No Blowdown – No Chemical Feed

DANGER
HAZARDOUS CHEMICALS

Cooling Tower Treatment

WCTI Patented Technology for Cooling Tower Treatment and Water Conservation
ZERO Blowdown Silica based Technology

- **High Efficiency (HES) removal of hardness minerals will eliminate scale risk**
- **Natural minerals in the water are used to eliminate corrosion and biological growth**
- **Cooling Tower Blowdown is reduced from 20-40% to less than 2%**

Water Conservation Technology International

Bringing **"Green"** Innovation to your Facilities

LEED (gain up to 5 points)

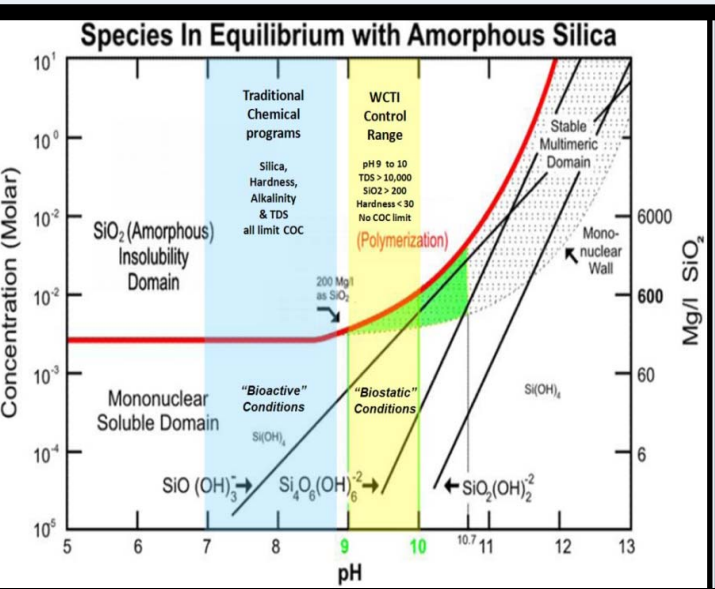
WE 2.0 - Innovative Wastewater Technologies (1)
WE 3.1 - Water Use Reduction – 10% (1)
WE 3.2 - Water Use Reduction – 20% (1)
WE 4.1 – Chemical use reduction (1)
WE 4.2 – Non Potable Use (1)

LOW CARBON FOOTPRINT

- ✓ Minimize heat transfer loss
- ✓ Avoid high energy consuming devices
- ✓ Eliminate manufactured chemicals

LEAN /OEE

❖Minimize water use and disposal costs	❖Optimize energy use (heat transfer) cost
❖Reduce capital expense / investment	❖Reduce equipment cleaning and replacement
❖Reduce variables for work flow improvement	❖Reduce chemical handling and storage
❖Reduce operator time and safety risks	❖OEE - Optimize Equipment Efficiency



Water Savings with WCTI

System Design Information	Current	Proposed
Cooling - Design Capacity Tons	1500	1500
Cooling - Peak Load Tons	1200	1200
Cooling - Average Load Tons*	1,000	1,000
Average Load Evaporative GPM	25.0	25.0
Cycles of Concentration	2.5	50
Blowdown GPM	16.0	0.5
Make-Up GPM	40.0	24.5
Avg Raw Total Hardness, mg/L CaCO3	200	0.5
Cost of Make-up per 1,000 Gals.		$ 2.00
Cost of Blowdown per 1,000 Gals.		$ 1.00
Current Annual Water Use	Gallons	21,024,000
Proposed Annual (Reduced) Water Use	Gallons	12,871,837
Annual Blowdown Water Saved	**Gallons**	**8,152,163**
Water Savings (before Regenerate cost)	$/Year	$ 24,066.46

More information – Contact www.water-cti.com