

# Details of Clearwater Dolphin Retrofit to FlowMark Technology

Two Dolphin systems treating 10" condenser water lines were installed in 2007 to eliminate the need for chemical cooling tower water treatment. A permit was issued to dispose of the tower bleed water in an on site well, recharging the groundwater. The systems performed well controlling scale, corrosion and bacteria until the first one failed in 2019 and the second unit failed in 2020. The manufacturer of the systems, Clearwater Dolphin had gone out of business and the systems could not be repaired. A decision was made to retrofit the Dolphin units to FlowMark Web Induction Technology without having to remove the plumbed in Reaction Chambers.



Plymouth MA Trial Court

## Project Details

- FlowMark retrofit systems purchased for 30% of original Dolphin project cost.
- Installation Time: One hour each with no shut down required.
- Conductivity set point = 2200 with 150 make up water. 14 cycles of concentration.
- Condenser water is crystal clear.
- Lab tests indicate bacteria levels consistently below 100 CFU/ml.
- Monthly Legionella testing is consistently non detect.
- No mineral scale or corrosion issues.



Replace Dolphin Controller with FlowMark

Run signal cables to Reaction Chamber



Install FlowMark Treatment Pads and cover with FlowMark Labels

