Critical Control Actuator Upgrade

Site Overview
Located 550kms North of Brisbane the Gladstone Power Station is a 1600 megawatt facility and it is one of the largest power stations in Queensland. The plant primarily supplies power to domestic energy users along with various alumina, cement and gas processing facilities within the Gladstone region.

The Project
The NRG Gladstone Power Station was experiencing challenges in better tuning their boilers. This was primarily attributed to the limited capability of the existing actuators.

Acrodyne was approached to offer an option to replace actuators on the following:
• ID Fans (Induced Draft)
• FD Fans (Forced Draft)
• PA Dampers (Primary Air)
• TC Dampers (Temperature Control)
The Solution
Due to the critical nature of the control process, the Beck electric actuator with its well-earned reputation for superior control, reliability and outstanding low-maintenance durability was clearly the best solution for this application.

The Beck Group 11-309 and 22-409 were supplied and offers the following critical features:
- High precision and unbeatable reliability
- Unlimited duty cycle
- Capable of small incremental adjustments

The Result
The Beck Group 11 and Group 22 actuators provided the plant operators with the opportunity to tune the boiler much tighter, thus providing a more efficient energy production process. Acrodyne took a leading role in recommending equipment and installation detail by providing a packaged solution with full bracket mounting, linkage hardware and electrical loom plug connection. Acrodyne also supported the project with site commissioning during each of the six outages.

Now with the units installed and the after sales service and support of Acrodyne, NRG Gladstone Power Station can enjoy the following benefits:
- Reduced emissions
- Exceptional accuracy and control
- Greater efficiency
- 3 year warranty

Products and Services Used
Beck Group 11 Electric Actuator
Acrodyne Sales and Service