

## SERVICES : CASE STUDY 4

### Major Electrical Installation

A leading IT solutions provider has opened the doors to its £1.7 million state-of-the-art data centre in Dundee. Scottish Hydro Contracting was awarded the contract to design, build, test and commission all the electrical services for the conversion of existing offices to the new data centre.

The centre, which has been built to a high specification, has been designed to allow the company to expand its data management services and offer new and existing clients reliable data security protection. This required an 'N+1' policy to be adopted for all critical items of plant, which included the power supplies to the Data Room and the cooling systems. This meant that all essential power supplies were doubled up to ensure there was 'no single point of failure'.

Systems installed by Scottish Hydro Contracting during the £650K contract included:

- 2 separate 11kV supplies, fed from different part of the SSE host network
- 2 x 1000kVA transformers
- 2 x 800kVA standby generators
- 2 x 160kVA uninterruptible power supplies
- New main switchboard with an interlocked system of switching to allow the changing of power supplies in the event of an emergency
- 2 x Power Distribution Racks (PDU's) in the room, with 2 power supplies from each to individual computer racks.
- Lighting, small power, fire alarms
- Leak detection, air sampling and gas extinguishing systems
- Security, access control, CCTV

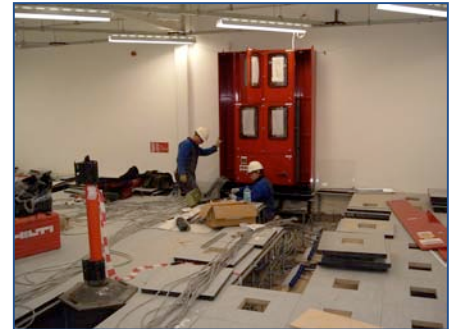
The conversion was completed within a very tight 3 month timescale and as much of the critical equipment was on 8-10 week delivery, careful project management ensured the scheduling of all other works was complete in time for the arrival of the main plant items.

Final testing and commissioning of services followed and the building was handed over the Client to move in as planned.

Scottish Hydro Contracting, a division of SEC, was awarded Electrical Contractor of the Year in the 2006 Select Electrotechnical Awards.

SEC, part of the Scottish and Southern Energy Group is committed to delivering projects on time, on budget and SAFELY.

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### Quality and Safety

SEC is ISO9001:2000 Accredited and all Engineering Managers are IOSH (Institution of Occupational Safety and Health) qualified; evidence of our commitment to quality and safety.

- Fully Trained and Competent Staff
- Regular On-Site Safety Audits
- Daily Risk Assessment
- Use of Full Range of Personal Protective Equipment (PPE)
- Liaison with Client's Staff Affected by Work Activities
- Hazards and Risks Controlled at Worksite