

ADDENDA

**ANSI/ASHRAE/IBPSA Addendum b to
ANSI/ASHRAE/IBPSA Standard 209-2024**

Building Performance Simulation Process

Approved by ASHRAE and the American National Standards Institute on January 30, 2026, and by the International Building Performance Simulation Association on December 19, 2025.

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ASHRAE Standing Standard Project Committee 209

Cognizant TC: 4.7, Energy Calculations

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FOREWORD

Addendum b adds detail to the purpose statement of Modeling Cycle #5 to clarify that if Modeling Cycle #4 is conducted, this cycle would occur after Modeling Cycle #4 rather than after Modeling Cycle #3. This addendum also adds language to specify how complete the design should be when performing this cycle (i.e., the cycle is to not make major decisions but more to fine tune major decisions made previously in the design process).

Informative 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 b to Standard 209-2024

Modify Section 6.5 as follows.

6.5 Modeling Cycle #5—Design Refinement

6.5.1 Purpose. Use *energy modeling* to evaluate systems in the building; to confirm current design direction is on track to achieve project goals, and support further ~~development~~ refinement of the building design to optimize building performance.

6.5.2 Applicability

6.5.2.1 When this *modeling cycle* is used to show compliance with ~~the this~~ standard, it shall be started after the completion of Modeling Cycle #3, or Modeling Cycle #4 (if completed), ~~and completed~~ conclude prior before to the end of the *construction document phase*.

6.5.2.2 Prior to commencing Modeling Cycle #5, ~~a design direction shall be defined~~ major design decisions have been made, including for the building form and orientation, the *HVAC system* type or types, service water heating system type or types, and a space programming scheme. This modeling cycle shall be limited to providing analysis to support selecting component performance levels (e.g., lighting efficacy, heating efficiency, equipment quantities, insulation R-values, shading depth, etc.) and controls.

6.5.3 Analysis. Use *energy modeling* to refine and develop the design of at least one building system, including (but not limited to) the following:

- a. *HVAC systems*
- b. *Lighting systems*
- c. *Envelope systems*
- d. *Service water heating systems*
- e. *Process and plug-load systems*

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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.

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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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