HSL | ADVANCED WATER TECHNOLOGIES

HSLCompliance
Advanced Water Technologies Ltd

NASA didn't invent food safety.

They invented a way of thinking about where failure actually happens.

It's called HACCP.
And it's been inside every serious water treatment programme for decades.

HERE'S HOW IT WORKS ➤

Principle 1

Map the system. Find every failure point.

Before you can control risk, you have to know exactly how water moves through your building — every tank, every pipe run, every outlet, every deadleg.

Most sites don't have this documented properly. That's where risk hides.

NEXT

Principle 2

Not every risk is equal. Find your Critical Control Points.

A CCP is the point where losing control causes **real harm** — and where an intervention actually prevents it.

In water systems: the cooling tower (bleed and chemical dose rates, maintaining effective biocide reserves), the calorifier (eliminating stratification, holding above 60°C), and little-used outlets. These are your CCPs. Everything else supports them.

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Principle 3

Set the limits. Not vague targets — exact numbers.

- Above 60°C storage in calorifier.
- Hot water to outlets at > 50°C (55°C for healthcare premises).
- Cold water stored and delivered at < 20°C.
- ClO_2 and total oxidant residual within range — 0.5ppm max.
- Cooling tower bleed within spec; biocide reserves proven by sampling.

Vague parameters don't work in water safety. Numbers do.

NEXT

Principle 4

Monitor continuously — not just an annual visit.

Risk doesn't wait for a scheduled check. Temperature fluctuates. Dosing drifts. Occupancy drops. Systems can stagnate.

The monitoring has to match how the building actually operates — not how it looked on the day the programme was written.

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Principle 5

Know what you'll do before something goes wrong.

When a temperature log shows a breach, or a sample comes back positive — there should be no hesitation. The corrective action is already written down. This is the purpose of the written scheme

E.g.: *Immediate flush. Shock dose. Isolation if needed. Re-sample. Document.*
No panic. No delay.

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Principle 6

Verify the system actually works.

A water treatment programme can look perfect on paper and *fail in practice*.

Regular independent review — re-sampling, re-assessing, challenging the assumptions — is what keeps it real.

The system needs to prove itself effective each and every day, not just exist on paper.

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Principle 7

If it isn't written down, it didn't happen.

Every temperature log, every dosing record, every corrective action taken. This is your evidence that the system worked — and your protection if anyone ever questions it.

The HSE doesn't ask whether you meant to comply. They ask whether you can prove it.

NEXT

👉 ADVANCED-WATER.CO.UK/LEGIONELLA-RISK

This is how AWT builds water treatment programmes.

Dynamically, visit by visit. Built around where control actually matters on your site — the right critical control points, the right monitoring, the right corrective actions in place before you need them.

Proactive beats reactive. Every time.