



MAH Updates 7/22 Read me

These proposed revisions address quality control of test conditions. The proposed revisions are applicable to the following ANSI/AARST publication MAH 2019 (measurement in homes). This revision is part of continuous maintenance efforts to harmonize and update AARST MAH, MAMF and MALB radon measurement standards.

Latest published versions of those standards are available for comparison at www.standards.aarst.org where all ANSI/AARST standards can be found for review at no charge and for purchase.

The current mitigation standards committee roster (consensus body) can be linked to from www.standards.aarst.org/public-review. The current work project includes (1) harmonization, where possible, for all portions of these documents to read the same for the same tasks; (2) update based on new experiences, and (3) renderings that are more conducive to stakeholders who are involved in compliance assessment.

A link to receive future public review notices and bylaw procedures for the AARST Consortium on National Radon Standards are available at www.standards.aarst.org/public-review.

Public Review: MAH Updates 7-22 **COMMENT DEADLINE: August 21st, 2022**

REQUESTED PROCESS AND FORM FOR FORMAL PUBLIC REVIEW COMMENTS

Submittals (MS Word preferred) may be attached by email to StandardsAssist@gmail.com

- 1) Do not submit marked-up or highlighted copies of the entire document.
 - 2) If a new provision is proposed, text of the proposed provision must be submitted in writing. If modification of a provision is proposed, the proposed text must be submitted utilizing the strikeout/underline format.
 - 3) For substantiating statements: Be brief. Provide abstract of lengthy substantiation. (If appropriate, full text may be enclosed for project committee reference.)
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REQUESTED FORMAT

Title of Public Review Draft: **MAH Updates 7-22**

- **Name:** _____ **Affiliation:** _____
- **Clause or Subclause:** _____
- **Comment/Recommendation:** _____
- **Substantiating Statements:** _____
- Check here if your comment is supportive in nature and does not require substantive changes in the current proposal in order to resolve your comment.

Repeat the five bullet items above for each comment.

Requested registration of your contact information and copyright release.

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PLEASE SHIP TO: StandardsAssist@gmail.com Commenters are responsible for informing the standards assistant staff a when changing contact information or other preferences.

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AARST Consortium on National Radon Standards

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The Consortium Consensus Process

The consensus process developed for the AARST Consortium on National Radon Standards and as accredited to meet essential requirements for American National Standards by the American National Standards Institute (ANSI) has been applied throughout the process of approving this document.

Continuous Maintenance

This standard is under continuous maintenance by the AARST Consortium on National Radon Standards for which the Executive Stakeholder 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.

User Tools: User tools are posted online (www.standards.aarst.org/public-review) as they become available (such as templates for field notices, inspection forms, interpretations and approved addenda updates across time).

Notices

Notice of right to appeal: Bylaws for the AARST Consortium on National Radon Standards are available at www.standards.aarst.org/public-review. Section 2.1 of Operating Procedures for Appeals (Appendix B) states, "Persons or representatives who have materially affected interests and who have been or will be adversely affected by any substantive or procedural action or inaction by AARST Consortium on National Radon Standards committee(s), committee participant(s), or AARST have the right to appeal; (3.1) Appeals shall first be directed to the committee responsible for the action or inaction."

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Commentary/Rationale: The proposed replacement to Section 8.5.4 and 8.5.5 addresses the need for field professionals to pay attention to test conditions required by this standard. The proposal (underlined text revisions) clarifies this obligation by rendering it as part of quality control, much the same as required quality control for test device accuracy.

8.5 Test Reports

8.5.4 Reliability of the measurements

A specific *client* advisory and description **shall** be included in the test report of observed building conditions or other factors that may cause the test to not reflect the *client's* risk from radon.

8.5.5 Quality control of test conditions

Quality control records when testing homes shall include records of observed test conditions, to include those specified in [Table 8.5.5](#). These test event records shall be either included in the test report or provided to the *client* upon request.

Table 8.5.5 Quality Control Records / Test Conditions	<i>Example Test Event Log</i>
Temporary conditions	
1. The property, dwelling or portion of the building tested was not operated under occupied operating conditions because it was vacant;	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
2. Systems were temporarily ventilating with outdoor air for seasonal comfort or energy savings during the test period, including:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
a. Closable passive <i>crawl space</i> vents that were open during the test but would be closed more than 50% of the year for energy savings, comfort or to prevent frozen pipes,	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
b. Window air conditioners did not have closed outside air dampers,	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
c. Evaporative cooling systems were operating or not covered,	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
d. Energy recovery ventilators, heat recovery ventilators or <i>economizer</i> ventilation systems: – the system was not set to the lowest outdoor air ventilation rate that occurs during all seasons. – not all thermostats in areas served by these systems were set to <i>normal occupiable temperatures</i> ;	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
3. Sub-slab return ducts are observed which can cause dramatic temporary fluctuations in radon concentrations; and	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
4. Weather events occurred that were unusually severe for local weather.	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
Deviations from protocol	
1. Observed noncompliance with required conditions, such as closed-building conditions 12 hours prior to, or during the test period;	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
2. Observed deviation from a <i>normal occupiable indoor temperature</i> ; and	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
3. <u>Noninterference</u> controls indicate concerns regarding protocol compliance. Note—Non-interference controls can include signed noninterference agreements, or refusal to sign such agreement, moved devices and observed anomalies in data, such as in hourly CRM data.	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> U
Other:	<i>Specify</i>

Note—For this example method of logging observed conditions: Y=yes, N=no, NA=not applicable and U=unknown.