BSR/ASHRAE Addendum f to ANSI/ASHRAE Standard 90.4-2019

Public Review Draft

Proposed Addendum f to Standard 90.4-2019, Energy Standard for Data Centers

First Public Review (July 2021)
(Draft Shows Proposed Changes to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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Foreword
Addendum f modifies Section 5.2.1 to add specific language about building envelope criteria for data centers and how it is to be accounted for in the MLC calculations.

[Note to Reviewers: This addendum makes proposed independent substantive changes to the previous public review draft. These changes are indicated in the text by underlining (for additions) and strikethrough (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the previous public review draft are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum f to 90.4-2019

Modify Section 5 as follows:

5.1 General

5.1.1 Scope. Section 5 specifies the requirements for the building envelope.

5.2 Compliance Paths

5.2.1 Compliance. If a data center HVAC system meets Section 6.2, as adopted by the jurisdiction, then that data center’s portion of the building envelope shall be considered to be in compliance with Standard 90.4. Documentation describing the building envelope’s net hourly thermal effect shall be included in a project’s hourly Mech_Energy whenever considered necessary by either the building official or the design professional.

Exception to 5.2.1 Compliance: When building envelope does comply with ANSI/ASHRAE/IES Standard 90.1, Section 5, as adopted by the jurisdiction, the building envelope effect shall not be required to be part of a project’s MLC calculation.