

# PROJECT PROFILE



## FLORIDA PRODUCTION ENGINEERING ELIMINATES CHEMICAL WATER TREATMENT

### APPLICATION

Scale & Bacteria Control  
Two Cooling Towers  
Chilled Water Loop  
Process Cooling Loop

### CUSTOMER STATEMENT

"Griswold Water Systems is providing excellent scale and bacteria control in all our water loops without a drop of chemicals. Higher operating cycles of concentration are resulting in considerable water savings."  
- Tool Room Manager

### FPE WATER SYSTEMS

Process Cooling Tower  
Process Water Closed Loop  
Chiller Cooling Tower  
Chilled Water Closed Loop

### PROBLEMS

Scaled up cooling towers  
High bacteria counts  
Bio-Film  
Thermolator fouling  
Chilled Water Turbidity

### SOLUTION

Two 8" SBC'S  
Two 4" SBC'S  
Griswold Separator

### CUSTOMER PROFILE

Florida Production Engineering is a supplier to the world's leading automotive manufacturers including Daimler Chrysler, General Motors, Honda, Nissan and Toyota. FPE excels in the design and manufacture of plastic injection molded products including wheel trim, air bag covers, interior and exterior trim, and a variety of structural plastic products. The company has manufacturing facilities in two other states as well.

### RESULTS

Shortly after the SBC systems were activated existing scale deposits began to soften and dislodge from cooling system surfaces. The practice of stopping production runs to manually rout out clogged cooling passages in molds is no longer needed.

Chilled water turbidity and high iron counts gradually improved over the first 6 weeks resulting in clear water and low iron counts.

Bacteria counts were guaranteed by GWS to not exceed 10,000 CFU/ml. Within 3 weeks of commissioning the system bacteria counts in all loops stabilized below 2,000 CFU/ml and have remained stable for 6 months through the heat of the Florida summer.

A new remote monitoring system allows GWS to monitor SBC operation, conductivity and water meters through the internet .



Chilled Water Before and After



Tower Condition Before



After 30 Days Non-Chemical



#### PROPOSALS & ENGINEERING

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#### CUSTOMER SERVICE & MANUFACTURING

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GRISWOLD WATER SYSTEMS

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