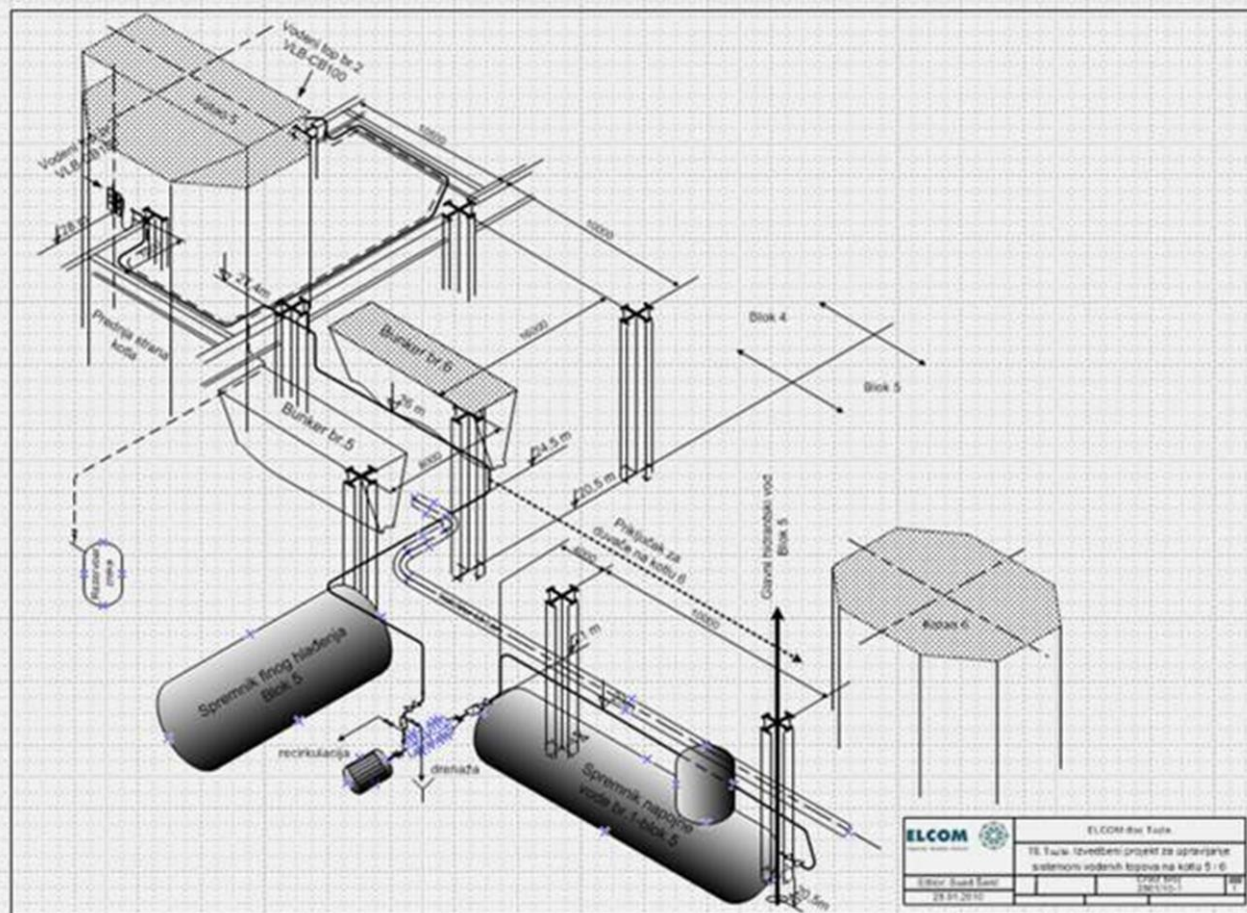


ELCOM d.o.o. is specialized in Totally Integrated Automation (TIA), containing electrical engineering and software development for the automation of production processes and machines, production of MCC and control cabinets as well as onsite installation, commissioning and acceptance testing (FAT, SAT, SIT)



Sootblowing system - water cannons for boilers of Units 4, 5, 6 in TPP Tuzla

Customer: JP Elektroprivreda BIH



Certificates

We have proven our competence as Siemens Solution Partner Automation in the following areas:

- Automation System SIMATIC
- Human Machine Interface SIMATIC HMI
- Process Control System PCS7

Process description

A Water Cannon spraying a water jet on the waterwall (evaporator of a typical power plant) on the opposite side of the boiler, typically some 20 meters away with an accuracy of about 0.2 meters!. The jet is going through the flame (during normal operation or "on-load") and impinging in the deposit. The backbone of the Intelligent Sootblowing system are so-called Water Cannons. These cannons are essentially computer controlled installations, able spray a water jet onto the waterwall on the other side.

The process of intelligent sootblowing is largely made possible because of the fact that these Water Cannons can selectively clean certain area's. This implies that a cannon, is capable of cleaning only when and where needed.

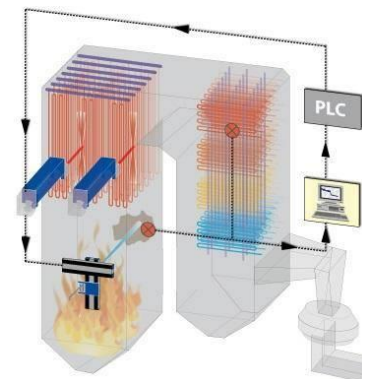
Challenge

Implementation of a cost efficient and user friendly process control system with as less as possible classical cabling which have to result in a very fast and easier cabling, engineering and commissioning of a very high level. Full operational system in a very short time.

Very detailed diagnostics and intuitive representation of current step for fast fault analysis and low deadlock times. Robust solution to endure harsh environmental conditions and 24h 7 days a week work.

Solution

The solution is a totally integrated automation architecture with PROFIBUS based topology. Distributed ET200M stations with PROFIBUS interface are connected to the central 317-2PN/DP processor. One PC station is connected via industrial Ethernet to the controller. Advantages of Water Cannons relative to conventional retractable sootblowers that work with steam as cleaning medium are numerous. The Water Cannon can be controlled with greater resolution, reach the whole surface area, is gentler to tube material, uses low cost water contrary to precious steam ect. As a result Water Cannon technology is replacing conventional sootblowers in many applications, most notably in coal fired boilers..



Information about the Siemens Solution Partner Program

Under the Siemens Solution Partner Automation and Power Distribution Program, we join forces with our Solution Partner. By merging our product and systems expertise with the application and industry knowledge of our partners, we have created a common basis for the fast, smooth and highly efficient implementation of your requirement –customized solutions for your competitive advantage.

www.siemens.com/automation/solutionpartner

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