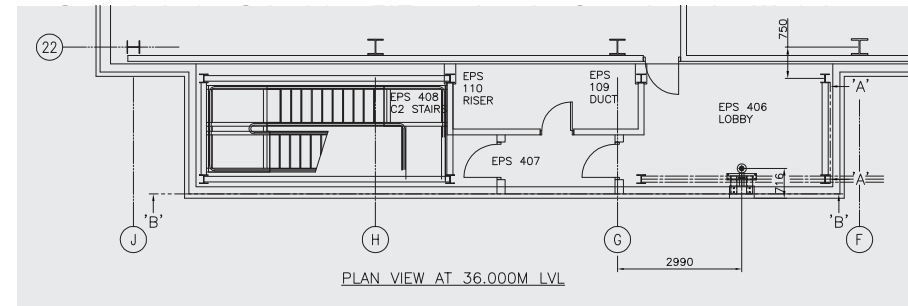
The Building Infrastructure Services team focuses on the design and supporting the implementation of building services and nuclear infrastructure projects. The team has a strong track record in delivering all aspects of engineering design. In addition the team has the project management capability to support and manage the concept through to manufacture, installation and commissioning backed up by the extensive skills and supply chain resources of the wider James Fisher Nuclear group. With a deep knowledge of the facilities and operations of the Sellafield plant built up over 25 years of operating safely on the site, the BIS team has the experience to deliver projects to nuclear industry requirements cost-effectively.

**The BIS team have experience throughout the design and delivery lifecycle of a project in mechanical, CE&I, HVAC, civil and structural engineering disciplines. Project tasks undertaken include:**

- Optioneering Studies
- Concept Designs
- Scheme Designs
- Detailed Designs



- Optioneering Studies
- Concept Designs
- Scheme Designs
- Detailed Designs
- 3D modelling
- Assembly and sub assembly drawings and parts lists
- Functional and Technical Specifications
- System Configuration Management
- Design Justification reports
- All aspects of the Safety Lifecycle Design Process including Hazops, Hazans, Design Justification Report, Configuration Management
- Data Sheets
- Supporting Calculations including FEA and load calculations
- Installation Philosophy Documents
- Operating Philosophy Documents
- Maintenance Strategies
- Critical Spares Lists
- Design and Maintenance FMEA reports
- On-site tasks and site investigations
- Operating and Operator instructions
- Maintenance Instructions
- All aspects of commissioning including Commissioning Strategies,

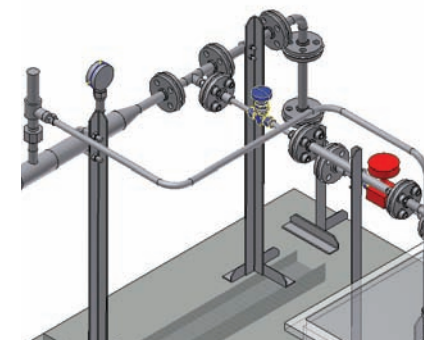
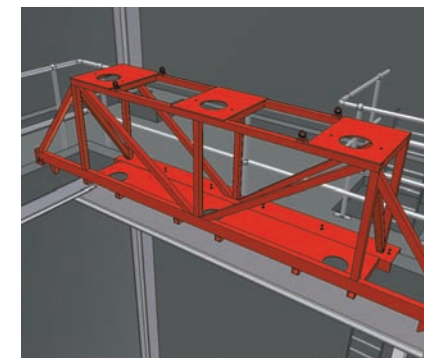
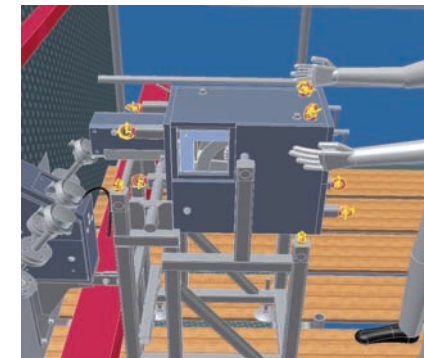


**The BIS team have experience in a broad cross-section of Engineering design disciplines for industrial infrastructures which include:**

- Low Voltage and High Voltage power distribution
- Small Power, Lighting, Data and Telecoms systems
- Fire alarms, CCTV and Security Systems
- Pipework design for ;Process, Water, Steam, Compressed Air, Hydraulics
- Hydraulic and Pneumatic Systems
- HVAC including nuclear ventilation systems and glove box design.
- Cranes and other lifting equipment
- Mechanical handling equipment
- Process instrumentation systems
- Structural Steelwork
- Control system design
- Test Rig Design



As well as tackling new build projects, BIS have an extensive experience in refurbishment and upgrading existing facilities. The project might have arisen from a periodic safety review, an obsolescence review or a change of use of a facility.



Safety and quality are important to JFN and its customers. JFN therefore has a quality system accredited to ISO 9001:2000 and a health and safety management system accredited to ISO 18001:2007. If required, safety systems can be designed in line with IEC 61508 and/or EG90.

Whatever their size, all JFN projects are run under a consistent project management framework. The project life cycle is a gated process which stretches from identification of opportunities, to final close-out and is divided into 2 halves, with the stage prior to contract award being defined as “Plan” and the post contract stage defined as “Delivery”. All Project Managers within JFN are either qualified to, or currently training towards the Association of Project Management Practitioner (APMP) qualification, an IPMA level D qualification. This approach ensures that both JFN and the customer understand clearly the project scope, deliverables and timescale at the outset, and JFN has the skills and tools to ensure that the project remains on track meet customer expectations.