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CASE STUDY

Copper-Silver Ionization Helps Hospital Achieve and Sustain Non-Detect Legionella Levels for 30+ Years

CHALLENGE

Lucile Packard Children's Hospital Stanford opened in 1991 in Palo Alto, California. Today, it is ranked as one of the top pediatric hospitals in the United States.

Soon after the hospital opened its doors in 1991, Legionella was found in the building's water system. A thorough investigation revealed the municipality to be the source of the contamination.

Facility staff worked with outside vendors to deploy several unsuccessful water treatment methods over a six-month period, including:

- Whole-system water flush
- Hyperchlorination
- Superheat and flush
- Continuous chlorination and a weekly superheat and flush

HIGHLIGHTS

Six months using conventional disinfection methods failed to control Legionella.

Non-detect Legionella levels achieved after installing a LiquiTech® Copper-Silver Ionization System.

30+ years of non-detect Legionella levels in water system.

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SOLUTION

After a long unsuccessful effort to eliminate Legionella through conventional disinfection methods and two patient deaths linked to the contaminated water, the hospital partnered with LiquiTech to develop a solution that included:

- Immediate installation of a LiquiTech® Copper-Silver Ionization System to control Legionella and reduce the risk of future disease outbreaks.
- Several days of onsite system flushing, monitoring, and water testing until negative Legionella levels were achieved.
- Ongoing services to maintain and monitor equipment, provide predictive services, and collaborate on interventions.

RESULTS

Hospital staff continue to partner with LiquiTech for ongoing service and have not detected Legionella in its water supply since their LiquiTech partnership began in 1993.

> “I strongly advocate copper-silver technology for the effective and safe treatment against waterborne pathogens, specifically Legionella. We’ve been waterborne pathogen-free since partnering with LiquiTech in 1993.”

Michael Zader
Administration Director

LEGIONELLA POSITIVITY

