

UTILITIES : CASE STUDY 4

Electrical System Upgrade

Eastern Contracting was awarded a contract to electrically upgrade a Dam Pumping Station of a major water company in the East of England. The Reservoir concerned is used as the storehouse for the Water Treatment Works and covers an area of 6.5sq² and contains some 59 million m³ (13,000 million gallons) of water. Literally in its shadow is the Dam Pumping Station which is used to transport water from the reservoir to the Treatment Works via an 800m pipeline.

When the Dam Pumping Station was originally constructed five DC pumps were installed. These were reaching the end of their useful working lives and the Client decided to replace them with more powerful 660V AC Variable Speed Drives. Eastern Contracting were asked to assist with increasing the power supply. This involved removing the existing High Voltage switchboard and installing a new 11 panel, state of the art LSR SF₆ gas-insulated switchboard.

During the decommissioning and commissioning phases of the new system it was essential to keep the water flowing from the Pumping Station to the Treatment Works. This required close co-operation between the Client and Eastern Contracting to ensure power supplies were uninterrupted.

Completion of the project effectively marked the end of a seven-year overhaul of the entire system, with Eastern Contracting involved in every stage : from the Intake Pumping on the river right the way to the High Lift.

Eastern Contracting is committed to delivering projects on time, on budget and SAFELY.

Eastern Contracting is a division of SEC, Building Services Awards Major M&E Contractor of the Year (2004 and 2005) and Electrical Industry M&E Contractor of the Year (2005), and is part of the Scottish and Southern Energy Group.

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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