CASE STUDY

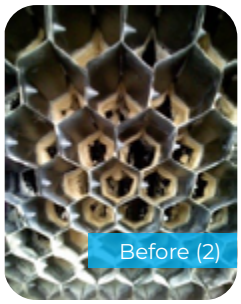
Solids Program Eliminates Cooling Tower Scale Build-Up

BACKGROUND

One of AP Tech's distributors began treating a large federal facility. At the time of start-up, the cooling towers and chillers were only 6 months old. Already, the cooling tower fill, had accumulated 1/4" scale in some areas *(see Before photos 1, 2)*.

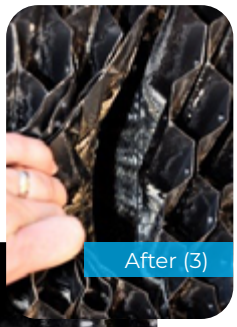
Due to the weight of the excessive scale buildup, it began to crumble and stack up at the bottom near the basin. Additional scalling could be found at the basin of the of the tower below the water line and the cooling tower hot distribution decks.

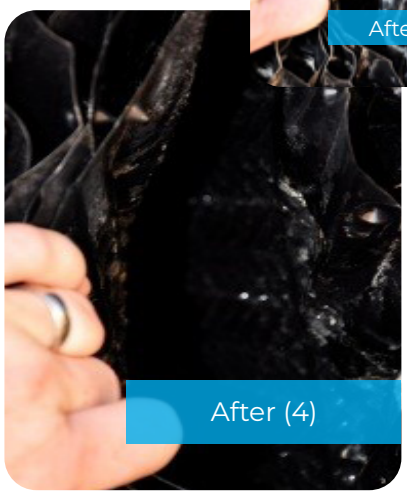

Before (1)


Before (2)

SOLUTION

It wasn't until the following year that the distributor was able to see the inside of the chillers. They began using OLC-C, a solid cleaner/ dispersant in solid form, which assists in removal of deposit and scale build-up in water systems.


After (3)


After (4)

RESULTS

Results were seen immedietly. Within a couple months, the scale got thinner inside the fill. After five months, the scale which 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 has gone from 1/4" thickness to egg-shell thin. (see *After photos 3, 4*).

The AP Tech distributor was present when the chillers were opened for an annual inspection the following year. It was evident that the scale deposits were being removed. The distributor was pleased to see the 400 ton chiller completely clean.

The AP Tech distributor has been awarded 14 additional buildings due to the success of the OLC-C program. In addition, they've learned the clear benefits and value of solid chemistry water treatment technology and solutions.

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