

CCS/CCT Thermal Upgrade

Improved Thermal Capacity for Ceramic Cooling Tower Company Cooling Towers



Ceramic Cooling Tower Co.

Ceramic Cooling Tower Company (CCT) was one of the most respected companies in our industry's history, and with good reason. CCT's Permalite, Unilite, and concrete towers were built to perform and last. Today, some have operated for half a century, and most all are still in service.

Aging Distribution Systems

But these CCT towers rely on distribution systems designed decades ago with technology now outmoded. Some contain cast iron piping that rusts and degrades over time. Some suffer from antiquated lateral and nozzle designs that by today's standards, simply dump water onto the fill, preventing the tower from reaching its thermal potential.

Wastes Energy: No Turndown

CCT towers were not designed for turndown—the ability to achieve and maintain a calculated and uniform water coverage over the fill using specific spray patterns that retain their shape and efficiency—all through a range of pressures.

Improved Capacity Possible

Thermal performance of CCT towers can improve significantly. Furthermore, with an upgraded

distribution system, these towers are capable of energy efficient turndown operation.

CCS/CCT Thermal Upgrade

Composite Cooling Solutions, L.P. (CCS) can optimize the thermal performance of CCT towers through a CCS/CCT Thermal Upgrade. It is not a parts sell or about gutting the cooling tower. It is an engineered solution based on a CCS evaluation of the CCT tower, and CCS's special knowledge of these towers.

CCS: Uniquely Qualified

Composite Cooling Solutions, L.P. (CCS) enjoys a close connection to CCT. The same industry innovators who formed our company and direct us today were the CCT engineers who years ago designed CCT towers and their distribution systems.

Our engineers designed CCT towers from the 1970s until 2003 when CCT closed its doors.

Free CCT Tower Evaluation

CCS technicians will visit your site and inspect and evaluate your CCT tower. Our evaluation is holistic and always starts with the overall tower, its flow rate, and the objective for the tower.

Engineering Study

With these findings, CCS then engineers an improved thermal capacity solution. For this, CCS developed one of the most powerful analysis tools in the industry.

Proprietary Balancing Software

Toby Daley, chief technology officer for CCS, formerly designed CCT towers and their distribution systems. Daley also created a proprietary distribution balancing and analysis software program that enables precise modeling of the distribution system. It determines the lateral and nozzle layout and spacing to provide optimum coverage of the spray pattern over the fill using the CCS Multi-Flo nozzle and orifice system. The result is a completely upgraded distribution system—optimized to achieve turndown as low as 30-50%.

CCS is without peer in its ability to do this; No other company has this breadth of knowledge of CCT towers or the technology to provide an optimized distribution system upgrade.



Let CCS Help

Contact your CCS representative to schedule a CCT cooling tower evaluation.