

CASE STUDY

Solids Program Eliminates Cooling Tower Scale Build-Up

BACKGROUND

During the start-up of water treatment at a large federal facility, the cooling towers and chillers were only six months old. However, the cooling tower fill had already accumulated 1/4 inch of scale in some areas. (see *Before photos 1, 2*).

Due to the weight of the excessive scale buildup, it began to crumble and stack up at the bottom near the basin. Additional scalling could be found at the basin of the tower below the water line and the cooling tower hot distribution decks.

SOLUTION

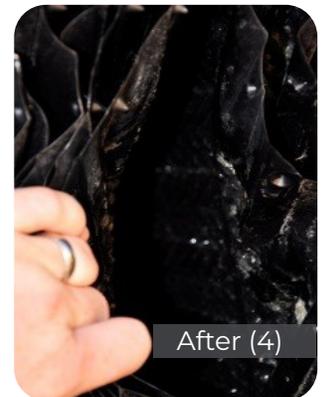
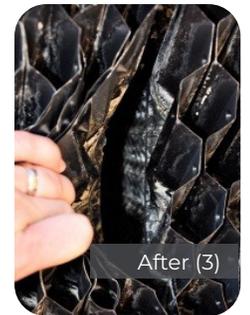
The water treatment company introduced the product OLC-C, a solid cleaner and dispersant designed to facilitate the removal of deposits and scale buildup in water systems.

RESULTS

Results were seen immediately. Within a couple of months, the scale got thinner inside the fill. After five months, the scale that had formed on the cooling tower basin also started thinning and even began flaking off. After a little over a year, the cooling tower fill was almost completely clean, and the basin scale had gone from 1/4" thickness to eggshell thin. (see *After photos 3, 4*).

Upon conducting the annual inspection of the chillers the following year, it became evident that the scale deposits had been effectively eliminated. The facility expressed satisfaction upon discovering that the 400-ton chiller was in a completely clean condition.

The solid chemistry water treatment distributor has been awarded an additional 14 buildings as a direct result of the successful implementation of the solid OLC-C program. Furthermore, they have come to appreciate the substantial benefits and value associated with solid chemistry water treatment technology and solutions.



DECREASED SCALE,
LESS ENERGY
CONSUMPTION



INCREASED
COST SAVINGS,
SUSTAINABILITY

PRODUCT USED

OLC-C
Scale Reduction/Cleaner