

AIC successfully revamped charging and discharging control system of Caleotto Spa

AIC has been awarded from Caleotto Spa, a joint venture between Duferco and Feralpi Group, for the complete revamping of the charging, handling & discharging control system of Reheating Furnace as well as the Roughing area services of its Wire Rod Line.

This job follows two previous projects, fruitfully accomplished in the first part of this year and focused on helping the customer to come back into operation after a forced long-time shut-down.

The scope of supply of this new agreement included several task as following:

- New power control switchboards for Furnace handling & Roughing mill services, both equipped with Allen Bradley Inverters PowerFlex755 & Soft-starters SMC-Flex as well as Allen Bradley safety remote I/O
- N°1 PLC cabinet equipped with Allen Bradley ControlLogix cards and suited to control Furnace charging & discharging area. The new PLC will be totally integrated into the existing automation platform for the whole mill, already supplied by AIC several years ago.
- New control desk for Furnace handling, suited with new HMI stations on a Wonderware Intouch platform for the supervision of charging / discharging parameters and combustion process.
- Upgrade and extension of main control pulpit with the aim of collect and visualize on a maxi-screen, through web interface, cameras signals and SCADA screens.
- Tracking system for the monitoring of each billet charged into the walking beam Furnace among the rolling mill stands up to the coils forming area.
- CCVE system for a continuous monitoring of most strategic and critical areas, based on state of the art equipment such as a digital recorder, dome type cameras and special cameras for the visualization of images inside furnace.
- Set of sensors such as position transducers and laser measuring devices.

Engineering design, CAD drawing, PLC&HMI software, electrical installation and commissioning completed the scope of supply.

The time schedule of the job was based on a complete delivery of the whole supply within the end of 2015 and a cold & hot commissioning during the Christmas shut-down; each commissioning step has successfully accomplished with a special care of time schedule and on-field activities

The job allowed the customer to optimize the production process thanks to a deep integration between the different control system of the plant and to manage the furnace handling from the main desk, without any additional need of local control.

The project follows a major revamping of the plant performed by AIC in 2008 to replace the main drives, the control pulpits, the master speed mill control and the HMI system.

Caleotto Spa is a newco created by the agreement between Feralpi Group and Duferco with the aim to buy the wire rod mill located in Lecco (Italy), controlled in the past by Lucchini and Severstal. The plant has a capacity of 300.000 tons / year and it rolls billets produced by Feralpi and Duferco in their meltshops in Calvisano and San Zeno (Brescia, IT).

AIC is a global system integrator providing advanced and tailored automation solutions for the steel industry, with the aim to continuously improve both efficiency, competitiveness and safety of the production processes. With more than 800 applications worldwide and 40 years of history, AIC can boost an unique experience in both greenfield and revamping projects in long products rolling mills and continuous casting machines.

This press release is available at

- <http://www.aicnet.it/rassegna-stampa/>

Contact for journalists:

Mr. Roberto Migliorati

- email: roberto.migliorati@aicnet.it
- Tel: +39 0365 826333

AIC Automazioni Industriali Capitano sites:

- Italy (Headquarters & Workshop)
- United States of America (Sales & Service)
- India (Sales & Service)