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Cargill Chooses SEL to Modernize and Automate Brazilian Starch and Sweetener Factory Substations

Marco Antônio Basso, Cargill maintenance and project manager in Uberlândia, praises SEL as the relay supplier most committed to customer service.

PULLMAN, WA — May 24, 2010 —

Cargill, a multinational corporation based in Minneapolis Minnesota, recently completed a modernization and expansion project of its Brazilian starch and sweetener factory located in Uberlândia, Minas Gerais. SEL provided relays for the electrical power system as well as services for its configuration and start-up. SEL products now equip and protect the factory's two new substations and have aided the expansion and modernization of the existing 138 kV system.



Cargill's new steam boiler plant for sweetener and starch production in Uberlândia, Minas Gerais (MG), Brazil.

Cargill representative Marco Antônio Basso said that in addition to the increased production capacity gained by the 2009 modernization project, the primary benefits were “the increased safety and reliability established through monitoring of advanced electrical measurement parameters. The most obvious improvement is the ease of integrating the equipment with other devices in the industrial process. Everything works, and the expected information is delivered at the correct time. It is simpler, easier, and much more reliable.”

Basso stated that when compared to the competition, SEL provided an average measurable savings of \$240 USD for each relay installed per year. “This is taking into account the cost of maintenance during the service life of the product,” said Basso. “These savings are due to the shorter information access time, which facilitates locating events in the field and aids correct resolution of system failures.”

Cargill installed the following SEL intelligent electronic devices (IEDs): SEL-751A Feeder Protection Relay, SEL-710 Motor Protection Relay, SEL-787 Transformer Protection Relay, SEL-300G Generator Relay, SEL-2411 Programmable Automation Controller, SEL-2600 RTD Module, SEL-3332 Intelligent Server, SEL-3351 System Computing Platform (HMI), and SEL-2407[®] Satellite-Synchronized Clocks. Based on the new IEC-61850 standard, the SEL modernization project solution with Cargill included: integration, time synchronization, substation communications system; equipment programming and configuration; support for panel factory acceptance tests; commissioning and field start-up support; equipment integration



SEL Engineer Vinícius Bertolucci and Automation Technician Max Oliveira participated in the installation of the relays.

support; integration tests for switches; solutions from its IT supplier; process supervision; and training.

“SEL’s integrity is visible in presales, during the sales process, and in postsales support,” said Basso.

“Products and services provided by SEL are of excellent quality. Postsales support was the most important,” he elaborated, “it [SEL] is the only relay supplier really committed to client needs. The company’s technical support is the only support on the market that deserves top marks.”

Cargill manufactures and sells food, agricultural, financial, and industrial products and services worldwide. Founded in 1865, the company employs 159,000 employees in 68 countries. In Brazil since 1965, Cargill started out in the fields, in the agricultural sector, and today is one of the largest food companies in the country. With its headquarters in São Paulo, SP, the company has a presence in 13 Brazilian states, with factories and offices in about 122 cities.

SEL serves the power industry worldwide through the design, manufacture, supply, and support of products and services for power system protection, monitoring, control, automation, and metering. SEL offers unmatched local technical support, a worldwide, ten-year product warranty, and a commitment to making electric power safer, more reliable, and more economical.

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