

250 SQ actuators in Dapu Thermal Power Plant in China

A few months ago, Bernard Controls equipped a Chinese thermal power plant with 250 INTELLI® electric actuators in Dapu County, Guangdong Province, China.

The construction of this two-unit coal-fired power plant (2* 600 MW) started in 2014 when the Guangdong Yudean Group decided to upgrade the facilities. Bernard Controls China, well implanted in the region, took part in this huge project and supplied quarter-turn electric actuators with INTELLI® integrated control.

These SQ models were installed on two different parts of the site: first, in the desulfurization process (115 actuators). Then, on dampers, cooling water system and waste water treatment system with 135 actuators overall. For instance, dampers control the primary and secondary air on the plant, by blowing the high pressure air and providing enough air to burn the coal powder.

Moreover, Siemens provided their PCS7 distributed control system (DCS). Almost all equipments have been connected to it. Thus, a redundant Profibus DP fieldbus was requested by the contractor for the DSC to communicate information and commands with multiple actuators wired in series.

Dapu Thermal Power Plant has been finally approved as functional after a full week of tests: During these 168 hours where the plant run 100% of its capacity, the whole 250 SQ electric actuators proved to operate perfectly. BERNARD CONTROLS CHINA's team was pleased to participate in this successful project!



Bernard Controls' quarter-turn SQ actuators mounted on valves on Dapu Thermal Plant

About BERNARD CONTROLS

BERNARD CONTROLS designs & manufactures electric actuators and control systems for industrial valves' automation. Global leader in the nuclear market, BERNARD CONTROLS is one of the main actors in the global actuation business.

BERNARD CONTROLS is present all over the world and coordinates its activities within 4 Operating Areas which gathers 16 Operating Units in Americas, Asia, Europe and India / Middle- East / Africa. Our 3 Manufacturing Units are located in China, France and in the United States. The Group also relies on more than 50 agents and distributors throughout the world.

Leader in the nuclear market, BERNARD CONTROLS is also the close partner of challenging sectors such as Power generation, Water, Industry, Oil & Gas. Its solutions are suitable for all applications from on-off to high duty fast and precise modulating. The company's products & organization have been certified according to main international standards (ISO 9001 - ATEX, INMETRO, GGTN, IECEX, INERIS, BUREAU VERITAS - CSA, FM, NEMA 7 and 9, TÜV...) and approved by the largest prime contractors & industrial players worldwide (ADNOC, ALSTOM POWER, AREVA, BLUE CIRCLE, BUREAU VERITAS, ENEL, EDF, ESKOM, GAZ DE FRANCE, GAZPROM, KNPC, KOC, LAFARGE, NIOC, PETROBRAS, QATAR PETROLEUM, SAUDI ARAMCO, SHELL, SOFRESID, TRACTEBEL, TECHNIP, TOTAL, VEOLIA...).

