

125 Ton Cooling Tower Heat Treating Facility



Pre-existing Condition

Existing Incoming Water Chemistry

• Conductivity:	311
• pH:	7.6
• Magnesium Hardness:	150
• Calcium Hardness:	90
• Alkalinity:	150
• Transformers:	SEVERE Failure
• Process Lines:	SEVERE Clogging
• Microbiological:	SEVERE

Chemical Treatment Program (Outsourced)

• Seasonal Chemical Treatment:	\$3,000
• Seasonal Maintenance: (Transformers & Process Lines)	\$15,00
• Seasonal Water Usage:	90,000 gallons

The Solution

Installed eH₂O Chemical Free Water Treatment System

- **Environmentally Friendly:** 100% Chemical Free Water Treatment.
- **Tri-Tron Pulse**, precipitates hardness minerals from the water.
- **Sani-Tron UV Light** deactivates the DNA of bacteria, viruses and other pathogens.
- Bag Filtration polishes water to remove dirt, debris, and solids.
- **MicroTron** conductivity monitoring ensures **100% efficiency**.
- Coupon rack to monitor the efficiency of the systems corrosion control.



The Results

System Performance Benefits

• Annual Chemical Costs Eliminated:	\$3,000
• Annual Reduced Maintenance Cost:	\$2,500
• Annual Water Savings: (Zero Bleed)	22,500 gallons
• Energy Savings: (Transformers)	\$10,000
• Microbiological Control: (Zero Bacteria)	Drinking Water Standards
• Process Lines	\$2,500



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