

# Case Study

Retort Enhancement Program, 2008

## Problem

A major food processor was experiencing extensive retort shut down due to over pressurization caused by sticking valves from mineralization. The system consisted of ten retort cookers with each having a manual on and off chemical pump and tank requiring extensive monitoring and testing. A retort cooker that had been exposed to a sticking valve could be down for days causing loss of production. This company was also experiencing bottle spotting / filming, which was causing high labor costs.

## Solution

US Water Services Field Engineering analyzed the system and determined a way to simplify the system to gain greater control over the mineralization and clear up the bottle spotting / filming.

A US Water Works Automation Plan was implemented, consisting of data management tools and state-of-the-art pumps, to gain greater control of the system resulting in the elimination of nine feed points to a proportional water flow feed point.

A US Water Services Preventative Maintenance Plan was implemented, which included scheduling of tests, collection sites and

and the assignment of different alarm levels to specific alarms.

Review of the previous chemical program noted the ability to combine multiple products into one custom blend. CWT 476 Plus was created to encompass the needs of the customer including being Kosher registered.

## Results

The US Water Works Automation Plan has achieved greater control of the mineralization thus eliminating sticking valves, over pressurization and poor retort performance. The US Water Services Preventative Maintenance Plan implemented a proactive, instead of reactive, approach to this system resulting in the reduction of acid cleanings and increased efficiency regarding maintenance. Not only did CWT 476 Plus speed up the process by being Kosher registered, it also keeps the cans free of bottle spotting / filming.

## In This Case Study:

- Automation
- Bottle Spotting / Filming
- CWT 476 Plus
- Food Processing
- Increased Efficiency
- Over Pressurization
- Retort Can Cookers
- Retort Shut Down
- US Water Works