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Bill McQuade  
ASHRAE Society President, 2025-2026

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September 18, 2025

Sydney Grewell  
Public Health Director  
Marshall County  
101 E Main St  
Marshalltown, IA 50158

Sent via email to: [sgrewell@marshallcountytia.gov](mailto:sgrewell@marshallcountytia.gov)

Re: Legionnaires' Disease Outbreak in Marshall County

Dear Director Grewell:

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 53,000 members, including over 500 in Iowa, focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today.

ASHRAE is a nonprofit professional and technical society that has developed industry-leading standards for Legionnaires' Disease risk management, as part of our comprehensive guidance on water system risks. **We are writing to you to offer ASHRAE's technical expertise and assistance in addressing the recent outbreak of Legionnaires' disease in Marshall County.**

Legionnaires' disease, a serious form of pneumonia caused by *Legionella* bacteria, is most commonly associated with water systems where water is not adequately monitored or treated. After periods of heavy rains and flooding, there is an increased risk of Legionnaires' disease due to potential contamination of water sources and disruptions to water systems. Flooding can mobilize *Legionella* bacteria-rich biofilms in water systems, leading to higher bacterial loads and potential colonization of the built environment. While the disease has been known for decades, recent outbreaks have underscored the importance of consistent water management practices in water distribution systems and facilities of all sizes and types.

ASHRAE Standard 188-2021, [\*Legionellosis: Risk Management for Building Water Systems\*](#), provides minimum legionellosis risk management requirements for new and existing buildings and their associated water systems and components. The standard applies to commercial, institutional, multi-unit-residential, and industrial buildings. ASHRAE Guideline 12-2023, [\*Managing the Risk of Legionellosis Associated with Building Water Systems\*](#), is a supplement to this standard and

provides detailed guidance for water management program teams to develop the necessary elements of an effective water management plan.

**We strongly recommend that the county adopt ASHRAE Standard 188 in order to mitigate the risk of Legionnaires' Disease for residents.** We also recommend referencing the most recent edition of the standard (currently the 2021 edition), as each subsequent edition of the standard includes essential updates from the previous editions. This outbreak underscores the importance of consistent, comprehensive water management practices in source water distribution systems and facilities of all sizes and types, and ASHRAE's guidance offers design teams, building managers and health officials a structured approach to mitigating risk and protecting occupants.

ASHRAE Standard 188 and Guideline 12 are written to be usable and implemented by a broad range of building owners without requiring compliance, training, or certification in any hazard analysis, risk assessment, or risk management methodologies. They contain extensive input from industry, academia, and healthcare and from city, state, and national public health departments and regulatory authorities. As a society with over 125 years of experience and representing some of the sharpest minds in the industry, we respectfully urge Marshall County to rely on the technical materials prepared by ASHRAE. **Managing water systems to minimize the risk of contamination from Legionella is essential, and ASHRAE can provide any additional technical materials or briefings you may need.**

Please do not hesitate to contact me or have your staff email [GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org). Thank you for your consideration of this important matter and for working to ensure the health and well-being of building occupants.

Sincerely,

A handwritten signature in black ink, appearing to read "Bill McQuade", with a stylized flourish at the end.

Bill McQuade  
2025-2026 ASHRAE President