ANSI/RESNET/ICC 1450—2025
Standard for Remote Virtual Inspections for Energy and Water Performance in Buildings

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SPECIAL NOTE

This ANSI/RESNET/ICC Standard is a voluntary consensus standard developed under the auspices of the Residential Energy Services Network (RESNET) in accordance with RESNET's *Standards Development Policy and Procedures Manual*, Version 3.1, July 9, 2023. RESNET is an American National Standards Institute (ANSI) Accredited Standards Developer. Consensus is defined by ANSI as "substantial agreement reached by directly and materially affected interest categories." This signifies the concurrence of more than a simple majority but not necessarily unanimity. Consensus requires that all views and objections be considered and that an effort be made toward their resolution. Compliance with this standard is voluntary until a legal jurisdiction makes compliance mandatory.

RESNET obtains consensus through participation of its national members, associated societies and public review.

This is the first edition of the standard, which will be under continuous maintenance in accordance with Section 10.9 of the *RESNET Standard Development Policy and Procedures Manual*. Continuous maintenance proposals should be submitted to the Manager of Standards via the online form on the RESNET website. The procedures manual and online forms for submitting continuous maintenance proposals and requests for interpretation can be accessed from the website at https://www.resnet.us/about/standards/resnet-ansi/ on the page titled "RESNET®-ANSI AMERICAN NATIONAL STANDARDS."

The Manager of Standards should be contacted for:

1. Interpretation of the contents of this standard.
2. Participation in the next review of this standard.
3. Offering constructive criticism for improving this standard.
4. Permission to reprint portions of this standard.

FORWARD (INFORMATIVE)

[The information contained in this foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to this standard.]

This standard establishes a consistent and uniform methodology for guiding code officials and inspection personnel in the administration and implementation of remote and/or virtual inspection programs to verify compliance with applicable codes and standards governing energy efficiency and water performance in buildings. The guidance herein reflects recommended best practices and incorporates the expertise of building officials, industry professionals and inspection agencies.

The scope of this standard is to define minimum requirements that address emerging societal and construction-specific challenges related to both regulatory and nonregulatory compliance in energy efficiency and water performance and ready-access to qualified inspection staff. This standard supports the evolution of inspection practices in response to technological advancements and shifting construction paradigms.

Introduction

In response to the COVID-19 pandemic and associated lockdowns, the International Code Council® (ICC®) launched its *Recommended Practices for Remote Virtual Inspections* in 2020, accompanied by a series of educational publications and webinars. Recognizing the growing prevalence of online construction services and virtual condition verification, ICC and RESNET convened a standard development committee, which held its inaugural meeting in August 2023.

Remote and off-site inspection techniques have gained traction among contractors and authorities having jurisdiction (AHJs) as viable alternatives to traditional inspection and quality control methodologies. These practices have evolved alongside the increasing use of prefabricated and modular construction, where building elements are designed and fabricated off-site, and re-assembled on-site. Recognizing that regardless of origin, all completed construction must comply with the applicable building codes and installation standards adopted by the AHJ and the standards adopted for energy efficiency incentives programs, this standard addresses the inspection, approval, and compliance of residential occupancies and residential building components in mixed-use occupancies, by third-party inspection agencies, building departments and local raters.

Development

This is the first edition of the ICC and RESNET's *Standard for Remote Virtual Inspections for Energy and Water Performance in Buildings*. This standard was developed by the RESNET/ICC Water and Energy Remote Virtual Inspection Standard Consensus Committee (WERVI 1400), which operates under ANSI Approved RESNET and ICC Consensus Procedures for the Development of ANS standards. The consensus process used for this standard is accredited by ANSI, and the Standard Consensus Committee is a balanced committee formed and operated in accordance with ICC and RESNET rules and procedures.

The meetings of the RESNET/ICC 1400 Consensus Committee were open to the public with participation from interested individuals and organizations nationwide. The technical content of currently published documents on water performance and energy efficiency, including the current editions of the *International Energy Conservation Code*® and ANSI/RESNET/ICC Standards 301, 380 and 850. The information and practical experience of stakeholders informed the baseline inspection assumptions and best practices of this standard, but the exact provisions adopted by the committee were determined through the ANSI consensus process.

This standard is part of the ongoing effort to assist our members and communities in providing the best quality service and is under continuous maintenance pursuant to RESNET's ANSI-accredited *Standards Development Policy and Procedures Manual*. Forms and procedures for submitting change proposals may be found on RESNET's website at https://www.resnet.us/about/standards/submit-proposed-amendments/ under the heading "STANDARDS DEVELOPMENT." Public review of proposed addenda and updates drafts are announced in the ANSI Standards Action and emails are sent to parties on RESNET's mailing list. Interested parties can register at the "standards" section of RESNET's website. Public review drafts and comment forms are posted on RESNET's website. Approved standards and addenda are published on and accessed from RESNET's website.

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