



Minutes
ANSI-GBI Standards Development Committee
Via Teleconference
August 5, 2009



Meeting Attendance

Committee Members	August 5
Bergmiller, Gregory	
Bergtold, Greg	
Birkbeck, Peter	✓
Bland, Kenneth	✓
Bryan, Harvey	✓
Carmody, John	✓
Coad, William	
Collins, David	✓
Crawford, Gregory	✓
Dixon, Chris	✓
Freeman, William	
Gardner, Michael	
Hubert, Steven	✓
Koeller, John	✓
Lupinacci, Jean	
Martin, Shawn	✓
Meadows, Dru	
Rogers, Robin	✓
Schenck, Paula	✓
Shymko, Gordon	✓
Smith, Carl	✓
Sordyl, Douglas	✓
Subasic, Christine	✓
Sundersingh, David	✓
Taylor, Thomas	
Thompson, Mike	✓
Tin, Angela	✓
Viola, Dave	✓
Trusty, Wayne	✓
White, Ron	✓

Staff	
Rademacher, Sara (Secretariat, GBI)	✓
Worden, Vicki (Committee Liaison, GBI)	✓

Wednesday, August 5, 2009

1. Welcome

Discussion: Chairman of the Committee, Wayne Trusty, opened the meeting with a general welcome to Committee Members, staff and guests. He introduced the Secretariat, Sara Rademacher. The Secretariat took a roll call of the Committee members and asked members of the public to identify themselves. With 16 Committee Members present plus the Chair at the start of the meeting, the meeting reached a quorum. Six additional committee members joined the call and announced themselves following the roll call. Next the Chairman introduced Ward Hubbell, President of the Green Building Initiative.



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Ward thanked the Committee members for their hard work over the last 2 ½ years. He also recognized members from the public for their interest and input in the process of developing this standard.

Next the Chair reviewed the meeting agenda.

Action Required: None.

2. Minutes from July 2009 Committee Meeting

Discussion: Wayne reviewed minutes from June 2009 meeting. A member requested that the roll vote regarding the “GreenGuard Test Method” give the member names. The Secretariat confirmed this change would be made. Another Committee Member pointed out an editorial mistake regarding that vote which it was stated would be corrected and the word “passed” would be changed to “failed”. It was also recommended that affirmative votes in the minutes for teleconferences be changed to “approved by affirmation”. A motion was made to approve the minutes with the changes.

Approved by Affirmation (No–0, Abstain–0)

Motion made by Harvey Bryan and seconded by David Sundersingh.

3. Process Going Forward

Discussion: Secretariat Sara Rademacher gave a brief explanation of the following items.

Wrapping Up 3rd Round of Public Comment

Sara advised the Committee that all of their responses, except the two tabled items, to the 3rd Round of Public Comment were sent out to the commenters last week. Appeals or complaints, if any, are due by the end of August.

Preparing for 4th Round of Public Comment

Sara let the Committee know that the 4th Round Draft of the Standard will go out for public review at the end of August. This means that the 45 day public comment period will wrap up in October. All of the substantive changes and other edits resulting from the 3rd Public Comment period and the 2nd period’s Appeals will be incorporated into the 4th Round Draft.

Committee Membership

The Committee was given the annual update on committee membership. Sara informed the Committee that an announcement was made in the *ANSI Standards Action* that the Technical Committee is taking applications for all categories and that the deadline for applications to be submitted is August 14. Anyone interested in applying can find the application on the GBI website at www.thegbi.org/Commercial/Standards/. The Committee was also informed that an opening had been anticipated in the Producer category but that the secretariat is waiting on information pertaining to whether Paul Bertram’s employment change results in a change in interest category. Vicki Worden clarified that changes in employment that result in interest category changes require the committee to vote on a committee member replacement. To that end, the secretariat informed the committee that the recruitment process had been initiated should a vacancy be confirmed. She noted that applicants will be notified of the process moving forward following the August 14 closing date. If there are no openings, any applications will be kept for future vacancies.

Editorial Working Group

Sara explained that an Editorial Working Group was being put together to help ensure the 4th Round Draft is thoroughly reviewed and as editorially correct as possible. The purpose of the group will be to review the substantive changes in the Standard and also to review the LCA calculators. A draft of the standard will be sent out by August 14 for the working group to review and will be copied to the full committee. A teleconference will be scheduled for August 19 to go over any concerns. Sara then requested volunteers. David Collins, David Sundersingh, Peter Birkbeck and Carl Smith immediately responded and gave their availability for the August 19 conference call. Anyone else who is interested in participating was asked to email Sara directly.

4. Consensus on Outstanding Items

Section 8.6.1

The Chair asked Committee Member Harvey Bryan to explain the language the working group drafted to help resolve technical objections from Baltimore Air Coil. The language includes two tables that go hand in hand and focus on efficiency. It also works to ensure that the user isn't penalized for larger systems. It was explained that in the current draft of the standard a user could start with a low COP and double it with very little effort – this was not the intent of the Committee. The intent was to encourage users to start with a more efficient system. Proposed language and tables were put on the screen for the participants to view.

8.6 HVAC Systems and Controls – PATH B (84 points)

8.6.1 Cooling Equipment

~~8.6.1.1 The seasonal energy efficiency ratio (SEER), energy efficiency ratio (EER), integrated part load value (IPLV), coefficient of performance (COP) or kilowatt per ton (kW/ton) of the cooling equipment exceeded ANSI/ASHRAE/IESNA Standard 90.1–2007 requirements by 5–15%.~~

~~If ANSI/ASHRAE/IESNA Standard 90.1–2007 requires more than one efficiency rating, the more efficient one was used.~~

~~The percentage improvement for multiple pieces of equipment shall be the weighted average improvement based on equipment capacity.~~

~~Maximum = 12 points or~~

~~n/a~~

~~5%–6% = 2 points~~

~~7%–8% = 4 points~~

~~9%–10% = 6 points~~

~~11%–12% = 8 points~~

~~13%–14% = 10 points~~

~~15% = 12 points~~

~~n/a where there is no~~

~~cooling equipment~~

Base design equipment selection efficiency

Table 8.6.1.1
Cooling Equipment Efficiency
 Maximum = 5 points or n/a

COP	EER	SEER	Points
0 to <2	0 to <6.8	0 to <10	0
>=2 to <3	>=6.8 to <10.2	>=10 to <13	1
>= 3 to <4	>=10.2 to <13.7	>=13 to <16	2
>= 4 to <5	>=13.7 to <17	>=16 to <20	3
>= 5 to <6	>=17 to <20	>=20 to <23	4
>= 6	>=20	>=23	5

Some water chiller equipment efficiency is presented in kW/TR units. To convert to COP, divide 3.516 by the kW/TR [COP = 3.516 / (kW/TR)]

n/a if there is no cooling equipment.

For system designs with mixed cooling equipment types, the points shall be the weighted average based on equipment cooling capacity.

**Table 8.6.1.2
Cooling Equipment Efficiency Improvement**

ASHRAE Standard 90.1 efficiency requirements (Path B where applicable) used as baseline

Maximum 10 points or n/a

Full Load Efficiency Improvement	Seasonal or Part Load Efficiency Improvement [Part Load Value <IPLV or NPLV> or Seasonal Energy Efficiency Ratio <SEER>]							
	EER	SEER	0 to <1	>=1 to <1.5	>=1.5 to <2	>=2 to <2.5	>=2.5 to <3	>=3
		COP	0 to <0.4	>=0.4 to <0.5	>=0.5 to <0.6	>=0.6 to <0.7	>=0.7 to <0.8	>=0.8
	0 to <1	0 to <0.2	0*	1	2	3	4	5
	>=1 to <1.5	>=0.2 to <0.4	1	2*	3	4	5	6
	>=1.5 to <2	>=0.4 to <0.6	2	3	4*	5	6	7
	>=2 to <2.5	>=0.6 to <0.7	3	4	5	6*	7	8
	>=2.5 to <3	>=0.7 to <0.8	4	5	6	7	8*	9
	>=3	>=0.8	5	6	7	8	9	10*

Notes:

* If only one efficiency measure required by 90.1 for minimum efficiency, the secondary axis is assumed with the similar improvement.

Some water chiller equipment efficiency is presented in kW/TR units. To convert to COP, divide 3.516 by the kW/TR [COP = 3.516 / (kW/TR)]

n/a for buildings with no cooling requirements

The Committee agreed that the new language achieved the intent of the Committee but the working group was asked to make editorial changes to clarify the tables further. A motion was made to accept the tables noting that additional changes could be made to further clarify their use.

Approved by Affirmation (No-0, Abstain-0)

Motion made by Gord Shymko and seconded by David Collins.

Radon Language

The Chair asked Committee Member Robin Rogers to explain the language that the working group drafted to clarify the radon section and to help respond to a tabled public comment. Robin explained that the language was by consensus the working group's recommendation. The group agreed that the assessment of radon is appropriate but the measurement is much more difficult and not appropriate in new construction only major renovation. The working group language was posted on the screen for the participants to view.

Radon Entry and Control	
<p>12.3.2.1 A design or IAQ professional provided a letter addressing:</p> <p>New Construction:</p> <ul style="list-style-type: none"> • Assessment of site specific radon potential; • Installation of passive or active radon mitigation system or justification for no mitigation. <p>Major Renovation:</p> <ul style="list-style-type: none"> • How testing for radon was conducted (existing structure); • Assessment of site specific radon potential (addition to structure); • Installation of passive or active radon mitigation system, other means of mitigation, or 	2 points

justification for no mitigation.

Informational References:

- EPA Map of Radon Zones
- Radon Prevention in the Design and Construction of Schools and Other Large Buildings. United States Environmental Protection Agency EPA/625/R-92/016, June 1994
- ASTM 1465: Standard Practice for Radon Control Options for the Design and Construction of New Low-Rise Residential Buildings 2007
- Building Radon Out: A Step-by-Step Guide on How to Build Radon-Resistant Homes. United States Environmental Protection Agency EPA 402-K-01-002, April 2001
- Large Buildings Characteristics as Related to Radon Resistance: A Literature Review. United States National Risk Management; Environmental Protection Agency Research Laboratory; Research Triangle Park, NC 27711; Research and Development EPA/600/SR-97/051 July 1997

12.3.3 Suggested Documentation

- *Construction documents;*
- Manufacturer's specifications, cut sheets, and performance documentation;
- Documentation of radon test results;
- Letter from design or IAQ professional detailing measures used to assess and mitigate potential for radon entry.
- Description of pest management strategies.

There was discussion about the use of "a design or IAQ professional" in the language. The Committee agreed to remove this language and replace it with "owner or owner representative". In addition the Committee agreed to clarify that the ASTM information reference was "E1465" and that there were additional informational ASTM and other references that could be added. Motion was made to accept the new language with the editorial change noted and with the discussed information references. Secretariat would review informational references with the editorial workgroup to ensure proper and appropriate references.

Approved by Affirmation (No-0, Abstain-0)
Motion made by Paula Schenck and seconded by Peter Birkbeck.

Section 12 and Dates & Citations

Chair asked Vicki Worden to explain the information from the working group. She explained that during the July 14 Committee Meeting a member made four points in the form of motions to help address objections from the public comment and appeals procedures. Two of the items were tabled during the previous meeting so the working group could clarify them further. The first item was displayed on the screen for the participants.

1. Table 12.2.1-C Floors and Interior Fit-Outs be modified to state: Interior Fit-Out Products (including insulation and wall coverings but excluding built-in cabinetry and shelving).

Vicki briefly explained the reason for the recommendation to change the language in Table 12.2.1-C and stated that the Working Group further edited the proposed language change to specify what was included and excluded in this table. A motion was made to change the table title to Floors and Other Interior Products and to change the section heading for Interior Fit Out Products to:



Minutes
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“Other Interior Products: insulation and wall coverings but excluding countertops, casework, cabinetry, and shelving” ~~Interior Fit Out Products (including insulation, laminates, hard surfaces, and wall coverings”.~~

Approved by Affirmation (No–0, Abstain–0)
Motion made by Carl Smith and seconded by Chris Dixon.

Then the next item that was tabled at the previous meeting was displayed for the participants.

2. Require specific, dated references for all of the referenced certification programs listed in Section 12.2.1.1.

Vicki explained that this suggested change is a result of a procedural appeal from the 3rd Round of Public Comment. She noted that the appeals panel did not find any violation of GBI procedures, but that the Working Group believed adding specific dates and version number to every standard, certification program and test method would help to prevent future procedural appeals. She stated that the secretariat was recommending that the standard be reviewed for all potential omissions of dates and version numbers and that the proposed clarifications be reviewed by the Editorial Working Group that was proposed at the beginning of the meeting prior to the draft of the standard going out for the 4th Round of Public Comment.

Discussion focused on why the Dates/Citations working group made this recommendation and the best way to achieve the desired outcome. It was noted that the recommendation to add dates/citations was debated thoroughly at the working group level. The committee then discussed what to do when it is not possible to list this information. A motion was made that “the Committee will provide dates for all codes, reference standards, testing methods, and programs in the GBI Standard and where dates are unable to be established a date will be established within the GBI standard for all referenced programs which will be the date of the last public comment period.”

Approved by Affirmation (No–0, Abstain–0)
Motion made by Chris Dixon and seconded by Peter Birkbeck.

Tabled Items from July 14, 2009 Meeting

The Chair explained that there were two comments tabled during the July 14 Committee Meeting. The comments were posted for the participants to view.

#33 Comment suggested a change in wording regarding the ventilation rates used in section 12.2.1-C. Carl explained the recommendation to reject and suggested Committee response. One member explained that although both methods use ASHRAE they don't use the same ASHRAE document therefore it would not make sense to include the suggested language. A motion was made to accept the NRA designation and Committee response as written.

Approved by Affirmation (No–0, Abstain–0)
Motion made by Dave Collins and seconded by Carl Smith.

#7 Comment suggested a change to the language in 12.3.2.1 which addresses radon. Committee agreed to reject comment and change the response to explain the changes to the language agreed upon earlier in the meeting. A motion was made to accept the NRA designation with modified response.

Approved by Affirmation (No–0, Abstain–0)
Motion made by Gord Shymko and seconded by Angela Tin.

Chair advised that was the end of outstanding business and asked if anyone had any additional items. No additional items were raised. Vicki Worden thanked the committee members and public for their efforts to improve the standard and work to bring the standard into being. The Chair asked for a motion to adjourn.

Approved by Affirmation (No-0, Abstain-0)
Motion to accept made by Carl Smith and seconded by Greg Crawford.



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Addendum:

The following is a list of participants from the public. Because of the difficulty of hearing all teleconference participants that joined the call, the list gives the names of the public to the best of our ability. This list may not include all participants that attended. Additions or clarifications can be made by contacting Sara Rademacher at sara@thegbi.org.

Public noted in attendance were: Andrew Smith, Craig Campbell, Dan Aja, Holly Emerson, Jude Anders, Larry Beineke, Mike Cudahy, Ward Hubbell, Chris Hsieh, Danny Gleiberman, Dru Preston, E.V. Wall, Vinod Aranha, Whit Faulkner and Phillip Hollander.