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CLIENT

*City of Daytona Beach
Brennan Water Treatment Plant
Public Works Department*

PROJECT

*ClorTec On-Site Sodium
Hypochlorite Generation System*

ENGINEER/CONTRACTOR

*McMahan Construction Company
CPH Engineers, Inc.*

Challenge

In 1999, the City of Daytona Beach decided to upgrade its disinfection system at the Brennan Water Treatment Plant, identifying the need to replace its 25-year-old chlorination facility and comply with RMP requirements. The goal was to disinfect the city's water with the safest option and with the least cost of ownership. Various project delivery options were evaluated and the City opted for the design/build approach. A strict criteria of quality was established to which the design/build team provided a cost.

Solution

With a thorough evaluation of the needs of the Brennan Water Treatment Plant in the City of Daytona Beach, Carter|VerPlanck customized a solution that would provide the city with a safe and cost-effective alternative. C&V supplied ClorTec, the leading manufacturer of on-site sodium hypochlorite generation (OSG) systems. A key to eliminating waterborne diseases, OSG has been invaluable in producing safe and sanitary drinking water. The benefits of a ClorTec OSG system include safety, reduced operational costs, consistent solution strength, and production on demand. However, the most important benefits are reliability and cost control. The on-site generation of sodium hypochlorite is not only cost-effective, but a reliable and safe alternative to the dangers of transporting bulk sodium hypochlorite or storing chlorine gas at the facility. In addition, the ClorTec system doesn't require MSDS for plant staff. ClorTec is an efficient system that provides the benefits of commercially produced sodium hypochlorite without the hazards of chemical handling, storage corrosivity and price volatility.

Result

Since January 2000, the OSG system has fully met and exceeded the City of Daytona Beach's expectations. The quality of the equipment and the workmanship of the construction are excellent, and the City is extremely pleased to be operating the OSG system equipment as opposed to working with chlorine gas. As a result, the City of Daytona Beach has recently been honored with the best-tasting municipal water in the country at the Berkeley Springs International Water Tasting Festival in February 2005. Amazingly, while the City is enjoying safe and reliable chlorine production, they are also producing diluted sodium hypochlorite at about 14 cents per pound of equivalent chlorine gas. The City of Daytona Beach's success story is an example of good, reliable technology meeting superb operation staff and dedicated service provided by C&V.

For more information contact C&V at (800) 329-2255, or visit www.carterverplanck.com



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Verderflex Hypochlorite Pumping System