

BAXTER

The City of Baxter Minnesota Installs and Starts-Up an 800 Pound-Per-Day Microclor® On-Site Hypochlorite System in Three Days



OVERVIEW

The City of Baxter, located in central Minnesota, has always endeavored to deliver superior and reliable service to their customer base with a strong dose of self-reliance. Their 5 million gallon per day water plant is located near a middle school and the Baxter Public Utilities Water Department (Baxter) determined that the safety of on-site sodium hypochlorite generation for water disinfection made the most sense for the community. The utility is no stranger to complex water treatment processes as it deals with high iron, manganese and naturally occurring ammonia for their chlorinated product water. So, pioneering on-site hypochlorite generation for the state of Minnesota was not unusual for Baxter.

When it came time to replace their existing on-site generation (OSHG) system, their past experience with on-site hypochlorite led them to heavily weight issues such as vendor service, parts availability, and overall maintainability. The utility briefly considered bulk hypochlorite, "We considered bulk delivered bleach, but preferred OSHG's better control over the quantity and quality of the product - and handling salt is safer than dealing with concentrated bleach" said Kevin Cassady, Public Works Supervisor. Ultimately, the ability to generate a precise and consistent bleach concentration with just salt, softened water and electricity won out as the chosen process alternative



Kevin Cassady, Public Work Supervisor of Baxter, MN standing next to the 800 pound-per-day Microclor® OSHG system

"We were told it was a simple system to install, but I couldn't believe just how easy it was. The Utility installed it in only 3 days. The system had a few startup hiccups, but every time PSI's service techs handled the issue promptly and professionally. Before purchasing, I called many Microclor® references and they all said positive things. Like many small communities, we do not have a dedicated water department, so we needed a system that was dependable and reliable - I highly recommend the Microclor® OSHG."

Kevin Cassady, Public Works Supervisor Baxter, Minnesota

Again, based on their experience with OSG from their previous system, the utility carefully considered the OSHG alternatives on the market. Their evaluation led them to choose a Process Solutions (PSI) Microclor® on-site generation system. The safety of the vertical cell design, the inherent maintainability for cell cleaning and replacement as well as the experiences of other users all led Baxter to choose Microclor® OSHG.

By using the existing brine and hypochlorite storage tanks, Baxter was able to simplify the installation of the new Microclor® MC-800 (800 pounds per day of chlorine equivalent). The installation was completed in three days.

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