

Record-breaking CCPP relies on AUMA Foundation Fieldbus actuators

EDF combined-cycle power plant, Bouchain, France

AR17001 | AUMA APPLICATION REPORT

EDF's record-breaking Bouchain combined-cycle power plant deploys electric actuators from AUMA for its challenging valve automation tasks.



With a record thermal efficiency of 62.22 percent Bouchain combined-cycle power plant (CCPP) was rated the world's most efficient gas-fired power plant by Guinness World Records. The plant uses a single GE 9HA gas turbine and has a generating capacity of 605 MW. To achieve such high efficiency, GE deployed an advanced distributed control system based on Foundation Fieldbus (FF) communication. For this reason, actuation technology supporting Foundation Fieldbus was required.

CUSTOMISED FF SOLUTION

AUMA actuators with Foundation Fieldbus interface proved to seamlessly integrate into this environment. In addition, EDF had already gained positive experience with AUMA actuators in other CCP plants: Blénod, and Martigues (France), and West Burton (UK).

Prior to installation, AUMA engineers worked closely with GE to adapt the electrical connections at the actuator controls to the specific requirements of the plant. AUMA also provided extensive training to EDF staff at Bouchain CCPP.

CERTIFIED FOUNDATION FIELDBUS ACTUATORS

Under Foundation Fieldbus, the actuators allow for reliable and rapid exchange of process data, commands, and feedback and alarm signals. Parameters can be set or read remotely, and the full diagnostic capabilities provided by AUMA AC intelligent actuator controls can be exploited, thus enhancing process monitoring and increasing plant availability. The actuators also provide the necessary intelligence to act as Link Active Schedulers (LAS) and manage the direct communication between field devices within the network.

AUMA actuators are certified and registered with FieldComm Group, and comply fully with the Foundation Fieldbus H1 protocol. A Device Description (DD) provided by AUMA facilitates actuator integration.

Project responsibility:
AUMA France

www.auma.com



POWER

APPLICATION

Combined-cycle power plant

AUMA SOLUTION

- > SA actuators with intelligent AC 01.2 actuator controls
- > Foundation Fieldbus
- > Customised electrical connection
- > Customer training

CUSTOMER BENEFITS

- > Seamless Foundation Fieldbus integration

