

FLOWMARK PROJECT PROFILE

FlowMark Replaces Chemicals at New York Insurance Company

Overview

In October 2013 a side by side study comparing FlowMark Electronic Water Treatment to conventional chemical water treatment began at a prominent insurance company in New York. Towers 1 & 2 remained on chemical treatment and a FlowMark Electronic Water Treatment System model Mark-III was installed on the 6" steel condenser water pipe feeding towers 3 & 4. All chemical treatments to towers 3 & 4 were discontinued. This document details findings following the 9 month comparison. ****A second system (MK-IV) is now installed on towers 1&2.****

| Parameter | Chemicals | FlowMark |
|-------------------------|--------------|--------------|
| Mineral Scale | No New Scale | No New Scale |
| Biological Plate Count | Low 100's | Low 100's |
| Steel Corrosion | 1.141 MPY | 1.431 MPY |
| Copper Corrosion | 0.117 MPY | 0.160 MPY |
| Cycles of Concentration | 3.9 COC | 7.5 COC |

Conclusion

The FlowMark system was simple to install and required no plumbing to do so. There is less chance for water treatment upsets as no chemical pumps are required.

The performance of the FlowMark System has remained stable and comparable to the full chemical treatment program.

FlowMark has provided considerable water savings by almost doubling the operating cycles of concentration. Increasing cycles from 3.9 to 7.5 on an average load of 500 tons saves over 4,000 gallons of fresh water per day.



1 of 4 towers treated with FlowMark



MK-IV installed on 10" pipe



Mark-III installed on 6" pipe.