

Proposed Changes

May 19, 2014

ΤG	-1: Administration, Compliance, and Operation & Owner Education	1
	Chapter 1: Scope and Administration	1
	Chapter 2: Definitions	3
	Chapter 3: Compliance Method	7
	Chapter 10: Operation, Maintenance, and Building Owner Education	8
	Appendix E: Accessory Structures 1	13
ΤG	-2: Site and Lot Development 1	4
	Chapter 4: Site Design and Development1	4
	Chapter 5: Lot Design, Preparation and Development 2	29
ΤG	-3: Resource Efficiency and Indoor Air Quality 4	13
	Chapter 6: Resource Efficiency 4	13
	Chapter 9: Indoor Environmental Quality 6	58
	Appendix B: Ducted Garage Exhaust Fan Sizing Criteria	31
ΤG	-4: Water Efficiency	32
	Chapter 8: Water Efficiency	32
ΤG	-5: Energy Efficiency	38
	Chapter 7: Energy Efficiency	38
ΤG	-6: Multifamily Proposals	25
	Chapter 3: 304 Green Multi-Unit Buildings 12	25
ΤG	Chapter 3: 304 Green Multi-Unit Buildings	25 26
ΤG	Chapter 3: 304 Green Multi-Unit Buildings12-7: Renovations and Additions12Chapter 3: 305 Green Remodeling12	25 26 26
ΤG	Chapter 3: 304 Green Multi-Unit Buildings12-7: Renovations and Additions12Chapter 3: 305 Green Remodeling12Chapter 11: Remodeling12	25 26 26 28
ΤG	Chapter 3: 304 Green Multi-Unit Buildings12-7: Renovations and Additions12Chapter 3: 305 Green Remodeling12Chapter 11: Remodeling12Chapter 12: Remodeling of Functional Areas13	25 26 26 28 39

TG-7: Renovations and Additions

Chapter 3: 305 Green Remodeling

Proposal ID TBD	LogID 5156	305.3.1 Applicability (Whole-building rating criteria)	
Submitter:	Brett VanAkkeren	, USEPA	
Requested Action:	Revise as follows		
Proposed Change:	The Provisions of Section 305.3 shall apply to remodeling of existing buildings. In addition to the foundation, at least one major structural system (such as walls) of the existing building shall remain in place after the remodel for the building to be eligible for compliance under Section 305.3. This one major structural system must be applied as part of over 50% of the surface area of the wall, floor, ceiling, or roof assemblies.		
Reason:	A definition of the term "major structural system" is not provided. Considering that there are various structural systems, the extent of what needs to be preserved for section 305.3 to apply, could vary. For example, structural systems might be roof trusses or shear structures limited to cores of multilevel buildings, and neither of those would be that extensive. Other structural systems, such as complete structural floors, would constitute far greater portions of buildings. Therefore, setting target that the system must be applied as part of over 50% of the surface area of the wall, floor, ceiling or roof assemblies helps clarify what needs to be preserved for section 305.3 to be applicable.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5149	305.3.5 Energy efficiency	
Submitter:	Carl Seville, Sevi	le Consulting	
Requested Action:	Add new as follow	vs	
Proposed Change:	A third alternate compliance path is to achieve a minimum air leakage improvement in lieu of energy consumption reduction.		
Reason:	The requirement for either before or after HERS ratings or full year of before and after utility data is excessive and I believe it will discourage projects from seeking certification under the standard. A suitable alternate would be to require blower door test at completion and a requirement that the house meet a certain ACH50 or ELR, or a minimum % improvement from a before blower door test. Points could be provided for increased air leakage improvements.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5262 305.3.5 Energy efficiency		
Submitter:	Neil Leslie, Gas Technology Institute		
Requested Action:	Revise as follows		
Proposed Change:	305.3.5.1 Energy Consumption Reduction. The reduction in energy consumption resultin from the remodeling shall be based on the estimated energy cost savings or <u>source energy savings</u> as determined by a third-party energy audit and analysis or utility consumption data. <u>The source energy multiplier for electricity shall be 3.16</u> . The source energy multiplier for fuels other than electricity shall be 1.1. The reduction shall be the percentage difference between the consumption per square foot before and after the remodel calculated as follows:		
Reason:	Aligns provision with IECC Section R405.3.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Chapter 11: Remodeling

Proposal ID TBD	LogID 5182	11.1001.1 Building owner's manual is provided		
Submitter:	Brett VanAkkeren	, USEPA		
Requested Action:	Revise as follows			
Proposed Change:	(5) Information on	local recycling and composting programs.		
Reason:	11.1001.1 states to Information on co	11.1001.1 states that information be included in the owner's manual as available and applicable. Information on composting programs should be referenced in part (5).		
TG Recommendation (AS or AM or D):				
Modification of Proposed Change:				
TG Reason:				
TG Vote:				

Proposal ID TBD	LogID 5103 11.1001.1 Buildi	g owner's manual is provided	
Submitter:	Donald Prather, ACCA		
Requested Action:	Add new as follows		
Proposed Change:	(23) Documentation and OEM manu	als as required in QI-5 2010	
Reason:	QI-5 2010 designates documentation and owner training based on the type of equipment installed. Relisting every combination in this standard would be duplicative. By adding the QI-5 requirement all HVAC system types would be covered.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5104 11.1002.1 Training of building owners (1- and 2-family dwellings)		
Submitter:	Donald Prather, ACCA		
Requested Action:	Add new as follows		
Proposed Change:	(10) Owner training requirements as required in QI-5 2010		
Reason:	QI-5 2010 designates information that is needed by owners with regards to maintenance. Relisting every combination in this standard would be duplicative. By adding the QI-5 requirement all HVAC system types would be covered.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5183	11.1002.1 Training of building owners (1- and 2-family dwellings)	
Submitter:	Brett VanAkkeren	, USEPA	
Requested Action:	Revise as follows		
Proposed Change:	(7) recycling and (composting practices	
Reason:	Training on composting practices should be included in the training dealing with recycling and waste management.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5184	11.1003.1 Building construction manual	
Submitter:	Brett VanAkkeren	, USEPA	
Requested Action:	Add new as follow	vs	
Proposed Change:	(9) A Disassembly Plan with as-built drawings and the chemical and mechanical inventory yielding information about the method of disassembly of building systems and the properties of major materiand components.		
Reason:	A disassembly plan should be provided to the owner to facilitate deconstruction and disassembly of the home to maximize reuse and salvaging of materials during renovation or at the end of the building's useful life.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5105	11.1003.3 Maintenance manual	
Submitter:	Donald Prather, A	CCA	
Requested Action:	Add new as follow	/S	
Proposed Change:	(10) OEM Mainter	nance requirements as required in QI-5 2010	
Reason:	QI-5 2010 designates information that is needed by owners with regards to maintenance. Relisting every combination in this standard would be duplicative. By adding the QI-5 requirement all HVAC system types would be covered.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5267	11.1004.1 Reserved - To Be Determined	
Submitter:	Matt Belcher, Verdatek Solutions		
Requested Action:	Add new as follow	/S	
Proposed Change:	11.1004 Innovative Practi 11.1004.1 Resilie applicable. Points the applicable buil 1. 2. 3. 4. 5. Lot incor 6. 7. 8. 9. 10. 11.	ices ince Dwelling incorporates one or more of the following resilience options, as for items 1 through 4 shall be granted only where such products are not required per Iding code. High-wind resistant or impact resistant entry doors or garage doors are installed Impact resistant glazing is installed. High-wind resistant or impact resistant wall claddings are installed. High-wind resistant or impact resistant voll claddings are installed. High-wind resistant or impact resistant roof coverings are installed. High-wind resistant or impact resistant roof coverings are installed. High-wind resistant or impact resistant roof coverings are installed. The building is constructed in accordance with an approved above-code mitigation program (e.g. IBHS Fortified, Resilience Star or My Safe Florida Home). porates one or more of the following resilience options, as applicable. The entire building is constructed using flood damage-resistant materials. The building is constructed with its lowest floor at least one foot above the elevation required by the building code or adopted by the jurisdiction, whichever is higher. The building is constructed with its lowest floor at least two feet above the elevation required by the building code or adopted by the jurisdiction, whichever is higher. The building is constructed with its lowest floor at least three feet above the elevation required by the building code or adopted by the jurisdiction, whichever is higher. The building is located in Zone A and constructed on an open foundation system (pile foundations or isolated piers). The building is constructed in accordance with an approved above-code flood mitigation program (e.g. IBHS Fortified, etc.).	
Reason:	With the focus on a It is an opportunity process that will de	future enhancement of the model codes to provide for enhanced "Resiliant" construction, to include reference in this "above code" standard to incentivise innvotaive practices and emonstrate best practices for eventual application into the model codes.	
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5176	11.601.2 Material usage	
Submitter:	Brett VanAkkeren	, USEPA	
Requested Action:	Revise as follows		
Proposed Change:	(1) Minimum structural member or element sizes necessary for strength and stiffness in accordance with advanced framing techniques that are in conformance with local building codes or structural design standards are selected.		
Reason:	Even though advanced framing techniques have been proven effective, in some instances because of local conditions, such as wind or seismic potential, some of the techniques are not allowed by local codes. It would be vigilant to mention possible code restrictions and recommend consulting building codes for the selection of suitable advanced framing technique options.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5178	11.602.1.9 Flashing
Submitter:	Brett VanAkkeren	, USEPA
Requested Action:	Revise as follows	
Proposed Change:	Make part (6), "Th construction types	rrough-wall flashing is installed at transitions between wall cladding materials or wall s," mandatory.
Reason:	Transitions betwe to allow for water transitions betwee	en materials are typically continuous and present a great opportunity to insert flashing to drain out of the walls and prevent water damage. Providing through wall flashing at en wall cladding materials is just good practice and should be mandatory.
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5179	11.605.2 Construction waste management plan
Submitter:	Brett VanAkkeren	, USEPA
Requested Action:	Revise as follows	
Proposed Change:	A construction wa of recycling or sal <u>clearing waste</u> .	ste management plan is developed, posted at the jobsite, and implemented with a goal vaging a minimum of 50 percent (by weight) of construction waste <u>. excluding land-</u>
Reason:	Land-clearing was heavy, bulky mate reduce the amour recycled.	ste should be excluded from the 50 percent calculation. Soil, vegetation, and rocks are erials. When included in the total weight used to calculate the recycling rate, it can at of higher-value materials, such as wood, concrete, and drywall, that is ultimately
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5205 1	1.605.2 Construction waste management plan
Submitter:	Wes Sullens, StopV	/aste of Alameda County
Requested Action:	Revise as follows	
Proposed Change:	A construction wast of recycling orsalvag and materials that a excluded from the 5	e management plan isdeveloped, posted at the jobsite, and implemented with a goal ging a minimum of 50 percent (by weight) of construction waste. Land clearing debris reprocessed for recycling but are used as alternative daily cover at landfillsshall be 0 percent requirement.
Reason:	Materials that result higher-value recyclii they are expensive materials. "Alternati surface of the active vectors, fires, odors byproducts of const (they do not re-ente Therefore, ADC sho GreenPoint Rated, a standard. Achieving jobsite best practice recycling facilities),	from land clearing activity are often heavy and can skew results for other types of ng and salvaging. Additionally, these materials are typically not landfilled because to tip and robust markets are available to accept and recycled those land clearing we Daily Cover" (ADC) is cover material other than earthen material placed on the a face of a municipal solid waste landfill at the end of each operating day to control , blowing litter, and scavenging. The ADC materials that result from building are ruction and demolition waste processing facilities, yet they are not actually recycled r the materials cycle) and are essentially deposited in landfills and stay there forever. Found not be considered recycling in green building standards. ASHRAE 189.1, and LEEDv4 have all disallowed ADC to count as recycling, and so should this 50% recycling by not including ADC and land clearing debris is widely available with s (source separation of materials on-site and sending those materials to specific and by sending the remaining mixed-waste loads to facilities that sort offsite.
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5180	11.605.4 Recycled construction materials	
Submitter:	Brett VanAkkeren	, USEPA	
Requested Action:	Revise as follows		
Proposed Change:	Construction mate concrete) that car	erials (e.g., wood, cardboard, metals, drywall, plastic, asphalt roofing shingles, or not be salvaged and reused onsite are recycled offsite.	
Reason:	Onsite salvage ar impacts; it should	Onsite salvage and reuse is preferred to offsite recycling because of reduced hauling and transportation impacts; it should be emphasized that reuse is a higher priority.	
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5181	11.610.1.2.1 Product LCA
Submitter:	Brett VanAkkeren	, USEPA
Requested Action:	Revise as follows	
Proposed Change:	Add two new impa	act categories: (e) Material Use and (f) Waste
Reason:	Industry-wide effo current. These life end, the analyses Using less materia use and waste are	rts to promote the management of materials and products on a life-cycle basis are -cycle efforts ensure that materials are used more efficiently and effectively. To that need to provide us with adequate measures that capture material use and recovery. al and recovering more is crucial to our economic and environmental future. Material two additional impact categories that should be included.
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5074	11.611.2 Sustainable products
Submitter:	Josh Jacobs, UL	
Requested Action:	Revise as follows	
Proposed Change:	(5) 50% or more of	the gypsum board installed (by square feet) is certified to <u>UL 100 ULE ISR 100</u> .
	(6) 50% or more of	the door leafs installed (by number of door leafs) is certified to <u>UL 102 ULE ISR 102</u> .
Reason:	This is an update to voting for the NAH	o existing references. UL 100 and 102 were finalized and published shortly after final B National Green Building Standard was completed.
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5106 11.701.4.1.1 HVAC system sizing (Mandatory practices)
Submitter:	Donald Prather, ACCA
Requested Action:	Add new as follows
Proposed Change:	701.4.1.X HVAC systems installation, and documentation. Space heating and cooling systems are to be installed documented in accordance with ACCA QI 5-2010
Reason:	Add a new Mandatory Requirement: Other places in the document the same requirements are either awarded points or are mandatory.
TG Recommendation (AS or AM or D):	
Modification of Proposed Change:	
TG Reason:	
TG Vote:	

Proposal ID TBD	LogID 5107	11.701.4.1.1 HVAC system sizing (Mandatory practices)
Submitter:	Donald Prather, A	CCA
Requested Action:	Revise as follows	
Proposed Change:	Add wording: 11.7 source in the build using industry-app or an accredited of	701.4.1.X Radiant and hydronic space heating. Where installed as a primary heat ding, radiant or hydronic space heating system is designed, <i>installed, and documented,</i> proved guidelines and standards (e.g., ACCA Manual j, AHRI I=B=R, ACCA 5 QI-2010, lesign professional's and manufacturer's recommendation.
Reason:	This section does requirements are	not have hydronic systems listed. Other places in the document the same either awarded points or are mandatory.
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5099	11.701.4.1.1 HVAC system sizing (Mandatory practices)
Submitter:	Donald Prather, A	CCA
Requested Action:	Add new as follow	vs
Proposed Change:	11.701.4.1.X HVA	AC systems installation, and documentation. Space heating and cooling systems are documented in accordance with ACCA QI 5-2010
Reason:	Add a new Manda awarded points or verification.	atory Requirement: Other places in the document the same requirements are either r are mandatory. ACCA recommends making them mandatory and awarding points for
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5225	11.701.4.1.1 HVAC system sizing (Mandatory practices)	
Submitter:	Eric Lacey, RECA	A	
Requested Action:	Add new as follow	NS	
Proposed Change:	11.701.4.0 Mini renovations, or r comply with the relate to new co building or buildi IECC if the addit IECC as a single	imum Energy Efficiency Requirements. Additions, alterations, repairs to an existing building, building system or portion thereof provisions of the International Energy Conservation Code as they instruction without requiring the unaltered portion(s) of the existing ing system to comply with this code. An addition complies with the tion complies or if the existing building and addition comply with the e building.	<u>Mandatory</u>
Reason:	This proposal clar requirements of the The language is be of the IECC and the Sections 11.701 as for all projects, and requirement that the are not altered by	rifies that additions, alterations, renovations, or repairs must meet the he IECC that apply to new buildings, to the extent that the requiremen based on Section R101.4.3 of the IECC so that there is consistency be the scope of ICC-700 with respect to additions, alterations, renovations and 12.701 both contain many of the IECC requirements as "mandato nd seem to imply that these projects should meet the IECC, but there is outlines the scope of the requirements. As with the IECC, portions of the a renovation, addition, alteration, or repair will not be required to meet	same ts are applicable. etween the scope s and repairs. ry" requirements is no specific the building that et the IECC.
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5227	11.701.4.1.1 HVAC system sizing (Mandatory practices)	
Submitter:	Eric Lacey, RECA	A	
Requested Action:	Add new as follow	vs	
Proposed Change:	11.701.4.X Fen factor and SHG daylighting device	estration Specifications. The NFRC-certified (or equivalent) U- C of newly installed windows, exterior doors, skylights, and tubular ces (TDDs) do not exceed the values in Table 703.1.6.1.	Mandatory
	<u>fenestration unit</u> glazing, the NFF fenestration unit	Diacement Fenestration. Where some or all of an existing is replaced with a new fenestration product, including sash and RC-certified (or equivalent) U-factor and SHGC of the replacement do not exceed the values in Table 703.1.6.1.	<u>Mandatory</u>
Reason:	This proposal imp efficiency, whether fenestration repla that currently app language in ICC- residential chapte user to replace a is planned that wi window, door, or	proves the consistency of Chapter 11 by requiring fenestration to meet er it is installed as part of new construction, a renovation or repair, or a cement. These new sections simply reference the baseline fenestration by to the prescriptive compliance option. The language is modeled after 700 and the IECC. In fact, the replacement fenestration requirement h er of every edition of the IECC since 2000. Neither of these sections re- window in a given project. However, if an addition, window replacement Il involve replacing an entire fenestration unit, these sections would si skylight to meet the prescriptive requirements specified in Chapter 7.	t the same level of a simple on requirements er existing has been in the equires a code ent or a renovation mply require that
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	gID 5270 11.901.1.4 Gas fireplaces and direct heating equipment vent	ed outdoors	
Submitter:	Ted A. Williams, American Gas Association		
Requested Action:	Revise as follows		
Proposed Change:	.901.1.4 Newly installed gas fired fireplaces and direct heating equipment is lis cordance with the NFPA 54, ICC IFGC, or the applicable local gas appliance in ed fireplaces and direct heating equipment are vented to the outdoors. duplicative proposed change on pl.1.4 is submitted.]	ted and is installed in Istallation code. Gas-	
Reason:	anning unvented or "vent-free" fireplaces and direct heating equipment, the net handatory" requirement, has never been justified in terms of environmental crite reen" standard. During deliberations on the 2012 Edition, air pollutant emission: ch products were not documented or referenced in terms of concentrations or s door environment or human health. Likewise, the ban does not address positive sociated with virtual 100% thermal efficiency of heating in the installed space a intral heating from spot heating afforded by unvented combustion heating applic vironmental criteria consistent with a "green" standard. Air pollutant emissions is ch products have not been documented or referenced in terms of concentration e indoor environment or human health. Likewise, the ban does not address pos mefits associated with virtual 100% thermal efficiency of heating in the installed ted for central heating from spot heating afforded by unvented combustion heat ich reduce overall energy demand and externalities (including total air emission ficient heating approaches. These positive effects should be evaluated on balar egative effects associated with altered indoor air concentrations of the identified made or documented to assess this balance. While points are proposed for use uning from green building represents unbalanced and non-technical consideral eir installation and use. The ban appears to appeal to simplistic views of environ used on an "additive" impact on indoor air quality from operation of unvented co- nores important design and product standardization considerations. For exampl ost directly, heat gain beyond tolerable limits in tight buildings impose a fundar meration of combustion products. The tighter the installation location, the lower ration the appliance can be operated while avoiding intolerable temperatures. T oplied to gas-fired residential cooking appliances since 1921 (ANSI Standard ZZ mbustion product loadings with the tightness of kitchens, emission factors from eat rise tolerances for occupants. A t	effect of this ria consistent with a s associated with use of specific effects on the e environmental benefits and reduced need for ances, in terms of associated with use of ns or specific effects on itive environmental space and reduced ing appliances, both of ns) associated with less nee with hypothesized contaminants. No effort e of these products, their tion of the net effects of nmental acceptability mbustion appliances. It e, appliance sizing and, ental limit on the the firing rate and This principle has been 21.1), which associated the appliances, and Consumer Product ct exposure criteria, and pproach. Unvented ances represent a public green" buildings) th respect to health and n technically justified uid be noted that Fligh-Performance imilar ban of unvented committee following	
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5101 11.902.2.1 Whole building ventilation system	
Submitter:	Donald Prather, ACCA	
Requested Action:	Add new as follows	
Proposed Change:	 (3) Heat-recovery ventilator (HRV) (4) Energy- recovery ventilator (ERV) (5) HRV or ERV is used as exhaust fan for one or more bathrooms or for a kitchen application 	
Reason:	This should be provided as a 9 or 10 point option because it saves up to 45% on the energy losses caused by simple negative air pressure exhaust only outside air /make up air designs.	
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5102	11.904.2 Kitchen exhaust
Submitter:	Donald Prather, A	ACCA
Requested Action:	Add new as follow	NS
Proposed Change:	11.904.2 Kitchen and makeup air is <u>(1) ERV or HRV i</u>	Exhaust. A kitchen exhaust unit(s) that equals or exceeds 400cfm (189 l/s) is installed s provided is installed to temper the outside air being brought in.
Reason:	Recommend making the makeup air requirement mandatory and awarding the 2 points for making it economical.	
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5155	Other for Chapter 11 (include section number and title below)
Submitter:	Stephen J Holzer,	eM8s, LLC
Requested Action:	Add new as follow	'S
Proposed Change:	11.505.6 Building and simulating op	JInformation Modeling (BIM) . Project Teamuses BIM planning, design, remodeling eration in order reducematerial waste and optimize performance.
Reason:	Building Information Modeling (BIM) is a computer generated model based process that simulates planning, design, construction and operations for buildings. It is a single repository for both three- dimensional, two-dimensional, and material properties information that allows data interoperability of all stakeholders to better inform design and construction decisions with the goal of producing the best product possible. This information technology will increase design and construction efficiencies and decrease costs for builders and end users. BIM may also facilitate better communication, collaboration and coordination among building industry professionals and trades working on the same project. Credit should be given to Builders utilizing the open industry standards as defined in the National Building Information Modeling Standard.	
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5177	Other for Chapter 11 (include section number and title below)
Submitter:	Brett VanAkkeren	, USEPA
Requested Action:	Add new as follow	/S
Proposed Change:	11.601.9 Design for Disassembly . Incorporate in the design interior elements, such as non-load- bearing walls, partitions, lighting and electric systems, suspended ceilings, raised floors and interior air distribution systems that can be disassembled, re-configured, and reused. Utilize connections that allow disassembly, such as reversible connections (e.g. screws, bolts, nails, clips).	
Reason:	The intent of 11.601 is to utilize design and construction practices that minimize the environmental impact of the building materials and to incorporate environmentally efficient building systems and materials. Employing design elements that can be disassembled, re-configured and reused, and utilizing connections that are reversible are important green building practices to ensuring buildings systems are environmentally efficient.	
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Chapter 12: Remodeling of Functional Areas

Proposal ID TBD	LogID 5148	12.0 Intent (Remodeling of Functional Areas)
Submitter:	Robert Hill, Hon	ne Innovation Research Labs
Requested Action:	Revise as follow	vs
Proposed Change:	12.0Intent. This areas of building complete kitche of the original control intended to	s chapter sets forth the mandatory green building practices for remodeling functional gs. The intent of Chapter 12 is to address the most common remodeling projects: n, full bathroom, complete basement, or an addition u nder 400 square feet less than 50% onditioned floor area. <u>An attic conversion may be considered an addition</u> . Chapter12 is be used for rating minor alterations.
Reason:	The limitation of force the buildin chapter 11 but i do but it is not o	f under 400 ft ² is too limiting. The limit should be established such that major additions ig to use chapter 11 but only adding a 20' x 30' room would not likely be certifiable via s outside the existing scope. Also, converting an unfinished attic is a very green thing to bviously within the scope of the current practice.
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5185	12.1(A) Product or material selection	
Submitter:	Brett VanAkkerer	n, USEPA	
Requested Action:	Add new as follow	ws	
Proposed Change:	12.1 (A).605.1 Control includes targets f	onstruction waste management plan. A construction waste management plan that for diversion is developed, posted at the jobsite, and implemented.	
Reason:	Although renovat construction was	Although renovation of functional areas may result in less waste generated, it is still prudent to develop a construction waste management plan that contains target rates for diversion of the waste from landfill.	
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			

Proposal ID TBD	LogID 5075 12.1(A).611.2 Sustainable products
Submitter:	Josh Jacobs, UL
Requested Action:	Revise as follows
Proposed Change:	 (5) 50% or more of the gypsum board installed (by square feet) is certified to <u>UL 100</u> <u>ULE ISR 100</u>. (6) 50% or more of the door leafs installed (by number of door leafs) is certified to <u>UL 102</u> <u>ULE ISR 102</u>.
Reason:	This is an update to existing references. UL 100 and 102 were finalized and published shortly after final voting for the NAHB National Green Building Standard was completed.
TG Recommendation (AS or AM or D):	
Modification of Proposed Change:	
TG Reason:	
TG Vote:	

Proposal ID TBD	LogID 5228	12.1.701.4.1.1 HVAC system sizing
Submitter:	Eric Lacey, RECA	A
Requested Action:	Add new as follow	vs
Proposed Change:	12.1.701.4.X Fe of newly installed exceed the value 12.1.701.4.X Re	enestration Specifications. The NFRC-certified (or equivalent) U-factor and SHGC d windows, exterior doors, skylights, and tubular daylighting devices (TDDs) do not es in Table 703.1.6.1. eplacement Fenestration. Where some or all of an existing fenestration unit is
	replaced with a replaced with	new fenestration product, including sash and glazing, the NFRC-certified (or ctor and SHGC of the replacement fenestration unit do not exceed the values in Table
Reason:	This proposal improves the consistency of Chapter 12 by requiring fenestration to meet the same level of efficiency, whether it is installed as part of new construction, a renovation or repair, or a simple fenestration replacement. These new sections simply reference the baseline fenestration requirements that currently apply to the prescriptive compliance option. The language is modeled after existing language in ICC-700 and the IECC. In fact, the replacement fenestration requirement has been in the residential chapter of every edition of the IECC since 2000. Neither of these sections requires a code user to replace a window in a given project. However, if an addition, window replacement or a renovation is planned that will involve replacing an entire fenestration unit, these sections would simply require that window, door, or skylight to meet the prescriptive requirements specified in Chapter 7.	
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5226	12.1.701.4.1.1 HVAC system sizing
Submitter:	Eric Lacey, RECA	
Requested Action:	Add new as follows	
Proposed Change:	12.701.4.0 Minimu to an existing buildi Energy Conservation the existing building the addition compli	um Energy Efficiency Requirements. Additions, alterations, renovations, or repairs ing, building system or portion thereof comply with the provisions of the International on Code as they relate to new construction without requiring the unaltered portion(s) of g or building system to comply with this code. An addition complies with the IECC if es or if the existing building and addition comply with the IECC as a single building.
Reason:	This proposal clarif requirements of the The language is ba of the IECC and the Sections 11.701 an for all projects, and requirement that ou are not altered by a	ies that additions, alterations, renovations, or repairs must meet the same e IECC that apply to new buildings, to the extent that the requirements are applicable. used on Section R101.4.3 of the IECC so that there is consistency between the scope e scope of ICC-700 with respect to additions, alterations, renovations and repairs. Ind 12.701 both contain many of the IECC requirements as "mandatory" requirements seem to imply that these projects should meet the IECC, but there is no specific utlines the scope of the requirements. As with the IECC, portions of the building that a renovation, addition, alteration, or repair will not be required to meet the IECC.
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5108 12.1.701.4.5 Boiler supply piping	
Submitter:	Donald Prather, ACCA	
Requested Action:	Revise as follows	
Proposed Change:	12.1.701.4.5 Boiler supply piping. <u>Insulate all</u> Newly installed boiler supply piping in unconditioned space that is accessible during the remodel is insulated	
Reason:	New pipe will be accessible.	
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5186	12.2.607.1 Recycling
Submitter:	Brett VanAkkeren	, USEPA
Requested Action:	Revise as follows	
Proposed Change:	12.2.607.1 Recycle the following meth	ling <u>and Composting</u> . Recyclin <u>g and composting</u> is <u>are</u> facilitated by one or more of nods:
Reason:	Composting is not considered the same thing as recycling. Since the intent of the section is to facilitate composting as well as recycling, composting should be referenced by name in Section 12.2.607.1.	
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5187	12.3.801.5.1 Faucets
Submitter:	Brett VanAkkeren	, USEPA
Requested Action:	Revise as follows	
Proposed Change:	Newly installed lav	vatory faucets are WaterSense labeled and have a maximum
Reason:	We recommend re	eferencing WaterSense labeled lavatory faucets.
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5188	12.3.801.6 Water closets
Submitter:	Brett VanAkkeren, USEPA	
Requested Action:	Revise as follows	
Proposed Change:	All newly installed water closets have an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA B45.1 or ASME A112.18.14 as applicable, and is-in accordance with EPA WaterSense labeled Tank-Type Toilets.	
Reason:	Simplify language to ensure that products are certified as meeting the WaterSense specification. As currently drafted, it could suggest that a product that met the specification but had not been certified as doing so could earn the points.	
TG Recommendation (AS or AM or D):		
Modification of Proposed Change:		
TG Reason:		
TG Vote:		

Proposal ID TBD	LogID 5268	Other for Chapter 12 (include section number and title below)	
Submitter:	Matt Belcher, Verdatek Solutions		
Requested Action:	Add new as follows		
Proposed Change:	12.6 Innovative Praction 12.6.1 Resilience applicable. Points the applicable built 1. 2. 3. 4. - 5. 6. 7.	ices e Functional areas incorporate one or more of the following resilience options, as for items 1 through 4 shall be granted only where such products are not required per Iding code. High-wind resistant or impact resistant entry doors or garage doors are installed. Impact resistant glazing is installed. High-wind resistant or impact resistant wall claddings are installed. High-wind resistant or impact resistant vall claddings are installed. High-wind resistant or impact resistant vall claddings are installed. High-wind resistant or impact resistant roof coverings are installed. High-wind resistant or impact resistant roof coverings are installed. The addition is constructed in accordance with an approved above-code mitigation program (e.g. IBHS Fortified, Resilience Star or My Safe Florida Home). Addition incorporates one or more of the following resilience options, as applicable:. The addition building is constructed using flood damage-resistant materials. The addition is constructed with its lowest floor at least one foot above the elevation required by the building code or adopted by the jurisdiction, whichever is higher. The addition is located in Zone A and constructed on an open foundation system (pile foundations or isolated piers).	
Reason:	An important component of sustainable building is mitigation of natural hazards. Integrating resilience into new construction or during remodeling of existing housing stock provides an extra layer of protection. However, building-in disaster resilience can be difficult and costly. Deciding how (and when) to improve a structure requires much thought, time and capital. With the focus on future enhancement of the model codes to provide for enhanced "Resiliant" construction, It is an opportunity to include reference in this "above code" standard to incentivise innvotaive practices and process that will demonstrate best practices for eventual application into the model codes.		
TG Recommendation (AS or AM or D):			
Modification of Proposed Change:			
TG Reason:			
TG Vote:			