



City of Punta Gorda Improves Distribution System Residuals by Installing the Tank Shark® Mixing System in Two Million Gallon Punta Gorda Isles Reservoir

Historic Punta Gorda, located on the shores of scenic Charlotte Harbor on the west coast of Florida prides itself in the proactive management of its water supply. With the responsibility of providing water to over 34,000 customers in the 38 square mile service area, Punta Gorda manages 237 miles of distribution pipe and two water storage facilities. The 1 million gallon (MG) Burnt Store elevated tank and the 2 MG Punta Gorda Isles ground storage tank provide distribution system balance as well as the ability to meet peak demands and fire protection capacity.



As is common with many water utilities, Punta Gorda was having difficulty maintaining optimal chlorine residuals for water disinfection in their distribution system. After pursuing common operational strategies such as tank flushing, operating at lower tank levels to reduce water age and distribution line flushing, the utility staff decided to employ a Tank Shark® mixing system in the larger 2 MG Punta Gorda Isles tank.



The Tank Shark® uses a unique eductor technology to generate significantly more mixing energy which results in a fully mixed tank. The vigorous mixing prevents premature water aging and both chemical and thermal stratification. Without moving parts inside a tank, the Tank Shark® also greatly simplifies installation and maintenance. The system design allows for easy chemical injection for residual boosting and can accommodate various sources of chlorine including on-site generated hypochlorite, gas and bulk hypochlorite. Strong owner references cinched the deal for the Tank Shark® system which was installed by Odyssey Engineering and Process Solutions working together.

Today, Punta Gorda enjoys consistent disinfectant residuals as well as 75% less line flushing which has allowed operators to focus on other system needs.

"We now have better water quality with less work"
Brian Fuller – Water Plant Supervisor