

Power Station Shutdown Actuation Services

Actuation, Projects and Service **EXEECO**

Over recent years valve actuators have grown in importance in power plants of all types and ages. Actuators are recognised as major contributors to efficiency, economy and safety. They facilitate the quick start-ups demanded by today's commercial pressures and play their part in meeting the emission reductions demanded by environmental legislation.

To meet the above demands and insurers' requirements, often driven by pressure vessel regulations, more and more power stations are insisting that their actuators are routinely overhauled during their annual shutdowns.

We carry out this work on behalf of power stations and every year we overhaul thousands of electric, hydraulic and pneumatic actuators and their associated control systems both on site and in our specially designed service centres. We carry out this work (remove, service/repair, test, reconnect and recommission) on a wide range of electric, pneumatic and hydraulic actuators, including third party manufactured units.

"Exeeco's Actuation Project and Services team handled completely the overhaul of over 250 actuators for us over a number of years in liaison with our principle Outage contractor. They assisted us throughout the pre-shutdown planning right through to re-energisation and ensured that all our actuated valves were working correctly. During the shutdown itself they were proactive and helped us solve the unforeseen problems that occur on projects of this scale and ensured that we met our re-energisation deadline. Exeeco have also held the station service and maintenance contract for many years offering a professional service to time and cost"

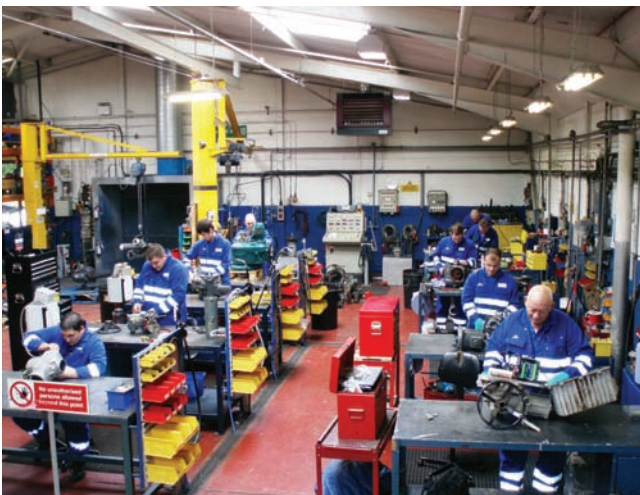
Nick Parker
Electrical Maintenance Engineer
Drax Power Station



Typical Shutdown Actuator Overhaul Package

This entails the following and refers to "any" actuator type or size:

- Initial site visits to the power station to agree scope of works. This typically takes place over 12 weeks before the shutdown to ensure all the necessary provisions, facilities and materials are in place to enable the full scope to be completed during the shutdown.
- Actuator removal (any type) to facilitate valve overhaul by others on the first day of the shutdown. Typically over 250 actuators are removed from a unit on a thermal plant.
- Actuator local inspection/health check and provision of detailed inspection report.
- On-site minor repair of actuators as agreed with station engineer (e.g. cover o-rings / switches etc.)



- e) Removal of some of the actuators for full in works overhaul in line with recommendations with the above report (and agreed for off site overhaul by station engineer.) An in works repair consists of:
- **Receipt of the actuator in works**
 - **Initial clean, inspection and bench test**
 - **Complete strip-down**
 - **Agree costs**
 - **Re-build using replacement greases and oils and seals where required**
 - **Replacement of faulty parts using genuine spares where available**
 - **Repainting to specification required**
 - **Testing of Torque or Thrust**
 - **Issue of a report and test certification**
 - **Return delivery to Power Station**
 - **A 12 month warranty**
- f) Actuator refit after valve overhaul.
- g) The commissioning of any actuator in local and remote on any valve or damper whether it has been overhauled or not, to provide the station engineers with the confidence that all actuators have been function checked before the unit comes back on line.

Typically the above functions are put onto a spreadsheet and a fixed price provided for each function in relation to actuator type, size and manufacturer. Alternatively the work can be carried out on a T&M basis.

Within the UK, all power station actuator overhauls are carried out by the Actuation, Projects and Services (APS) team of Exeeco Ltd. Although owned by Rotork, Exeeco Ltd is operated as a separate independent entity and therefore aren't limited in the scope of support they can offer customers. They are hugely respected by their customer base for the complete end-to-end service they offer their customers.

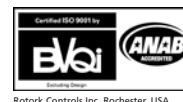
Services offered by the Exeeco workshop:

- Any type of electric actuator repair
- Hydraulic ram and actuator repair
- Rotork P range pneumatic actuator repair
- Gearbox overhaul
- Factory fit



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