



Hot Water Generation

Customer: ConAgra (formerly Torbitt and Casteman)

Location: Louisville, KY

Scope of Work: Armstrong International was called in to address a need in ConAgra's cooking process. They wanted to see if they could increase throughput without increasing costs. Armstrong recommended that they could localize their hot water heating source close to the process by installing a direct fired gas water heater. This would take the current process cooking system off the steam loop which pleased ConAgra greatly because of their capacity problems.

- Upgrade Projects:**
- Armstrong provided an engineering analysis on how the steam to gas fired conversion could occur
 - Armstrong provided a complete payback analysis with a total turnkey solution
 - Armstrong provided a customized package around the Flo-Direct® Complete Thermal Exchange (CTE) water heater to minimize process interruption during the install time and reduce noise in the process area

Contract: The project value was \$160,000.

Terms: The project was completed in May 2004.

Benefits: ConAgra has seen their boiler load drop from 95% to 50%, while their process received a steady flow of 200°F water. Most importantly, their cook cycle time has been reduced by four minutes!

