



MINUTES

GBI Consensus Body - Call #6
 Webinar/Teleconference
 June 26, 2020 from 12:00 to 2:00 p.m. ET

NOTE ALL TIMES ARE EASTERN TIME

Consensus Body Members in Attendance

Full Name	Organization	6/26/20	6/19/20	2/21/20	2/7/20	1/10/20	12/20/19
Gregg Bergmiller	The S/L/A/M Collaborative	X	X	X	X	X	X
Benjamin Bojda	Dominion Environmental Consultants NV, Inc	X	X	X	X	X	X
Jeff Bradley	American Wood Council	X	X	X	X	X	X
Karen Butler	EPA	X	X	X	X	X	X
Virgil Campaneria	Gurri Matute PA	X	X	X	Absent	Absent	X
Michael Cudahy	PPFA - PPEF	X	X	X	X	X	X
Chris Dixon	Morrison Hershfield	X	X	(proxy Bergmiller)	X	X	X
David Eldridge	Grumman/Butkus Associates	Absent	(Proxy Shymko)	X	(proxy Shymko)	X	X
Josh Jacobs	UL	Absent	X	X	X	X	X
Gary Keclik	Keclik Associates Ltd.	X	X	X	X	Absent	Absent
Charles Kibert	University of Florida	X	X	X	Absent	X	X
Michael Lehman (Chair)	Chair	X	X	Absent	X	X	X
Tim Miller	Sidock Group Inc	Absent	X	X	Absent	X	X
James O'Brien	Independent Environmental Consultant	X	X	Absent	Absent	X	X
Jane Rohde	JSR Associates, Inc., The Vinyl Institute / Resilient Floor Covering Institute	X	X	X	X	Absent	X
Kirk Sander	National Waste and Recycling Association	Absent	X	X	X	Absent	X
Gord Shymko	G. F. Shymko & Associates Inc.	X	X	X	X	X	X
Stephen Szoke	American Concrete Institute	X	X	X	X	Absent	X
Angela Tin	American Lung Association	X	X	X	X	X	X
Doug Tucker	Mitsubishi Electric US, Inc.	X	X	X	X	X	X

Interested Parties in Attendance

Full Name	Organization	6/26/20	6/19/20	2/21/20	2/7/20	1/20/20	12/20/19
Tara Brooks	American Lung Association	X	X				

Glen Clapper	National Roofing Contractors Association					X	
Larry Clark	Sustainable Performance Solutions				X		
John Cross	American Institute of Steel Construction		X				
Domenic DeCaria	The Vinyl Institute					X	
Robyn Dowsey	Eco Build Strategies		X				
Larry Eisenberg	Ovus Partners 360	X	X	X	X		X
Nathan Elliott	EA Architecture & Design, Inc.					X	X
Julia Farber	Legrand, North and Central America						X
Michael Gardner	M Gardner Services, LLC		X		X		X
Stan Graveline	US Sika					X	
Greg Hekman	Cornerstone Building Brands				X		
Gary Heroux	Composite Panel Association					X	
Jim Kendzel	American Supply Association	X					
Alison Kinn Bennett	EPA					X	
Viken Koukounian	K.R. Moeller Associates Ltd.		X	X	X	X	
Emily Lorenz	Independent Consulting Engineer		X		X	X	X
Cambria McLeod	Kohler Company		X	X	X		X
Thomas Pape	Best Management Partners				X	X	
Kimmy Seago	Yardi Energy			X			
Mike Temple	Irrigation Association						X
Kyle Thompson	IAPMO		X			X	
Martha VanGeem	Independent Consulting Engineer	X	X				

Staff in Attendance

Full Name	Organization	6/26/20	6/19/20	2/21/20	2/7/20	1/10/20	12/20/19
Vicki Worden	President & CEO, GBI	X	Absent	Absent	X	Absent	X
Emily Marx	Secretariat, GBI	X	X	X	X	X	X
Megan Baker	Staff, GBI	Absent	Absent	Absent	X	X	X
Kate Callahan	Staff, GBI	X	X	Absent	X	X	X
Sara Rademacher	Staff, GBI	Absent	X	Absent	X	X	X
Micah Thomas	Staff, GBI	Absent	Absent	X	X	X	X
Adam Wellen	Staff, GBI	Absent	Absent	Absent	X	X	X

Welcome

Chair Michael Lehman welcomed everyone to the meeting.

Roll Call

Secretariat Emily Marx took roll call to establish quorum, reviewed the GBI Anti-Trust Policy, Code of Conduct policy and notified participants that the call was being recorded for the purpose of preparing minutes. No objections or concerns were raised.

Administrative Items

Lehman stated that there will be a short presentation by Vicki Worden on the points minimum requirement before reviewing and processing public comments. Lehman reviewed the agenda and asked if anyone had any comments or concerns. There were no objections or concerns.

MOTION: A Motion was made, seconded, and carried unanimously to approve the Agenda as presented.

Lehman also reviewed the minutes from meeting #5 on June 19, 2020 and asked if anyone had any comments or concerns. There were no objections or concerns.

MOTION: A Motion was made, seconded, and carried unanimously to approve the minutes from meeting #5 on June 19, 2020 as presented.

Point Minimum Requirement

Vicki Worden presented on Green Globes and the need to ensure it is accessible to many different projects and building types. She reviewed the current concerns with having a minimum for each Assessment Area and for the entirety of the standard.

Worden stated that by moving the decision of minimums to the Standard Committee, a working group that is approved by the GBI Board of Directors and makes recommendations to the Board, it allows GBI to adjust more fluidly with market needs.

Worden reviewed the process of placing the standard in a content management system (CMS) to be used by projects and assessors. She noted that at times it is left to the staff's best judgement on how best to set up the points scale in the CMS that reflects the standard and its intention. Worden discussed the current rating system and how it differs from the Canada version that it was originally based on.

Worden discussed the process of converting an ANSI approved standard into a rating system that works for all building types. She noted that some projects that completed the pilot program had difficulty achieving points in some sections and weren't able to meet some of the minimums set by the previous Consensus Body during the last cycle. She stated that GBI will be seating a Consensus Body for Existing Buildings at the end of 2020 and currently those working on the first draft of criteria are including the points and minimums in the Foreword, which would not be subject to public comment. Worden argued that by removing the points and the minimum it allows the experts that make up the Consensus Body to review and discuss the criteria on what makes a building green and not the math of points. Worden noted that many projects are still using Green Globes New Construction 2013, which has no minimums, and the standard is still viewed as robust in the market. Worden noted that many entities, especially those in the government, set their own minimums that projects must meet.

Worden reviewed the discussion that was previously had by the Points Allocation Subcommittee: initially they discussed removing the points minimum for the Assessment Area. However, during the discussion it was agreed that points and minimums is the jurisdiction of GBI and not the Consensus Body. Thus, they opted to remove all language concerning points minimums.

Worden reviewed the GBI process for creating a standard and the purpose of the Standards Committee that is the overarching highest body of standards creation/development for GBI. Worden showed pictures of how the CMS looks for users and how removing the points minimum will positively affect how users can achieve a Green Globes rating.

Points-1

Proposed Revision:

3. ACHIEVEMENT LEVELS, MINIMUMS, NOT APPLICABLES AND THIRD PARTY ASSESSMENTS

3.1 Achievement Levels

Levels of Achievement 1, 2, 3, and 4 are specified in Table 1 below.

TABLE 1

3.2 Minimum Achievement Requirements

To achieve compliance in any of the four Levels, buildings must:

1. attain a minimum of 35% of applicable points out of the 1000 possible points available; and
 2. attain a minimum percentage of points in each environmental assessment area as denoted in Table 2.
- Where calculations are used to determine points achieved, round to the nearest whole number.

3.3 Not Applicable Criteria

Each environmental assessment area contains certain criteria that a design and delivery team may deem to be “Not Applicable” to the building. Selecting “Not Applicable” may be appropriate in the following circumstances as denoted in Table 3:

TABLE 3

Questions without a Not Applicable option should be answered as appropriate for the building.

4. ASSESSMENT OF COMPLIANCE

Assessment of compliance with a specific Level of Achievement (Table 1) can be established through a third-party review of appropriate written plans, working drawings, specifications, site plans, energy modeling, life cycle assessment results, commissioning reports, construction documents and/or other data or documents that demonstrate conformance.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- A member thanked Vicki for her presentation and stated it was very inciteful and he strongly believes that the minimums should be removed.
- A member noted that by voting in favor of removing the points minimum it will simplify future discussions since it will only be on criteria of what makes a green building and not what criteria should be weighted more or less with points.

VOTE: The Motion carries with 14 in favor, 0 opposed, 1 abstained.

Abstain: Jeff Bradley

4-1

Public Comment: N/A

Reason: Move Achievement Level table to Foreword

Recommended Response: Thank you for your comment. Your comment has been accepted with modification. The reason to modify is because the Achievement Level table will be removed from the standard.

Discussion on Public Comment:

- There was discussion on whether this was an Editorial or Substantive comment before it was agreed that it was Editorial. There were no objections to the proposed response.

4-3

Public Comment:

Project Management 100 ~~20~~10% of applicable points

Site 150 ~~20~~10% of applicable points

Energy 260 ~~20~~10% of applicable points

Water Efficiency 190 ~~20~~10% of applicable points

Materials 150 ~~20~~10% of applicable points

Indoor Environment 150 ~~20~~10% of applicable points

Reason: The minimum threshold % for Materials needs to be lowered due to the pilots failing to meet the minimum 20% threshold. Additional possible changes are for either points to be re-arranged within the Materials assessment area or changing the criteria itself within Materials.

Recommended Response: Thank you for your comment. Your comment has been accepted with modification. The minimum percentage of points in each environmental assessment area as denoted in Table 2 will be removed from all assessment areas.

MOTION: The Motion was made and seconded to accept with modification the proposed response.

Discussion took place on the Motion:

- There was some confusion of what type of response is needed since it was previously voted on to remove the table and all points minimum requirements. It was noted that each public comment needs a response.
- It was agreed that thresholds need to be lowered, but that points minimums should be removed altogether.

VOTE: The Motion carries with 14 in favor, 0 opposed, 1 abstained.

Abstain: Jeff Bradley

Recommended Documentation

Marx noted that on the June 19, 2020 the Consensus Body agreed to remove all Recommended Documentation from the standard, but that a response to the public commenters was not discussed or voted on. She stated that once one is developed, she will use it for all public comments in each Assessment Area.

6a-2, 6a-9, 6a-15, 8-6, 8-9, 8-14, 8-17, 8-18, 8-20, 6b-6, 6b-9, 6b-14, 6b-36, 6b-39, 6b-58, 6b-62, 5a-4, 5a-6, 5a-7, 5a-9, 5a-10, 5a-11, 5a-12, 5a-14, 4-6, 4-7, 4-9, 4-10, 5b-2, 5b-8, 5b-10, 5b-14,

Public Comment: N/A

Reason: To maintain consistency throughout the standard and to minimize confusion (as reported by pilot participants), it's proposed that Recommended Documentation be broken up and placed within the points where the documents are applicable.

Recommended Response: Thank you for your comment. Your comment has been accepted with modification. All Recommended Documentation will be removed from the standard and moved into the Technical Manual.

MOTION: The Motion was made and seconded to accept with modification the proposed response.

Discussion took place on the Motion:

- The response was developed and refined per discussion. There was agreement that the finalized response was clear.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water Efficiency

Water-11

Proposed Revision: clothes washer, residential: a clothes washer designed for use in applications in which the occupants of one or more households will be using the clothes washer, including multi-family housing common areas or self service laundry:

- ~~commercial clothes washer: a front-loading or top-loading clothes washer designed for use in applications in which the occupants of more than one household will be using the clothes washer, such as multi-family housing common areas or laundromats.~~
- ~~multi-load clothes washer: a clothes washer with a bulk capacity generally equal to or greater than 25 lbs. (11.33 kg) of laundry; used in commercial laundromat operations and multi-family common areas for tenant use and are coin- or card-operated.~~
- ~~single-load clothes washer: a clothes washer with a bulk capacity less than 25 lbs. (11.33 kg); typically termed "family-sized" and found in dwelling units, commercial laundromats, and multi-family common areas for tenant use. Except for those located within dwelling units, SLWs are typically coin- or card-operated.~~
- ~~tunnel washer: an industrial laundry machine design specifically to accommodate heavy wash loads; also called a continuous batch washer. In operation, laundry progresses through the washer in one direction, while water and washing chemicals move through in the opposite direction on a continuous basis.~~

Discussion took place on the Proposed Revision:

- The chair explained that this is a change to the definition and there was some discussion on whether this was an editorial or substantive revision by the Water Subcommittee. There was agreement that because this is a change to a definition it is substantive

MOTION: The Motion was made and seconded to change the comment type from Editorial to Substantive and to approve the revision to the definition of clothes washer.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water-2, Water-3, Water-4, Water-5

Proposed Revision:

- Path A: ANSI/ASHRAE/USGBC/IES Standard 189.1-~~2014~~2017, Section 6.3.2.1:

9.1.1 Path A: ANSI/ASHRAE/USGBC/IES Standard 189.1-~~2014~~2017

9.1.1.1 Plumbing fixtures and fittings comply with ANSI/ASHRAE/USGBC/IES Standard 189.1-~~2014~~2017, Section 6.3.2.1.

- Path B: ~~2015~~ 2018 International Green Construction Code (IgCC), Table ~~702.1~~601.3.2.1:

9.1.2 Path B: 2018 International Green Construction Code (IgCC), Table 601.3.2.1~~2015 International Green Construction Code (IgCC)~~

9.1.2.1 Plumbing fixtures and fittings comply with the 2018 International Green Construction Code (IgCC), Table 601.3.2.1~~2015 International Green Construction Code (IgCC), Table 702.1~~.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water-9

Proposed Revision:

9.4.3.1 ~~Coin- or card-operated laundromat machines~~ Self service clothes washers meet the prescribed integrated water factor (IWF) performance as follows:

- ~~Laundromat eClothes washers, single-load~~ have an IWF of ~~4.30~~ or less and comply with ENERGY STAR requirements;
- AND/OR
- ~~Clothes washers, Multi-load~~ have a WF of ~~8.0~~ or less.

2 points or N/A

- Two points are earned where all machines comply with the specified water factor.
- Not applicable where there are no ~~coin- and card-operated machines~~ clothes washers.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water-10

Proposed Revision

9.4.3.3

In an on-premise/institutional laundry, non-residential clothes washers and ~~washer extractors~~ have a maximum IWF of 8~~4~~.0.

2 points or N/A

- Not applicable where there are no ~~coin- and card-operated machines~~ non-residential clothes washers.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

5-8

Public Comment: Not applicable where there is no on-premise/institutional laundry. ~~are no coin- and card-operated machines~~.

Reason: Should say “Not applicable where there is no on-premise/institutional laundry” not “Not applicable where there are no coin- and card-operated machines.”

Recommended Response: Thank you for your comment. Your comment has been modified. The new criteria is the following: • Not applicable where there are no ~~coin- and card-operated machines.~~ non-residential clothes washers

Discussion took place on the Public Comment:

- Marx explained that this public comment relates to the previously approved revision Water-10 as it is concerning the Not Applicable for 9.4.3.3, which was just approved by the Consensus Body in the previous motion.

MOTION: The Motion was made and seconded to accept with modification the proposed response.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water-1

Proposed Revision: 9.6.3.1 Graywater treatment systems are NSF 350 or IAPMO IGC 324 listed where present.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water-6

Proposed Revision: 9.6.3.1 Graywater treatment systems are NSF/ANSI 350, NSF/ANSI 350-1 or IAPMO IGC 324 listed where present.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water-8

Proposed Revision: • 9.8.1.3.5: Landscape irrigation sprinklers and drip emitters that comply with ASABE/ICC 802-2014 ~~ANSI~~ Landscape Irrigation Sprinkler and Emitter Standard.

Discussion took place on the Proposed Revision:

- The chair explained that after reviewing the proper titles of standards they found that the ASABE/ICC 802-2014 Landscape Irrigation Sprinkler and Emitter Standard does not have ‘ANSI’ in it and thus, to be consistent and accurate the Water Subcommittee is recommending to remove it.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 13 in favor, 1 opposed, 1 abstained.

Opposed: Gregg Bergmiller

Abstain: Jeff Bradley

Water-22

Proposed Revision:

9.8 Leak Detection (10 points)

Leak detection devices shall comply with IGC 349 and not interfere with fire protection systems.

Water Leak Detection Device: A plumbing appurtenance that monitors a water supply and distribution system in order to detect and report unusual conditions that may cause water waste.

Adaptive Plumbing System Monitoring and Control Device: A type of water leak detection device that utilizes sensor inputs to continuously monitor the hydraulic conditions and intelligently adapts to remotely report expected normal vs abnormal plumbing system states.

9.8.1 Leak Detection

9.8.1.1 Install water leak detection device for all water-intensive applications such as commercial kitchens, commercial laundries, laboratories, pools, spas, etc.

Maximum 1 point or N/A

- One point is earned for adaptive plumbing system leak detection devices.
- Not applicable where there are no water intensive applications.

9.8.1.2 Install water leak detection device for water that is used for pressurized irrigation.

Maximum 2 points or N/A

- Two points are earned for adaptive plumbing system leak detection devices.
- Not applicable where there is no irrigation.

9.8.1.3 Link all water leak detection devices to internet or a central Data Management System to store monitor and report data.

1 point

9.8.1.4 Equip chilled or hot water loops or cooling tower make up water supply pipes with water leak detection devices..

Maximum 1 point or N/A

- One point is earned for adaptive plumbing system leak detection devices.
- Not applicable where there are no chilled or hot water loops.

9.8.1.5. Use tenant water leak detection devices in multi-unit developments. Percentages are based on units with water supply.

Maximum = 5 points or N/A

- Five points are earned when at least 90% of the units in the development include adaptive plumbing system water leak detection.
- Four points are earned when at least 80% of the units in the development include adaptive plumbing system water leak detection.
- Two points are earned when at least 40% of the units in the development include adaptive plumbing system water leak detection.
- One point is earned when at least 20% of the units in the development include adaptive plumbing system water leak detection.
- Not applicable where there is no multi-unit development.

9.8.2 Recommended Documentation

- Building plans showing leak detection systems;
- Construction documents;
- Manufacturer's specifications, cut sheets, and performance documentation for the water leak detection devices and Data System;
- Plan for billing of tenants;
- Plumbing design drawings;
- Leak detection system specifications;
- IAPMO IGC 115 for automatic water leak detection devices.
- IAPMO IGC 349 for adaptive plumbing system water leak detection devices.

Discussion took place on the Proposed Revision:

- The chair described new technologies that are on the market to reduce leaks and protect buildings against them. The addition of the new section includes definitions that have been thoroughly reviewed by the Subcommittee. The chair noted that 10 points were removed from other sections to give to this new section.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water-12, Water-13, Water-14, Water-15, Water-16

Proposed Revisions:

Water-12

- Path A: ANSI/ASHRAE/USGBC/IES Standard 189.1-2017, Section 6.3.2.1: ~~54~~52 points
OR
- Path B: 2015 International Green Construction Code (IgCC), Table 702.1: ~~54~~52 points
OR
- Path C: 2015 IAPMO Green Plumbing & Mechanical Code Supplement Section 402: ~~54~~52 points

9.1.1.1

~~54~~52 points or N/A

9.1.2.1

~~54~~52 points or N/A

9.1.3.1

~~54~~52 points or N/A

Water-13

9.2.1.1

Maximum = ~~13~~11 points or N/A

- ~~Five~~Four points are earned where cooling towers achieve the respective threshold cycles of concentration.
- ~~Four~~Three points are earned when either;
 - o 6 cycles are achieved where the tower target performance metric is defined in 9.2.1.1 as 5; OR
 - o where 4.5 cycles are achieved where the target performance metric is defined in 9.2.1.1 as 3.5 and these cycles of concentration are sustained while maintaining the defined threshold water quality parameters in 9.2.1.1.
- Four points are earned where at least 25% of a cooling tower's annual makeup water is from safe and approved alternative non-potable sources.
- Not applicable where there are no wet-cooling towers.

Water-14

9.3.2.1

Maximum = ~~4~~3 points

- ~~Four~~Three points are earned where there is a maximum of 48 oz. from a water heater AND/OR a maximum of 24 oz. from a recirculation or similar hot water line.
- ~~Three~~Two points are earned where there is a maximum of 64 oz. from a water heater AND/OR a maximum of 24 oz. from a recirculation or similar hot water line.
- ~~Two~~One points ~~are~~ is earned where there is a maximum of 96 oz. from a water heater AND/OR a maximum of 36 oz. from a recirculation or similar hot water line.

Water-15

9.4.1.2

Maximum = ~~5~~3 points or N/A

- One point is earned where each listed appliance or fitting meets the specified water usage limits up to a maximum of ~~5~~3 points.
- Not applicable where the listed appliance or fitting is not present.

Water-16

9.6.2

Maximum = ~~15~~12 points or N/A

- ~~Fifteen~~Twelve points are earned where alternate water source(s) are used for Cooling Towers;
OR
- ~~Fifteen~~Twelve points are earned where alternate water source(s) are used for Irrigation.
 - o Not applicable where the vegetative landscape is less than 25% of the site.
- OR
- ~~Five~~Four points are earned where alternate water source(s) are used for Water features.
- ~~Five~~Four points are earned where alternate water source(s) are used for Wash Down/Surface Washing.

- ~~Five~~Four points are earned where alternate water source(s) are used for Dust Control.
- Not applicable where there is no irrigation or other outdoor demand.

Discussion took place on the Proposed Revision:

- The Water Subcommittee chair stated that to give points to the new Leak Protection criteria, 1-3 points were removed from other sections in the Water Assessment Area.

MOTION: The Motion was made and seconded to accept the proposed revisions.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Water-17, Water-18, Water-19, Water-20, Water-21

Proposed Revisions:

- 9.1 Indoor Domestic Plumbing (~~56~~54 points)
- 9.2 Cooling Towers (~~24~~22 points)
- 9.3 Boilers and Hot Water Systems (~~10~~9 points)
- 9.4 Water Intensive Applications (~~24~~19 points)
- 9.6 *Alternate Water Sources* (~~28~~25 points)

MOTION: The Motion was made and seconded to accept the proposed revisions.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

2-1

Public Comment: N/A

Reason: Many users are trying to claim partial credit for the Water Efficiency paths so that they do not lose 75 points. It seems this is against the intention of the subcommittee. Re-examine for clarity on scoring.

Recommended Response: Thank you for your comment. Your comment has been accepted with modification. -75 has been removed from the credit language and the calculation methodology has been revised. The new criteria is as follows:

Maximum = 45 points or N/A

- For points to be awarded fifty percent of fixtures must comply.
- o Points awarded = percentage of compliant fixtures x 45 (fractional points are rounded upward.)

- ~~One point is earned where at least 80% of each fixture type meets credit requirements; and~~
- ~~Four points are earned where 90% of each fixture type meets credit requirements; and~~
- ~~Forty five points are earned where at least 98% of each fixture type meets credit requirements.~~
- ~~Seventy five total points are deducted if less than 80% of each fixture and fitting type meets credit requirements as listed in Path D. (Note: Points are deducted from the Water Assessment Area)~~
- Not applicable where no fixtures or fittings exist.
- Not applicable where Path A, B or C is followed.

Discussion took place on the Motion:

- A member reviewed the need to remove the -75 points criteria from the Water Assessment Area and the process that was taken by the Points Allocation Subcommittee to update the criteria. By removing the -75 points, it allows projects to receive points based on a scale. It was noted that projects still need to have at least 50 percent of fixtures complying with the standard chosen in each path to receive any points.

MOTION: The Motion was made and seconded to accept with modification the proposed response.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

5a-2

- Public Comment:**
- One point is earned where at least 80% of each fixture type meets credit requirements; ~~and~~
 - Four points are earned where 90% of each fixture type meets credit requirements;

Reason: The responses say "and." This implies the points are cumulative. If 92% of each fixture type meets requirements then do you get 1 point PLUS 4 points for a TOTAL of 5 points? Seems the "and" should be removed.

Recommended Response: Thank you for your comment. Your comment has been accepted with modification. The calculation methodology has been revised. The new criteria is as follows: Maximum = 45 points or N/A

• For points to be awarded fifty percent of fixtures must comply.

o Points awarded = percentage of compliant fixtures x 45 (fractional points are rounded upward.)

- ~~• One point is earned where at least 80% of each fixture type meets credit requirements; and~~
- ~~• Four points are earned where 90% of each fixture type meets credit requirements; and~~
- ~~• Forty five points are earned where at least 98% of each fixture type meets credit requirements.~~
- ~~• Seventy five total points are deducted if less than 80% of each fixture and fitting type meets credit requirements as listed in Path D. (Note: Points are deducted from the Water Assessment Area)~~
- Not applicable where no fixtures or fittings exist.
- Not applicable where Path A, B or C is followed.

MOTION: The Motion was made and seconded to accept with modification the proposed response.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Points-2

Proposed Revision:

9.1.1.1.1

~~54~~52 points or N/A

• For points to be awarded fifty percent of fixtures must comply.

o Points awarded = percentage of compliant fixtures x 52 (fractional points are rounded upward.)

- Not applicable where no fixtures or fittings exist.
- Not applicable where Path B, C or D is followed.

9.1.1.2.1

~~54~~52 points or N/A

• For points to be awarded fifty percent of fixtures must comply.

o Points awarded = percentage of compliant fixtures x 52 (fractional points are rounded upward.)

- Not applicable where no fixtures or fittings exist.
- Not applicable where Path A, C or D is followed.

9.1.1.3.1

~~54~~52 points or N/A

• For points to be awarded fifty percent of fixtures must comply.

o Points awarded = percentage of compliant fixtures x 52 (fractional points are rounded upward.)

- Not applicable where no fixtures or fittings exist.
- Not applicable where Path A, B or D is followed.

9.1.1.4.1

Maximum = 45 points or N/A

• For points to be awarded fifty percent of fixtures must comply.

o Points awarded = percentage of compliant fixtures x 45 (fractional points are rounded upward.)

- ~~• One point is earned where at least 80% of each fixture type meets credit requirements; and~~
- ~~• Four points are earned where 90% of each fixture type meets credit requirements; and~~
- ~~• Forty five points are earned where at least 98% of each fixture type meets credit requirements.~~
- ~~• Seventy five total points are deducted if less than 80% of each fixture and fitting type meets credit requirements as listed in Path D. (Note: Points are deducted from the Water Assessment Area)~~
- Not applicable where no fixtures or fittings exist.
- Not applicable where Path A, B or C is followed.

Discussion took place on the Proposed Revision:

- A member reiterated that by removing the -75 points criteria, it allows projects to receive points based on a scale. It was noted that there is still a requirement for projects to have at least 50 percent of fixtures complying with the standard in the chosen path.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Materials

2-2

Public Comment: N/A

Reason: The materials section of the pilot version will likely cause quite a few certification failures if the 20% minimum requirement is enforced. I recommend one of the following changes:

1 - Eliminate the 20% minimum for the materials section.

2 - Put the building construction quality items back into the materials section (these are numbered 3.5.7.1.1 through 3.5.10.2.3 in the current version of Green Globes) and assign 30 points to these items. The 30 points would be taken from the other areas in the materials section.

Recommended Response: Thank you for your comment. Your comment has been accepted with modification for the following reason:

The standard has been modified to remove the 20% minimum requirement from all assessment areas.

Discussion took place on the Public Comment:

- The chair reviewed the public comment and stated that it was similar to the previous discussion on removing the points minimums from the standard.

MOTION: The Motion was made and seconded to accept with modification the proposed response.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Materials Task Group-1

Proposed Revision:

Maximum = ~~30~~20 points

Points are earned where the following percentage reduction is demonstrated by adding at least three impact indicators:

- ~~Thirty~~ Twenty points are earned for a total 25% or greater reduction.
- ~~Twenty-eight~~ Nineteen points are earned for a total 24% reduction.
- ~~Twenty-six~~ Eighteen points are earned for a total 23% reduction.
- ~~Twenty-four~~ Seventeen points are earned for a total 22% reduction.
- ~~Twenty-two~~ Sixteen points are earned for a total 21% reduction.
- ~~Twenty~~ Fifteen points are earned for a total 20% reduction.
- ~~Eighteen~~ Fourteen points are earned for a total 19% reduction.
- ~~Sixteen~~ Thirteen points are earned for a total 18% reduction.
- ~~Fourteen~~ Twelve points are earned for a total 17% reduction.
- ~~Twelve~~ Eleven points are earned for a total 16% reduction.
- Ten points are earned for a total 15% reduction.
- No points are earned for less than 15% reduction.

Discussion took place on the Proposed Revision:

- The Materials Subcommittee stated that the points needed to be reduced for LCA to make it more accessible for all building types. He stated that the points that are taken from 10.1.1.1 will be given to 10.2.1.1.

MOTION: The Motion was made and seconded to accept the proposed revision.

Discussion took place on the Motion:

- A member stated that this is the opposite of what the Consensus Body should be changing. He noted that if it is hard, the standard should give more points to entice projects to complete the criteria. He stated that LCA is important and the standard should reflect it. There was an argument made that it is very difficult to establish baselines and this change is reflective of the difficulties that are relevant in the field. The original member argued

that people are not doing EPDs because it difficult and the standard would be disincentivizing building project teams from attempting to completed them.

VOTE: The Motion carries with 12 in favor, 2 opposed, 1 abstained.

Opposed: Gregg Bergmiller, Jeff Bradley

Abstain: James O'Brien

Materials Task Group-2 & 4-4

Proposed Revision Materials Task Group-2:

Maximum = ~~19~~ 29 points

Points are earned where products include one of the listed third party verifications/certifications:

- ~~Nineteen~~ Twenty-nine points are earned for ~~30~~ 40 or more products.
- ~~Fourteen~~ Twenty-six points are earned for ~~29~~ 38 products.
- ~~Thirteen~~ Twenty-three points are earned for ~~28~~ 35 products.
- ~~Twelve~~ Twenty points are earned for ~~27~~ 33 products.
- ~~Eleven~~ Seventeen points are earned for ~~26~~ 30 products.
- ~~Ten~~ Fourteen points are earned for ~~25~~ 28 products.
- ~~Nine~~ Eleven points are earned for ~~24~~ 25 products.
- Eight points are earned for 23 products.
- Seven points are earned for ~~22~~ 21 products.
- Six points are earned for ~~21~~ 18 products.
- Five points are earned for ~~20~~ 15 products.
- No points are earned for fewer than ~~20~~ 15 products.

Public Comment 4-4: Maximum = ~~19~~ 10 points

Points are earned where products include one of the listed third party verifications/certifications:

- ~~Nineteen points are earned for 30 or more products.~~
- ~~Fourteen points are earned for 29 products.~~
- ~~Thirteen points are earned for 28 products.~~
- ~~Twelve points are earned for 27 products.~~
- ~~Eleven points are earned for 26 products.~~
- Ten points are earned for 25 10 products.
- Nine points are earned for 24 9 products.
- Eight points are earned for ~~23~~ 8 products.
- Seven points are earned for ~~22~~ 7 products.
- Six points are earned for 21 6 products.
- Five points are earned for ~~20~~ 5 products.
- No points are earned for fewer than ~~20~~ 4 products.

Reason: Third party certification is difficult to achieve at the current number of products needed. Recommend lowering the number of products and maximum points.

Recommended Response: Thank you for your comment. Your comment has been rejected for the following reason: There are thousands of products that meet this requirement and reducing the amount of points would be contrary to moving the industry in the right direction.

MOTION: The Motion was made and seconded to accept the proposed revision for Materials Task Group-2 and reject public comment 4-4 and reply with the proposed response.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 14 in favor, 0 opposed, 1 abstained.

Abstain: Gregg Bergmiller

4-5

Public Comment: Maximum = ~~10~~ 7 points

Points are earned where products are evaluated through end of life:

- ~~Ten points are earned for 10 or more products.~~
- ~~Nine points are earned for 9 products.~~
- ~~Eight points are earned for 8 products.~~
- Seven points are earned for 7 6 products.

- Six points are earned for ~~6~~ 5 products.
- Five points are earned for ~~5~~ 4 products.
- No points are earned for fewer than ~~5~~ 3 products.

Reason: Do we have many (any) products, in the United States, that meet these criteria? LEED V4 has not been accepted in the design community despite years of advertising and development. When you ask architects why, they always bring up the new EPD requirements and how few products are available that carry that label.

Recommended Response: Thank you for your comment. Your comment has been rejected for the following reason: There are thousands of EPDS available that meet this requirement and the data they provide allow for better selections of products for a sustainable project.

MOTION: The Motion was made and seconded to reject the comment and reply with the proposed response.

Discussion took place on the Motion:

- There was no discussion on the motion.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Materials-8 & Materials Task Group-3

Proposed Revision Materials-8:

10.3 Product Risk Assessment (19 points)

10.3.1 Screening-Level Product Risk Assessment Occupant Exposure Screening Report (OESR)

10.3.1.1 Select at least one formulated product ~~or article~~ that has a completed Occupant Exposure Screening Report (OESR) ~~first, second, or third party screening-level product risk assessment prepared~~ in accordance with the chemical characteristics identified in ~~NSF/GCI/ANSI 355: Greener Chemicals and Processes Information Standard~~ ASTM E3182-20 - Standard Practice for Preparing an Occupant Exposure Screening Report (OESR) for Substances in Installed Building Products, based on the product's intended use, concentration of each chemical constituent within the product, and completion of a peer reviewed exposure model in accordance with 10.3.2; including, as a minimum, the following technically supported and applicable exposure scenario factors for either interior or exterior product categorized products: frequency, duration, amount utilized, ventilation rate, wind speed, and room/space size, or unlimited for unconfined spaces.

Points are earned for discrete products with different functional uses and not variations of the same product, unless the manufacturers show substantial difference between the chemical constituents or components. ~~Where a product has both interior and exterior exposure, the screening-level product risk assessment is required for the interior exposure only.~~

~~Product Screening-Level Product Risk Assessment Reporting:~~

~~The product manufacturer provides a screening-level product risk assessment report that includes the following elements:~~

- ~~• Certification that their full product formulation underwent the screening-level product risk assessment, including each constituent chemical identified by applicable Chemical Abstract Service Number (CAS number) and the percentage (actual, estimated, or range %) of each constituent chemical in the formulation (de minimus of 0.1% for carcinogens and 1% for other hazardous ingredients); and~~
- ~~• Each screening-level product risk assessment for human health, safety and ecological impacts, is required based upon the NSF/GCI/ANSI-355 Chemical Characteristics, and the results are reported in the generic classification of Green (least risk), Yellow (second least risk), Orange (second most risk), and Red (most risk).~~

~~Note: Human health and safety risk and ecological screening-level product risk assessments may be completed separately by different entities.~~

~~Informational Reference(s):~~

- ~~• screening-level product risk assessment tools referencing NSF/GCI/ANSI 355: Greener Chemicals and Processes Information Standard AND/OR processes allowed by regulatory authorities, e.g. REACH, EPA, Health Canada or other sources (2011)~~

Proposed Revision Materials Task Group-3:

Maximum = ~~19~~ 10 points

Points are earned where products undergo a screening-level *product risk assessment*:

- ~~Nineteen~~ points are earned for ~~15~~ products or more.

- ~~Fourteen points are earned for 14 products.~~
- ~~Thirteen points are earned for 13 products.~~
- ~~Twelve points are earned for 12 products.~~
- ~~Eleven points are earned for 11 products.~~
- Ten points are earned for 10 products.
- Nine points are earned for 9 products.
- Eight points are earned for 8 products.
- Seven points are earned for 7 products.
- Six points are earned for 6 products.
- Five points are earned for 5 products.
- Four points are earned for 4 products.
- Three points are earned for 3 products.
- Two points are earned for 2 products.
- One point is earned for 1 product.

Discussion took place on the Motion:

- The Chair explained that the previous standard, NSF/GCI/ANSI 355: Greener Chemicals and Processes Information Standard, is no longer being maintained and a task group reviewed numerous ways for 10.3.1.1's criteria to be updated. It was agreed upon to change the standard within the criteria to ASTM E3182-20 - Standard Practice for Preparing an Occupant Exposure Screening Report (OESR) for Substances in Installed Building Products, which is new, will be maintained by ASTM, and may be easier to be achieved by projects.

MOTION: The Motion was made and seconded to accept the proposed revisions for Materials-8 and Materials Task Group-3.

Discussion took place on the Motion:

- A member discussed the work that went into reviewing other standards and guidelines to add to 10.3.1.1 so that points could be achieved by projects. It was noted that the new standard may be more accepted by the market and manufacturers.

VOTE: The Motion carries with 15 in favor, 0 opposed, 0 abstained.

Public Participation

An interested party noted that by putting all of the points in the Foreword and not in the formative part of the standard, it makes it seem like no points are required. The member stated that GBI should still set a baseline of points for the standard, so projects understand what needs to be achieved. Marx stated that the Standards Committee will be reviewing the points and deciding how it will be written in the standard in the future.

New Business

There was no new business.

Action Items

GBI staff will send out a doodle poll for mid-July to determine the best date and time for meeting #7.

MOTION: The motion was made, seconded, and carried unanimously to adjourn.

Meeting adjourned at 2:00 PM EST.