WATERTECH of America, Inc.

POLYDOSE TAGGED POLYMER

CASE STUDY

CHALLENGE

A manufacturing firm experienced high levels of scale within their cooling system, which resulted in over a week of downtime and lost production to clean and descale the system.

RESULTS

Watertech's Polydose product, plus continuous monitoring of the system, meant quick detection of the upset and quick response by our in-house pretreatment group. The facility avoided a costly system shutdown that would have resulted in over $2M in lost production.

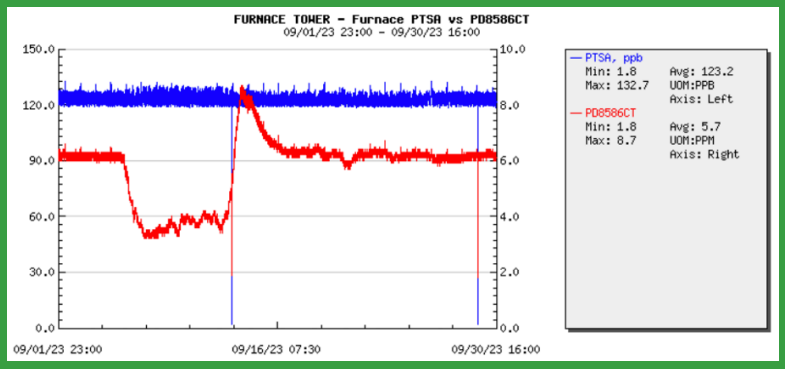
TOTAL SAVINGS

$2 Million +

SOLUTION

Watertech recommended **Polydose** a product that utilizes both an inert tracer and tagged polymers. The inert tracer provides the ability to monitor the formula feed rate while the tagged polymer is used as a condition upset monitor. They are monitored by an in-line sensor to accurately measure what is happening in the system and quickly identify any upsets.

The graph on the right shows an upset that was quickly detected. The inert PTSA tracer level (blue) indicated that the overall feed rate of the Polydose product was in range. At the same time, the tagged polymer level (red) began to drop. This was either indicating a possible dirty sensor or a system upset. The fact that the PTSA reading did not change suggested it was not a fouled sensor.



Testing with a handheld meter indicated that the sensor was reading both the PTSA and tagged polymer level accurately and was not in fact dirty. When the water quality was tested, the hardness levels were 5 times the normal level, indicating an issue with the softener. Our pretreatment group was quickly dispatched to service the water softener and repair a defective valve. Once the upset condition was resolved the tagged polymer level came back into normal range.

More than a water treatment solution.

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