



Standard Guide for the Inspection of Water Systems for Legionella and the Investigation of Possible Outbreaks of Legionellosis (Legionnaires' Disease or Pontiac Fever)¹

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1. Scope

1.1 This guide covers appropriate responses for employers, building owners and operators, facility managers, health and safety professionals, public health authorities, and others: (1) to a concern that a water system may be contaminated with the bacterium known as legionella (see 6.1); and (2) to the identification of one or more cases of Legionnaires' disease or Pontiac fever (see 6.3 – 6.5). Comprehensive and explicit recommendations to limit legionella multiplication in water systems, disinfect potential sources of human exposure to legionella, and prevent health-care associated infections are beyond this guide's scope.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. See 7.3 and 8.5 for specific hazard statements.*

2. Referenced Documents

2.1 ASTM Standards:²

- C1080 Specification for Asbestos-Cement Products Other Than Fill For Cooling Towers
- D512 Test Methods for Chloride Ion In Water
- D596 Guide for Reporting Results of Analysis of Water
- D887 Practices for Sampling Water-Formed Deposits
- D1067 Test Methods for Acidity or Alkalinity of Water
- D1129 Terminology Relating to Water

¹ This guide is under the jurisdiction of ASTM Committee D22 on Air Quality and is the direct responsibility of Subcommittee D22.08 on Sampling and Analysis of Mold.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

D1293 Test Methods for pH of Water

D1356 Terminology Relating to Sampling and Analysis of Atmospheres

D2331 Practices for Preparation and Preliminary Testing of Water-Formed Deposits

D3370 Practices for Sampling Water from Closed Conduits

D3856 Guide for Management Systems in Laboratories Engaged in Analysis of Water

D4840 Guide for Sample Chain-of-Custody Procedures

E645 Practice for Evaluation of Microbicides Used in Cooling Water Systems

F444 Consumer Safety Specification for Scald-Preventing Devices and Systems in Bathing Areas

F445 Consumer Safety Specification for Thermal-Shock-Preventing Devices and Systems in Showering Areas

2.2 APHA Documents:³

Public Health Law Manual, Third Edition

Standard Methods for the Examination of Water and Wastewater, Twenty-first Edition

Control of Communicable Diseases Manual, Eighteenth Edition

2.3 ASHRAE Documents:⁴

Codes and Standards. 2004 ASHRAE Handbook—Heating, Ventilating, and Air-Conditioning Systems and Equipment

Cooling Towers. 2004 ASHRAE Handbook—Heating, Ventilating, and Air-Conditioning Systems and Equipment

Water Treatment. 2004 ASHRAE Handbook—Heating, Ventilating, and Air-Conditioning Systems and Equipment

12–2000 Minimizing the Risk of Legionellosis Associated with Building Water Systems

62.1-2007 ASHRAE Standard. Ventilation for Acceptable Indoor Air Quality

³ Available from American Public Health Association (APHA), 800 I St., NW, Washington, DC 20001, <http://www.apha.org>.

⁴ Available from American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. (ASHRAE), 1791 Tullie Circle, NE, Atlanta, GA 30329, <http://www.ashrae.org>.