

Extended Scope Actuation Projects

Actuation, Projects and Service
EXEECO

Rotork, and its subsidiaries, carry out significant extended scope actuation projects through out the world every year. This is a growing requirement from our customers who are often looking for a “one stop shop” to automate part or all of their processes.

Our capabilities cover all of the installation phases (scoping, design, procurement, manufacturing, installation and commissioning) on the broad scopes of work that typically surround actuation projects (e.g. civil works, pipe works, valve installation, power distribution, control cabling, control cabinet installation, field communications, structure fabrication, etc).

Please contact your local Rotork office for a complete solution to your actuation opportunity.



Case Study

At Ratcliffe Power Station, in the UK, the generating units come on and off load each day to meet the demand of the National Grid; this is known as “two shifting”. This continuous process causes huge stresses within the boiler due to the wide temperature changes from the economiser down to the drains, and this in turn causes tube leaks practically every 4 or 5 start-ups.

In order to combat this problem a pump was installed at ground level to circulate water around the boiler during periods when the unit was off load. The system needed to detect the temperature of the re-circulating water, and control the flow to keep a constant temperature through the boiler tubes. Accuracy, speed of response to temperature changes and high pressure flow rates were the major design considerations of the main contractors ALSTOM Power Ltd. Our Actuation, Projects and Services team carried out the complete scope of installation work (power and control cabling, marshalling boxes, power distribution, the installation of various specialist control valves as well as the installation of a range of Rotork actuators) to meet the desired control philosophy to solve the problem.



At the end of the project the project manager stated:

“They [the Actuation Projects and Services team] were very flexible in their approach to providing a technical solution to the various control requirements on this complex project. They were able to offer a Rotork solution to any application we put to them, and provided a full system design and installation service which made the selection of our suppliers and specialist installers a simple “One stop shop” choice.”

Peter Wright, Project Manager,
Alstom Power Ltd.

Further more a spokesman for the end customer - Ratcliffe Power Station - on completion of the project stated:

“They showed a professional approach to undertaking the work and provided a total solution for all the project. We look forward to continuing our association with these actuation and automation specialists”



Within the UK, all Power station actuation work is carried out by the Actuation, Projects and Services team of Exeeco Ltd. Although owned by Rotork, Exeeco Ltd is operated as a separate independent entity. They are hugely respected by their customer base for the complete end-to-end service they provide.

The specific details of the products installed to ensure the control system performed to the desired specification were:

Re-Circulating Warm up Control Valve.

Rotork Skilmatic range SL411-A-8/2.0/2.3KC-A. This was selected and supplied complete with a Severn Glocon 5416 Series Control Valve which required a thrust of 2300lbf with a 40mm stroke complete with 4-20mA control and feedback signal with an accuracy of < 0.2%. At an operating speed of 35 seconds, open to close. Configurable to failsafe- on loss of signal or power, continual- modulation control.

Re-Circulating Warm up Isolation Valve.

Rotork Skilmatic range SQ407-A6-E1-E-24V. This was selected and supplied complete with Mogas RSVP ¼ turn ball valve requiring a torque of 210 NM with a operating speed of 20 seconds open to close, 24VDC switching. Configurable to failsafe- on loss of signal or power, continual- modulation control

Re-Circulating Enclosure Outlet Header Isolating Valve and Bypass

Rotork IQ25 and IQ12 isolating duty actuators mounted on Dewrance Parrellell slide valves.

Re-Circulating Enclosure Outlet Header Regulating Valve

Rotork Skilmatic range SHL416-A1-12.5/40/10.2KC-A. This was selected and supplied complete with a Severn Glocon 5416 Series Control Valve which required a thrust of 10,200lbf with a 4" stroke complete with 4-20mA control and feedback signal with an accuracy of < 0.2%. At an operating speed of 95 seconds open to close. Configurable to failsafe- on loss of signal or power, continual- modulation control.



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A full listing of our worldwide sales and service network is available on our website at **www.rotork.com**

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Local Office:

