

## COOLING TECHNOLOGY INSTITUTE (CTI) STD-159: LEGIONELLOSIS RELATED PRACTICES FOR EVAPORATIVE COOLING WATER SYSTEMS

### Purpose of Proposed Standard

“...to provide practices that contribute to the control of *Legionella* from evaporative cooling water systems, specifically evaporative condensers, closed-circuit cooling towers, and open-circuit cooling towers.”

### Requirements

- *Legionella* Testing by Culture
  - Disinfection protocol must be qualified by collection of negative *Legionella* samples before being accepted for a system
  - Once disinfection protocol has been qualified, testing for *Legionella* in the system must be performed periodically over a wide interval of time



## AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS (ASHRAE) STANDARD I88P: PREVENTION OF LEGIONELLOSIS ASSOCIATED WITH BUILDING WATER SYSTEMS

### Purpose of Proposed Standard

“...to assist those involved in building design and facility management in preventing the disease legionellosis” by “...identifying the points in a building’s water system which, when properly controlled, can make conditions less favorable to the amplification and transmission of *Legionella* through proven system design, operational practices, and maintenance practices.”

### Requirements

- Survey of human-occupied buildings to determine risk characterization
- Development of a Hazard Analysis and Critical Control Point (HACCP) plan for *Legionella* control
  - Conduct Hazard analysis
    - Identification of critical control points and limits, development of system(s) to monitor control, and formulation of corrective actions to be taken when critical control points/limits are not under control
  - Documentation of water system operation and maintenance as it relates to *Legionella* control
  - Validation that *Legionella* is under control in all systems