



## FOOD INDUSTRY

### **USDA Meat Plant Reduces Water Treatment Costs With a Garratt-Callahan Solution That Outperforms the Others**

#### **Problem**

A USDA regulated meat packing plant in California was being poorly served by its incumbent water treatment supplier, who was running the plant's evaporative condensers at less than three cycles of concentration while overfeeding treatment chemicals. These practices were driving up the plant's costs for both chemicals and excessive water usage and discharge. In an effort to contain costs, the plant operators agreed to try a non-chemical water treatment device on one of the three evaporative condensers, with near disastrous results.

#### **Solution**

Asked to provide an alternative, Garratt-Callahan's field representative immediately implemented a new water treatment program on two of the evaporative condensers, installing equipment for pH control and conductivity control, as well as dual biocide timers. In addition, their cycles of concentration were boosted to 4.5. In the meantime, he monitored the performance of the third condenser's non-chemical treatment. The results were dismal, with significant scaling. After one year, the gadget test was terminated in favor of the Garratt-Callahan treatment program already underway on the other two condensers.

#### **Results**

In two years, the Garratt-Callahan solution has saved the plant operators \$9,800, including \$5,000 in reduced chemical costs and \$4,800 in reduced water and sewer costs. Even adding back the cost of the sulfuric acid for the pH control, the plant's water treatment costs have been reduced by a net \$7,000. Best of all, the new program has proven more effective than either the prior program or the non-chemical experiment.

#### **Conclusion**

Combining expertise based on experience and state-of-the-art products, Garratt-Callahan's water treatment solutions set performance standards while saving money.

**Garratt-Callahan: Superior water treatment programs that cost less.**