

SofTek™ and SSBrom™

An Economic Analysis

MB0411



Using an example 500 ton thermal load cooling tower operated with a standard water management program at 3 cycles of concentration (COC) and comparing it to a patented* SofTek – SSBrom program operated at 8 COC, makeup water hardness of 200 mg/l, we have calculated the following capital and annual operating costs.

| Cost Item | Standard Program | SofTek – SSBrom |
|---------------------------------------|------------------|-----------------|
| SofTek – SSBrom System Equipment | \$ 0 | \$13,700 |
| Blowdown | 2,422,688 gpy | 950,616 gpy** |
| Blowdown Water Cost @ \$4.50/1000 gal | \$10,902 | \$4,278 |
| Sewerage Cost @ \$2.75/1000 gal | \$6,662 | \$2,614 |
| Inhibitor Cost | \$4,550 | \$3,547 |
| Biocide Cost | \$4,900 | \$0 |
| Softener Salt | \$ 0 | \$2,154 |
| Monthly Service Charge | \$1,920 | \$1,920 |
| Total Operating Cost | \$28,934 | \$14,513 |

** Includes softener regeneration wastewater

Annual Operating Cost Reduction = \$14,421

A cost reduction which exceeds the installed cost of the SofTek – SSBrom System equipment package and you are saving 1,472,072 gallons per year of fresh water.

We provide the complete SofTek - SSBrom package: softener, control equipment, and soft water chemistry: everything from one supplier, for any size or use cooling tower.

ProChemTech International, Inc.

“Innovation in Water Management”

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*SofTek US patent 7,595,000, SSBrom US patent 7,927,470