

# OneFlow®

## Case Study

**Date:** April 2007

**Project:** San Bernardino Sheriff's Department,  
Central Detention Center

**Installation Address:** San Bernardino, California

**Objective:  
Evaluation** Watts OneFlow® Technology for  
Hot Water Application

**Equipment:** Hubbell Booster Heater Model  
A1558T4, 58KW Heater 2.32 gpm  
flow

**Water Quality:** 470 parts per million total dissolved solids  
9 grains per gallon of hardness



**Duration:** The equipment was to be installed for a 90-day evaluation period beginning on November 14th, 2006 to February 14th, 2007. The actual inspection was performed on February 17th, 2007.

**Parameters:** A Hubbell booster heater was fitted to heat untreated incoming city water serving a kitchen in a prison facility in San Bernardino County, CA. Within 90 days of initial installation without water treatment, the six elements inside the heater scaled requiring replacement. Our test involved replacing three of the six elements with new and leaving the other three scaled elements in place for a 90-day test with OneFlow® technology scale control media.

**Installation:** The installation was performed by the staff of the detention facility with supervision by Connor Lavis of CSI. The two OF817-8H equivalent units were installed in parallel with 1" valves to allow for proper flow to the 2" main line feeding the Hubbell booster heater.

**Results:** After the 90-day period was up, there had been no disruption of flow or service issues since the trial installation.

The heater was opened to find no scale with the heater after the 90-day period. The new elements had a fine white crystal dust which wiped off easily by hand. The older scaled elements had a reduction of approximately 90% of the original scale buildup after the test.

**Conclusion:** It is the firm belief of The San Bernardino Sheriff's Department that OneFlow®'s Template Assisted Crystalization (TAC) Technology is a viable solution to that of traditional water softening systems for their application. They are currently evaluating other facilities for applications to use this technology.

