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## **High Efficiency Cooling Tower Treatment & Water Conservation**

- NO acids or hazardous chemicals
- Mitigates scale, corrosion and bio-fouling with reduced bleed of tower water or chemicals.
- “New Dimension” cooling technology permits operation at higher cycles
- NO MORE complicated traditional chemical index programs, controls, chemicals and excessive tower blowdown
- It doesn't get any **GREENER!** This technology concentrates the "natural" minerals in the water

### **How It Works**

- Proprietary HES pre-conditioning system removes scale forming ions from tower make-up
- Permits high makeup water concentrations (10-30 COC)
- Silica concentrates without deposition (250-600 Mg/L soluble silica)
- Silica chemistry protects metals from high TDS corrosion
- High TDS and pH inhibits bio & pathogen growth (biostatic tower water)
- And the only material used is salt, an inexpensive and sustainable natural commodity

### **The Benefits**

- **Significant Water Conservation = Significant Water and Sewer Cost Reduction**
- Typically reduces total treatment cost by 40-50% or greater
- New Industry Standard for Corrosion Protection (<0.5 MPY for mild steel, copper, galvanized, aluminum)
- **Perfect for ISO 14001, Sustainability Programs and LEED Certification points**

## **WCTI Water Efficient Pre-treatment Systems**

- WCTI proprietary / patent protected pre-treatment and monitoring systems
- HES (High Efficiency Softening) design; salt use 4#/ft<sup>3</sup> resin where conventional softeners use 12#/ft<sup>3</sup>
- Salt Efficiency: 4500 Grains Hardness removal per pound of salt
- 30-50% lower salt use plus 70% lower regeneration waste water
- Polished quality and minimum hardness leakage permits tower operation at < 1% water loss
- Economical design & simple operation, with proactive RPA service support
- RPA (Remote Performance Assurance) 24/7 on line remote monitoring ensures reliability
- HEF (High Efficiency Filtration) systems for waste water pre-treatment applications