



ADDENDA

**ANSI/ASHRAE Addendum e to
ANSI/ASHRAE Standard 188-2021**

Legionellosis: Risk Management for Building Water Systems

Approved by ASHRAE and the American National Standards Institute on September 30, 2021.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (<https://www.ashrae.org/continuous-maintenance>).

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FOREWORD

Addendum e adds a new Normative Appendix B, regarding minimum requirements when Legionella testing is chosen by the Program Team, and renames the current Informative Appendix B, "Bibliography," to Informative Appendix C, "Bibliography."

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum e to Standard 188-2021

Modify Informative Appendix B as shown. The remainder of the appendix remains unchanged.

INFORMATIVE APPENDIX ~~BC~~ BIBLIOGRAPHY

Rename current Informative Appendix C to new Normative Appendix B. Modify new Normative Appendix B as shown.

~~(This is a normative appendix and is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)~~

~~INFORMATIVE-NORMATIVE APPENDIX ~~GB~~ GUIDANCE IF LEGIONELLA TESTING IS UTILIZED IN THE ABSENCE OF SUSPECTED OR CONFIRMED FACILITY-ASSOCIATED DISEASE~~

~~When testing of environmental water samples is utilized, it should be performed by a laboratory with demonstrated proficiency in the subject method, such as may be evidenced by certification by a national, regional, or local government agency or by an accredited nongovernmental organization (NGO).~~

~~Laboratories performing routine microbiological testing of environmental water samples should be accredited by a regional, national, or international accrediting body according to a nationally or internationally recognized standard, for example ISO/IEC 17025:2017, *General Requirements for the Competence of Testing and Calibration Laboratories*, or similar. *Legionella* testing should be included in the laboratory's scope of accreditation.~~

~~In the case of suspected or confirmed facility-associated disease, consult the AHJ.~~

~~B1. LABORATORY TESTING USED TO VALIDATE THE PROGRAM~~

~~If the *Program Team* determines that laboratory testing for *Legionella* will be used to validate the *Program*, laboratories performing the testing must be accredited by a regional, national, or international accrediting body according to ISO/IEC 17025, *General Requirements for the Competence of Testing and Calibration Laboratories*, or another nationally or internationally recognized laboratory accreditation standard, and~~

- ~~a. the laboratory must demonstrate competence to an accreditation body and~~
- ~~b. the *Legionella* test method used must~~
 - ~~1. be included in the laboratory's scope of accreditation and~~
 - ~~2. include at least an annual *Legionella* Proficiency Test sample acceptable to the accreditation body.~~

~~**(Informative Note:** It is important to understand the characteristics of the *Legionella* test method utilized, such as, but not limited to, sensitivity, limit of detection, and specificity. In the case of suspected or confirmed facility-associated disease, consult the AHJ for response and testing~~

requirements. For additional guidance about *Legionella testing*, refer to ASHRAE Guideline 12, *Managing the Risk of Legionellosis Associated with Building Water Systems*.)

If a choice is made to test for *Legionella*:

a. **Laboratory Testing:**

1. The laboratory shall have the capability to meet the testing requirements established by the user, and
2. the laboratory shall be accredited by a regional, national, or international accrediting body to a nationally or internationally recognized standard that, at a minimum, requires the use of revision controlled standard operating procedures for testing, documentation of the performance of the characteristics of tests, periodic proficiency testing, and periodic independent audits verifying compliance, such as to ISO/IEC 17025, and Legionella testing shall be included in the laboratory's scope of accreditation.

b. **Nonlaboratory Testing.** The provider shall supply the user with documentation or evidence that the performance characteristics of the method of testing for Legionella has been validated to a recognized consensus standard, such as those available from ISO, ASTM, and Standard Methods for Legionella, by a qualified, independent third party.

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ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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