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)

Automation of stacker-reclaimer

Customer: JP Elektroprivreda BiH

www.elcom.ba
Process description

Bucket-wheel Stacker/Reclaimers travel on a rail track alongside the piles of material, offering the potential to selectively stack and reclaim materials in different stockpile sections. This is carried out in two quadrants (directions) on both sides of the track. Four-quadrant reclaiming is possible with units featuring tripper-trailers that can be uncoupled. Active stockpiles may be stacked and reclaimed within the traveling limits and operating radius - up to the boundary zone of the storage area on the boom side of the machine. On the trailer side, a clear space, or box cut, is provided, which permits the bucket-wheel to cut into a free end face of the pile.

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. Very detailed diagnostics and intuitive representation of current step for fast fault analysis and low deadlock times.

Solution

Robust solution to endure harsh environmental conditions and 24h 7 days a week work.

Project overview

- 50 motors
- 15 analogue instruments
- 500 digital signals
- Control system with 315-2PN/DP
- 2 OS stations with WinCC v7.0
- 5 ET 200M

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
- Industrial Ethernet and Profibus DP
- Based on network topologies
- Micromaster 4 frequency topologies
- Absolute value encoders
- 5 IP cameras
- SISTORE camera monitoring system

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

ELCOM d.o.o.

M.M.Dzidara-Stupine B-2
75 000 Tuzla
Bosnia and Herzegovina
Phone: +387 35 305-700
Fax: +387 35 305-710
www.elcom.ba
info@elcom.ba