



Case Study: *Legionella* Control Program

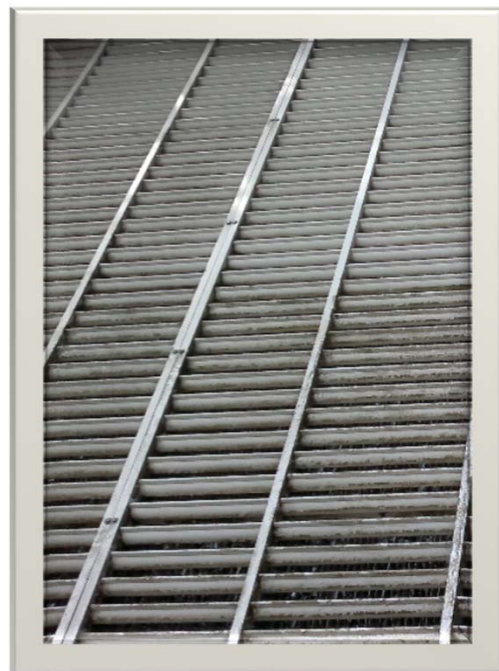
A Major Commercial complex with 5,500 RT HVAC system using **BCP™ 1015 (Classic DTEA II™)** for:

- 1) Legionella Bacteria Control Program (BCP™)
- 2) Biofilm Control Program (BCP™)
- 3) Cleaner/Penetrant Aid/Dispersant

Cooling System Before Application of BCP™ 1015 (Classic DTEA II™)



Cooling System After Application of BCP™ 1015 (Classic DTEA II™)



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Legionella Bacteria levels Before BCP™ (Biofilm Control Program)

Sample Labelled	Legionella Count, Colony Forming Units per mL			Total Legionella Count Colony Forming Units per mL	Environmental Public Health (Cooling Towers & Water Fountains) Regulations 2001
	<i>Leionella Pneumophila</i> SG 1	<i>Leionella Pneumophila</i> SG 2 - 14	Other Legionella spp.		
Project 1 CT 1-8	Not detected	>120	Not detected	>120	Not exceeding 10 Colony Forming Units per mL

Legionella Bacteria levels After BCP™ (Biofilm Control Program)

Sample Labelled	Legionella Count, Colony Forming Units per mL			Total Legionella Count Colony Forming Units per mL	Environmental Public Health (Cooling Towers & Water Fountains) Regulations 2001
	<i>Leionella Pneumophila</i> SG 1	<i>Leionella Pneumophila</i> SG 2 - 14	Other Legionella spp.		
Project 1 CT 1-8	Not detected	Not detected	Not detected	Not detected	Not exceeding 10 Colony Forming Units per mL

Conclusions

1. Chemical treatment program **before** application of BCP™ 1015 (Classic DTEA II™) was **Not Effective** in controlling *Legionella* bacteria in this cooling water system.
2. **After** application of BCP™ 1015 (Classic DTEA II™) on a monthly dosage at 70 ppm (product based) and dosing with oxidizing biocide (100 ppm product) **Effectively** controlled *Legionella* bacteria in this cooling water system.

