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Project at Cold Spring Brewing Company

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Local control via tablet PC

Automation of the Softwerk mixing plant with Plant iT

Project at Cold Spring Brewing Company

www.thirdstreetbrewhouse.com



Early 2012 ProLeiT received the order by its US partner GEA Process Engineering for the automation of the new project at Cold Spring Brewing Company in Minnesota, one of the leading producers of exclusive beer and craft beer brands for major retailers in the United States. The entire production area of the new brewery – called "Third Street Brewhouse" – which ties in with the existing packaging facilities, was supplied by GEA.

The new high performance brewhouse was designed as a 5-vessel-brewhouse (incl. wet mill) to brew 12 brews per day. The new plant includes, in addition to the new brewhouse, a malt handling with two silos, a supersack station and a dry mill. The cellar area was equipped with 12 fermentation and storage tanks and 4 bright beer tanks.

The brewery has a special focus on contract brewing, but will also craft and distribute their own brews. The new plant has been completely automated by the ProLeiT process control system brewmaxx based on a Siemens S7 PLC. Thus Cold Spring Brewing Company owns a state-of-the-art plant in technology and process automation standards. For the automation the following modules were used: brewmaxx Direct iT, brewmaxx Acquis iT and brewmaxx Liqu iT (all V8.2).

The commissioning of the brewery took place at the end of May 2012. The first brew already was made after four days of commissioning – on May 30, 2012. The commissioning was made in collaboration with ProLeiT Iberia and has been completed successfully at the beginning of July 2012.

First training at ProLeiT Corp.

www.proleit.com



Thomas Scheller, Technical Director of the US subsidiary ProLeiT Corp., recently held the first training course – the "Plant iT basic course based on Rockwell Automation Controllers". A room made available by the ProLeiT partner Avanceon was the ideal training venue – fully equipped with 16 LCD

screens, laptops and a beamer. The 16 training participants – i.e. end customers (MillerCoors

and Sierra Nevada Brewing Co.) as well as customers (Avanceon, Foth Production Solutions, ICC Inc., Pall Corporation and Shambaugh & Son) who will sell engineering services on the basis of the Plant iT process control system in the future – were thus perfectly equipped for the comprehensive training programme lying ahead of them.

On behalf of ProLeiT, we would like to express our heartfelt thanks to our US partner Avanceon for their excellent support during the first training week in the USA.

Local control via tablet PC

www.werner-mertz.de



The administration building completed in 2010 – a highly energy efficient house.

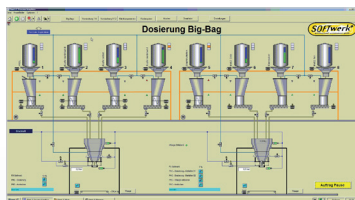
In order to consistently keep its production facilities – including the control components – up to date, Werner & Mertz, a prestigious manufacturer of cleaning and care agents (sold under the brand names of Frosch, Erdal, emsal, tuba and tana) with headquarters in Mainz, relies on ultra-modern plant automation technology. Within the framework of a refurbishment project for improving the energy efficiency and sustainability of the Frosch liquid laundry detergent production, a detergent production sub-plant will be rebuilt in the autumn of 2012 and equipped with a state-of-the-art control system including an S7 controller. The production facilities basically consist of two double batch plants and buffer tanks which are consistently controlled via the

Plant Batch iT system – from the valve node with the corresponding raw materials up to the pig discharge towards the bottling facility. Each double batch system is assigned two tanks with agitators. They can be filled with steam or cooling water via external heating or cooling ducts. The raw materials are added to one of these tanks one after the other. The exact quantities are captured by tank weighing cells within the framework of the Plant Batch iT system.

In addition to the – already standardised – PP/PI and QM interface towards the in-house SAP system, the ProLeiT process control system of this sub-plant will be equipped for the first time with a WLAN tablet PC for local control.

Automation of the Softwerk mixing plant with Plant iT

www.hoffmann.at



The process image indicates the dosing of the big-bag unit

Elektrokohle Hoffmann, the world market leader in the manufacture of carbon brushes for the automotive industry, erected a new building for a metal mixing plant in the Austrian town of Bad Goisern. This building was specifically designed to meet the requirements of a modern mixing plant: the flow of all raw materials is organised consistently from top to bottom. The raw materials added on the upper floor are processed in precise dosing and weighing operations in order to produce a large number of mixes ready for pressing. The finished product is packaged and labelled for further local processing in Austria and also for export to Mexico or China. Founded in Wels/Austria in 1998, Softwerk can rely on an in-house batch specialist who is an old hand: Thomas Neudorfer, Managing Director of the Softwerk affiliate Automation GmbH, familiarised himself with the batch technology while spending several years at ProLeiT before taking up his current position. Thanks to his long-standing specialist experience from a comparable project, he was able to quickly convince Hoffmann Elektrokohle of the

benefits of a batch system with integrated, process-oriented materials management. This plant operator was even more fascinated by the quality improvement to be expected thanks to high recipe reliability, i. e. the precise reproducibility of the raw materials used (batch tracking) via the ProLeiT Plant Batch iT system with optional SAP interfacing. An existing cooperation contract facilitated Softwerk's decision to take over the project as a general contractor, to undertake the basic automation in-house and to choose ProLeiT as a subcontractor for the implementation of the complex SAP interfacing. The plant entered initial operation at the beginning of this year without SAP interfacing, which was successfully implemented at the end of June. Today all recipes are handed over electronically from the higher-level SAP system to the ProLeiT control system, which executes the mixing orders fully automatically and returns all the relevant data concerning the quantities produced and the raw materials actually consumed to the SAP system. Certified by prestigious automotive suppliers, the plant satisfies the high quality requirements of the international automotive industry.



Article of **ARC Advisory Group** „Plant iT for the CPG Industries“

ARC Advisory Group, the leading technology research and advisory firm for industry and infrastructure, have just posted an interesting article related to ProLeiT. If you are interested in learning a little bit about their view of our company, please click on the link below:
www.proleit.com/arc