Newalta Water Treatment Facility Features PeroxyChem Custom OHP Technology

Newalta, with the help of PeroxyChem (formerly FMC Global Peroxygens) and Deisa, launched a new OHP plant at its Châteauguay Facility outside Montreal, Canada in April 2014. The plant was designed based on PeroxyChem patented OHP technology and pilot plant study performed at PeroxyChem’s LaZaida Spain hydrogen peroxide plant. Deisa was selected as a turnkey engineering, procurement and construction (EPC) contractor responsible for the construction and commissioning of the final advanced oxidation plant. The project took three years to complete.

“This plant is the product of a collaborative effort to bring the best-in-class technology, engineering, construction and operation to Newalta’s water treatment facility,” says Stephanie Montag, PeroxyChem global business director. “To achieve the best organic reduction efficiency, PeroxyChem formulated a new OHP grade hydrogen peroxide to perfect this advanced oxidation chemistry. This, coupled with the construction expertise of Deisa, will enable Newalta to remain a leader in water treatment in North America.”

The plant was completed in March and successfully started up in April 2014. It treats 15 gallons per minute and is capable of reducing 3,000 – 20,000 mg/L COD wastewaters from various industries to less than 1,000 mg/L COD, achieving a total organic matter reduction of 75%. In fact, in some cases the unit is able to treat higher concentrations of COD, depending on the nature of the wastewater. It will meet local publicly owned treatment works (POTW) pretreatment standards for highly contaminated and non-biodegradable effluents.

Focusing its activity on industrial process water treatment, drinking water, municipal and industrial wastewater treatment, as well as water reuse, Deisa develops turnkey projects, including feasibility studies, basic and conceptual engineering, construction and operation and exploitation of plants.

Newalta is North America's leading provider of innovative, engineered environmental solutions that enable customers to reduce disposal, enhance recycling and recover valuable resources from industrial residues. They serve customers onsite directly at their operations and through a network of 85 locations in Canada and the US.

About PeroxyChem
PeroxyChem is a global leader in peroxygen and adjacent chemistries, The company employs approximately 600 people throughout the world, with facilities in North America, Europe and Asia. With an unyielding commitment to safety at its core and backed by an exceptional team, the company prides itself on exemplary customer service, product quality, reliability and technical service. PeroxyChem manufactures high quality products and applications developed as a result of innovation and superior technical expertise. We supply customized chemistries for electronics, energy, environmental, food safety, pulp, paper, polymer and other industrial and consumer markets. Visit PeroxyChem.com to learn more.