



**BSR/ASHRAE Addendum *h* to
ANSI/ASHRAE/IBPSA Standard 209-2024**

First Public Review Draft

**Proposed Addendum *h* to Standard
209-2024, Energy Simulation Aided
Design for Buildings except Low-
Rise Residential Buildings**

**First Public Review Draft (September 2026)
(Draft shows Proposed Changes to Current Standard)**

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Proposed Changes to Section 7.1 Modeling Cycle #8—As-Designed Energy Performance

Foreword

The proposed revisions bring Modeling Cycle #8 to a level of detail more consistent with the other modeling cycles and clarify how it is intended to be implemented. The Purpose statement is simplified to focus directly on comparing as-designed performance with the project goals. The Applicability requirement is revised to associate completion of the modeling cycle with completion of the construction document phase, rather than requiring that all construction documents be complete. The Analysis requirement is expanded to recognize that the as-designed model may be developed as a new model or produced by updating a model from an earlier modeling cycle. A new Reporting requirement directs the modeler to identify the design variables that are critical to achieving the performance goals. The accompanying informative notes do not establish additional requirements but provide context regarding design changes that may occur after the construction document phase, the use of the as-designed model in ruleset-based analyses, and the intent of documenting the design features that materially affect modeled performance.

Proposed Language Markup

7.1.1 Purpose. ~~Develop an energy model to represent the final design in order to c~~ompare as-designed performance to project goals.

7.1.2 Applicability. This modeling cycle ~~applies only after construction documents are complete~~ shall not be completed until after the *construction document phase*.

Informative Note: For purposes of this modeling cycle, the intent is to develop an as-designed energy model that represents the final design and supports evaluation of performance relative to project goals. On some projects, however, determining when the design is complete enough to be treated as final may be difficult because certain aspects of the design may continue to be refined, some of which may not materially affect energy performance. In such cases, the modeler should use professional judgment to determine whether subsequent changes are expected to materially affect the results and, if so, whether the as-designed model should be updated accordingly.

7.1.3 Analysis. Develop or update an energy model with inputs representing the as-designed configuration.

Informative Note: In many applications, the as-designed model developed in this cycle is compared with a baseline, reference, or other ruleset-defined model for purposes such as code compliance, incentive program participation, or green building certification. In such cases, the modeled representation may differ in some respects from the actual design because the applicable methodology may prescribe or otherwise modify certain inputs. See the Appendix G Predictive Energy Modeling for related discussion.

7.1.4 Reporting. In addition to the general reporting requirements in Section 5.7.3, the modeler shall report *design variables* that are critical to the performance goals being achieved.

Informative Note: Evaluating and documenting the aspects of the design that materially contribute to modeled performance can help identify features that should be maintained during

construction to avoid changes that could adversely affect performance. In addition, including such features in the basis of design can help improve transparency regarding the elements most critical to achieving the performance goals. Parametric analysis is not expected to fulfill this requirement.