

CASE STUDY

Effective bacterial control using XZIOX for legionella control in the cooling towers involved in the manufacturing of sugar.

Our Technical Engineer and Supervising Chemist performed a study on the effectiveness of XzioX as a replacement for chlorine and chlorinated derivatives in the standard methods of production to the named a Sugar Company.

The Company

Sugar Company operates a number of cooling towers using sodium hypochlorite (chlorine) as the controlling biocide. As stated in Company's corporate literature: Company is committed to a process of continual improvement, including performance monitoring and review, in order to reduce environmental impacts associated with its activities. Ximax Water Solutions proposed to assist Sugar Company in fulfilling those objectives.

The Problem

Chlorine was not giving very good bacterial control; specifically, *Legionella pneumophila* control. Another factor that was causing concern was the bio-film build up on the cooling tower pack.

The Objective

To enhance Sugar Company's existing hygiene programmes in the replacement of the existing biocide with XzioX Chlorine Dioxide. Our aim is to also reduce the amount of chemical usage for this operation and make it as environmentally friendly as possible. To effectively control legionella and biofilm at a lower cost and a lower safety risk.

The XZIOX Solution

XZIOX Chlorine Dioxide was applied to a small capacity cooling tower from a 100-litre storage tank using the existing pump and redox based dosing control system. The residual clo2 level was maintained between 0.2-0.4 ppm using the redox controller.



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31 OF THE WATER SUPPLY
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