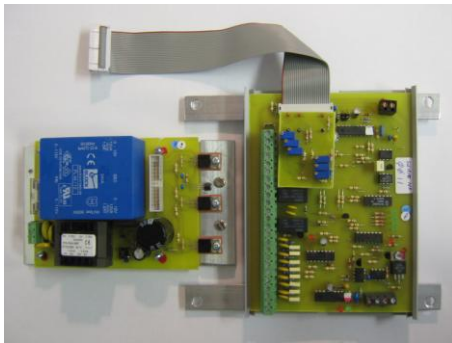


News Update

RTL was successful in winning the tender to replace the building's **cathodic protection system electronics** at St Andrew's House, Edinburgh – the working home of the Scottish Government. The existing system was installed in around 2000 and had suffered from a number of problems. The building is heavily used by the Scottish Government and replacing the infrastructure of the ICCP system (local cabinets installed



throughout the building and all interconnected wiring) was deemed unacceptable. RTL developed a method of using the existing interwiring system and also the original aluminium enclosures and fittings. The old circuits will be removed and new circuit boards fitted into these enclosures with the minimum of fuss.

RTL also recently completed the installation of cathodic protection systems within St. John's Church in Leytonstone, The Printworks building in Manchester and Cabot Tower in Bristol. All these historic structures have suffered from corroding steel or iron, resulting in cracking of the surrounding stonework.

A **concrete assessment** was completed recently for the historic concrete Tecton buildings within Dudley Zoo. The listed concrete Tectons have been suffering from reinforcement corrosion. RTL completed a reinforcement depth survey, hardness testing, chemical testing and developed a conservation and repair strategy.



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A non-intrusive **thermal scanner system** has recently been installed on the boiler tube walls of a large copper smelting unit in Belgium. The scanner sensors were arranged in a two-dimensional array to enable real-time maps to be produced of the tube wall's thermal characteristics. The scanner system's objective is to closely monitor slag formation so that excessive slag build-up can be avoided by optimising smelter operations.



Rowan Technologies has just completed the design and installation of two air-cooled **corrosion monitoring probes** for the superheater of a 660MW coal-fired boiler at a large power station in the UK. The associated measurement instrumentation uses the electrical resistance principle, where a 10 amp dc current is used to assess the remaining thickness of tubular corrosion elements. The probes were made particularly sensitive by reducing their thickness down to 1mm. The system will be used to assess fireside corrosion during forthcoming biomass trials.



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