CODES AND STANDARDS COMMITTEE
2009 CODE CHANGE CYCLE – BOOK 4
May 10, 2010

OPENING STATEMENT

TAB 1 ----- Summaries of Workgroup Meetings Held After Compilation Document was Published and Public Comment Period Ended.

TAB 2 ----- Code Changes Recommended for Approval by the Codes and Standards Committee on December 14, 2009 and Code Changes Considered through the Workgroup Process and Recommended for Approval as Submitted or As Modified.

USBC, Part I, Virginia Construction Code

Section Number.	Description of Change	Page No.
C-102.3(1)	Public Utilities	9
C-102.3(2)	Manufacturing Equipment	11
C-103.10(3)	IRC Testing Requirements	13
C-103.10(6)	Scope of Group R-5	15
C-108.2(2)	Accessory Structures	18
C-108.2(10)(a) and (b)	Replacement of Windows	21
C-116.4	Certificate of Occupancy	24
C-308.2(a)	Convalescent Facilities	29
C-308.3.1	Hospice Facilities	31
C-310.6(R314.2)	Household Fire Warning System	34
C-310.6(R315.2)	Carbon Monoxide Retrofit	36
C-310.6(R315.3)	Carbon Monoxide Detector Type	38
C-310.6(R401.3)	Lot Drainage	40
C-310.6(R408.3.1)	Termite Inspections	42
C-310.6(R602.10)	Wall Bracing (Revised 2006)	45
C-310.6(Appendix O)(a) and (b)	Residential Gray and Rain Water	74
C-403.4.4(a) and (b)	High-Rise Emergency Responder	77
C-424.4	Skirting	80
C-915.1	In-Building Emergency Communication	82
C-1007.7	Exterior Rescue Area	87
C-1020.1.6	Stairway Identification	92
C-1301(401.3)	Energy Certificate	94
C-2803.1(403.3)	Ventilation Rates Smoking	96
C-2901.1.1(Appendix C)(a) and (b)	Commercial Gray and Rain Water	99
C-3001.2.1	Elevator Performance Standard	104
C-3109.3	Swimming Pool Standards	107
C-Appendix E	Supplemental Accessibility	110

USBC, Part III, Virginia Maintenance Code

Section Number.	Description of Change	Page No.
M-105.1	Unsafe Structures Notices	112
M-105.4.1	Unsafe Structures Vacating	115

Virginia Statewide Fire Prevention Code

Section Number.	Description of Change	Page No.
F-107.6	Explosives Permits	117
F-107.13	Fireworks Permits	119
F-112.2	Local Appeals Boards	122
F-311.5(a) (b was withdrawn)	Placarding Buildings	124
F-315.1	Storage of Materials	127
F-605.10.1	Portable Space Heaters	130
F-609.3.3.2	Grease Hood Cleaning	133
F-907.9.5	Fire Alarm Testing	135
F-2205.4	Distance from Dispensers	138
F-3809.15	LP-Gas Cylinder Exchange	142
F-4601	Chapter 46 Retrofit	145

Virginia Industrialized Building Safety Regulations

Section Number.	Description of Change	Page No.
I-260	Seal Fees	147

Virginia Amusement Device Regulations

Section Number.	Description of Change	Page No.
A-40	Newest Standards	150
A-85	Accident Reporting	152
A-280	Accessibility	154

TAB 3 ----- Code Changes Recommended for Disapproval by the Codes and Standards Committee on December 14, 2009 and Code Changes Considered Through Workgroup Process and Recommended for Disapproval.

USBC, Part I, Virginia Construction Code

Section Number.	Description of Change	Page No.
C-118.1	Unsafe During Construction	156
C-118.6	Unsafe Due to Natural Disasters	160
C-119.9	Review Board Appeals	165
C-310.6(R302.1(6))	Separation Distance Proffers	170
C-310.6(R311.6.1)	Accessory Structure Ramps	173
C-1301(402.1.1)	Log Home Walls	175
C-1301(404.2)	Energy Management Device	178
C-2804.1(310.1)	CSST Lightning Protection	181

C-3102.5	Separation Distance Property Lines	183
C-3109.5.1	Swimming Pool Drains	186

Virginia Statewide Fire Prevention Code

Section Number.	Description of Change	Page No.
F-304.1.2	Wildland Urban Interface	193

Virginia Amusement Device Regulations

Section Number.	Description of Change	Page No.
A-50	VADR – Multiple Changes	195
A-75 C	Permit Application	199
A-80	Minor Rides	202

TAB 4 ----- Code Changes Considered Through Workgroup Process as Non-consensus.

USBC, Part I, Virginia Construction Code

Section Number.	Description of Change	Page No.
C-202	Definition of Existing Building	205
C-310.6(R602.10.6)	Wall Bracing Stem Walls	213
C-310.6(E3902.11)	Arc-Fault Circuits	216
C-708.14	Elevator Lobbies	219
C-903.2	Sprinkler Thresholds Group E	227
C-903.2.1.2	Sprinkler Thresholds Group A-2	234
C-903.2.7 (a) and (b)	Upholstered Furniture	237
C-903.2.8	Sprinkler Thresholds Group R-2	240
C-906	Fire Extinguishers Group R-2	243
C-1005.1 (a) and (b) ((c) withdrawn)	Egress Width and Sprinklers	246
C-1024.1 (a) and (b)	Luminous Egress Markings	254
C-1103.2.7	Accessibility Churches	258
C-2803.1(1101.10) (a) and (b)	Refrigerant Port Caps	261
C-3008.1	Occupant Evacuation Elevators	264

Virginia Statewide Fire Prevention Code

Section Number.	Description of Change	Page No.
F-107.12	Local Fees	266

Virginia Amusement Device Regulations

Section Number.	Description of Change	Page No.
A-20	Open to the Public	268

TAB 5 ----- Miscellaneous and Combined Public Comments.

April 2, 2010

DHCD, DBFR 2009 Code Change Process

March 25, 2010 Workgroup Meeting Summary

Workgroup 1 -Administrative and Selected Technical Issues

USBC: VCC, VRC and VMC:

Code Change No.	
C-101.2 (a)	Consensus to disapprove. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-101.2 (b)	Substitute code change will be submitted for the 4/8/10 workgroup meeting.
C-102.3(1)	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-102.3(2)	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-102.3(7)	Amendment may be submitted to include reference to the federal law. **This will be on the 4/29/10 workgroup meeting agenda.**
C-103.5 (a) & (b)	Non-consensus. Attendees had supportive and opposing comments to both code changes. **Proponent to consider feedback for possible amendments.** Some were concerned about determining the 50% line. An example was given on replacement of stairs and having the replacement stairs comply with new stair requirements. **This will be on the 4/29/10 workgroup meeting agenda.**
C-103.10(3)	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-103.10(6)	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-108.2(2)	Consensus to approve as amended to leave F1 and H in. **Ron Clements to submit revised change by 4/15/10.** Will be on Codes and Standards Committee Agenda for 5/10/10.
C-108.2(10)(a) & (b)	Consensus to approve CO A and disapprove B. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-109.3.1 (a) & (b)	Non-consensus for both. Proponent would withdraw B if A is disapproved. There was discussion on amending construction documents as an alternative and excluding R-5. **Staff to send out new amendment proposal. This will be on the 4/29/10 workgroup meeting agenda.**
C-116.4	Consensus to amend by striking "verified by inspection" and substituting with the word "determines". **John Catlett to submit revised change by 4/15/10.** Will be on Codes and Standards Committee Agenda for 5/10/10.
C-118.1	Consensus to disapprove. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-118.6	Consensus to disapprove. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-119.9	Consensus to disapprove due to the need for a statutory change. Will be on Codes and Standards Committee Agenda for 5/10/10.
C-202	Non-consensus. Attendees noted that not all buildings have occupancy permits. Will be on Codes and Standards Committee Agenda for 5/10/10.
R-705.3.1.1(4)	Withdrawn.
R-705.3.1.1(7)	Withdrawn.
M-101.2	Withdrawn.
M-105.1	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.

Code Change No.	
M-105.1.1	Non-consensus. Attendees saw no need for change to the IPMC and cited #9. It was felt this was still very subjective contrary to proponent's purpose of offering better specificity. In #4 and #6, "sickness and disease" is outside the scope of the USBC. Attendees felt #10 should be deleted. It was noted that #7 is not an unsafe condition in most cases. **This will be on the 4/29/10 workgroup meeting agenda.**
M-105.4.1	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.

SFPC:

Code Change No.	
F-106.3	Non-consensus. Attendee comments included problem being solved; the change seems to include language regulated by the USBC with "any building system" and most could be handled by unsafe sections. Section 110.2 was noted as being overly broad. **This will be on the 4/29/10 workgroup meeting agenda.**
F-106.6	Non-consensus. Comments included it being very broad, it would allow enforcing standards not part of the code and problems trying to fix. OAG advises cannot allow fire official to use national standards not referenced in the SFPC and outside the scope of the SFPC. **Will be on DHCD workgroup April 29th agenda.**
F-107.6	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.
F-107.12.	Non-consensus. Comments: would disallow the option of charging separate appeals fees, which is done by several localities now. Will be on Codes and Standards Committee Agenda for 5/10/10.
F-107.13	Consensus to approve. Comments: State Fire Marshal has been requested to provide the BHCD with a fiscal impact statement to include present revenue, new revenue and staff resources devoted to the program as well as the impact of the new fee based on the number of permits issued. DHCD staff needs this by 4/19/10. Will be on Codes and Standards Committee Agenda for 5/10/10.
F-107.14	Non-consensus. Comments: the code change need amendments to exclude "R-5 family day homes; review SRCF as it covers many more licensed facilities; and, ALF's voiced concerns about a new fee at this time. **State Fire Marshal has been requested to provide the BHCD with a fiscal impact statement to include present revenue, new revenue and staff resources devoted to the program as well as the impact of the new fee based on the number of inspections. DHCD staff needs this by 4/19/10. This will be on the 4/29/10 workgroup meeting agenda.**
F-112.2	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.
F-304.1.2	Consensus to disapprove. **Proponent may submit substitute.** Comments: builder, owners, VSAIA, and building officials voiced strong reservations. **This may be on the 4/29/10 workgroup meeting agenda if substitute change is received. Otherwise, it will be on the Codes and Standards Committee Agenda for 5/10/10.**
F-311.5 (a) & (b)	Consensus to approve A. B was withdrawn. DHCD comment is that FSBCC might want to convey that this placarding isn't about light weight frame construction unless there are unsafe conditions. Adds unduly dangerous that further clarifies. Could clarify more by saying "lightweight framed constructed buildings built and maintained in accordance with the USBC shall not be considered unduly dangerous." Will be on Codes and Standards Committee Agenda for 5/10/10.

Code Change No.	
F-315.1	Consensus to approve. DHCD staff comment: there was discussion as to the context of what is deemed to be stable and the ramifications of storing all products in a stable manner. Also, the Section 315.2 language needs to be in table 107.2 for consistency with the format of the SFPC administrative chapter and that Chapter 1 supersedes all such provisions in the IFC and in the IFC technical chapters. Will be on Codes and Standards Committee Agenda for 5/10/10.
F-408.5.5	**This fire drill item has been moved to the 4/29/10 workgroup meeting with the ALF code changes.**
F-506.1	Fire officials noted that this was not retroactive. DHCD staff comment: language needs to be added clarifying that it will not be applied retroactively. **Will be on April 29th agenda.**
F-506.3	Consensus to approve **if the exception is reworded to deal with the language: "practical difficulties" and clarifying that it will not be applied retroactively. Will be the April 29th agenda.**
F-605.10.1	Consensus to approve. Will be on Codes and Standards Committee Agenda for 5/10/10.
F-609.3.3.2	Consensus to approve. DHCD comment deals with implementation issues. The approval of the schedule should be stated (such as 30 days). Will be on Codes and Standards Committee Agenda for 5/10/10.
F-907.9.5	Consensus to approve. Will be on Codes and Standards Committee Agenda for 5/10/10.
F-2205.4	Consensus to approve. Will be on Codes and Standards Committee Agenda for 5/10/10.

Code Change No.	
F-2209.2.1	Non-consensus. DHCD staff comment: that this hydrogen code change references construction requirements that would need to be correlated in the USBC/IBC/IFC/IMC and IRC. The correct format is to reference through the IBC to the IFC/ This is a code change based on the 2012 ICC codes. **Proponent needs to contact Vernon Hodge on correlation and format issues and may want to consult with Guy Tomberlin. This will be on the 4/29/10 workgroup meeting agenda.**
F-3301.2.2	Legal council noted that insertion of permissive fireworks conflicts with §27-96.1 that allows sales and use on private property. On public property can be controlled and where local fire ordinances prohibits. Being in the IFC doesn't mean it can be done in the SFPC. **This will be on the 4/29/10 workgroup meeting agenda.**
F-3301.2.3.1	Legal counsel advises in regards to the legislation that need in 3308 to include language in the law, need to add volunteer language and need to delete "supervised" in the permissible firework exceptions. SFMO and DHCD to meet and fix code change to comport with the new law. Comments from industry: Raised issue on whether reciprocity, saving companies and employees the cost to paid every state. Noted have to get ATF BCC checks and why couldn't other state tests be accepted. Raised issue that law says any one doing the tasks had to be certified. Glenn Dean explained that ATF BCC wasn't as complete as this one; that the intent of the legislation was only 1 certificate holder had to be at the display and it would be difficult to assess other state's exams. Ed Altizer supports a national exam but one is not now in existence. **Need from the SFMO fiscal data on the program on numbers expected to be certified, cost to be certified with estimate on the exam cost and ongoing costs. This would be on the 4/29/10 workgroup meeting.**
F-3308.4	**Non-consensus. The industry opposes extending the separation distance. Discussed the incident with mortars. Shouldn't base statewide change on a few incidents. Local can increase distances. Will be on April 29th agenda.**
F-3809.15	Consensus to approve. On the CSC agenda for 5/10/10.
F-4601	This change has already been tentatively approved by the Codes and Standards Committee. Will be on Codes and Standards Committee Agenda for 5/10/10.

IBSR:

Code Change No.	
I-260	Consensus to approve. DHCD to provide more detailed fiscal impact on current revenue, new revenue and staff resources. Will be on Codes and Standards Committee Agenda for 5/10/10.

VADR:

Code Change No.	Result from meeting
A-20	Non-consensus. Building officials want private events covered either by type of equipment or event size. This would require legislation to allow the BHCD to promulgate regulations for private events. Most agreed that attempt wasn't to cover backyard parties unless the equipment exceeded some limits and that fees need to be increased. Will be on Codes and Standards Committee Agenda for 5/10/10.
A-40	Consensus to approve. Will be on Codes and Standards Committee Agenda for 5/10/10.
A-50	Consensus to disapprove. Will be on Codes and Standards Committee Agenda for 5/10/10.
A-75 A	Withdrawn.
A-75 C	Consensus to disapprove. DHCD will provide a sample permit form. Will be on Codes and Standards Committee Agenda for 5/10/10.
A-80	Consensus to disapprove. Comments: this would allow for rides that are too large to be considered minor. Will be on Codes and Standards Committee Agenda for 5/10/10.
A-85	Consensus to approve. Will be on Codes and Standards Committee Agenda for 5/10/10.
A-280	Consensus to approve. Will be on Codes and Standards Committee Agenda for 5/10/10.

Additional Staff Comments:

- 13 and maybe 14 items will be reviewed again on the DHCD workgroup meeting agenda of April 29th.
- Attendees and those copied need to review these notes, assignments and the code changes for April 29th and all those to be on the May 10th agenda for the Codes and Standards Committee.

Date: April 12, 2010

DHCD, DBFR 2009 Code Change Process

Workgroup 2 -USBC Technical Amendments April 8, 2010 Meeting

Notes from Meeting including staff comments:

USBC: VCC

Code Change No.	Description of Change
C-307.1	Group H Non-consensus. Fireworks Industry submitted amendment. ICC challenge similar to amendment. There was discussion about possibly having this carried over as is a 2012 change. Proponent indicated this doesn't really change anything but deletes part of the table already covered. Permissive fireworks are not affected in any way by this code change. Carried over to the April 29th agenda. Fire officials support and industry only support with amendment. Building officials present had no position even though this is an USBC code change.
C-307.2(a), (b) and (c)	Permissible Fireworks Storage- These items were withdrawn.
C-308.1	Assisted Living Facilities- Carried over to April 29th agenda.
C-308.2(a)	Convalescent Facilities-Consensus to approve. This will be on the May 10th CSC agenda.
C-308.2(b)	Assistance in Exiting - Carried over to April 29th agenda.
C-308.3.1	Hospice Facilities- Consensus to approve allowing 16 residents needing assistance or bedridden in R-4 sprinkled. These persons normally would be in an I-2 licensed facility. This will be on the May 10th CSC agenda.
C-310.6(R302.1(6))	Separation Distance Proffers-Consensus to disapprove. Can do by modification process. Problems with including zoning conditions. This will be on the May 10th CSC agenda.
C-310.6(R311.6.1)	Accessory Structure Ramps- Consensus to disapprove. Not covered by the IRC. This will be on the May 10th CSC agenda.
C-310.6(R314.2)	Household Fire Warning System- Consensus to approve. This will be on the May 10th CSC agenda.
C-310.6(R315.2)	Carbon Monoxide Retrofit- Consensus to approve. This will be on the May 10th CSC agenda
C-310.6(R315.3)	Carbon Monoxide Detector Type- Consensus to approve. HBAV raised doing a further amendment to remove text on sleeping area leaving only installing CO alarms near bedrooms. Staff to ask Guy T. and Mike T. to discuss before May 10th. This will be on the May 10th CSC agenda.
C-310.6(R401.3)	Lot Drainage- Consensus to approve. This will be on the May 10th CSC agenda.
C-310.6(R408.3.1)	Termite Inspections –Consensus to approve. This will be on the May 10th CSC agenda.
C-310.6(R602.10)	Wall Bracing (Revised 2009) - Consensus to approve. Pages 25-29 is the Virginia simplified version summary. Staff asked if there are any other 2012 amendments from the 2012 IRC challenges. This will be on the May 10th CSC agenda.
C-310.6(R602.10.6)	Wall Bracing Stem Walls- Chris S. to discuss with Brian and Chuck. Parties to let DHCD know if should be approved or disapproved by April 16th. This will be on the May 10th CSC agenda.

C-310.6(E3902.11)	Arc-Fault Circuits- Non-consensus with fire and electrical officials opposed and builders and owners supportive. BO's had no position. Builder's raised concerns about the cost and the projected lives saved and fewer fires. Electrical inspector association said cost would come down as states adopt the requirement and NFPA studies indicate several hundred lives can be saved. This will be on the May 10th CSC agenda.
C-310.6(Appendix O)(a) and (b)	Residential Gray and Rain Water- Consensus to approve. This will be on the May 10th CSC agenda
C-403.3.5	Fire Command Rooms Non-consensus with fire officials opposed and owners and design professionals supporting VBCOA no position. Most of the high-rise buildings in Virginia are 10 to 16 stories. Maybe some types of high-rises-super might need, but all highrise fire command rooms is the question. Fire data attached in handout for attendees show very few fires in high-rises, little damage, deaths or injuries including to fire personnel. Owners will do amendment with 200 s.f. but allow building officials to still approve to do the 96 s.f. or up to the 200 s.f. Need amendment by April 16th. This will be on the April 29th agenda and the June 7th CSC agenda.
C-403.4.4 (a) and (b)	High-Rise Emergency Responder- Consensus to approve (a) and disapprove (b). This will be on the May 10th CSC agenda.
C-420.4	Group I-1 Smoke Compartments- This will be on the April 29th agenda.
C-422 (a) and (b)	Ambulatory Health Care Facilities- Non-consensus. Amendment to have AHCF's be those licensed by VDH would be one way to not have BO's misapply and have most doctor's offices as AHCF. Would need to place into separate Chapter 4 section. VBCOA need to become involved. VMA, designers and owner support a with 1-hour or this new section but not as now in the IBC. Ed Altizer supported AHCF as separate section. This will be on the April 29th agenda and the June 7th CSC agenda
C-424 (a) through (d)	Fertilizer Tanks- Carried over to April 29th agenda.
C-424.4	Skirting-Consensus to approve. This will be on the May 10th CSC agenda
C-705.2 (a) and (b)	Separation of Porches and Decks-Non-consensus both changes. HBAV wants IRC to allow open porches and decks not being restricted to 5 feet from lot lines townhomes or have sprinkler head. Need code change to coordinate IBC and IRC. IBC requires R-3 and R-4 to be sprinkled. Need code change amendment April 19th. This will be on the April 29th workgroup agenda and the June 7th CSC agenda
C-708.14	Elevator Lobbies-Non-consensus. Owners and designers oppose taking this 20 year old sprinkler incentive. Fire data doesn't indicate smoke problem nor life, injury or property issues in report attached for attendees. Fire officials and smoke coalition support requiring lobbies or special elevator smoke doors. This will be on the May 10th CSC agenda
C-903.2	Sprinkler Thresholds Group E- Non-consensus with private schools who would be the most impacted indicated fire record is good and fire data provided to attendees seem to verify so keep at 20,000. Fire officials support and indicated cost could be offset with not having rated corridors. This will be on the May 10th CSC agenda.
C-903.2.1.2	Sprinkler Thresholds Group A-2- Non-consensus with owners, designers and VHTA representing restaurants oppose lowering from 300 to 100 occupants in mandating sprinklers. Fire data provided show moderate damage with these smaller restaurants that would capture many chain and ethnic restaurants. Both sides debate the issue of enforcement and what is a nightclub. Fairfax building department supported and the fire officials. VBCOA had no position. This will be on the May 10th CSC agenda.

C-903.2.7 (a) and (b)	Upholstered Furniture-Non-consensus with owners, designers and Virginia Retail Merchants opposes b and support at leaving at 12,000. B to have 5,000s.f. or some suggested 10%. Enforcement problems discussed. Fire official support but agree zero is not practical either. This will be on the May 10th CSC agenda.
C-903.2.8	Sprinkler Thresholds Group R-2-Non-consensus with fire officials and some building officials favoring code change and owners, designers and some building officials opposing. Discussed were local water problems, impact affordable housing and ways to sprinkle including maybe 13D might be a solution. This will be on the May 10th CSC agenda.
C-906	Fire Extinguishers Group R-2-Non-consensus with fire officials and industry supporting and owners, businesses opposing. Virginia has used as incentive for sprinklers since legacy codes. Fire record provided to attendee show very good fire record for these sprinkled occupancies. Staff asked for installed cost and maintenance and inspections. This will be on the May 10th CSC agenda.
C-907.2.3	Voice Alarm and Corridors Group E-Non-consensus with fire officials supporting and private schools opposing. Fire officials to amend deleting the 1 hours but leaving the 30 occupants from 50 for the voice alarm system. Expect code change amendments to be submitted to include why need for the smaller schools. Cost need to be given. Question rose why necessary for the smaller schools under 20,000? This will be on the April 29th agenda and the June 7th CSC agenda.
C-908.1	Carbon Monoxide Groups R and I- Non-consensus with ICC challenge to amend; questions on doing I occupancy; need to do something base on legislation dealing with only residential. Owners, fire and building officials to amend. Need April 19th amendments. This will be on the April 29th workgroup agenda and the June 7th CSC agenda.
C-915.1	In-Building Emergency Communication-Consensus to Amend deleting #6 as rest of change fixes problems including TRB appeal case. This will be on the May 10th CSC agenda.
C-1005.1 (a), (b) and (c)	Egress Width and Sprinklers-Proponent of (c) withdrew his change in favor of (a). Non-consensus with owners, designers and some BO supporting retaining the sprinkler incentive and fire officials, some BO's opposing. Opposition focused on need get out with terrorism incidents and fires, while owners dispute saying the current egress width works and if there is a problem focus on super high-rises or occupant types and not do a broad brush taking away an incentive that fire data doesn't indicate is broken across the board. This will be on the May 10th CSC agenda
C-1007.7	Exterior Rescue Area-Consensus to Approve. This will be on the May 10th CSC agenda.
C-1018.2	Corridor Width Group I-2-Carried over April 29th.
C-1020.1.6	Stairway Identification-Consensus to Approve. This will be on the May 10th CSC agenda
C-1021.2	Single Exit Buildings-Non-consensus. Comments opposing was this could create more problems and disagree it is broken as proponent states. This will be on the May 10th CSC agenda.
C-1024.1 (a) and (b)	Luminous Egress Markings-Non-consensus with fire official supporting and owners and designers opposed to delete of make 420 feet. Came from NIST 911 study. It showed occupants encountered severe smoke on floors and exit stairs so these markings would have been useful. If do these why need upper exit lights or why do all high-rises. Fire data in the package show sprinkled high-rises have an excellent fire record. This will be on the May 10th CSC agenda

C-1103.2.7	Accessibility Churches-Non-consensus to Disapprove. Proponent could consider changing 2 to 12 that might have support of churches. Proponent needs to revise by April 16th if agrees 2 person is far too low. This will be on the May 10th CSC agenda.
C-1301(401.3)	Energy Certificate-Consensus to Approve. This will be on the May 10th CSC agenda.
C-1301(402.1.1)	Log Home Walls-Consensus to Disapprove as with Reschek can meet IRC energy provisions. VBCOA energy committee to review for possible solution. This will be on the May 10th CSC agenda.
C-1301(402.4.2) (a), (b) & (c)	Duct and Blower Door Testing-Carried over to April 29th. Mike and Guy should try to find a compromise. Need to check to see what is in the IRC or IECC.
C-1301(404.2)	Energy Management Device-Consensus to Disapprove. This will be on the May 10th CSC agenda.
C-2803.1(403.3)	Ventilation Rates Smoking-Consensus to Approve. This will be on the May 10th CSC agenda.
C-2803.1(1101.10) (a) & (b)	Refrigerant Port Caps-Non-consensus. This will be on the May 10th CSC meeting.
C-2804.1(310.1)	CSST Lightning Protection-Consensus to Disapprove. This will be on the May 10th CSC agenda.
C-2901.1.1(Appendix C) (a) & (b)	Commercial Gray and Rain Water-Consensus to Approve. This will be on the May 10th CSC agenda.
C-3001.2.1	Elevator Performance Standard-Consensus to Approve supplement only. This will be on the May 10th CSC agenda
C-3008.1	Occupant Evacuation Elevators-Non-consensus to Disapprove. Most felt shouldn't limit use to only super high-rises at 420 feet. Technical concerns address at ICC or the standard instead of saying cannot be used in other size buildings. This will be on the May10th CSC agenda.
C-3102.5	Separation Distance Property Lines-Consensus to Disapprove. Concerned expressed not agreeing code is broken. This will be on the May 10th CSC agenda.
C-3109.3	Swimming Pool Standards-Consensus to Approve deletion of the standards noting ICC will have a new standard. This will be on the May 10th CSC agenda
C-3109.5.1	Swimming Pool Drains-Consensus to Disapprove noting current standard provides necessary protection. This will be on the May 10th CSC agenda.
C-Appendix E	Supplemental Accessibility-Consensus to Approve. This will be on the May 10th CSC agenda.

April 29th meeting VBCOA, HBAV and IAEI need to review IRC E3802.4. Is this necessary or can scope be changed or delete the new change. Discussed at the end of the meeting and not on the agenda.

April 29th will also discuss defective Chinese drywall and the CSPC repairs procedures.

April 29th IRC energy chapter by energy group from January 25th hearing to delete and use the IECC for the IRC homes.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-102.3(1)

Nature of Change:

To clarify that the public utility exemption applies to public and private right-of-ways and property.

Proponent: John D. Bruce, representing Dominion Virginia Power

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-102.3(1)

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☒ Company

Name: John D. Bruce Representing: Dominion Virginia Power

Mailing Address: 9th floor, One James River Plaza, 701 East Cary Street, Richmond, VA 23219

Email Address: john.bruce@dom.com Telephone Number: (804) 775-5301

Proposal Information

Code(s) and Section(s): USBC 102.3(1)

Proposed Change (including all relevant section numbers, if multiple sections):
Revise the the third sentence of Section 102.3(1) of the Virginia Uniform Statewide Building Code to read as follows:

Such exempt equipment and wiring shall be located on either rights-of-way or property for which the service provider has rights of occupancy and entry; however, the structures...

Supporting Statement (including intent, need, and impact of the proposal):

The current wording of the USBC exempts utilities only for equipment and wiring located on public rights-of-way or private property. This excludes public property that is not a rights-of-way. By deleting the words "public" and "private", the intent of the USBC is clarified and ensures that electric distribution facilities are constructed to the National Electrical Safety Code.

Submittal Information

Date Submitted: May 4, 2009 Resubmitted: December 4, 20009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-102.3(2)

Nature of Change:

To clarify the exemption for manufacturing and processing machines which utilize hazardous materials.

Proponent: Ron Clements, Chesterfield County Building Department, representing VBCOA

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-102.3(2)

Proponent Information (Check one): ☒Individual ☒Government Entity ☐Company

Name: Ron Clements Representing: Virginia Building and Code Officials Association

Mailing Address: 9800 Government Center Parkway

Email Address: clementsro@chesterfield.gov Telephone Number: (804) 751-4163

Proposal Information

Code(s) and Section(s): 102.3

Proposed Change (including all relevant section numbers, if multiple sections):

Manufacturing and processing machines that do not produce or process hazardous materials regulated by this code, including all of the following service equipment associated with the manufacturing or processing machines.

2.1. Electrical equipment connected after the last disconnecting means.
2.2. Plumbing piping and equipment connected after the last shutoff valve or backflow device and before the equipment drain trap.
2.3. Gas piping and equipment connected after the outlet shutoff valve.

Manufacturing and processing machines that produce or process hazardous materials, regulated by this code, are only required to comply with the code provisions regulating the hazardous materials.

Supporting Statement (including intent, need, and impact of the proposal):

The IBC and IFC regulate hazardous materials used in process. Some examples are: dust collect systems, flammable finish application, organic coating processes, solvent based dry cleaning, combustible dust processes, semiconductor fabrication, woodworking processes/operations, Industrial ovens, tire rebuilding, welding, aerosol production, combustible fiber processing, compressed gases, cryogenic process, explosives and fireworks production, flammable or combustible liquid production or use, solvent dip tanks, kitchen cooking equipment.

If the code regulates storing 500 gallons of a class 1B solvent in a drum in the warehouse should not the code also regulate 500 gallons of solvent used in an industrial machine that uses the solvent to clean product? If the solvent cleaning machine creates a classified electrical location around the machine should the electrical connections be exempt? This is a big issue for industrial buildings using hazardous materials in process. This current exemption can be interpreted to exempt all of the hazardous materials provisions of the IBC and IFC whenever the hazardous material is used in or in conjunction with a manufacturing and process machine. I believe the intent is not to exempt regulating hazardous materials but to exempt regulating the machinery itself.

The intent is not to require regulation of industrial machines and processes beyond the specific code provisions regulation the hazardous materials involved, therefore, the last sentence is added to clearly state that intent.

Submittal Information

Date Submitted:

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-103.10(3)

Nature of Change:

To add testing requirements in the IRC as valid administrative requirements which may be used under the USBC.

Proponent: Guy Tomberlin, Fairfax County Building Department, representing VPMIA and VBCOA's Plumbing/Mechanical/Fuel Gas Committees

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-103.10 (3)

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Guy Tomberlin

Representing: VA Plumbing and Mechanical Inspectors Association and VA Building and Code Officials Association Plumbing/Mechanical/Fuel Gas Committees

Mailing Address: 12055 Government Center Parkway, Suite 630
Fairfax, VA 22035

Email Address: guy.tomberlin@fairfaxcounty.gov Telephone Number: 703-324-1611

Proposal Information

Code(s) and Section(s): Section 103.10 item #3.

Proposed Change (including all relevant section numbers, if multiple sections):
103.10 Use of certain provisions of referenced codes. Text, including items 1,2,4, and 5, to remain unchanged.

1.

2.

3. Testing requirements and requirements for submittal of construction documents in any ICC codes referenced in Chapter 35 and the IRC.

Supporting Statement (including intent, need, and impact of the proposal): Current item #3 is included in the USBC to eliminate any confusion as to the Administrative nature of testing provisions of the referenced codes. Unfortunately the IRC provisions were inadvertently left out of the original text. This is a simple fix that is almost editorial because the intent has always included the IRC provisions. There is no impact to industry as this has been common practice and routinely applied to IRC construction.

Submittal Information

Date Submitted: July 2, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-103.10(6)

Nature of Change:

To clarify the use of the IRC under the USBC.

Proponent: Chuck Bajnai, representing the Chesterfield County Building Department

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-103.10(6)

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Chuck Bajnai Representing: Chesterfield County

Mailing Address: 9800 Government Center Parkway

Email Address: bajnaic@chesterfield.gov Telephone Number: 804-717-6428

Proposal Information

Code(s) and Section(s): VUSBC Section 103.10 and VUSBC Section 310.6

Change Section 103.10 as follows:

103.10 Use of certain provisions of referenced codes. The following … (no change)

(no change to Items 1-5)

6. Section R101.2 of the International Residential Code.

Change Section 310.6 to read:

310.6 Amendments to the IRC. The following … (no change)

1. Change Section R101.2 to read:

R101.2 Scope. The provisions of the International Residential Code for One- and Two-Family Dwellings shall apply to ~~the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one and two-family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress and their accessory structures.~~ (i) the construction of both detached one- and two-family dwellings and townhouses, provided such dwellings and townhouses are not more than three stories above grade plane in height with a separate means of egress, and (ii) the accessory structures of such dwellings and townhouses.

Exception: Live/work units complying with… (no change)

Supporting Statement (including intent, need, and impact of the proposal):

- The scope of the IRC is not being changed by this proposal.
- The change to Section 103.10 is to recognize that the scoping provision of the IRC (Section R101.2) is intended to be used for Group R-5 construction.
- The change to Section 310.6 is to clarify the wording in the scoping provision of the IRC. While the existing language has been used historically and most code enforcers understand that the height limitation is intended to apply to both houses and townhouses, it can be misread to only be applicable to townhouses, so this change takes the ambiguity out of the sentence structure.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-108.2(2)

Nature of Change:

To clarify the permit exemption for small accessory structures.

Proponent: Ron Clements, Chesterfield County Building Department, representing VBCOA

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

COMMENT RECEIVED

Beginning on Page No. 20

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-108.2(2)

Proponent Information (Check one): ☒Individual ☒Government Entity ☐Company

Name: Ron Clements Representing: VBCOA

Mailing Address: 9800 Government Center Parkway

Email Address: clementsro@chesterfield.gov Telephone Number: (804) 751-4163

Proposal Information

Code(s) and Section(s): 108.2 Exemptions from application from permit. 1808.1 Foundations.

Proposed Change (including all relevant section numbers, if multiple sections):

Alter the following Exemption to section 108.2:

2. One story detached accessory structures used as tool and storage sheds, playhouses, or similar uses, provided the floor area does not exceed ~~150~~ 200 square feet (14m^2) ~~and the structures are not accessory to a group F or H occupancy~~.

Add the following Exemption to section 1808.1.

Section 1808
FOUNDATIONS

1808.1 General Foundations shall be designed and constructed in accordance with Sections 1808.2 through 1808.9. Shallow foundations shall also satisfy the requirements of Section 1809. Deep foundation shall also satisfy the requirements of Section 1810.

Exception: One-story detached accessory structures not exceeding 256 square feet (23.7824 m²) of building area, provided all of the following conditions are met:
1. The building eave height is 10 feet or less.
2. The maximum height from the finished floor level to grade does not exceed 18 inches.
3. The supporting structural elements in direct contact with the ground shall be placed level on firm soil and when such elements are wood they shall be approved pressure preservative treated suitable for ground contact use.
4. The structure is anchored to withstand wind loads as required by this code.
5. The structure shall be of light-frame construction with walls and roof of light weight material, not slate, tile, brick or masonry.

Supporting Statement (including intent, need, and impact of the proposal):

This change clarifies that the list of permit exempt uses is limited to singe story structures and the area is raised to 200 sf to allow more of the pre-manufactured sheds and carports to be exempted. The residential foundation exemption was added to the IBC for consistency.

Submittal Information

Date Submitted:

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): ☒Individual ☒Government Entity ☐Company

Name: Ron Clements Representing: VBCOA

Mailing Address: 9800 Government Center Parkway

Email Address: clementsro@chesterfield.gov Telephone Number: (804) 751-4163

Proposal Information

Code(s) and Section(s): 108.2 Exemptions from application from permit. 1808.1 Foundations.

Proposed Change (including all relevant section numbers, if multiple sections):

Alter the following Exemption to section 108.2:

2. One story detached accessory structures used as tool and storage sheds, playhouses, or similar uses, provided the floor area does not exceed ~~150~~ 200 square feet (14m^2) and the structures are not ~~accessory to~~ classified as a Group ~~F~~ F-1 or H occupancy.

Add the following Exemption to section 1808.1.

Section 1808
FOUNDATIONS

1808.1 General Foundations shall be designed and constructed in accordance with Sections 1808.2 through 1808.9. Shallow foundations shall also satisfy the requirements of Section 1809. Deep foundation shall also satisfy the requirements of Section 1810.

Exception: One-story detached accessory structures not exceeding 256 square feet (23.7824 m²) of building area, provided all of the following conditions are met:
1. The building eave height is 10 feet or less.
2. The maximum height from the finished floor level to grade does not exceed 18 inches.
3. The supporting structural elements in direct contact with the ground shall be placed level on firm soil and when such elements are wood they shall be approved pressure preservative treated suitable for ground contact use.
4. The structure is anchored to withstand wind loads as required by this code.
5. The structure shall be of light-frame construction with walls and roof of light weight material, not slate, tile, brick or masonry.

Supporting Statement (including intent, need, and impact of the proposal):

This change clarifies that the list of permit exempt uses is limited to singe story structures and the area is raised to 200 sf to allow more of the pre-manufactured sheds and carports to be exempted. The residential foundation exemption was added to the IBC for consistency.

Submittal Information

Date Submitted: _____

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change Nos. C-108.2(10)(a) and C-108.2(10)(b)

Nature of Change:

Two proposals clarifying the permit exemption for windows and doors in residential occupancies.

Proponent: John Catlett, Building Official for the City of Alexandria, representing the VBCOA Admin Committee

Staff Comments:

The first proposal (C-108.2(10)(a)) would limit the replacement of doors and windows without a permit to only those with similar characteristics and no changes to the framed openings. The second proposal (C-108.2(10)(b)) would limit the replacement of doors and windows without a permit to only those with the exact same operation and dimensions. The proposals were in reaction to issues over egress windows being replaced coming to the attention of DHCD staff. The issues were discussed at two workgroup meetings and was forwarded to the VBCOA Admin Committee which developed the proposals. The proposals were considered in two meetings of staff with representatives of the Virginia Building and Code Officials Association. Both proposals were generally found acceptable. Earlier editions of the USBC (2000 and 2003) contained language limiting ordinary repairs to not include the rearranging of any parts of a building affecting the egress requirements, but that language was dropped with the VBCOA rewrite of the permit exemption provision in the 2006 USBC. The first proposal (C-108.2(10)(a)) contains language more similar to the prior language in the USBC limiting ordinary repairs.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

DEPT. OF HOUSING AND COMMUNITY DEVELOPMENT REGULATORY CHANGE FORM

(Use this form to submit changes to building and fire codes)

Address to submit to:	Revised 11/16/09	Document No. C-109.2(10)(a)
DHCD, the Jackson Center 501 North Second Street Richmond, VA 23219-1321 Tel. No. (804) 371 – 7150 Fax No. (804) 371 – 7092 Email: bhcd@dhcd.state.va.us		Committee Action: _____ BHCD Action: _____

Submitted by: John Catlett Representing: VBCOA Administration Committee

Address: 301 King Street, Alexandria, Va, 22314 Phone No.: (703.838.4360)

Regulation Title: Virginia New Construction Code Section No(s): 108.2

Proposed Change:

108.2 Exemptions from application for permit. Notwithstanding the requirements of Section 108.1, application for a permit and any related inspections shall not be required for the following; however, this section shall not be construed to exempt such activities from other applicable requirements of this code. In addition, when an owner or an owner's agent requests that a permit be issued for any of the following, then a permit shall be issued and any related inspections shall be required. . . .

10. Ordinary repairs that include the following.

10.1. Replacement of windows and doors with similar operation and opening dimensions that do not require changes to the existing framed opening, and that are not required to be fire rated in Group R-2 where serving a single dwelling unit and in Groups R-3, R-4 and R-5. . . .

Supporting Statement: This code change should provide clarity as to that application of this exemption from permits. Many code officials have asked if emergency egress windows or replacement to a different material type window would require permits. This would clarify that as long as the window operates the same and has the same size opening, it would be exempt from permits. This would not exempt from permit requirements the change to a different window type such as changing a sliding casement window to a double hung window as the opening size may be decreased. This shall maintain the premise of Section 103 to not lower existing levels of health and safety.

DEPT. OF HOUSING AND COMMUNITY DEVELOPMENT REGULATORY CHANGE FORM

(Use this form to submit changes to building and fire codes)

Address to submit to: DHCD, the Jackson Center 501 North Second Street Richmond, VA 23219-1321 Tel. No. (804) 371 – 7150 Fax No. (804) 371 – 7092 Email: bhcd@dhcd.state.va.us		Document No. C-109.2(10)(b) Committee Action: _____ BHCD Action: _____

Submitted by: John Catlett Representing: City of Alexandria

Address: 301 King Street, Alexandria, Va. 22314 Phone No.: (703.838.4360)

Regulation Title: Virginia New Construction Code Section No(s): 1

Proposed Change:

108.2 Exemptions from application for permit. Notwithstanding the requirements of Section 108.1, application for a permit and any related inspections shall not be required for the following; however, this section shall not be construed to exempt such activities from other applicable requirements of this code. In addition, when an owner or an owner's agent requests that a permit be issued for any of the following, then a permit shall be issued and any related inspections shall be required. . . .

10. Ordinary repairs that include the following.

10.1. Replacement of windows and doors with same operation and opening dimensions, and that are not required to be fire rated in Group R-2 where serving a single dwelling unit and in Groups R-3, R-4 and R-5. . . .

Supporting Statement: This code change should provide clarity as to that application of this exemption from permits. Many code officials have asked if emergency egress windows or replacement to a different material type window would require permits. This would clarify that as long as the window operates the same and has the same size opening, it would be exempt from permits. This would not exempt the change to a different window type such as changing a sliding casement window to a double hung window as the opening size may be decreased. This shall maintain the premise of Section 103 to not lower existing levels of health and safety.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-116.4

Nature of Change:

To add requirements addressing different scenarios for providing a certificate of occupancy or related records for existing buildings.

Proponent: John Catlett, Building Official for the City of Alexandria, representing the VBCOA Admin Committee

Staff Comments:

The current USBC provides that a certificate of occupancy may be issued for an existing building after an inspection is performed and no violations of the Virginia Maintenance Code or Statewide Fire Prevention Code exist. The current USBC does not differentiate between when a locality has records that a certificate was issued but no certificate can be produced, or when a locality has no record that a certificate was ever issued. This proposal addresses both scenarios and would not require an inspection or an actual certificate to be produced if records were present indicating one had been issued. The proposal strikes the language "or as otherwise determined necessary by the building official" which is language that has been in the USBC for a number of editions and permits a bank or a state agency such as the Department of Social Services to request that a certificate be issued. While the proposal came in too late to go through the workgroup process, an earlier simpler version of the proposal was considered at a meeting with staff and representatives of VBCOA and the comments received prompted the submittal of the current proposal.

COMMENT RECEIVED

Beginning on Page No. 27

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-116.4

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☐ Company

Name: John Catlett Representing: VBCOA Administration Code Committee

Mailing Address: 301 King Street, Alexandria, Virginia 22314

Email Address: John.Catlett@alexandriava.gov Telephone Number: 703.746.4200

Proposal Information

Code(s) and Section(s): USBC Construction Code (revised 1/13/2010)

Proposed Change (including all relevant section numbers, if multiple sections):

116.4 Issuance of Certificate of Occupancy or documentation of code compliance for existing buildings or structures. Upon written request, the owner or owner's agent may request in writing a copy of a Certificate of Occupancy for an existing building or structure. When there is no copy of the certificate on file, but other official records substantiate for the building official that an approved certificate existed, the building official shall either produce written documentation that records demonstrate that a certificate existed or provide a certificate based on the official records. In the event records provide no evidence that a certificate exist, the owner or owner's agent may request written documentation from the building official that a certificate does not exist and that continued occupancy may continue. ~~upon written request from the owner or the owner's agent,~~

116.4.1 Issuance of a Certificate of Occupancy when no records exist supporting that one was issued for an existing building or structure. If the building official has no record that a Certificate of Occupancy was produced for an existing building or structure, and the owner or owner's agent request that one be created, ~~or as otherwise determined necessary by~~ a certificate of occupancy shall be issued for an existing building or structure provided that the building official verifies by inspection that there are no current violations of the Virginia Maintenance Code or the Virginia Statewide Fire Prevention Code (13 VAC 5-51) and the occupancy classification of the building or structure has not changed. ~~An inspection shall be performed prior to the issuance of the certificate and~~ Such buildings and structures shall not be prevented from continued use.

Supporting Statement (including intent, need, and impact of the proposal):

The current provisions were intended to offer direction when there was no record that a certificate of occupancy existed for a building or structure. However, the current language does not indicate that a lack of an existing C of O is the trigger for these provisions. The new language clarifies that a building owner cannot request a new certificate of occupancy if one currently exists. It also allows the practice that has generally been acceptable for the local building official to provide documentation of records regarding existing buildings that continue legal uses without requiring the inspections necessary to produce a new certificate of occupancy.

The provision allows the building official to produce a certificate of occupancy if one currently does not exist in archived

records, but other official records provide enough information to verify that a certificate of occupancy did exist.

The previous language that allows a building owner to request that a certificate be produced if no records or copies exist that one was produced would remain the same. The building owner can request that one be produced, the building is then inspected for compliance with the Virginia Maintenance Code and Virginia Fire Prevention Code (or basically the building has been maintained and is in accordance with the existing approved use

Submittal Information

Date Submitted: 11/16/2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☐ Company

Name: John Catlett Representing: VBCOA Administration Code Committee

Mailing Address: 301 King Street, Alexandria, Virginia 22314

Email Address: John.Catlett@alexandriava.gov Telephone Number: 703.746.4200

Proposal Information

Code(s) and Section(s): USBC Construction Code (revised 4/2/2010)

Proposed Change (including all relevant section numbers, if multiple sections):

116.4 Issuance of Certificate of Occupancy or documentation of code compliance for existing buildings or structures. Upon written request, the owner or owner's agent may request in writing a copy of a Certificate of Occupancy for an existing building or structure. When there is no copy of the certificate on file, but other official records substantiate for the building official that an approved certificate existed, the building official shall either produce written documentation that records demonstrate that a certificate existed or provide a certificate based on the official records. In the event records provide no evidence that a certificate exist, the owner or owner's agent may request written documentation from the building official that a certificate does not exist and that continued occupancy may continue. ~~upon written request from the owner or the owner's agent,~~

116.4.1 Issuance of a Certificate of Occupancy when no records exist supporting that one was issued for an existing building or structure. If the building official has no record that a Certificate of Occupancy was produced for an existing building or structure, and the owner or owner's agent request that one be created, ~~or as otherwise determined necessary by~~ a certificate of occupancy shall be issued for an existing building or structure provided that the building official determine that there are no current violations of the Virginia Maintenance Code or the Virginia Statewide Fire Prevention Code (13 VAC 5-51) and the occupancy classification of the building or structure has not changed. ~~An inspection shall be performed prior to the issuance of the certificate and~~ Such buildings and structures shall not be prevented from continued use.

Supporting Statement (including intent, need, and impact of the proposal):

The current provisions were intended to offer direction when there was no record that a certificate of occupancy existed for a building or structure. However, the current language does not indicate that a lack of an existing C of O is the trigger for these provisions. The new language clarifies that a building owner cannot request a new certificate of occupancy if one currently exists. It also allows the practice that has generally been acceptable for the local building official to provide documentation of records regarding existing buildings that continue legal uses without requiring the inspections necessary to produce a new certificate of occupancy.

The provision allows the building official to produce a certificate of occupancy if one currently does not exist in archived records, but other official records provide enough information to verify that a certificate of occupancy did exist.

The previous language that allows a building owner to request that a certificate be produced if no records or copies exist that one was produced would remain the same. The building owner can request that one be produced, the building is then inspected for compliance with the Virginia Maintenance Code and Virginia Fire Prevention Code (or basically the building has been maintained and is in accordance with the existing approved use

Submittal Information

Date Submitted: 11/16/2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-308.2(a)

Nature of Change:

To clarify that the term "convalescent facilities" as used in the classification provisions relate to Group I-2 facilities as opposed to Group I-1 facilities.

Proponent: Carrie Eddy, Virginia Department of Health and DHCD Staff

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION
Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-308.2(a)

Proponent Information (Check one): ☐Individual ☒Government Entity ☐Company
Name: Carrie Eddy, VDH
Emory Rodgers, DHCD
Representing: Workgroup 2 - 12/1/09
Mailing Address:
Email Address: Telephone Number:

Proposal Information
Code(s) and Section(s): USBC VCC 308.2 Group I-1 & VCC 308.3 Group I-2 & VCC 310.2 Definitions relative to convalescent facilities

Proposed Change (including all relevant section numbers, if multiple sections):

308.2 Group I-1. Delete "convalescent facilities"

308.3 Group I-2. Add "convalescent facilities"

310.2 Definitions.
RESIDENTIAL CARE/ASSISTED LIVING FACILITIES. A building or part thereof housing persons, on a 24-hour basis, who because of age, mental disability or other reasons, live in a supervised residential environment which provides personal care services. The occupants are capable of responding to an emergency situation without physical assistance from staff. This classification shall include, but not be limited to, the following: residential board and care facilities, assisted living facilities, halfway houses, group homes, congregate care facilities, social rehabilitation facilities, and alcohol and drug abuse centers ~~and convalescent facilities~~.

Supporting Statement (including intent, need, and impact of the proposal):

Section 32.1-123 of the Code of Virginia defines nursing home (facility) to include such facilities known as, or called, 'convalescent facilities'. This regulatory change assures the USBC comports with state law and is consistent with the Virginia Department of Health licensure program.

Submittal Information

Date Submitted: 11/24/09

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
Main Street Center
600 E. Main St., Suite 300
Richmond, VA 23219

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-308.3.1

Nature of Change:

To establish separate requirements for hospice facilities.

Proponent: Ron Clements, Chesterfield County Building Department, representing the Assisted Living Facility Client Interest Group

Staff Comments:

The proposal resulted from discussion in the assisted living facility sub-workgroup meetings with representatives of the Virginia Department of Health, the licensing entity for hospice facilities. Hospice facilities range in size from caring for only one person at a time (typically home hospice) to multiple persons. The Health Department representatives believe that any building used as a hospice facility should at a minimum have a sprinkler system as the person receiving care will at times be incapacitated. The proposal would permit facilities with up to five occupants to be in a single family home, but would require the home to be sprinklered. Facilities with more than five occupants up to 16 occupants would be classified as Group R-4 (assisted living/residential care) and larger facilities would be classified as Group I-2. As noted in the staff comments to Code Change No. C-308.1, this proposal would also be difficult to implement as small hospice facilities with up to five occupants would be classified as Group R-5, yet with a sprinkler requirement. However, it would not be considered a change of occupancy to use an existing single family dwelling for a hospice facility, so there would be no way to require the sprinklers to be added. In addition, in facilities with up to 16 occupants (Group R-4), all occupants could be incapacitated, yet Group R-4 is only for occupants who may evacuate without assistance. The current USBC and proposed 2009 USBC would permit facilities with up to five occupants to be in a single family dwelling and facilities with more than five occupants would be classified as Group I-2.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-308.3.1

Proponent Information (Check one): ☒Individual ☒Government Entity ☐Company

Name: Ron Clements Representing: ALF client interest group

Mailing Address: 9800 Government Center Parkway

Email Address: clementsro@chesterfield.gov Telephone Number: (804) 751-4163

Proposal Information

Code(s) and Section(s): IBC sections: 202, 310.2, 308.3, 310.1

Proposed Change (including all relevant section numbers, if multiple sections):

Add the following definition:

202
Hospice facility. See section 308.3.1

308.3.1 Definitions
Hospice facility. An institution, place, or building owned or operated by a hospice provider and licensed by the Virginia Department of Health as a hospice facility to provide room, board, and palliative and supportive medical and other health services to terminally ill patients and their families, including respite and symptom management, on a 24-hour basis to individuals requiring such care pursuant to the orders of a physician.

Revised section 308.3 as follows:

308.3 Group I-2. This occupancy shall include buildings shall include buildings and structures used for medical, surgical, psychiatric, nursing or custodial care for persons who are not capable of self-preservation. This group shall include, but not be limited to, the following:

Child care facilities
Detoxifications facilities
Hospitals
Mental Hospitals
Nursing homes
Hospice facilities

Exception: *Hospice facilities* occupied by 16 or less occupants, excluding staff, are permitted to be classified as Group R-4.

Revised section 310.1 as follows:

R-4 Residential occupancies shall include buildings arranged for occupancy as *residential care/assisted living facilities* including more than five but not more than 16 occupants, excluding staff, and *hospice facilities* for one to 16 occupants, excluding staff.

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3, except as otherwise provided for in this code. ~~or shall comply with the *International Residential Code* provided the building is protected by an automatic sprinkler system in accordance with Section 903.2.7.~~

Exceptions:

1. *Residential care/assisted living facilities* are permitted to comply with the *International Residential Code* provided the building is protected by an automatic sprinkler system in accordance with IRC section P2904 or IBC Section 903.3.

2. *Hospice facilities for 5 or fewer* occupants, excluding staff, are permitted to comply with the *International Residential Code* provided the building is protected by an automatic sprinkler system in accordance with IRC section P2904 or IBC Section 903.3.

3. Group homes licensed by the Virginia Department of Behavioral Health and Developmental Services ~~Virginia Department of Mental Health, Mental Retardation and Substance Abuse Services~~ or assisted living facilities licensed by the Virginia Department of Social Services that house no more than eight persons with one or more resident counselors shall be classified as Group R-2, R-3, R-4 or R-5. Not more than five of the persons may require physical assistance from staff to respond to an emergency situation.

Supporting Statement (including intent, need, and impact of the proposal):
This code change attempts to address reasonable occupancy classifications of small hospice care facilities. The definition of Hospice Facility is based on the Code of VA definition. Under 2009 code provisions a hospice would be classified as group I-2. Group I-2 would be prohibitive to retro-fit existing buildings, especially type 5B dwellings, into to achieve code compliance. Based on the low occupant loads of these structures and the need to allow type 5B combustible construction, group R-4 is the best fit for an occupancy classification. This change does not permit the allowance to use the R-5 designation as an alternative to group R-4 for Hospice Facilities if the number of residents is over 5 because doing so would loose the NFPA 72 based fire alarm system that is required for group R-4 per section 907.2.10 and allow a 13D sprinkler system. To maintain as much safety as possible the group R-4 classification will require an NFPA 13 or 13R sprinkler system, an NFPA 72 fire alarm system and height and area limits per table 503. This is also fairly consistent with state licensure requirements. Less than 5 residents is still allowed as group R-2, R-3 or R-5 to allow in home hospice provide the building is sprinklered in accordance with the single family dwelling sprinkler standards in NFPA 13 or the IRC Plumbing code provisions for residential sprinkler installations. Over 16 occupants would be a full group I-2 occupancy.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-310.6(R314.2)

Nature of Change:

To remove owner and monitoring requirements from the household fire warning system option for smoke detection in the 2009 IRC.

Proponent: Mike Toalson, Home Builders Association of Virginia

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-310.6 (R314.2)

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☐ Company

Name: **Mike Toalson** Representing: **HBAV**

Mailing Address:

Email Address: Telephone Number:

Proposal Information

Code(s) and Section(s): **IRC 314.2 - Smoke detection systems.**
R314.3.1 - Delete

Proposed Change (including all relevant section numbers, if multiple sections):

Amend to delete 314.2 second new sentence: where a household fire warning system is installed using a combination of smoke detectors and available notification device(s), the system shall become a permanent fixture of the dwelling unit. ~~and owned by the homeowner. The system shall be monitored by an approved supervising station and be maintained in accordance with NFPA 72.~~

Delete 314.3.1 entirely.

Supporting Statement (including intent, need, and impact of the proposal):

The IRC doesn't require smoke detection systems to be monitored. The IRC does allow fire security systems to be used. These non-required systems can be removed, but R314.2 already clearly states that the primary code required smoke detection system shall be operable regardless of whether the owner wants them to be maintained as part of a fire security alarm system. This new second sentence is thus unecessary and goes beyond the intent of the IRC and USBC by stating the system is to be permanent, and must be used by the homeowner and monitored.

Delete R314.3.1 as this section is a retrofit requirement.

Submittal Information

Date Submitted:

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
Main Street Center
600 E. Main St., Suite 300
Richmond, VA 23219

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-310.6(R315.2)

Nature of Change:

To delete a retrofit requirement for carbon monoxide alarms in the 2009 IRC.

Proponent: Guy Tomberlin, Fairfax County Building Department, representing VPMIA and VBCOA's Plumbing/Mechanical/Fuel Gas Committees

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-310.6 (R315.2)

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Guy Tomberlin

Representing: VA Plumbing and Mechanical Inspectors Association and VA Building and Code Officials Association Plumbing/Mechanical/Fuel Gas Committees

Mailing Address: 12055 Government Center Parkway, Suite 630
Fairfax, VA 22035

Email Address: guy.tomberlin@fairfaxcounty.gov Telephone Number: 703–324–1611

Proposal Information Clarify Carbon Monoxide requirements

Code(s) and Section(s): IRC **R315.2 Where required in existing dwellings.**

Proposed Change (including all relevant section numbers, if multiple sections):

Delete Section R315.2 in its entirety.

Note to staff– renumber R315.3 to R315.2.

Supporting Statement (including intent, need, and impact of the proposal): The submitting code committees viewed this as a retroactive action and felt the USBC should not endorse this type activity. It would be extremely difficult to enforce and may even cause folks to not obtain permits. For example if someone wanted to build a deck and they happen to have an attached garage they would need to equip the dwelling unit with CO alarms, that's just not reasonable.

Submittal Information

Date Submitted: July 2, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-310.6(R315.3)

Nature of Change:

To clarify that the 2009 IRC provisions and standards for carbon monoxide alarms permit either battery-powered, plug-in or hard-wired detectors.

Proponent: Guy Tomberlin, Fairfax County Building Department, representing VPMIA and VBCOA's Plumbing/Mechanical/Fuel Gas Committees

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C - 316.6 (R 315.3)

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Guy Tomberlin

Representing: VA Plumbing and Mechanical Inspectors Association and VA Building and Code Officials Association Plumbing/Mechanical/Fuel Gas Committees

Mailing Address: 12055 Government Center Parkway, Suite 630
Fairfax, VA 22035

Email Address: guy.tomberlin@fairfaxcounty.gov Telephone Number: 703–324–1611

Proposal Information Clarify Carbon Monoxide requirements

Code(s) and Section(s): IRC **R315.3 Alarms requirements..**

Proposed Change (including all relevant section numbers, if multiple sections):
R315.3 Alarms requirements. Single station carbon monoxide alarms shall be hard wired, plug–in or battery type, listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

Supporting Statement (including intent, need, and impact of the proposal): The submitting code committees felt that this section needed further clarity to provide the user the information that clearly reflects the information contained in the UL Standard 2034 which includes the 3 different type s of CO alarms the added text references.

Submittal Information

Date Submitted: July 2, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-310.6(R401.3)

Nature of Change:

To add clarifying language to the 2009 IRC for the foundation drainage requirements to apply to only situations which may affect the dwelling unit.

Proponent: Douglas S. Jones, Keystone Builders

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CODE CHANGE FORM

Address to submit to:	Document No. C-310.6 (R401.3)
DHCD, The Jackson Center 501 North Second Street Richmond, VA 23219-1321	Committee Action: _____ BHCD Action: _____
Tel. No. (804) 371 – 7150 Fax No. (804) 371 – 7092 Email: bhcd@dhcd.virginia.gov	

Submitted by: Douglas S. Jones — Representing: Keystone – RM, LLC

Address: 1207 Roseneath Road #200 — Phone No. **804-921-2445 (revised)**

Regulation Title: 2006 International Residential Code
Section No(s): Chapter 4 Foundations, Section R401 General, R401.3 Drainage

Date: February 27, 2009 **(Revision #4 12/02/09)**

Proposed Change:

R401.3 Drainage. Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection so as to not create a hazard to the dwelling unit. Lots shall be graded to drain surface water away from foundation walls. The grade shall fall a minimum of 6 inches (152 mm) within the first 10 feet (3048 mm).

Exception: Where lot lines, walls, slopes or other physical barriers prohibit 6 inches (152 mm) of fall within 10 feet (3048 mm), the final grade shall slope away from the foundation at a minimum slope of 5 percent and the water shall be directed to drains or swales to ensure drainage away from the structure. Swales shall be sloped a minimum of 2 percent when located within 10 feet (3048 mm) of the building foundation. Impervious surfaces within 10 feet (3048 mm) of the building foundation shall be sloped a minimum of 2 percent away from the building.

Supporting Statement:

The proposal is to clarify that the first sentence in the section does not apply to areas where no effect upon the dwelling unit would result from drainage issues as the overall section is for foundation design. Drainage problems on lots which cannot be shown to have an effect on a dwelling, such as yard grading on other parts of a lot, are not within the purview of the code.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-310.6(R408.3.1)

Nature of Change:

To add an termite inspection gap to the 2009 IRC for unvented crawl spaces.

Proponent: Lynn Underwood, City of Norfolk Building Department, representing himself

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

DEPT. OF HOUSING AND COMMUNITY DEVELOPMENT REGULATORY CHANGE FORM

(Use this form to submit changes to building and fire codes)

Address to submit to:		Document No. C-310.6(R408.3.1)
DHCD, the Jackson Center 501 North Second Street Richmond, VA 23219-1321 Tel. No. (804) 371 – 7150 Fax No. (804) 371 – 7092 Email: bhcd@dhcd.state.va.us		Committee Action: _____ BHCD Action: _____

Submitted by: ___Lynn Underwood, CBO_____ Representing: ___himself_____

Address: _400 Granby, Norfolk, Va 23510_____ Phone No.: (757) 664-6511_____

Regulation Title: _Unvented crawl space_____ Section No(s): Section R408.3_____

Proposed Change:

R408.3 Unvented crawl space. Ventilation openings in under-floor spaces specified in Sections R408.1 and R408.2 shall not be required where:

1. Exposed earth is covered with a continuous Class I vapor retarder. Joints of the vapor retarder shall overlap by 6 inches (152 mm) and shall be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall; and
2. One of the following is provided for the under-floor space:

2.1. Continuously operated mechanical exhaust ventilation at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7m2) of crawlspace floor area, including an air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section N1102.2.9;

2.2. *Conditioned air* supply sized to deliver at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7 m2) of under-floor area, including a return air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section N1102.2.9;

2.3. Plenum in existing structures complying with Section M1601.5, if under-floor space is used as a plenum.

R408.3.1 Termite Inspection

Where an unvented crawl space is installed and meets the criteria in Section R408, the vertical face of the sill plate shall be clear and unobstructed and an inspection gap shall be provided below the sill plate along the top of any interior foundation wall covering. The gap shall be a minimum of one inch and a maximum of two inches in width and shall extend throughout all parts of any foundation that is enclosed. Joints between the sill plate and the top of any interior wall covering may be sealed.

EXCEPTION:

(1) In areas not subject to damage by termites as indicated by Table R301.2(1).
(2) Where other approved means are provided to inspect for potential damage.

Where pier and curtain foundations are installed as depicted in Figure R404.1.5(1), the inside face of the rim joist and sill plate shall be clear and unobstructed except for construction joints which may be sealed.

EXCEPTION: Fiberglass or similar insulation may be installed if easily removable.

Supporting Statement:
This proposed change in the 2009 IRC would allow Termite Inspection and Treatment services to more adequately do their job. Without this language, a fully enclosed crawl space would meet the code and yet conceal undetected termite infestation. This change does not reduce the energy efficiency provided for by enclosed and conditioned crawl spaces. There is a detail provided by expert in the

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-310.6(R602.10)

Nature of Change:

A rewrite of the International Residential Code provisions for wall bracing.

Proponent: Chuck Bajnai and Brian Foley, representing the Chesterfield and Fairfax County Building Departments

Staff Comments:

In the continuation of the development of the wall bracing requirements for the 2006 USBC, this proposal coordinates the work of a code development committee at ICC and proposals approved in the ICC code development process for the 2012 IRC. Due to the nature of the changes, the current wall bracing provisions in the USBC would be deleted and this proposal substituted in its place. As the proposal represents much of what will be in the 2012 IRC, the state amendments would be able to be deleted in the next code change cycle used by the Department for the 2012 codes.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-310.6 (R602.10)

Proponent Information (Check one): ☐ Individual ☒ Government Entity ☐ Company

Name: Chuck Bajnai Representing: Chesterfield County

Mailing Address: 9800 Government Center Parkway Chesterfield, VA 23832

Email Address: bajnaic@chesterfield.gov Telephone Number: 804-717-6428

Name: Brian Foley Representing: Fairfax County

Mailing Address: 12055 Government Center Parkway Fairfax, VA 22035

Email Address: brian.foley@fairfaxcounty.gov Telephone Number: 703-324-1842

Proposal Information

Code, Sections: IRC Table R602.3(1), new Section R602.3.5, Table R802.11, Section R602.10 and new Section R602.12

1. Edit Section R301.2.2.1.1 as follows:

R301.2.1.1.1 Alternate determination of seismic design category. The Seismic Design Categories and corresponding Short Period Design Spectral Response Accelerations, S_{DS} shown in figure R301.2(2) are based on soil Site Class D, as defined in Section 1613.5.2 of the *International Building Code*. If soil conditions are other than Site Class D, the Short Period Spectral Response Accelerations, S_{DS}, for a site can be determined according to Section 1613 of the *International Building Code*. The value of S_{DS}, determined according to Section 1613 of the *International Building Code* is permitted to be used to set the seismic design category according to Table R301.2.2.1.1, and to interpolate between values in Tables R601.10.3(3)~~1~~, R603.7 and other seismic design requirements of this code.

2. Delete Sections R301.2.2.3 and R301.2.2.4.

3. Edit Section R301.3, Item 1, Exception as follows:

Exception: For wood framed wall buildings with bracing in accordance with Section R602.10 ~~Tables R602.10.1.2(1) and R602.10.1.2(2)~~, the wall stud clear height used to determine the maximum permitted story height may be increased to 12 feet (3658 mm) without requiring an engineered design for the building wind and seismic force resisting system ~~provided that the length of bracing required by Table R602.10.1.2(1) is increased by multiplying a factor of 1.10 and the length of bracing required by Table R602.10.1.2(2) is increased by multiplying by a factor of 1.20. Wall studs are still subject to the requirements of this section~~.

4. Edit Section R403.1.6 exceptions 2 and 3 as follows:

2. Walls 24 inches (610 mm) total length or shorter connecting offset braced wall panels shall be anchored to the foundation with a minimum of one anchor bolt located in the center third of the plate section ~~and shall be attached to adjacent braced wall panels at corners as shown in Figure R602.10.4.4(1)~~.

3. Connection of walls 12 inches (305 mm) total length or shorter connecting offset braced wall panels to the foundation without anchor bolts shall be permitted. ~~The wall shall be attached to the adjacent braced wall panels at corners as shown in Figure R702.10.4.4(1).~~

5. Delete Section R403.1.6.1, Item 5, renumber subsequent items.

6. Edit Section R502.2.1 as follows:

R502.2.1 Framing at braced wall panels ~~lines~~. A load path for lateral forces shall be provided between floor framing and braced wall panels located above or below a floor, as specified in Sections R602.3.5 and R602.10.86.

7. Revise Table R602.3(1) as follows:

TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER [a,b,c]	SPACING OF FASTENERS
	Roof		
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2 ½" x 0.113")	--
2	Ceiling joists to plate, toe nail	3-8d (2 ½" x 0.113")	--
3	Ceiling joist not attached to parallel rafter, laps over partitions, face nail	3-10d	--
4	Collar tie to rafter, face nail, or 1-1/4" x 20 gage ridge strap	3-10d (3" x 0.128")	--
5	Rafter to plate, toe nail	2-16d (3 ½ "x 0.135")	--
6	Roof rafters to ridge, valley or hip rafters: toe nail face nail	 4-16d (3 ½" x 0.135") 3-16d (3 ½" x 0.135")	 -- --
	Wall		
7	Built-up ~~corner~~ studs –face nail	10d (3" x 0.128")	24" o.c.
8	Abutting studs at intersecting wall corners, face nail	16d (3 ½" x 0.135")	12"oc
~~8~~9	Built-up header, two pieces with ½"spacer	16d (3½" x 0.135")	16" o.c. along each edge
910	Continued header, two pieces	16d (3½" x 0.135")	16" o.c. along each edge
~~10~~11	Continuous header to stud, toe nail	4-8d (2 ½" x 0.113")	-
~~11~~12	Double studs, face nail	10d (3" x 0.128")	24" o.c.
~~12~~13	Double top plates, face nail	10d (3" x 0.128")	24" o.c.
~~13~~14	Double top plates, minimum ~~48~~24-inch offset of end joints, face nail in lapped area	8-16d (3½" x 0.135")	-
~~14~~15	Sole plate to joist or blocking, face nail	16d (3½" x 0.135")	16" o.c.
~~15~~16	Sole plate to joist or blocking at braced wall panels	3-16d (3½" x 0.135")	16" o.c.
~~16~~17	Stud to sole plate, toe nail	3-8d (2 ½" x 0.113") or 2-16d (3½" x 0.135")	- -
~~17~~18	Top or sole plate to stud, end nail	2-16d (3½" x 0.135")	-
~~18~~19	Top plates, laps at corners and intersections, face nail	2-10d (3" x 0.128")	-
~~19~~20	1" brace to each stud and plate, face nail	2-8d (2 ½" x 0.113") 2 staples 1¾"	- -
~~20~~21	1" × 6" sheathing to each bearing, face nail	2-8d (2 ½" x 0.113") 2 staples 1¾"	- -
~~21~~22	1" × 8" sheathing to each bearing, face nail	2-8d (2 ½" x 0.113") 3 staples 1¾"	- -
~~22~~23	Wider than 1" × 8" sheathing to each bearing, face nail	3-8d (2 ½" x 0.113") 4 staples 1¾"	- -
	Floor		
~~23~~24	Joist to sill or girder, toe nail	3-8d (2 ½" x 0.113")	-
~~24~~25	Rim joist to top plate, toe nail (roof applications also)	8d (2 ½" x 0.113")	6" o.c.
26	Rim joist or blocking to sill plate, toe nail	8d (2 ½" x 0.113")	6" o.c.
~~25~~27	1" × 6" subfloor or less to each joist, face nail	2-8d (2 ½" x 0.113") 2 staples 1¾"	- -
~~26~~28	2" subfloor to joist or girder, blind and face nail	2-16d (3½" x 0.135")	-
~~27~~29	2" planks (plank & beam – floor & roof)	2-16d (3½" x 0.135")	at each bearing
~~28~~30	Built up girders and beams, 2-inch lumber layers	10d (3" x 0.128")	Nail each layer as follows: 32"o.c. at top and bottom and staggered. Two nails at ends and at each splice.
~~29~~31	Ledger strip supporting joists or rafters	3-16d (3½" x 0.135")	At each joist or rafter

(Remainder of table unchanged except item numbers)

8. New Section R602.3.5 as follows:

R602.3.5 Braced wall panel uplift load path. Braced wall panels located at exterior walls that support roof rafters or trusses (including stories below top story) shall have the framing members connected in accordance with one of the following:

1. Fastening in accordance with Table R602.3(1) where:
   1.1. The basic wind speed does not exceed 90 mph (40 m/s), the wind exposure category is B, the roof pitch is 5:12 or greater, and the roof span is 32 feet (9754 mm) or less, or
   1.2. The net uplift value at the top of a wall does not exceed 100 plf (146 N/mm). The net uplift value shall be determined in accordance with Section R802.11 and shall be permitted to be reduced by 60 plf (57 N/mm) for each full wall above.
2. Where the net uplift value at the top of a wall exceeds 100 plf (146 N/mm), installing approved uplift framing connectors to provide a continuous load path from the top of the wall to the foundation or to a point where the uplift force is 100 plf (146 N/mm) or less. The net uplift value shall be as determined in Item 1.2 above.
3. Wall sheathing and fasteners designed in accordance with accepted engineering practice to resist combined uplift and shear forces.

9. Edit Section R602.9 as follows:

R602.9 Cripple walls. Foundation cripple walls shall be framed of studs not smaller than the studding above. When exceeding 4 feet (1219 mm) in height, such walls shall be framed of studs having the size required for an additional story.

Cripple walls with a stud height less than 14 inches (356 mm) shall be continuously sheathed on ~~at least~~ one side with ~~a~~ wood structural panels ~~that is~~ fastened to both the top and bottom plates in accordance with Table R602.3(1), or the cripple walls shall be constructed of solid blocking.

All cripple walls shall be supported on continuous foundations.

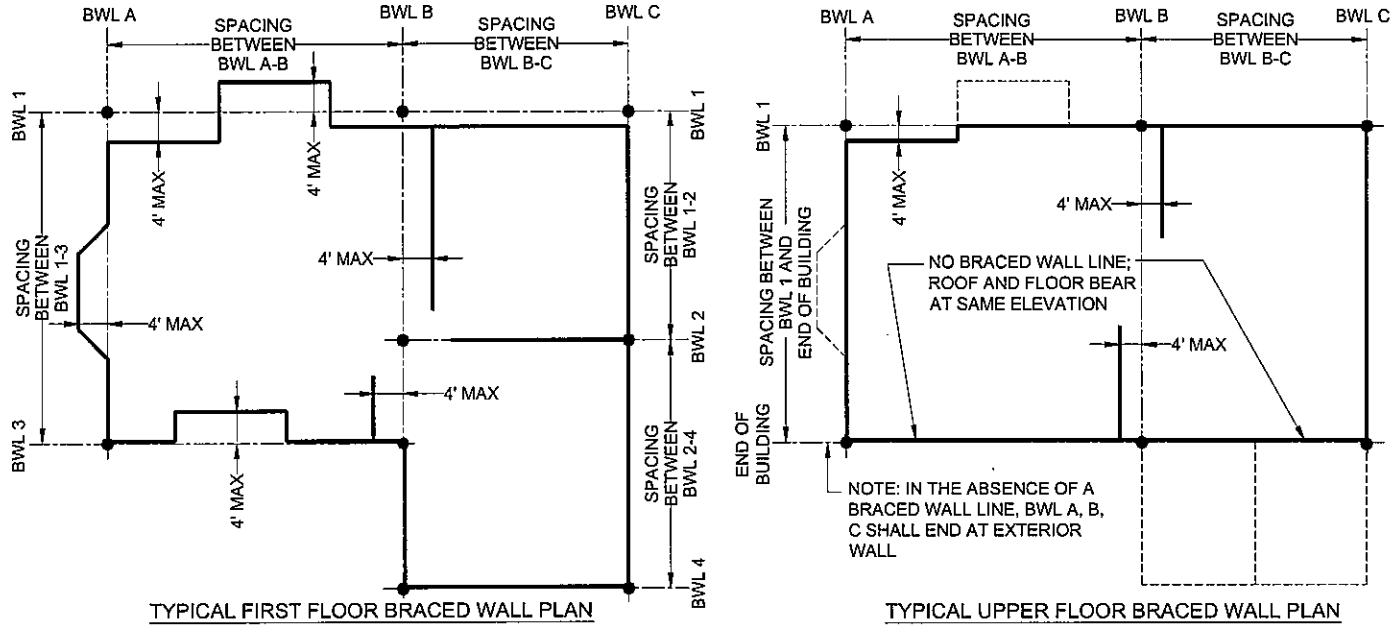
10. Delete Section R602.10 and replace with the following:

R602.10 Wall bracing. Buildings shall be braced in accordance with this section, or, when applicable, Section R602.12. Where a building, or portion thereof, does not comply with one or more of the bracing requirements in this section, those portions shall be designed and constructed in accordance with Section R301.1.

The building official may require the permit applicant to identify and locate on the construction documents braced wall lines and braced wall panels as described herein.

R602.10.1 Braced wall lines. For the purpose of determining the amount and location of bracing required in each story level of a building, braced wall lines shall be designated as straight lines in the building plan placed in accordance with this section.

R602.10.1.1 Length of a braced wall line. The length of a braced wall line shall be the distance between its ends. The end of a braced wall line shall be the intersection with a perpendicular braced wall line, an angled braced wall line as permitted in Section R602.10.1.4 or an exterior wall as shown in Figure R602.10.1.1.



For SI: 1 foot=304.8mm

FIGURE R602.10.1.1
BRACED WALL LINES

R602.10.1.2 Offsets along a braced wall line. All exterior walls parallel to a braced wall line shall be permitted to offset up to 4 feet (1219 mm) from the designated braced wall line location as shown Figure R602.10.1.1. Interior walls used as bracing shall be permitted to offset up to 4 feet (1219 mm) from a braced wall line through the interior of the building as shown in Figure R602.10.1.1.

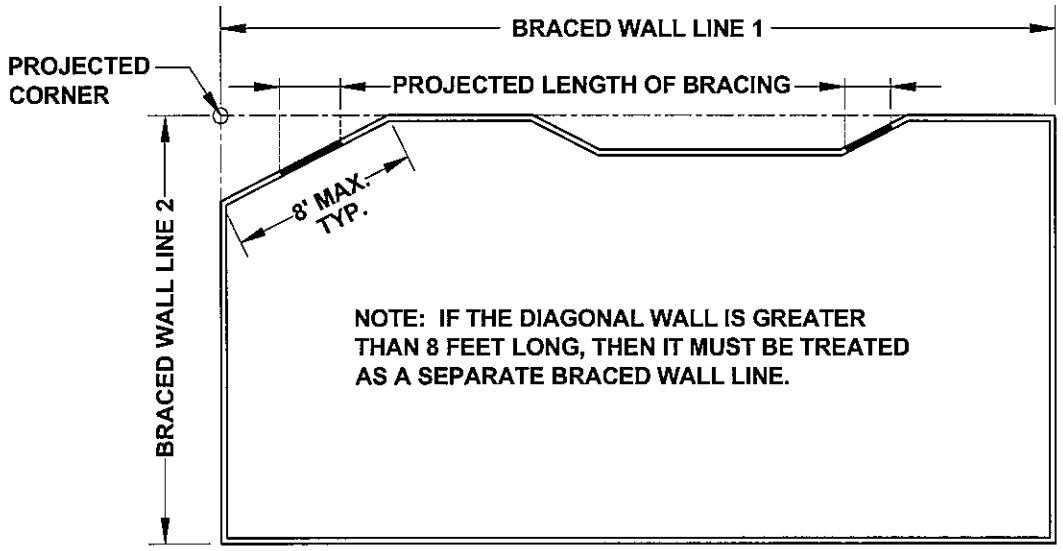
R602.10.1.3 Spacing of braced wall lines. There shall be a minimum of two braced wall lines in both the longitudinal and transverse direction as shown in Figure R602.10.1.1. Intermediate braced wall lines through the interior of the building shall be permitted. The spacing between parallel braced wall lines shall be in accordance with Table R602.10.1.3.

TABLE R602.10.1.3
BRACED WALL LINE SPACING

APPLICATION	CONDITION	BUILDING TYPE	BRACED WALL LINE SPACING CRITERIA	
			Maximum Spacing	Exception to Maximum Spacing
Wind bracing	85 mph to <110 mph	Detached, townhouse	60 feet	None
Seismic bracing	SDC A - C	Detached	Use wind bracing	
	SDC A – B	Townhouse	Use wind bracing	
	SDC C	Townhouse	35 feet	Up to 50 feet when length of required bracing per Table R602.10.3(3) is adjusted in accordance with Table R602.10.3(4)

For SI: 1 foot = 304.8 mm

R602.10.1.4 Angled walls. Any portion of a wall along a braced wall line shall be permitted to angle out of plane for a maximum diagonal length of 8 feet (2438 mm). Where the angled wall occurs at a corner, the length of the braced wall line shall be measured from the projected corner as shown in Figure R602.10.1.4. Where the diagonal length is greater than 8 feet (2438 mm), it shall be considered a separate braced wall line and shall be braced in accordance with Section R602.10.1.



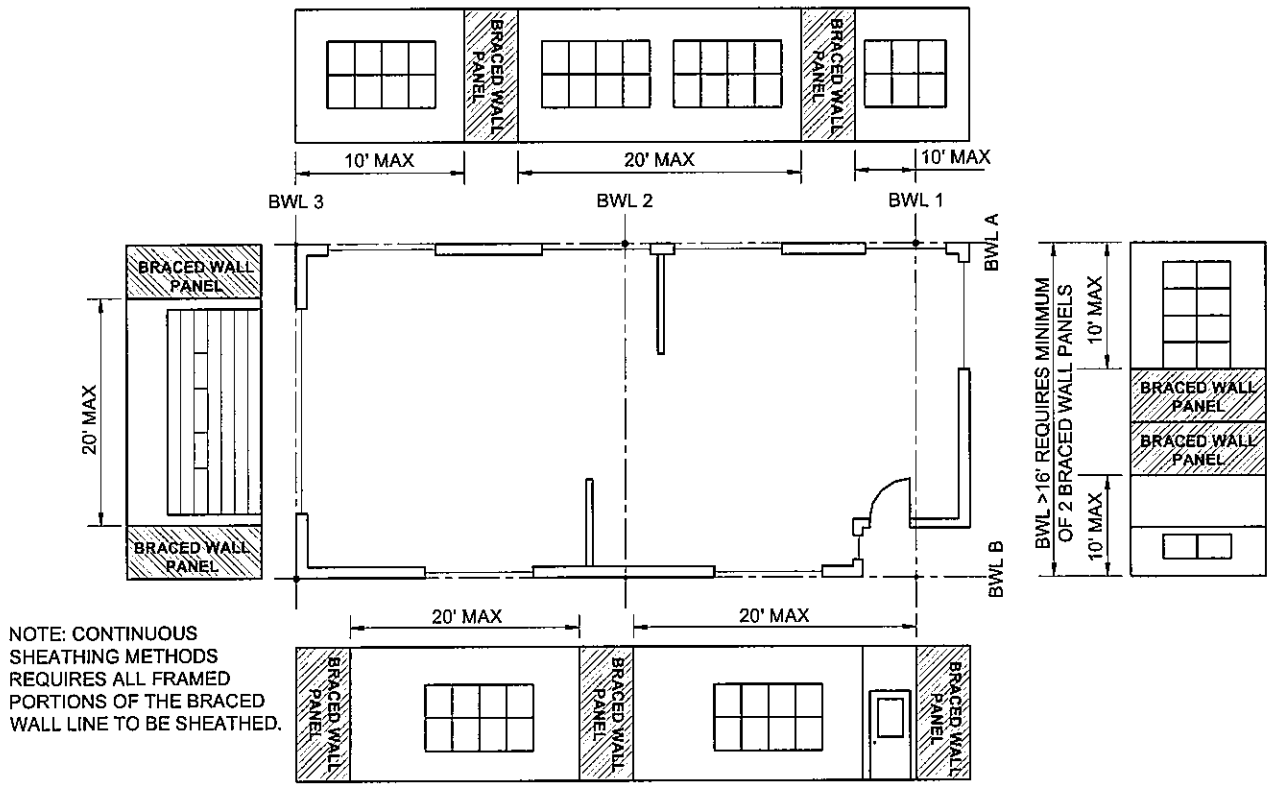
For SI: 1 foot=304.8 mm

FIGURE R602.10.1.4
ANGLED WALLS

R602.10.2 Braced wall panels. Braced wall panels shall be full-height sections of wall that shall have no vertical or horizontal offsets. Braced wall panels shall be constructed and placed along a braced wall line in accordance with this section and the bracing methods specified in Section R602.10.4.

R602.10.2.1 Braced wall panel uplift load path. The bracing lengths in Table R602.10.3(1) apply only when uplift loads are resisted per Section R602.3.5.

R602.10.2.2 Locations of braced wall panels. A braced wall panel shall begin within 10 feet (3810 mm) from each end of a braced wall line as determined in accordance with Section R602.10.1.1. The distance between adjacent edges of braced wall panels along a braced wall line shall be no greater than 20 feet (6096 mm) as shown in Figure R602.10.2.2



For SI: 1 foot=304.8 mm

FIGURE R602.10.2.2
LOCATION OF BRACED WALL PANELS

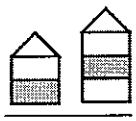
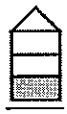
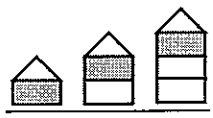
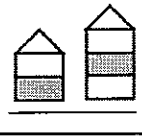
R602.10.2.3 Minimum number of braced wall panels. Braced wall lines with a length of 16 feet (4877 mm) or less shall have a minimum of two braced wall panels of any length or one braced wall panel equal to 48 inches (1219 mm) or more. Braced wall lines greater than 16 feet (4877 mm) shall have a minimum of two braced wall panels.

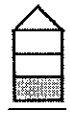
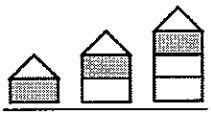
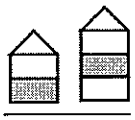
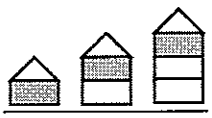
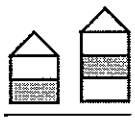
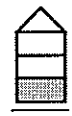
R602.10.3 Required length of bracing. The required length of bracing along each braced wall line shall be determined as follows.

1. All buildings in Seismic Design Categories A and B shall use Table R602.10.3(1) and the applicable adjustment factors in Table R602.10.3(2).
2. Detached buildings in Seismic Design Category C shall use Table R602.10.3(1) and the applicable adjustment factors in Table R602.10.3(2).
3. Townhouses in Seismic Design Category C shall use the greater value determined from Table R602.10.3(1) or R602.10.3(3) and the applicable adjustment factors in Table R602.10.3(2) or R602.10.3(4) respectively.

Only braced wall panels parallel to the braced wall line within the 4 foot (1219 mm) offset permitted by Section R602.10.1.2 shall contribute towards the required length of bracing of that braced wall line. If a braced wall panel is located along an angled wall and meets the minimum length requirements of Tables R602.10.5 or R602.10.5.2, it shall be permitted to contribute its projected length towards the minimum required length of bracing for the braced wall line as shown in Figure R602.10.1.4. If a braced wall panel is located along an angled wall at the end of a braced wall line, it shall contribute its projected length for only one of the braced wall lines at the projected corner.

TABLE R602.10.3(1)
BRACING REQUIREMENTS BASED ON WIND SPEED

• EXPOSURE CATEGORY B • 30 FT MEAN ROOF HEIGHT • 10 FT EAVE TO RIDGE HEIGHT • 10 FT WALL HEIGHT • 2 BRACED WALL LINES			MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE [a]			
Basic Wind Speed (mph)	**Story Location**	**Braced Wall Line Spacing (feet)**	**Method LIB [b]**	**Method GB**	**Methods DWB, WSP, SFB, PBS, PCP, HPS, CS-SFB [c]**	**Methods CS-WSP, CS-G, CS-PF**
≤85		10	3.5	3.5	2.0	1.5
		20	6.0	6.0	3.5	3.0
		30	8.5	8.5	5.0	4.5
		40	11.5	11.5	6.5	5.5
		50	14.0	14.0	8.0	7.0
		60	16.5	16.5	9.5	8.0
		10	6.5	6.5	3.5	3.0
		20	11.5	11.5	6.5	5.5
		30	16.5	16.5	9.5	8.0
		40	21.5	21.5	12.5	10.5
		50	26.5	26.5	15.0	13.0
		60	31.5	31.5	18.0	15.5
		10	NP	9.0	5.5	4.5
		20	NP	17.0	10.0	8.5
		30	NP	24.5	14.0	12.0
		40	NP	32.0	18.0	15.5
		50	NP	39.0	22.5	19.0
		60	NP	46.5	26.5	22.5
≤90		10	3.5	3.5	2.0	2.0
		20	7.0	7.0	4.0	3.5
		30	9.5	9.5	5.5	5.0
		40	12.5	12.5	7.5	6.0
		50	15.5	15.5	9.0	7.5
		60	18.5	18.5	10.5	9.0
		10	7.0	7.0	4.0	3.5
		20	13.0	13.0	7.5	6.5
		30	18.5	18.5	10.5	9.0
		40	24.0	24.0	14.0	12.0
		50	29.5	29.5	17.0	14.5

• EXPOSURE CATEGORY B • 30 FT MEAN ROOF HEIGHT • 10 FT EAVE TO RIDGE HEIGHT • 10 FT WALL HEIGHT • 2 BRACED WALL LINES			MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE [a]			
Basic Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	Method LIB [b]	Method GB	Methods DWB, WSP, SFB, PBS, PCP, HPS, CS-SFB [c]	Methods CS-WSP, CS-G, CS-PF
		60	35.0	35.0	20.0	17.0
		10	NP	10.5	6.0	5.0
		20	NP	19.0	11.0	9.5
		30	NP	27.5	15.5	13.5
		40	NP	35.5	20.5	17.5
		50	NP	44.0	25.0	21.5
		60	NP	52.0	30.0	25.5
≤100		10	4.5	4.5	2.5	2.5
		20	8.5	8.5	5.0	4.0
		30	12.0	12.0	7.0	6.0
		40	15.5	15.5	9.0	7.5
		50	19.0	19.0	11.0	9.5
		60	22.5	22.5	13.0	11.0
		10	8.5	8.5	5.0	4.5
		20	16.0	16.0	9.0	8.0
		30	23.0	23.0	13.0	11.0
		40	29.5	29.5	17.0	14.5
		50	36.5	36.5	21.0	18.0
		60	43.5	43.5	25.0	21.0
		10	NP	12.5	7.5	6.0
		20	NP	23.5	13.5	11.5
		30	NP	34.0	19.5	16.5
		40	NP	44.0	25.0	21.5
		50	NP	54.0	31.0	26.5
		60	NP	64.0	36.5	31.0
< 110[d]		10	5.5	5.5	3.0	3.0
		20	10.0	10.0	6.0	5.0
		30	14.5	14.5	8.5	7.0
		40	18.5	18.5	11.0	9.0
		50	23.0	23.0	13.0	11.5
		60	27.5	27.5	15.5	13.5
		10	10.5	10.5	6.0	5.0
		20	19.0	19.0	11.0	9.5
		30	27.5	27.5	16.0	13.5
		40	36.0	36.0	20.5	17.5
		50	44.0	44.0	25.5	21.5
		60	52.5	52.5	30.0	25.5
		10	NP	15.5	9.0	7.5
		20	NP	28.5	16.5	14.0
		30	NP	41.0	23.5	20.0
		40	NP	53.0	30.5	26.0
		50	NP	65.5	37.5	32.0
		60	NP	77.5	44.5	37.5

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm.

a. Linear interpolation shall be permitted.

b. Method LIB shall have gypsum board fastened to at least one side with nails or screws per Table R602.3(1) for exterior sheathing or Table R702.3.5 for interior gypsum board. Spacing of fasteners at panel edges shall not exceed 8 inches (203 mm).

c. Method CS-SFB does not apply where the wind speed is greater than 100 mph.

TABLE R602.10.3(2)
WIND ADJUSTMENT FACTORS TO THE REQUIRED LENGTH OF WALL BRACING

ADJUSTMENT BASED ON	STORY/ SUPPORTING	CONDITION	ADJUSTMENT FACTOR [a,b] (multiply length from Table R602.10.3(1) by this factor)	APPLICABLE METHODS
Exposure category	One story structure	B	1.00	All methods
		C	1.20	
		D	1.50	
	Two-story structure	B	1.00	
		C	1.30	
		D	1.60	
	Three-story structure	B	1.00	
		C	1.40	
		D	1.70	
Roof eave-to-ridge height	Roof only	≤5 ft	0.70	
		10 ft	1.00	
		15 ft	1.30	
		20 ft	1.60	
	Roof + 1 floor	≤5 ft	0.85	
		10 ft	1.00	
		15 ft	1.15	
		20 ft	1.30	
	Roof + 2 floors	≤5 ft	0.90	
		10 ft	1.00	
		15 ft	1.10	
		20 ft	Not permitted	
Wall height adjustment	Any story	8 ft	0.90	
		9 ft	0.95	
		10 ft	1.00	
		11 ft	1.05	
		12 ft	1.10	
Number of braced wall lines (per plan direction)[c]	Any story	2	1.00	
		3	1.30	
		4	1.45	
		≥5	1.60	
Additional 800 lb hold-down device	Top story only	Fastened to the end studs of each braced wall panel and to the foundation or framing below	0.80	DWB, WSP, SFB, PBS, PCP, HPS
Interior gypsum board finish (or equivalent)	Any story	Omitted from inside face of braced wall panels	1.40	DWB, WSP, SFB,PBS, PCP, HPS, CS-WSP, CS-G, CS-SFB
Gypsum board fastening	Any story	4 in. o.c. at panel edges, including top and bottom plates, and all horizontal joints blocked	0.7	GB

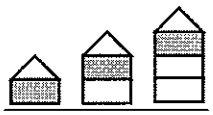
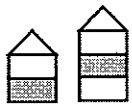
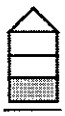
For SI: 1 foot = 305 mm, 1 lb = 4.48 N.

a. Linear interpolation shall be permitted.

b. The total adjustment factor is the product of all applicable adjustment factors.

c. The adjustment factor is permitted to be 1.0 when determing bracing amounts of intermediate braced wall lines provided the bracing amounts on adjacent braced wall lines are based on a spacing and number that neglects the intermediate braced wall line.

TABLE R602.10.3(3)
BRACING REQUIREMENTS BASED ON SEISMIC DESIGN CATEGORY

• SOIL CLASS D [b] • WALL HEIGHT = 10 FT • 10 PSF FLOOR DEAD LOAD • 15 PSF ROOF/CEILING DEAD LOAD • BRACED WALL LINE SPACING ≤25 FT			MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE [a]				
Seismic Design Category	Story Location	Braced Wall Line Length (ft)	Method LIB [c]	Method GB	Methods DWB, SFB, PBS, PCP, HPS, CS-SFB	Method WSP	Methods CS-WSP, CS-G,
C (townhouses only)		10	2.5	2.5	2.5	1.6	1.4
		20	5.0	5.0	5.0	3.2	2.7
		30	7.5	7.5	7.5	4.8	4.1
		40	10.0	10.0	10.0	6.4	5.4
		50	12.5	12.5	12.5	8.0	6.8
		10	NP	4.5	4.5	3.0	2.6
		20	NP	9.0	9.0	6.0	5.1
		30	NP	13.5	13.5	9.0	7.7
		40	NP	18.0	18.0	12.0	10.2
		50	NP	22.5	22.5	15.0	12.8
		10	NP	6.0	6.0	4.5	3.8
		20	NP	12.0	12.0	9.0	7.7
		30	NP	18.0	18.0	13.5	11.5
		40	NP	24.0	24.0	18.0	15.3
		50	NP	30.0	30.0	22.5	19.1

For SI: 1 foot 305 mm

a. Linear interpolation shall be permitted.

b. Wall bracing lengths are based on a soil site class "D." Interpolation of bracing length between the S_{ds} values associated with the Seismic Design Categories shall be permitted when a site-specific S_{ds} value is determined in accordance with Section 1613.5 of the International Building Code.

c. Method LIB shall have gypsum board fastened to at least one side with nails or screws per Table R602.3(1) for exterior sheathing or Table R702.3.5 for interior gypsum board. Spacing of fasteners at panel edges shall not exceed 8 inches (203 mm).

TABLE R602.10.3(4)
SEISMIC ADJUSTMENT FACTORS TO THE REQUIRED LENGTH OF WALL BRACING

ADJUSTMENT BASED ON:	STORY/ SUPPORTING	CONDITION	ADJUSTMENT FACTOR [a,b] (Multiply length from Table R602.10.3(3) by this factor)	APPLICABLE METHODS
Story height (Section 301.3)	Any story	≤10 ft	1.0	All methods
		>10 ft ≤12 ft	1.2	
Braced wall line spacing	Any story	≤35 ft	1.0	
		>35 ft ≤50 ft	1.43	
Wall dead load	Any story	> 8 ft < 15 ft	1.0	
		<8 psf	0.85	
Roof/ceiling dead load for wall supporting	Any story	< ≤15 psf	1.0	
	Roof plus one or two stories	>15 psf ≤25 psf	1.1	
	Roof only	>15 psf ≤25 psf	1.2	
Walls with stone or masonry veneer		1.0		
		1.5		
		1.5		
Interior gypsum board finish (or equivalent)	Any story	Omitted from inside face of braced wall panels	1.5	DWB, WSP, SFB, PBS, PCP, HPS, CS-WSP, CS-G, CS-SFB

For SI: 1 psf = 47.8 N/m^2.

a. Linear interpolation shall be permitted.

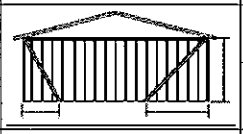
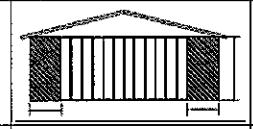
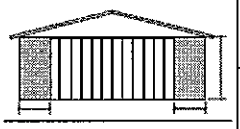
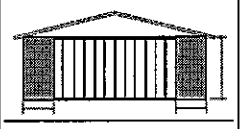
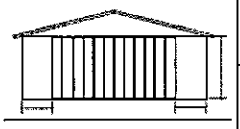
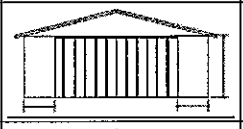
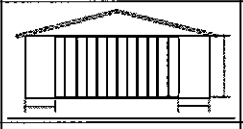
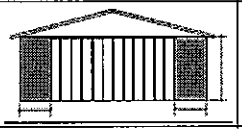
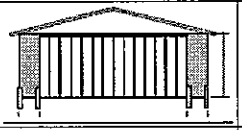
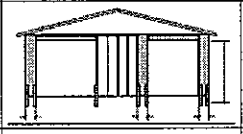
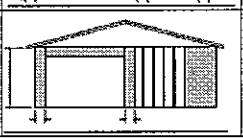
b. The total length of bracing required for a given wall line is the product of all applicable adjustment factors.

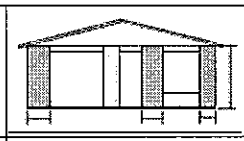
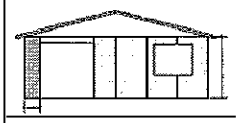
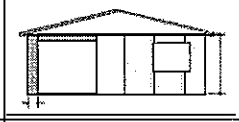
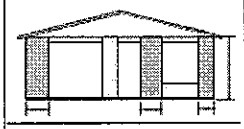
c. The length-to-width ratio for the floor/roof diaphragm shall not exceed 3:1. The top plate lap splice nailing shall be a minimum of 12-16d nails on each side of the splice.

d. Applies to stone or masonry veneer exceeding the first story height.
e. The adjustment factor for stone or masonry veneer shall be applied to all exterior braced wall lines and all braced wall lines on the interior of the building.

R602.10.4 Bracing methods for braced wall panels. Braced wall panels shall be constructed in accordance with this section and the methods listed in Table R602.10.4.

TABLE R602.10.4
BRACING METHODS

	METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA [a]	
				Fasteners	Spacing
Intermittent Bracing Methods	**LIB** Let-in-bracing	1x4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing		Wood: 2-8d common nails or 3-8d (2 ½" long x 0.113" dia.) nails Metal: per manufacturer	Wood: per stud and top and bottom plates Metal: per manufacturer
	DWB Diagonal wood boards	¾" (1" nominal) for maximum 24" stud spacing		2-8d (2½" long x 0.113" dia.) nails or 2 - 1¾" long staples	Per stud
	WSP Wood structural panel (See Section R604)	3/8"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6" edges 12" field Varies by fastener
	SFB Structural fiberboard sheathing	1/2" or 25/32" for maximum 16" stud spacing		1½" long x 0.12" dia. (for ½ " thick sheathing) 1¾" long x 0.12" dia. (for 25/32" thick sheathing) galvanized roofing nails or 8d common (2½" long x 0.131" dia.) nails	3" edges 6" field
	GB Gypsum board	1/2"		Nails or screws per Table R602.3(1) for exterior locations Nails or screws per Table R702.3.5 for interior locations	For all braced wall panel locations: 7" edges (including top and bottom plates) 7" field
	PBS Particleboard sheathing (See Section R605)	3/8" or 1/2" for maximum16" stud spacing		For 3/8", 6d common (2" long x 0.113" dia.) nails For ½", 8d common (2½" long x 0.131" dia.) nails	3" edges 6" field
	PCP Portland cement plaster	See Section R703.6 for maximum 16" stud spacing		1½" long, 11 gage, 7/16" dia. head nails or 7/8" long, 16 gage staples	6" o.c. on all framing members
	HPS Hardboard panel siding	7/16" for maximum 16" stud spacing		0.092" dia., 0.225" dia. head nails with length to accommodate 1½" penetration into studs	4" edges 8" field
	ABW Alternate braced wall	3/8"		See Section R602.10.6.1	See Section R602.10.6.1
	PFH Portal frame with hold-downs	3/8		See Section R602.10.6.2	See Section R602.10.6.2
	PFG Portal frame at garage	7/16"		See Section R602.10.6.3	See Section R602.10.6.3

Continuous Sheathing Methods	**CS-WSP** Continuously sheathed wood structural panel	$^3/_8$"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6" edges 12" field Varies by fastener
	CS-G [b, c] Continuously sheathed wood structural panel adjacent to garage openings	$^3/_8$"		See Method CS-WSP	See Method CS-WSP
	CS-PF Continuously sheathed portal frame	$^7/_{16}$"		See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB[d] Continuously sheathed structural fiberboard	$^1/_2$" or $^{25}/_{32}$" for maximum 16" stud spacing		1½" long x 0.12" dia. (for ½ " thick sheathing) $1^3/_4$" long x 0.12" dia. (for $^{25}/_{32}$" thick sheathing) galvanized roofing nails or 8d common (2½" long x 0.131 dia.) nails	3" edges 6" field

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm.

a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in townhouses in Seismic Design Category C.

b. Applies to panels next to garage door opening when supporting gable end wall or roof load only. May only be used on one wall of the garage.

c. Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R502.5(1). A full height clear opening shall not be permitted adjacent to a Method CS-G panel.

d. Method CS-SFB does not apply in areas where the wind speed exceeds 100 mph.

R602.10.4.1 Mixing methods. Mixing of bracing methods shall be permitted as follows:

1. Mixing intermittent bracing and continuous sheathing methods from story to story shall be permitted.
2. Mixing intermittent bracing methods from braced wall line to braced wall line within a story shall be permitted. In regions where the basic wind speed is less than or equal to 100 mph, mixing of intermittent bracing and continuous sheathing methods from braced wall line to braced wall line within a story shall be permitted.
3. Mixing intermittent bracing methods along a braced wall line shall be permitted in Seismic Design Categories A and B, and detached dwellings in Seismic Design Category C provided the length of required bracing in accordance with Table R602.10.3(1) or R602.10.3(3) is the highest value of all intermittent bracing methods used.
4. Mixing of continuous sheathing methods CS-WSP, CS-G and CS-PF along a braced wall line shall be permitted.
5. In Seismic Design Categories A and B, and for detached one- and two-family dwellings in Seismic Design Category C, mixing of intermittent bracing methods along the interior portion of a braced wall line with continuous sheathing methods CS-WSP, CS-G and CS-PF along the exterior portion of the same braced wall line shall be permitted. The length of required bracing shall be the highest value of all intermittent bracing methods used in accordance with Table R602.10.3(1) or R602.10.3(3) as adjusted by Tables R602.10.3(2) and R602.10.3(4), respectively. The requirements of Section R602.10.7 shall apply to each end of the continuously sheathed portion of the braced wall line.

R602.10.4.2 Continuous sheathing methods. Continuous sheathing methods require structural panel sheathing to be used on all sheathable surfaces on one side of a braced wall line including areas above and below openings and gable end walls and shall meet the requirements of Section R602.10.7.

R602.10.4.3 Braced wall panel interior finish material. Braced wall panels shall have gypsum wall board installed on the side of the wall opposite the bracing material. Gypsum wall board shall be not less than ½ inch (12.7 mm) in thickness and be fastened with nails or screws in accordance with Table R602.3(1) for exterior sheathing or Table R702.3.5 for interior gypsum wall board. Spacing of fasteners at panel edges for gypsum wall board opposite Method LIB bracing shall not exceed 8 inches (203 mm). Interior finish material shall not be glued in townhouses in Seismic Category C.

Exceptions:

1. Interior finish material is not required opposite wall panels that are braced in accordance with Method GB, ABW, PFH, PFG and CS-PF, unless otherwise required by Section R302.6.
2. An approved interior finish material with an in-plane shear resistance equivalent to gypsum board shall be permitted to be substituted, unless otherwise required by Section R302.6.
3. Except for Method LIB, gypsum wall board is permitted to be omitted provided the required length of bracing in Tables R602.10.3(1) and R602.10.3(3) is multiplied by the appropriate adjustment factor in Tables R602.10.3(2) and R602.10.3(4) respectively, unless otherwise required by Section R302.6.

R602.10.5 Minimum length of a braced wall panel. The minimum length of a braced wall panel shall comply with Table R602.10.5. For Methods CS-WSP and CS-SFB, the minimum panel length shall be based on the vertical dimension of the adjacent opening in accordance with Table R602.10.5 and Figure R602.10.5. When a panel has openings on either side of differing heights, the larger vertical dimension shall be used to determine the minimum braced wall panel length.

R602.10.5.1 Contributing length. For purposes of complying with the required length of bracing in Tables R602.10.3(1) and R602.10.3(3), the contributing length of each braced wall panel to the total length of bracing shall be as specified in Table R602.10.5.

TABLE R602.10.5
MINIMUM LENGTH OF BRACED WALL PANELS

METHOD (See Table R602.10.4)		MINIMUM LENGTH [a] (in) Wall Height					CONTRIBUTING LENGTH (in)
		8 ft	9 ft	10 ft	11 ft	12 ft	
DWG, WSP, SFB, PBS, PCP, HPS		48	48	48	53	58	Actual [b]
GB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 x Actual
LIB		55	62	69	NP	NP	Actual [b]
ABW		28	32	34	38	42	48
PFH	Supporting roof only	16	16	16	18 [c]	20 [c]	48
	Supporting one story and roof	24	24	24	27 [c]	29 [c]	48
PFG		24	27	30	33 [c]	36 [c]	1.5 x Actual [b]
CS-G		24	27	30	33	36	Actual [b]
CS-PF		16	18	20	22 [c]	24 [c]	Actual [b]
CS-WSP, CS-SFB	Adjacent opening vertical dimension (in)						
	≤64	24	27	30	33	36	Actual [b]
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36	
	100		44	40	38	38	
	104		49	43	40	39	
	108		54	46	43	41	
	112			50	45	43	
	116			55	48	45	
	120			60	52	48	
	124				56	51	
	128				61	54	
	132				66	58	
	136					62	
	140					66	
	144					72	

For SI: 1 inch = 25.4 mm
NP = Not permitted
a. Linear interpolation shall be permitted.

b. Use the actual length provided it is greater than or equal to the minimum length.
c. Maximum header height for is 10'; however, wall height may be increased to 12' with a pony wall per Table R602.10.6.4.

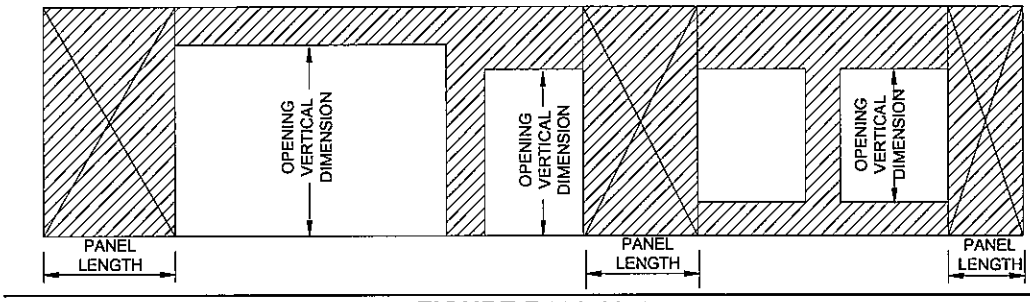


FIGURE R602.10.5
BRACED WALL PANELS WITH CONTINUOUS SHEATHING

R602.10.5.2 Partial credit. For Methods DWB, WSP, SFB, PBS, PCP and HPS panels between 36 inches and 48 inches in length shall be considered a braced wall panel and shall be permitted to partially contribute towards the required length of bracing in Table R602.10.3(1) and R602.10.3(3), and the contributing length shall be determined from Table R602.10.5.2.

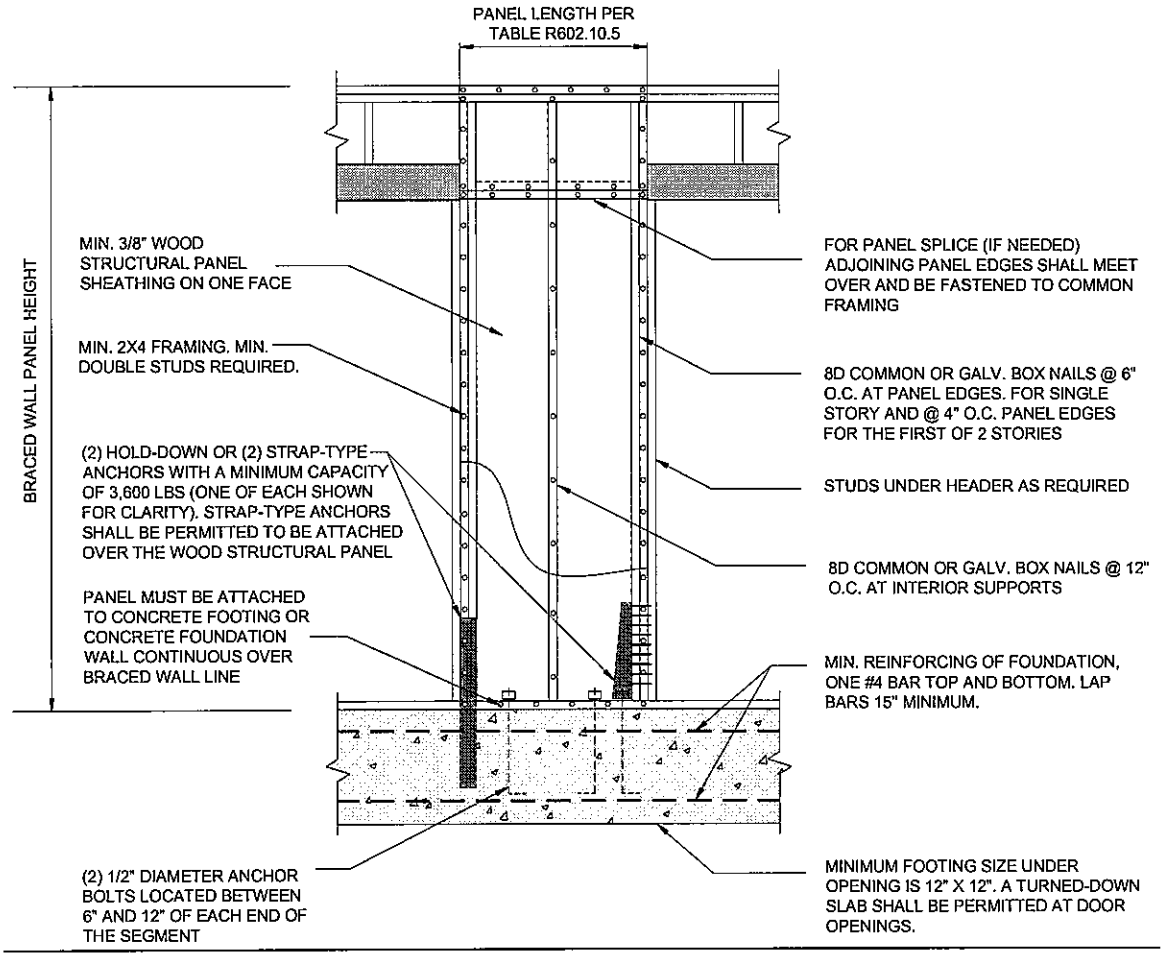
TABLE R602.10.5.2
PARTIAL CREDIT FOR BRACED WALL PANELS LESS THAN 48 INCHES IN ACTUAL LENGTH

Actual Length of Braced Wall Panel (in)	Contributing Length of Braced Wall Panel (in) [a]	
	8 ft Wall Height	9 ft Wall Height
48	48	48
42	36	36
36	27	N/A

For SI: 1 inch = 25.4mm
a. Linear interpolation shall be permitted.

R602.10.6 Construction of Methods ABW, PFH, PFG and CS-PF. Methods ABW, PFH, PFG and CS-PF shall be constructed as specified in Sections R602.10.6.1 through R602.10.6.4.

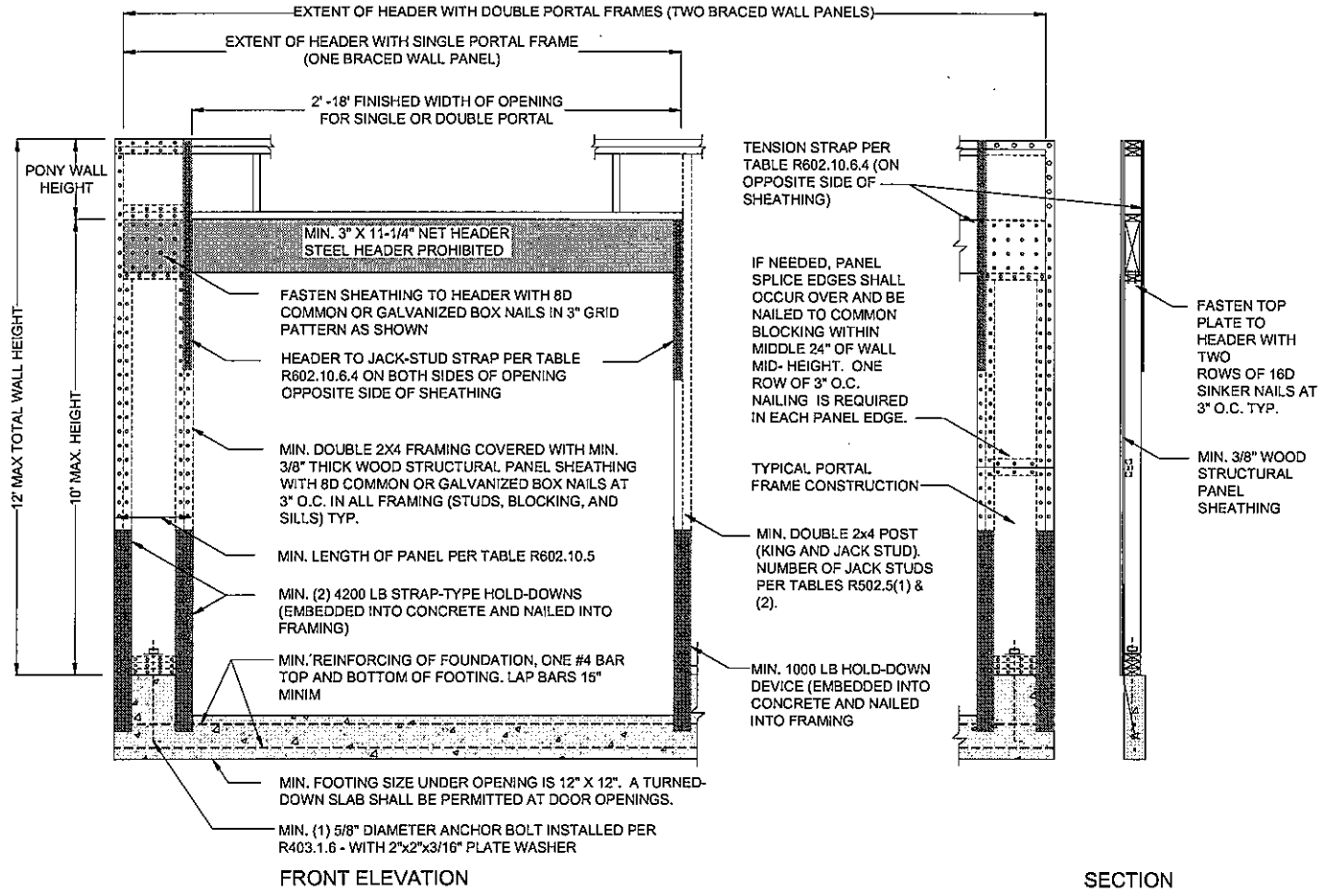
R602.10.6.1 Method ABW: Alternate braced wall panels. Method ABW braced wall panels shall be constructed in accordance with Figure R602.10.6.1.



For SI: 1 inch = 25.4 mm, 1 foot = 305 mm

FIGURE R602.10.6.1
METHOD ABW: ALTERNATE BRACED WALL PANEL

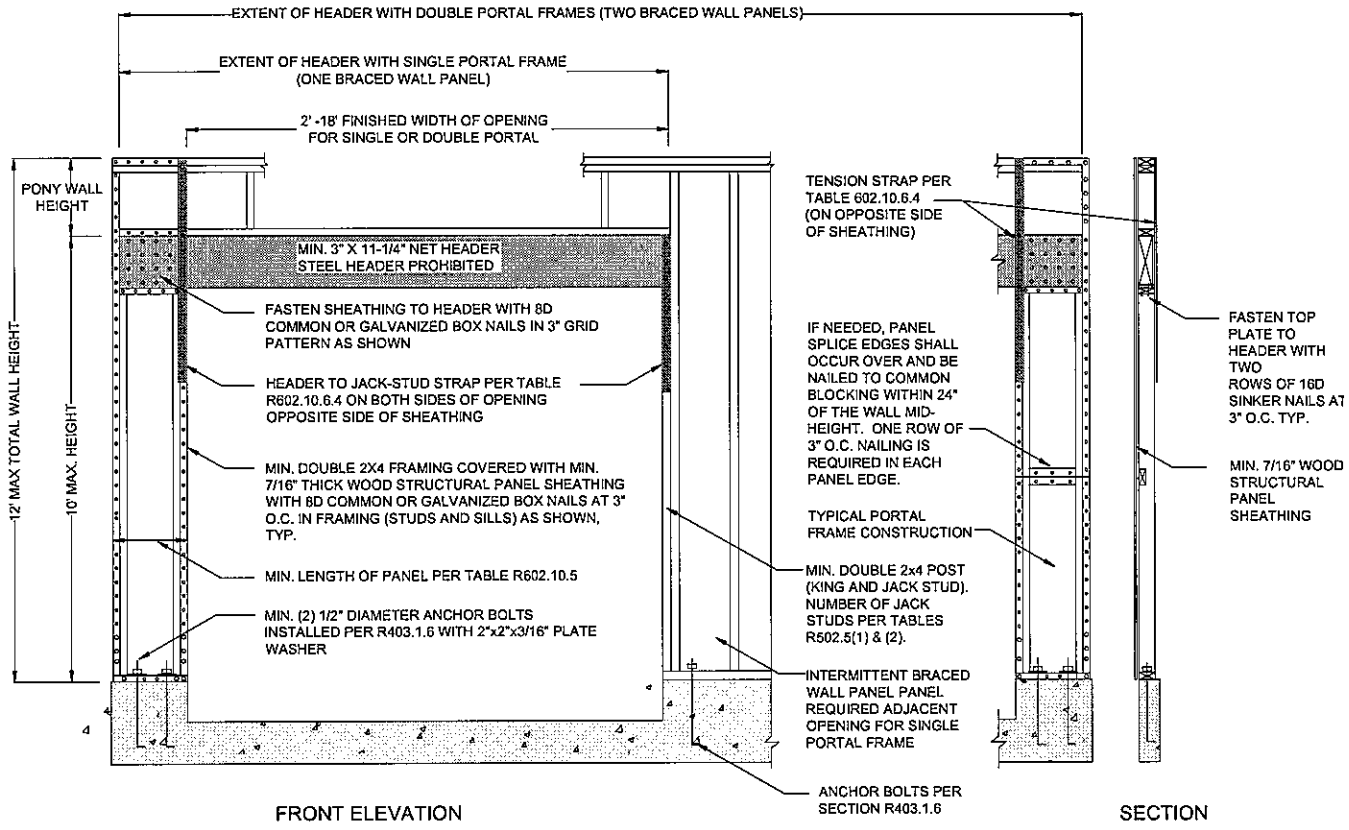
R602.10.6.2 Method PFH: Portal frame with hold-downs. Method PFH braced wall panels shall be constructed in accordance with Figure R602.10.6.2.



For SI: 1 inch = 25.4 mm, 1 foot = 305 mm

FIGURE R602.10.6.2
METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS

R602.10.6.3 Method PFG: Portal frame at garage door openings. Where supporting a roof or one story and a roof, a Method PFG braced wall panel constructed in accordance with Figure R602.10.6.3 shall be permitted on either side of garage door openings.



For SI: 1 inch = 25.4 mm, 1 foot = 305 mm

FIGURE R602.10.6.3
METHOD PFG: PORTAL FRAME AT GARAGE DOOR OPENINGS
IN SEISMIC DESIGN CATEGORIES A, B AND C

R602.10.6.4 Method CS-PF: Continuously sheathed portal frame. Continuously sheathed portal frame braced wall panels shall be constructed in accordance with Figure R602.10.6.4 and Table R602.10.6.4. The number of continuously sheathed portal frame panels in a single braced wall line shall not exceed four.

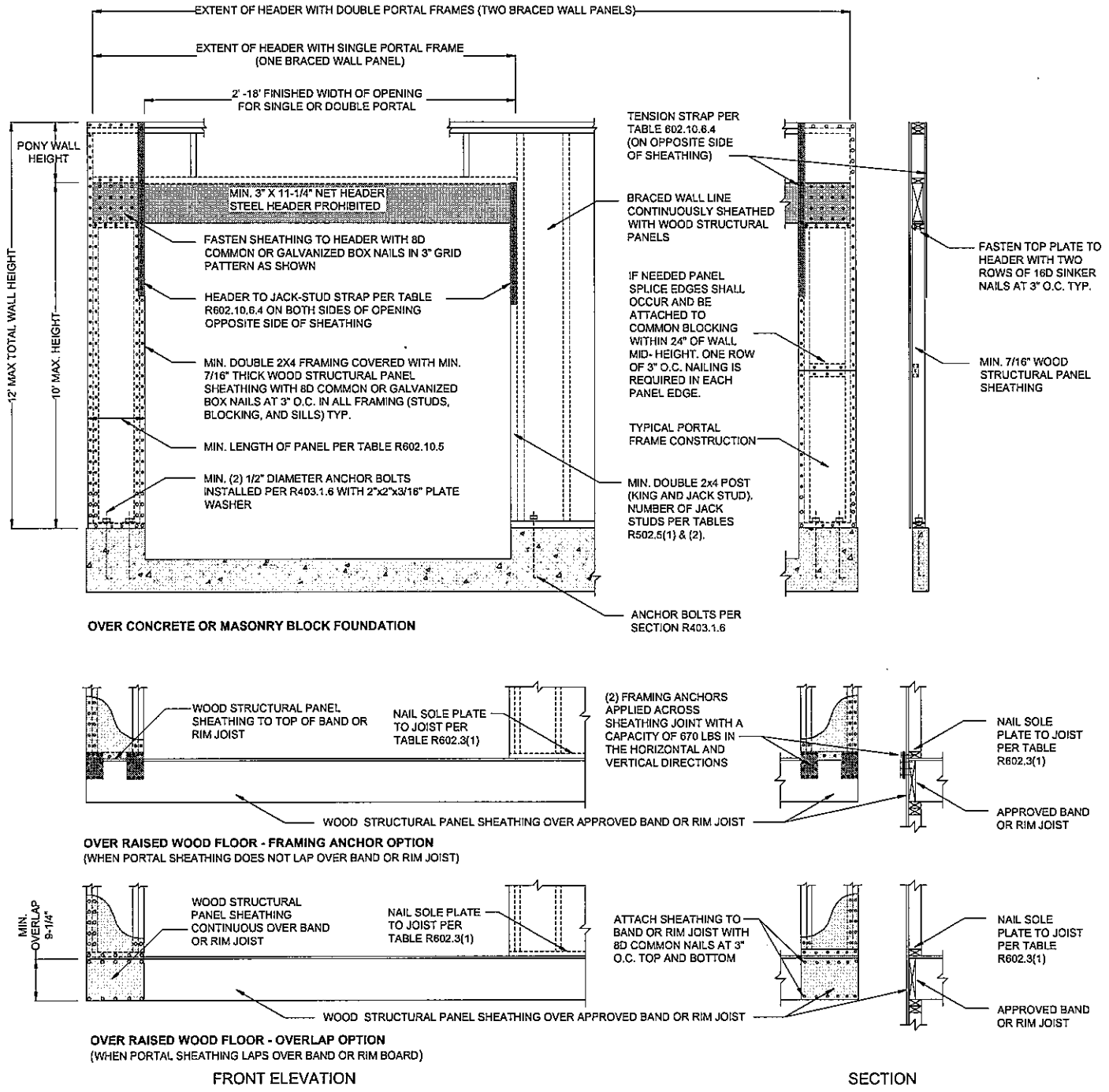
TABLE R602.10.6.4
TENSION STRAP CAPACITY REQUIRED FOR RESISTING WIND PRESSURES PERPENDICULAR TO METHOD PFH, PFG AND CS-PF BRACED WALL PANELS

MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (ft)	MAXIMUM TOTAL WALL HEIGHT (ft)	MAXIMUM OPENING WIDTH (ft)	TENSION STRAP CAPACITY REQUIRED (lb)[a]					
				Basic Wind Speed (mph)					
				85	90	100	85	90	100
				Exposure B			Exposure C		
2x4 No. 2 Grade	0	10	18	1000	1000	1000	1000	1000	1000
	1	10	9	1000	1000	1000	1000	1000	1275
			16	1000	1000	1750	1800	2325	3500
			18	1000	1200	2100	2175	2725	DR
	2	10	9	1000	1000	1025	1075	1550	2500
			16	1525	2025	3125	3200	3900	DR
			18	1875	2400	3575	3700	DR	DR
	2	12	9	1000	1200	2075	2125	2750	4000
			16	2600	3200	DR	DR	DR	DR
			18	3175	3850	DR	DR	DR	DR
	4	12	9	1775	2350	3500	3550	DR	DR
			16	4175	DR	DR	DR	DR	DR
2x6 Stud Grade	2	12	9	1000	1000	1325	1375	1750	2550
			16	1650	2050	2925	3000	3550	DR
			18	2025	2450	3425	3500	4100	DR
	4	12	9	1125	1500	2225	2275	2775	3800
			16	2650	3150	DR	DR	DR	DR
			18	3125	3675	DR	DR	DR	DR

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 lb = 4.45 N

DR = design required

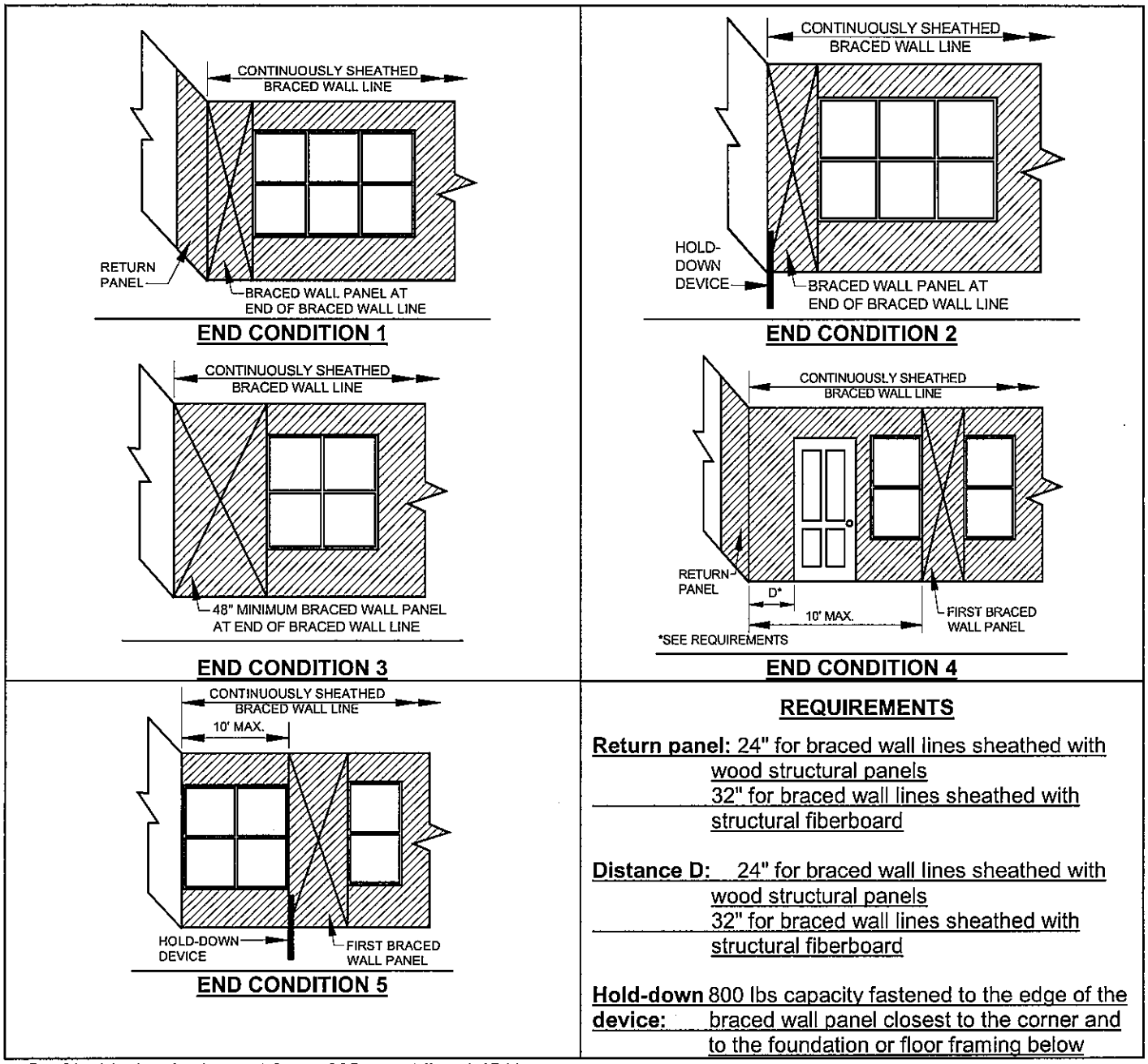
a. Strap shall be installed in accordance with manufacturer's recommendations.



For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 lb = 4.45 N

FIGURE R602.10.6.4
METHOD CS-PF: CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

R602.10.7 Ends of braced wall lines with continuous sheathing. Each end of a braced wall line with continuous sheathing shall be in accordance with one of the end conditions shown in Figure R602.10.7.

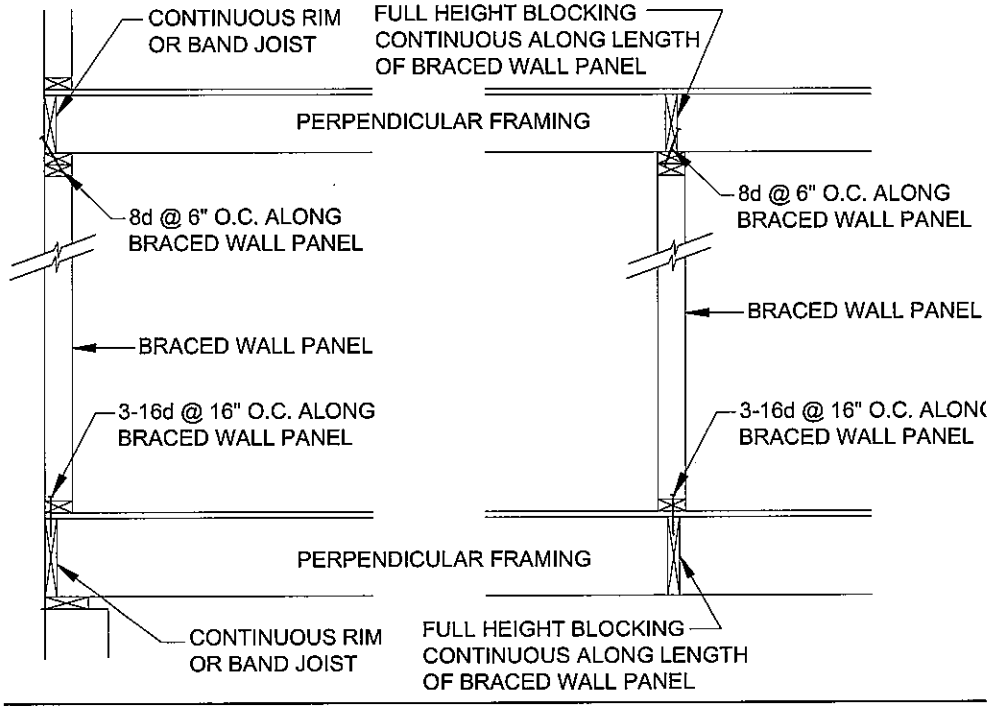


For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 lb = 4.45 N

FIGURE R602.10.7
END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING

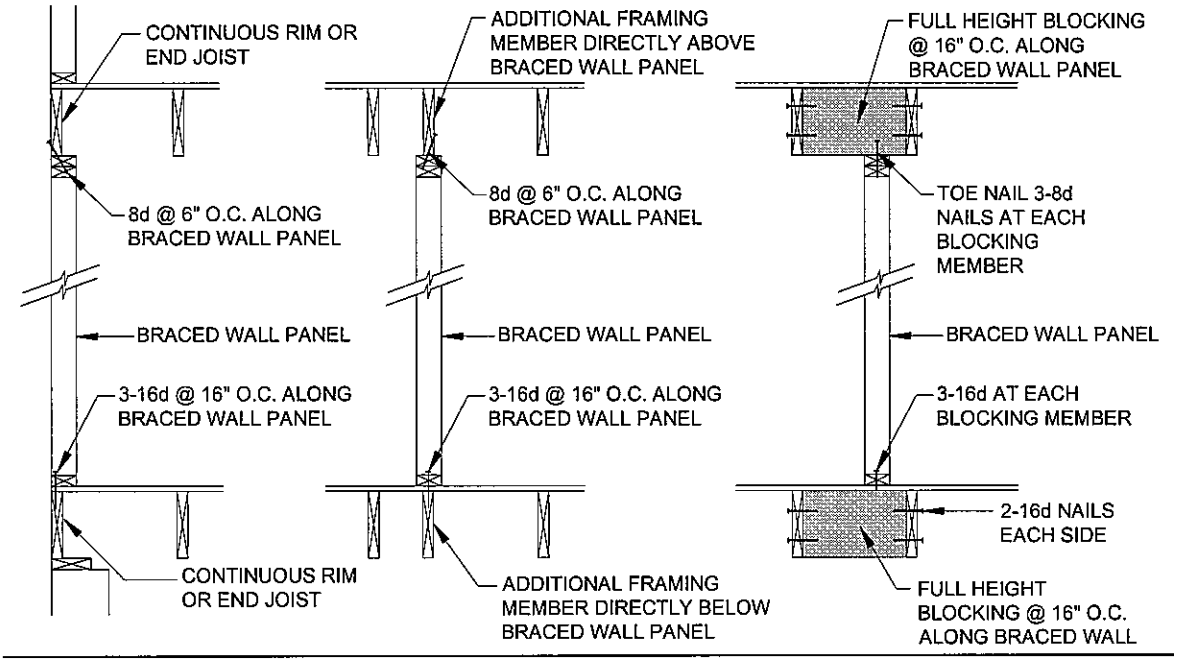
R602.10.8 Braced wall panel connections. Braced wall panels shall be connected to floor framing or foundations as follows:

1. Where joists are perpendicular to a braced wall panel above or below, a rim joist, band joist or blocking shall be provided along the entire length of the braced wall panel in accordance with Figure R602.10.8(1). Fastening of top and bottom wall plates to framing, rim joist, band joist and/or blocking shall be in accordance with Table R602.3(1).
2. Where joists are parallel to a braced wall panel above or below, a rim joist, end joist or other parallel framing member shall be provided directly above and below the braced wall panel in accordance with Figure R602.10.8(2). Where a parallel framing member cannot be located directly above and below the panel, full-depth blocking at 16 inch (406 mm) spacing shall be provided between the parallel framing members to each side of the braced wall panel in accordance with Figure R602.10.8(2). Fastening of blocking and wall plates shall be in accordance with Table R602.3(1) and Figure R602.10.8(2).
3. Connections of braced wall panels to concrete or masonry shall be in accordance with Section R403.1.6.



For SI: 1 inch = 25.4 mm

FIGURE R602.10.8(1)
BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING

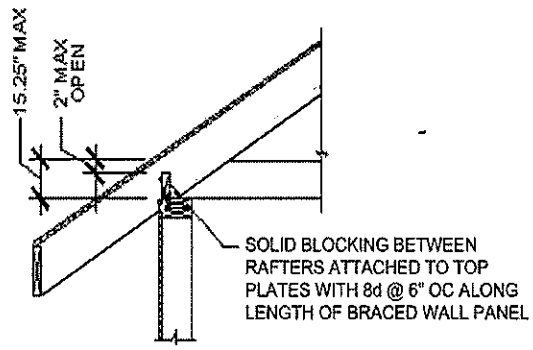


For SI: 1 inch = 25.4 mm

FIGURE R602.10.8(2)
BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING

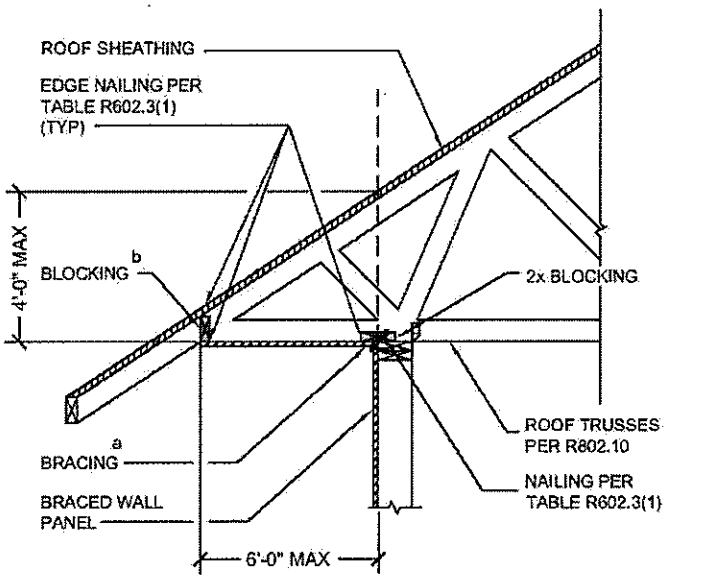
R602.10.8.1 Connections to roof framing. Top plates of exterior braced wall panels shall be attached to rafters or roof trusses above in accordance with Table R602.3(1) and this section. Where required by this section, blocking between rafters or roof trusses shall be attached to top plates of braced wall panels and to rafters and roof trusses in accordance with Table R602.3(1). A continuous band, rim, or header joist or roof truss parallel to the braced wall panels shall be permitted to replace the blocking required by this section. Blocking shall not be required over openings in continuously-sheathed braced wall lines. In addition to the requirements of this section, lateral support shall be provided for rafters and ceiling joists in accordance with Section R802.8 and for trusses in accordance with Section R802.10.3. Roof ventilation shall be provided in accordance with R806.1.

1. For wind speeds less than 100 mph (45 m/s):
   - 1.1 Where the distance from the top of the braced wall panel to the top of the rafters or roof trusses above is 9.25 inches (235 mm) or less, blocking between rafters or roof trusses shall not be required.
   - 1.2 Where the distance from the top of the braced wall panel to the top of the rafters or roof trusses above is between 9.25 inches (235 mm) and 15.25 inches (387 mm) blocking between rafters or roof trusses shall be provided above the braced wall panel in accordance with Figure R602.10.8.1(1).
2. For wind speeds of 100 mph (45 m/s) or greater, where the distance from the top of the braced wall panel to the top of the rafters or roof trusses is 15.25 inches (387 mm) or less, blocking between rafters or roof trusses shall be provided above the braced wall panel in accordance with Figure R602.10.8.1(1).
3. Where the distance from the top of the braced wall panel to the top of the rafters or roof trusses exceeds 15.25 inches (387 mm), the top plate of the braced wall panel shall be connected to perpendicular rafters or roof trusses above in accordance with one or more of the following methods:
   - 3.1. Soffit blocking panels constructed per Figure R602.10.8.1(2).
   - 3.2. Vertical blocking panels constructed per Figure R602.10.8.1(3).
   - 3.3. Full-height engineered blocking panels designed per the AF&PA WFCM.
   - 3.4. Blocking, blocking panels, or other methods of lateral load transfer designed in accordance with accepted engineering practice.



For SI: 1 inch = 25.4 mm

FIGURE R602.10.8.1(1)
BRACED WALL PANEL CONNECTION TO PERPENDICULAR RAFTERS



For SI: 1 inch = 25.4 mm
a. Methods of bracing shall be as described in Section R602.10.4
b. Provide ventilation (not shown) per Section R806.

FIGURE R602.10.8.1(2)
BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES

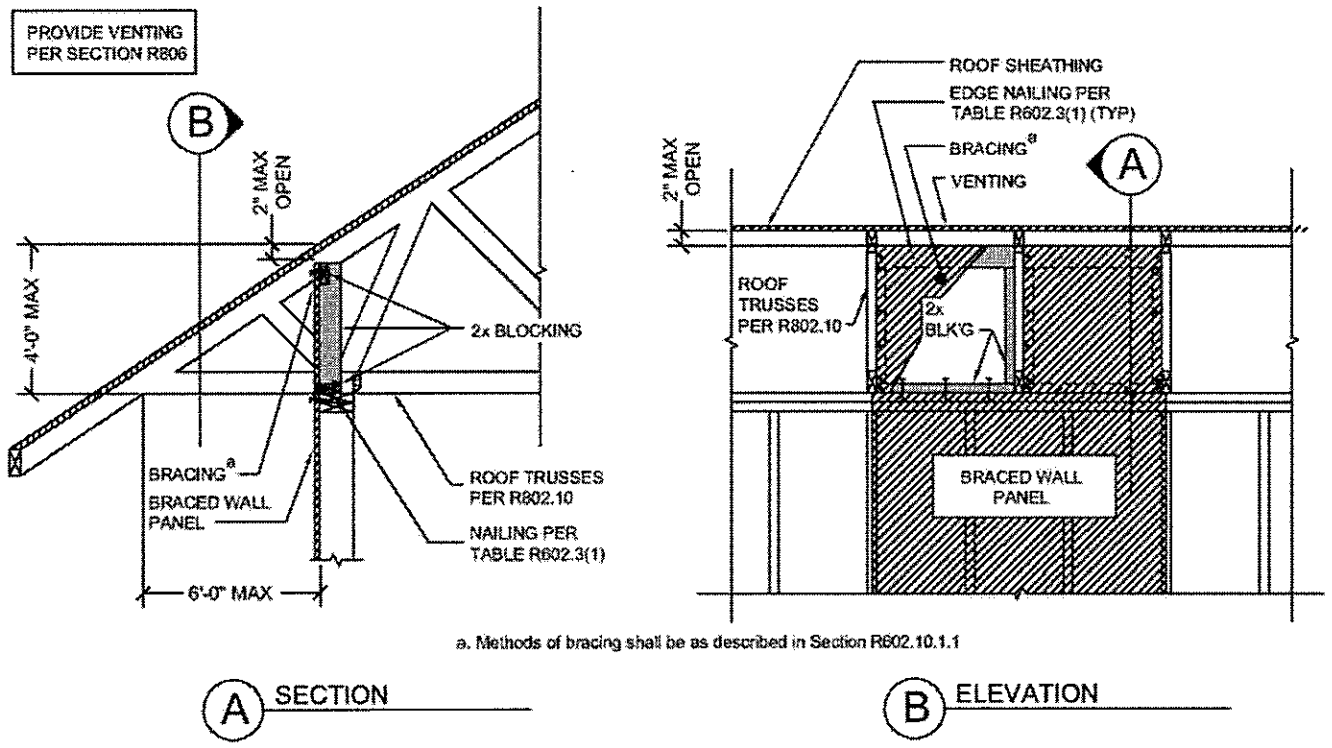
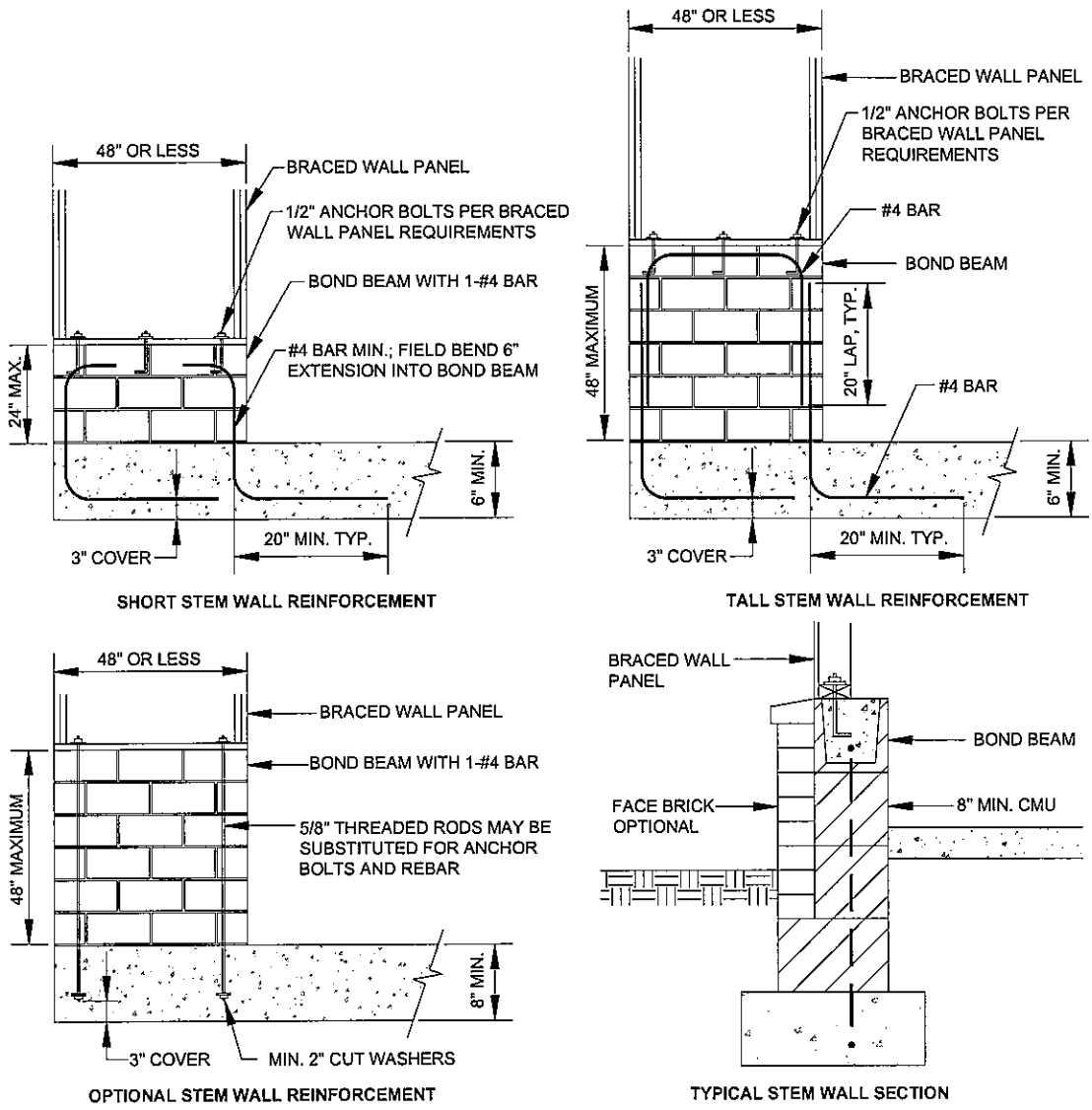


FIGURE R602.10.8.1(3)
BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES

R602.10.9 Braced wall panel support. Braced wall panel support shall be provided as follows:

1. Cantilevered floor joists complying with Section R502.3.3 shall be permitted to support braced wall panels.
2. Elevated post or pier foundations supporting braced wall panels shall be designed in accordance with accepted engineering practice.
3. Masonry stem walls with a length of 48 inches (1220 mm) or less supporting braced wall panels shall be reinforced in accordance with Figure R602.10.9. Masonry stem walls with a length greater than 48 inches (1220 mm) supporting braced wall panels shall be constructed in accordance with Section R403.1 Methods ABW and PFH shall not be permitted to attach to masonry stem walls.
4. Concrete stem walls with a length of 48 inches (1220 mm) or less, greater than 12 inches (305 mm) tall and less than 6 inches (152 mm) thick shall have reinforcement sized and located in accordance with Figure R602.10.9.



For SI: 1 in=305 mm

FIGURE R602.10.9
MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS

R602.10.10 Panel joints. All vertical joints of panel sheathing shall occur over, and be fastened to common studs. Horizontal joints in braced wall panels shall occur over, and be fastened to common blocking of a minimum 1-1/2 inch (38 mm) thickness.

Exceptions:

1. Vertical joints of panel sheathing shall be permitted to occur over double studs, where adjoining panel edges are attached to separate studs with the required panel edge fastening schedule, and the adjacent studs are attached together with 2 rows of 10d box nails (3 in. long x 0.128 in. dia.) at 10 inches (254 mm) o.c.
2. Blocking at horizontal joints shall not be required in wall segments that are not counted as braced wall panels.
3. Where the length of bracing provided is at least twice the required length of bracing from Tables R602.10.3(1) and R602.10.3(3) blocking at horizontal joints shall not be required in braced wall panels constructed using Methods WSP, SFB, GB, PBS or HPS.
4. When Method GB panels are installed horizontally, blocking of horizontal joints is not required.

R602.10.11 Cripple wall bracing. Cripple walls shall be constructed in accordance with Section R602.9 and braced in accordance with this section. Cripple walls shall be braced with the length and method of bracing used for the wall above in accordance with Tables R602.10.3(1) and R602.10.3(3), except that the length of cripple wall bracing shall be multiplied by a factor of 1.15.

R602.10.11.1 Cripple wall bracing for townhouses in Seismic Design Category C. In addition to the requirements in Section R602.10.11, the distance between adjacent edges of braced wall panels shall be 14 feet (4267 mm) maximum.

Where braced wall lines at interior walls are not supported on a continuous foundation below, the adjacent parallel cripple walls, where provided, shall be braced with Method WSP or CS-WSP per Section R602.10.4. The length of bracing required per Table R602.10.3(3) for the cripple walls shall be multiplied by 1.5. Where the cripple walls do not have sufficient length to provide the required bracing, the spacing of panel edge fasteners shall be reduced to 4 inches (102 mm) on center and the required bracing length adjusted by 0.7. If the required length can still not be provided, the cripple wall shall be designed in accordance with accepted engineering practice.

R602.10.11.2 Redesignation of cripple walls. Where all cripple wall segments along a braced wall line do not exceed 48 inches (1220 mm) in height, the cripple wall shall be permitted to be redesignated as a first story wall for purposes of determining wall bracing requirements. Where any cripple wall segment in a braced wall line exceeds 48 inches (1220 mm) in height, the entire cripple wall shall be counted as an additional story. If the cripple walls are redesignated, the stories above the redesignated story shall be counted as the second and third stories respectively.

11. Edit Section R602.11 as follows.

R602.11 Wall anchorage. Braced wall line sills shall be anchored to concrete or masonry foundations in accordance with Sections R403.1.6 and R602.11.1.

R602.11.1 Wall anchorage for ~~all buildings in Seismic Design Categories D_0, D_1 and D_2 and~~ townhouses in Seismic Design Category C. Plate washers, a minimum of 0.229 inches by 3 inches by 3 inches (5.8 mm by 76 mm by 76 mm) in size, shall be provided between the foundation sill plate and the nut except where approved anchor straps are used. The hold in the plate washer is permitted to be diagonally slotted with a width of up to $^3/_{16}$ inch (5 mm) larger than the bolt diameter and a slot length not to exceed 1 $^3/_4$ inches (44 mm) provided a standard cut washer is placed between the plate washer and the nut.

~~**R602.11.2 Stepped foundations in Seismic Design Categories D_0, D_1 and D_2.** In all buildings located in Seismic Design Categories D_0, D_1 or D_2, where the height of a required braced wall line that extends from foundation to floor above varies more than 4 feet (1220 mm), the braced wall line shall be constructed in accordance with the following:~~

1. ~~Where the lowest floor framing rests directly on a sill bolted to a foundation not less than 8 feet (2440 mm) in length along a line of bracing, the line shall be considered as braced. The double plate of the cripple stud wall beyond the segment of footing that extends to the lowest framed floor shall be spliced by extending the upper top plate a minimum of 4 feet (1219 mm) along the foundation. Anchor bolts shall be located a maximum of 1 foot and 3 feet (305 and 914 mm) from the step in the foundation. See Figure R602.11.2.~~
2. ~~Where cripple walls occur between the top of the foundation and the lowest floor framing, the bracing requirements of Sections R602.10.9 and R602.10.9.1 shall apply.~~
3. ~~Where only the bottom of the foundation is stepped and the lowest floor framing rests directly on a sill bolted to the foundations, the requirements of Sections R403.1.6 and R602.11.1 shall apply.~~

12. Add new Section R602.12 as follows. Renumber remaining sections.

R602.12 Simplified wall bracing. Buildings meeting all of the conditions listed below shall be permitted to be braced in accordance with this section as an alternate to the requirements of Section R602.10. The entire building shall be braced in accordance with this section; the use of other bracing provisions of R602.10, except as specified herein, shall not be permitted.

1. There shall be no more than two stories above the top of a concrete or masonry foundation or basement wall. Permanent wood foundations shall not be permitted.
2. Floors shall not cantilever more than 24 inches (607 mm) beyond the foundation or bearing wall below.
3. Wall height shall not be greater than 10 feet (2743 mm).

4. The building shall have a roof eave-to-ridge height of 15 feet (4572 mm) or less.
5. All exterior walls shall have gypsum board with a minimum thickness of $^1/_2$ inches (12.7 mm) installed on the interior side fastened in accordance with Table R702.3.5.
6. The structure shall be located where the basic wind speed is less than or equal to 90 mph (40 m/s), and the Exposure Category is A or B.
7. The structure shall be located in Seismic Design Category of A, B or C for detached one- and two-family dwellings or Seismic Design Category A or B for townhouses.
8. Cripple walls shall not be permitted in two-story buildings.

R602.12.1 Circumscribed rectangle. Required bracing shall be determined by circumscribing a rectangle around the entire building on each floor as shown in Figure R602.12.1. The rectangle shall surround all enclosed offsets and projections such as sunrooms and attached garages. Open structures, such as carports and decks shall be permitted to be excluded. The rectangle shall have no side greater than 60 feet (18 288 mm), and the ratio between the long side and short side shall be a maximum of 3:1.

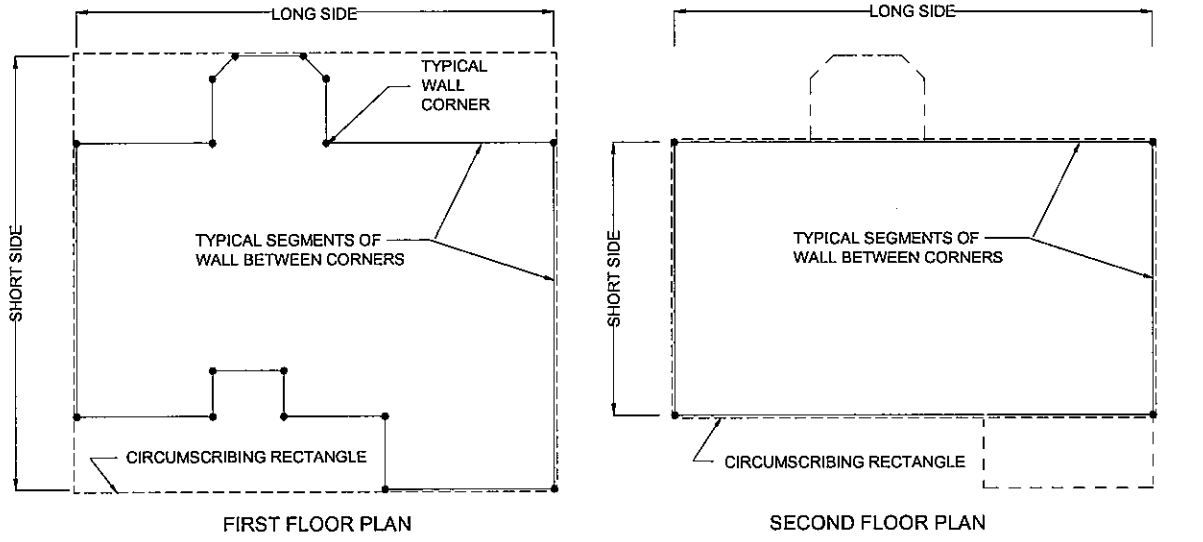


FIGURE R602.12.1
RECTANGLE CIRCUMSCRIBING AN ENCLOSED BUILDING

R602.12.2 Sheathing materials. The following sheathing materials installed on the exterior side of exterior walls shall be used to construct a bracing unit as defined in Section R602.12.3. Mixing materials is prohibited.

1. Wood structural panels with a minimum thickness of $^3/_8$ inch (9.5 mm) fastened in accordance with Table R602.3(3).
2. Structural fiberboard sheathing with a minimum thickness of $^1/_2$ inch (12.7 mm) fastened in accordance with Table R602.3(1).

R602.12.3 Bracing unit. A bracing unit shall be a full-height sheathed segment of the exterior wall with no openings or vertical or horizontal offsets and a minimum length as specified below. Interior walls shall not contribute toward the amount of required bracing. Mixing of Items 1 and 2 below is prohibited on the same story.

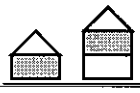
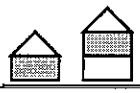
1. Where all framed portions of all exterior walls are sheathed in accordance with Section R602.12.2, including wall areas between bracing units, above and below openings and on gable end walls, the minimum length of a bracing unit shall be 3 feet (914 mm).
2. Where the exterior walls are braced with sheathing panels in accordance with Section R602.12.2 and areas between bracing units are covered with other materials, the minimum length of a bracing unit shall be 4 feet (1219 mm).

R602.12.3.1 Multiple bracing units. Segments of wall compliant with Section R602.12.3 and longer than the minimum bracing unit length shall be considered as multiple bracing units. The number of bracing units shall be determined by dividing the wall segment length by the minimum bracing unit length. Full-height sheathed segments of

wall narrower than the minimum bracing unit length shall not contribute toward a bracing unit except as specified in Section R602.12.6.

R602.12.4 Number of bracing units. Each side of the circumscribed rectangle, as shown in Figure R602.12.1, shall have, at a minimum, the number of bracing units per Table R602.12.4 placed on the parallel exterior walls facing the side of the rectangle. Bracing units shall then be placed using the distribution requirements specified in Section R602.12.5.

TABLE R602.12.4
MINIMUM NUMBER OF BRACING UNITS ON EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE

STORY LEVEL	EAVE-TO RIDGE HEIGHT (FEET)	MINIMUM NUMBER OF BRACING UNITS ON EACH LONG SIDE [a,b]						MINIMUM NUMBER OF BRACING UNITS ON EACH SHORT SIDE [a,b]					
		Length of short side (ft) [c]						Length of long side (ft) [c]					
		10	20	30	40	50	60	10	20	30	40	50	60
	10	1	2	2	2	3	3	1	2	2	2	3	3
		2	3	3	4	5	6	2	3	3	4	5	6
	15	1	2	3	3	4	4	1	2	3	3	4	4
		2	3	4	5	6	7	2	3	4	5	6	7

For SI: 1 ft = 304.8 mm

a. Interpolation shall not be permitted.

b. Cripple walls or wood-framed basement walls in a walk-out condition of a one-story structure shall be designed as the first floor of a two-story house.

c. Actual lengths of the sides of the circumscribed rectangle shall be rounded to the next highest unit of 10 when using this table.

R602.12.5 Distribution of bracing units. The placement of bracing units on exterior walls shall meet all of the following requirements as shown in Figure R602.12.5.

1. A bracing unit shall begin no more than 12 feet (3658 mm) from any wall corner.
2. The distance between adjacent edges of bracing units shall be no greater than 20 feet (6096 mm).
3. Segments of wall greater than 8 feet (2438 mm) in length shall have a minimum of one bracing unit.

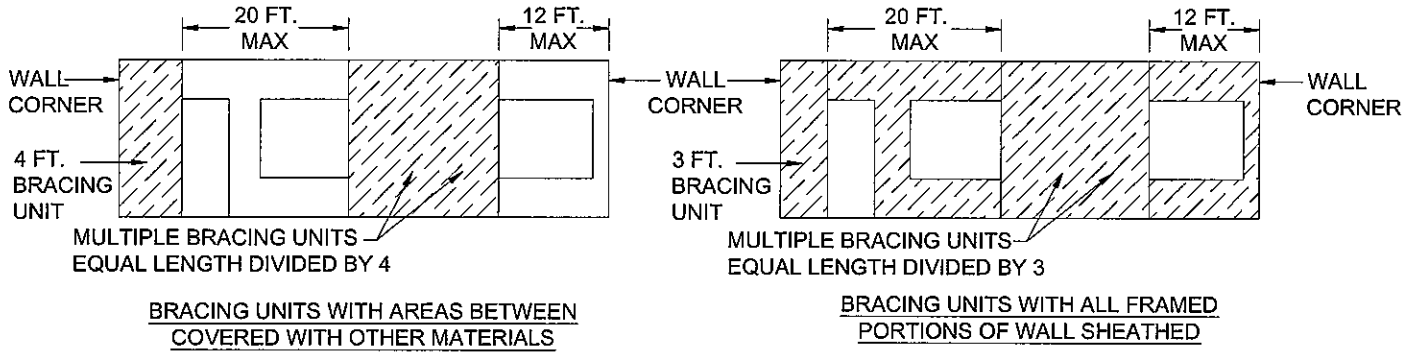


FIGURE R602.12.5
BRACING UNIT DISTRIBUTION

R602.12.6 Narrow panels. The bracing methods referenced in Section R602.10 and specified in Sections R602.12.6.1 through R602.12.6.3 shall be permitted when using simplified wall bracing.

R602.12.6.1 Method CS-G. Braced wall panels constructed as Method CS-G in accordance with Tables R602.10.4.1 and R602.10.5 shall be permitted for one-story garages when all framed portions of all exterior walls are sheathed with wood structural panels. Each CS-G panel shall be equivalent to 0.5 bracing units.

R602.12.6.2 Method CS-PF. Braced wall panels constructed as Method CS-PF in accordance with Section R602.10.6.4 shall be permitted when all framed portions of all exterior walls are sheathed with wood structural panels. Each CS-PF panel shall equal 0.5 bracing units. A maximum of four CS-PF panels shall be permitted on all the segments of walls parallel to each side of the circumscribed rectangle.

R602.12.6.3 Methods PFH and PFG. Braced wall panels constructed as Method PFH, in accordance with Section R602.10.6.2, and PFG, in accordance with Section R602.10.6.3, shall be permitted when bracing units are constructed using wood structural panels. Each PFH panel shall equal one bracing unit, and each PFG shall equal 0.75 bracing units.

R602.12.7 Lateral support. For bracing units located along the eaves, the vertical distance from the outside edge of the top wall plate to the roof sheathing above shall not exceed 9.25 inches (235 mm) at the location of a bracing unit unless lateral support is provided in accordance with Section R602.10.8.1.

R602.12.8 Stem walls. Masonry stem walls with a height and length of 48 inches (1219 mm) or less supporting a bracing unit or a Method CS-G, CS-PF or PFG braced wall panel shall be constructed in accordance with Figure R602.10.9. Concrete stem walls greater than 12 inches (305 mm) tall and less than 6 inches (152 mm) thick shall have reinforcement sized and located in accordance with Figure R602.10.9.

13. Delete Section R602.12.

14. Edit Section R703.7 as follows:

R703.7 Stone and masonry veneer, general. Stone and masonry veneer shall be installed in accordance with this chapter, Table R703.4 and Figure R703.7. These veneers installed over a backing of wood or cold-formed steel shall be limited to the first story above-grade and shall not exceed 5 inches (127 mm) in thickness. See ~~Section~~ Tables R602.10.3(3)~~12~~ and R602.10.3(4) for wall bracing requirements for masonry veneer for wood framed construction and Section R603.9.5 for wall bracing requirements for masonry veneer for cold formed steel construction.

15. Edit Table R802.11 as follows:

TABLE R802.11
REQUIRED STRENGTH OF TRUSS OR RAFTER CONNECTIONS TO RESIST WIND UPLIFT FORCES [a, b, c, e, f]
(Pounds per connection)

(No change to table values.)

a. through e. (no change)

~~f. For wall to wall and wall to foundation connections, the capacity of the uplift connector is permitted to be reduced by 100 pounds for each full wall above. (For example, if a 600 pound rated connector is used on the roof framing, a 500 pound rated connector is permitted at the next floor level down.)~~

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change Nos. C-310.6(Appendix O)(a) and (b)

Nature of Change:

Two proposals to use Appendix O of the International Residential Code, the first for gray water recycling systems and the second for both gray water recycling systems and rain water re-use.

Proponent: Guy Tomberlin, Fairfax County Building Department, representing VPMIA and VBCOA's Plumbing/Mechanical/Fuel Gas Committees for (a) and representing only himself for (b)

Staff Comments:

Appendix O of the IRC, for gray water recycling systems, was added to the IRC in the 2006 edition. Virginia did not make it part of the USBC. This issue has been discussed at the workgroup meetings and the first proposal is to provide standards for the voluntary use of gray water recycling systems. The second proposal is to also use the appendix for rain water re-use, which essentially uses the same technology as gray water systems. The Department has formed a sub-workgroup of state agency representatives from the Department of Environmental Quality, the Department of Conservation and Recreation and the Department of Health and other interested parties to determine whether functional design issues are present and need to be addressed, such as protection of the potable water supply outside of a building or structure and the disposal of re-used gray water or rain water. The sub-workgroup is still meeting to develop recommendations concerning these proposals.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-310.6 (Appendix O)(a)

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Guy Tomberlin

Representing: VA Plumbing and Mechanical Inspectors Association and VA Building and Code Officials Association Plumbing/Mechanical/Fuel Gas Committees

Mailing Address: 12055 Government Center Parkway, Suite 630
Fairfax, VA 22035

Email Address: guy.tomberlin@fairfaxcounty.gov Telephone Number: 703-324-1611

Proposal Information Include Appendix

Code(s) and Section(s): Incorporate Appendix O of the IRC into the body of the code.

Proposed Change (including all relevant section numbers, if multiple sections):

New USBC/IRC **Section R329.1 Use of Appendix O for Gray water recycling systems.** In addition to the other applicable provisions of this code, gray water recycling systems shall comply with the provisions in Appendix O.

Supporting Statement (including intent, need, and impact of the proposal): This technology has developed into a system that results in a safe installation with a huge energy conserving advantage. In today's "Green" environment this is a much needed step in the right direction for plumbing systems. Currently being located in an Appendix results in the requirements for a code modification review each time one of these systems is proposed. Once this option is inserted into the body of the code it becomes a designers choice whether to take advantage of recycling or not. This proposal has also been submitted on the National level. The impact is this creates another option for industry to utilize, enabling greater energy/water savings.

Submittal Information

Date Submitted: July 2, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-310.6 (Appendix O)(b)

Proponent Information (Check one): X☐Individual Government Entity ☐Company

Name: Guy Tomberlin Representing: Myself

Mailing Address: 12055 Government Center Parkway, Suite 630
Fairfax, VA 22035

Email Address: guy.tomberlin@fairfaxcounty.gov Telephone Number: 703-324-1611

Proposal Information Include Appendix into the main body of the code

Code(s) and Section(s): Incorporate Appendix O of the IRC into the body of the code.

Proposed Change (including all relevant section numbers, if multiple sections):

New USBC/IPC

Section R329.1 Use of Appendix C for Gray water recycling systems. In addition to the other applicable provisions of this code, gray water recycling systems shall comply with the provisions in Appendix C of the IPC.

329.1.2 Rain water re-use. Where approved rainwater re-use shall be permitted when installed in accordance with the IPC Appendix C provisions for gray water recycling systems. Rainwater and gray water systems shall not be interconnected.

Note to staff – renumber existing sections accordingly.

Supporting Statement (including intent, need, and impact of the proposal): This technology has developed into a system that results in a safe installation with a huge energy conserving advantage. In today's "Green" environment this is a much needed step in the right direction for plumbing systems. Currently being located in an Appendix results in the requirements for a code modification review each time one of these systems is proposed. Once this option is inserted into the body of the code it becomes a designers choice whether to take advantage of recycling or not. The words "where approved" are incorporated into the text due to the facts that other agencies may be involved in the decision making process such as Health Dept or Department of Environmental Quality. The impact is this creates another option for industry to utilize, enabling greater energy/water savings.

Submittal Information

Date Submitted: July 2, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change Nos. C-403.4.4(a) and C-403.4.4(b)

Nature of Change:

Two proposals to coordinate the emergency communication requirements in the 2006 USBC with the 2009 IBC.

Proponent: J. Kenneth Payne, Jr., AIA, representing VSAIA (C-403.4.4(a)) and Shaun Pharr, representing the Apartment and Office Building Association of Metropolitan Washington DC and the Virginia Apartment Management Association (C-403.4.4(b))

Staff Comments:

While staff did coordinate the 2006 emergency communication requirements with the 2009 IBC in the proposed regulations, Section 403.4.4 in the IBC was inadvertently overlooked, so Mr. Payne's proposal is appropriate except that there is no need to renumber the subsequent subsections as that would cause problems with cross-references. Mr. Pharr's proposal is identical except that he recommends deleting Section 510 in the IFC in addition to Section 403.4.4 of the IBC. That is unnecessary as the proposed regulations already renumber the IFC provision to keep the 2006 requirements of the Virginia Statewide Fire Prevention Code for emergency communications.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-403.4.4(a)

Proponent Information (Check one): ☒Individual ☐Government Entity ☐Company

Name: J. Kenneth Payne, Jr., AIA Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, Virginia 23230

Email Address: kpayne@moseleyarchitects.com Telephone Number: 804-794-7555

Proposal Information

Code(s) and Section(s): 2009 IBC Section 403.4.4 – Emergency responder radio coverage

Proposed Change (including all relevant section numbers, if multiple sections):

~~**[F] 403.4.4 Emergency responder radio coverage.** Emergency responder radio coverage shall be provided in accordance with Section 510 of the *International Fire Code*.~~

Renumber subsequent 403.4 subsection numbers and coordinate with cross references throughout the IBC.

Supporting Statement (including intent, need, and impact of the proposal):

Per 2006 VCC Section 913.1 and the definition of *emergency communication equipment*, emergency responder radio coverage is not included in the VCC requirements. Therefore, the above referenced section in the IBC does not comport with the VCC.

Submittal Information

Date Submitted: January 19, 2010 (revised)

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-403.4.4(6)

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☒ Company

Name: W. Shaun Pharr

Representing: The Apartment and Office Building Assn. of Metropolitan Washington DC and the Virginia Apartment Management Association

Mailing Address: 1050 17th Street NW Suite 300 Washington, DC 20036

Email Address: spharr@aoba-metro.org

Telephone Number: (202) 296-3390

Proposal Information

Code(s) and Section(s): IBC Sec. 403.4.4, IFC 510

Proposed Change (including all relevant section numbers, if multiple sections):
Delete both sections

Supporting Statement (including intent, need, and impact of the proposal):
The provisions currently found in the VSBC are the product of extensive negotiations and compromises engaged in by all keyVirginia stakeholders in a previous code cycle-- something which cannot be said for the provisions in the new IBC/IFC. The current VSBC provisions should be retained to avoid confusion and maintain continuity.

Submittal Information

Date Submitted: January 25, 2010

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
Main Street Center
600 E. Main St., Suite 300
Richmond, VA 23219

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-424.4

Nature of Change:

To correlate skirting requirements for manufactured homes with new federal HUD requirements.

Proponent: DHCD Staff

Staff Comments:

While staff revised the USBC requirements for manufactured home installations to correlate the new HUD requirements in the proposed 2009 USBC, there is a requirement for skirting in state law which also needed to be correlated. This proposal simply recognizes the state law and makes it clear that the federal requirements also apply.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-424.4

Proponent Information (Check one): ☐ Individual ☒ Government Entity ☐ Company

Name: Staff

Representing: DHCD SBCAO

Mailing Address: Main Street Centre, 600 E. Main St., Suite 300, Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov

Telephone Number: 804-371-7150

Proposal Information

Code(s) and Section(s): Virginia Construction Code Section 424.4.

Proposed Change (including all relevant section numbers, if multiple sections):
Change Section 424.4 of the IBC to read: Skirting requirements for manufactured homes. As used in this section, "skirting" means a weather-resistant material used to enclose the space from the bottom of the manufactured home to grade. In accordance with §36-99.8 of the Code of Virginia, manufactured homes installed or relocated shall have skirting installed within 60 days of occupancy of the home. Skirting materials shall be durable, suitable for exterior exposures and installed in accordance with the manufacturer's installation instructions. Skirting shall be secured as necessary to ensure stability, to minimize vibrations, to minimize susceptibility to wind damage and to compensate for possible frost heave. Each manufactured home shall have a minimum of one opening in the skirting providing access to any water supply or sewer drain connections under the home. Such openings shall be a minimum of 18 inches (457 mm) in any dimension and not less than three square feet (.28m²) in area. The access panel or door shall not be fastened in a manner requiring the use of a special tool to open or remove the panel or door. On-site fabrication of the skirting by the owner or installer of the home shall be acceptable, provided that the material meets the requirements of this code. In addition, as a requirement of this code, skirting for the installation and set-up of a new manufactured home shall also comply with the requirements of 24 CFR Part 3285 - Model Manufactured Home Installation Standards.

Supporting Statement (including intent, need, and impact of the proposal):
The purpose of this change is to add language that will bring the requirements for the installation of skirting, for new homes, in line with the requirements as set forth by the federal standards. This change is necessary in order to comply with §36-85.5 of the Code of Virginia, whereby, the Department of Housing and Community Development (DHCD), acting as the State Administrative Agency (SAA) for the U.S. Department of Housing and Urban Development (HUD), is required to enforce the Federal Standards with respect to manufactured homes in Virginia. This change provides for an installation that is in compliance with the federal standards and it will provide for cross-ventilation, in the crawl space areas, and the ability to control that ventilation which will reduce the possibility of moisture problems occurring under and within manufactured homes.

Submittal Information

Date Submitted: 1-5-2010

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-915.1

Nature of Change:

Minor and clarification changes to the emergency communication equipment requirements.

Proponent: J. Kenneth Payne, Jr., AIA, representing VSAIA

Staff Comments:

The proposal stems from discussions at the workgroup meetings and from an inquiry to the State Building Code Technical Review Board concerning the application of the emergency communication equipment requirements implemented in the 2006 USBC and SFPC. While the proposal was not drafted until after discussions, the change appears to be in line with discussions and would simply clarify the application of the current provisions.

COMMENT RECEIVED

Beginning on Page No. 85

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-915.1

Proponent Information (Check one): ☒Individual ☐Government Entity ☐Company

Name: J. Kenneth Payne, Jr., AIA Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, Virginia 23230

Email Address: kpayne@moseleyarchitects.com Telephone Number: 804-794-7555

Proposal Information

Code(s) and Section(s): 2009 VCC Section 915.0 – In-Building Emergency Communications Coverage

Proposed Change (including all relevant section numbers, if multiple sections):

915.1 General. For localities utilizing public safety wireless communications, dedicated infrastructure to accommodate and perpetuate continuous ~~in~~-building emergency communication equipment to allow emergency public safety personnel to send and receive emergency communications shall be provided in new buildings and structures in accordance with this section.

Exceptions:

1. Buildings of Use Groups A-5, I-4, within dwelling units of R-2, R-3, R-4, R-5, and U.
2. Buildings of Type IV and V construction without basements, that are not considered unlimited area buildings in accordance with Section 507.
3. Above grade single story buildings of less than 20,000 square feet.
4. Buildings or leased spaces occupied by federal, state, or local governments, or the contractors thereof, with security requirements where the building official has approved an alternative method to provide emergency communication equipment for emergency public safety personnel.
5. Where the owner provides technological documentation from a qualified individual that the structure or portion thereof does not impede emergency communication signals.
6. Buildings and structures located in localities that do not provide the necessary equipment to connect to the radiating cable to make an in-building emergency communication system functional.

~~**915.2 Where required.** For localities utilizing public safety wireless communications, new buildings and structures shall be equipped throughout with dedicated infrastructure to accommodate and perpetuate continuous emergency communication.~~

915.2.~~2~~.1.1 Installation. The building owner shall install radiating cable ~~systems~~, such as coaxial cable or equivalent. The radiating cable shall be installed in dedicated conduits, raceways, plenums, attics, or roofs, compatible for these specific installations as well as other applicable provisions of this code. The locality shall be responsible for the installation of any additional communication equipment required for the operation of the system.

915.2.1.2 Operations. The locality will assume all responsibilities for the ~~installation~~ operation and maintenance of ~~additional~~ the emergency communication equipment. The building owner shall provide sufficient operational space within the building to allow the locality access to and the ability to operate in-building emergency communication equipment. ~~To allow the locality access to and the ability to operate such equipment, sufficient space within the building shall be provided.~~

915.2.1.3 Inspection. In accordance with Section 113.3, all installations shall be inspected prior to concealment.

915.2 3 Acceptance test. Upon completion of installation, after providing reasonable notice to the owner or their representative, emergency public safety personnel shall have the right during normal business hours, or other mutually agreed upon time, to enter onto the property to conduct field tests to verify that the required level of radio coverage is present at no cost to the owner. Any noted deficiencies in the installation of the radiating cable or operational space shall be provided in an inspection report to the owner to the owner or the owner's representative.

Supporting Statement (including intent, need, and impact of the proposal):

The proposed language will prevent the use of exception #2 for buildings of Type IV and V construction when the building is constructed as unlimited area. Due to the changes regarding unlimited area buildings that allow type IV and V construction to use the unlimited area provisions the change has become necessary.

It is believed the intent of Exception #2 was to exempt wood frame buildings; however, it is believed it was not the intent to allow unlimited area buildings to be exempt (e.g., "big-box" buildings like Target, Wal-Mart, etc.), especially those of Type IV and V construction. Construction Types IV and V are usually constructed out of wood (which does *not* tend to affect the communication equipment); however, those types of construction could also be constructed out of steel and/or concrete/CMU (which *do* tend to affect the communication equipment). Those types of buildings could make the communications malfunction.

The proposed language also clarifies that the *locality* is responsible for supplying the equipment. It also includes an exception for localities that do not have the money or desire to buy and install the extra equipment necessary to make the system fully functional.

Submittal Information

Date Submitted: January 20, 2010

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): ☒ Individual ☐ Government Entity ☐ Company

Name: J. Kenneth Payne, Jr., AIA Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, Virginia 23230

Email Address: kpayne@moseleyarchitects.com Telephone Number: 804-794-7555

Proposal Information

Code(s) and Section(s): 2009 VCC Section 915.0 – In-Building Emergency Communications Coverage

Proposed Change (including all relevant section numbers, if multiple sections):

915.1 General. For localities utilizing public safety wireless communications, dedicated infrastructure to accommodate and perpetuate continuous ~~i~~in-building emergency communication equipment to allow emergency public safety personnel to send and receive emergency communications shall be provided in new buildings and structures in accordance with this section.

Exceptions:

1. Buildings of Use Groups A-5, I-4, within dwelling units of R-2, R-3, R-4, R-5, and U.
2. Buildings of Type IV and V construction without basements, that are not considered unlimited area buildings in accordance with Section 507.
3. Above grade single story buildings of less than 20,000 square feet.
4. Buildings or leased spaces occupied by federal, state, or local governments, or the contractors thereof, with security requirements where the building official has approved an alternative method to provide emergency communication equipment for emergency public safety personnel.
5. Where the owner provides technological documentation from a qualified individual that the structure or portion thereof does not impede emergency communication signals.

~~**915.2 Where required.** For localities utilizing public safety wireless communications, new buildings and structures shall be equipped throughout with dedicated infrastructure to accommodate and perpetuate continuous emergency communication.~~

915.2.1.1 Installation. The building owner shall install radiating cable ~~systems~~, such as coaxial cable or equivalent. The radiating cable shall be installed in dedicated conduits, raceways, plenums, attics, or roofs, compatible for these specific installations as well as other applicable provisions of this code. The locality shall be responsible for the installation of any additional communication equipment required for the operation of the system.

915.2.1.2 Operations. The locality will assume all responsibilities for the ~~installation~~ operation and maintenance of ~~additional~~ the emergency communication equipment. The building owner shall provide sufficient operational space within the building to allow the locality access to and the ability to operate in-building emergency communication equipment. ~~To allow the locality access to and the ability to operate such equipment, sufficient space within the building shall be provided.~~

915.2.1.3 Inspection. In accordance with Section 113.3, all installations shall be inspected prior to concealment.

915.2 3 Acceptance test. Upon completion of installation, after providing reasonable notice to the owner or their representative, emergency public safety personnel shall have the right during normal business hours, or other mutually agreed upon time, to enter onto the property to conduct field tests to verify that the required level of radio coverage is present at no cost to the owner. Any noted deficiencies in the installation of the radiating cable or operational space shall be provided in an inspection report to the owner to the owner or the owner's representative.

Supporting Statement (including intent, need, and impact of the proposal):

The proposed language will prevent unlimited area buildings of Type IV and V construction from complying with 2009 VCC Section 915. Due to the changes regarding unlimited area buildings in the 2009 IBC, and its incorporation of many more Use Groups and allowances for unlimited area buildings, a change has become necessary.

It is believed the intent of Exception #2 was to exempt wood frame buildings; however, it is believed it was not the intent to allow unlimited area buildings to be exempt (e.g., "big-box" buildings like Target, Wal-Mart, etc.), especially those of Type IV and V construction. Construction Types IV and V are usually constructed out of wood (which does *not* tend to affect the communication equipment); however, those types of construction could also be constructed out of steel and/or concrete/CMU (which *do* tend to affect the communication equipment). Those types of buildings could make the communications malfunction.

The proposed language also clarifies that the *locality* is responsible for supplying the equipment.

Submittal Information

Date Submitted: January 20, 2010 (REVISED: 04.08.10)

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-1007.7

Nature of Change:

To clarify the requirements of the IBC for exterior areas for assisted rescue.

Proponent: Ron Clements, representing the Chesterfield County Building Department

Staff Comments:

The proposal was submitted in time for review by several of the workgroups and no opposition was voiced. The proposal has also been submitted to the ICC process and was successful in the first round of hearings for the 2012 IBC.

COMMENT RECEIVED

Beginning on Page No. 90

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C - 1007.7

Proponent Information (Check one): ☒Individual ☒Government Entity ☐Company

Name: Ron Clements Representing: Chesterfield County Building Inspection Dept.

Mailing Address: 9800 Government Center Parkway

Email Address: clementsro@chesterfield.gov Telephone Number: (804) 751-4163

Proposal Information

Code(s) and Section(s): IBC **1007.7**

Proposed Change (including all relevant section numbers, if multiple sections):

Revise as follows:

1007.7 (IFC 1007.7) Exterior area for assisted rescue. The exterior area for assisted rescue ~~must be open to the outside air and~~ shall be an area provided on the exterior landing serving an exit door on an accessible route. The exterior area of assisted rescue shall meet the size and access requirements of Section 1007.6.1. ~~Separation walls shall comply with the requirements of Section 704 for exterior walls. Where walls or openings are between the area for assisted rescue and the interior of the building, the building exterior walls within 10 feet (3048 mm) horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 1 hour.~~ Exterior walls separating the exterior area of assisted rescue from the interior of the building shall have a minimum fire resistance rating of 1 hour, rated for exposure to fire from the inside. The fire resistance rated exterior wall construction shall extend horizontally 10 feet (3048mm) beyond the landing on either side of the landing or equivalent fire resistance rated construction is permitted to extend out perpendicular to the exterior wall 4 feet(1220 mm) minimum on the side of the landing. The fire resistance rated construction shall extend vertically from the ground to a point 10 feet (3048 mm) above the floor level of the area for assisted rescue or to the roof line, whichever is lower. Openings within such fire resistance rated exterior walls shall be protected in accordance with section 715 ~~by opening protectives having a fire protection rating of not less than 3/4 hour. This construction shall extend vertically from the ground to a point 10 feet (3048 mm) above the floor level of the area for assisted rescue or to the roof line, whichever is lower.~~

1007.7.1 (IFC 1007.7.1) Openness. The exterior area for assisted rescue shall be at least 50 percent open, and the open area ~~above the guards~~ shall be so distributed as to minimize the accumulation of smoke or toxic gases.

1007.7.2 (IFC 1007.7.2) Exterior ~~exit~~ stairway. Exterior ~~exit~~ stairways that are part of the means of egress for the exterior area for assisted rescue shall provide a clear width of 48 inches (1219 mm) between handrails.

Supporting Statement (including intent, need, and impact of the proposal):
The first text strike-through removed redundant language regarding openness to the exterior. The requirement for openness is provided in detail in section 1007.7.1 therefore the statement is redundant in the first sentence of 1007.7. The added text to the first sentence clearly states that the exterior area for assisted rescue is an area on an exterior landing serving an exit door on an accessible route. This clarifies that the area is on an exterior landing, that it is served by an exit door therefore this is part of the exit discharge and that it is on an accessible route, which guarantees that there is an accessible route to get to the exterior area for assisted rescue. The current language is ambiguous about exactly how the exterior area for assisted rescue fits into the overall means of egress system. The second strike text strike-through removes confusing text that states "building exterior walls within 10 feet (3048 mm) horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating". That language suggests that some portion of

the separation wall is non rated but the wall beyond the non rated portion is to be rated? It is very confusing text that is corrected in the following new text proposed. The new text attempts to capture the basic technical requirements of the current section with two technical changes. The first was the added text that allows the rated construction to extend out perpendicular from the building on the end of the landing. This is a method that we have used to protect exterior areas for assisted rescue adjacent to, and within 10 feet of, loading dock doors to avoid having to provide a ¾ hour protected opening at the loading dock door. The 4 foot minimum dimension is based on the 4 foot protection required for similar types of exposure protection specified in sections 706.5 Exception #2 and 3, and 706.5.1 exception #1. The second technical change is the requirement for the rating to be for inside exposure. This is based on the current method for prescribing exterior wall fire ratings in section 705.5. Inside exposure is specified in this case since the protection intended is from a fire inside the building. The last change to section 1007.7 is to refer opening protection of the fire rated construction to section 715. Section 715 has the complete opening protection provisions necessary to properly protect the openings. Having the opening protection specification in section 1007.7 without all of the supporting sections provided in section 715 is technically inaccurate. Table 715.4 requires ¾ hour protection in exterior walls so no amendment to the table is required and additionally the current text could be mis-applied to allow ¾ hour opening protection when the wall had a higher fire rating for another purpose, which would not occur with a direct reference to section 715.

Section 1007.7.1 has the text "above the guards" removed because the text accomplishes the performance requirement intended without that text. Additionally an exterior area for assisted rescue could be constructed without a guardrail in some circumstances such as a grade level landing that connects to the public way with a stair in the exit discharge. Lastly "guard" is not a defined term.

Section 1007.7.2 uses the term exterior "exit" stair. Exterior exit stairs are regulated by section 1026 and are an exit component. The exterior stair serving an exterior area for assisted rescue is typically an exit discharge component. If a true section 1026 exit stair is used to serve an exterior area for assisted rescue per 1007.2 exception #2 removal of the work "exit" would not pose a problem because the more generic term "exterior stair" could be applied to an exit stair. Based on these points "exit" is proposed to be deleted from 1007.7.2.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): ☒Individual ☒Government Entity ☐Company

Name: Ron Clements Representing: Chesterfield County Building Inspection Dept.

Mailing Address: 9800 Government Center Parkway

Email Address: clementsro@chesterfield.gov Telephone Number: (804) 751-4163

Proposal Information

Code(s) and Section(s): IBC **1007.7**

1007.2, 1007.7, 1007.7.1, 1007.7.2 (IFC [B] 1007.2, 1007.7, 1007.7.1, 1007.7.2)

Proponent: Ron Clements, Chesterfield County Virginia Building Inspection Department, Representing Chesterfield County Virginia Building Inspection Department

Revise as follows:

1007.2 Continuity and components. Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components:

1. Accessible routes complying with Section 1104.
2. Interior exit stairways complying with Sections 1007.3 and 1022.
3. Exterior exit stairways complying with Sections 1007.3 and 1026 and serving levels other than the level of exit discharge.
4. Elevators complying with Section 1007.4.
5. Platform lifts complying with Section 1007.5.
6. Horizontal exits complying with Section 1025.
7. Ramps complying with Section 1010.
8. Areas of refuge complying with Section 1007.6.
9. Exterior area for assisted rescue complying with Section 1007.7 serving exits at the level of exit discharge.

~~**Exceptions:**~~

~~1. Where the exit discharge is not accessible, an exterior area for assisted rescue must be provided in accordance with Section 1007.7.~~

~~2. Where the exit stairway is open to the exterior, the accessible means of egress shall include either an area of refuge in accordance with Section 1007.6 or an exterior area for assisted rescue in accordance with Section 1007.7.~~

1007.7 (IFC [B] 1007.7) Exterior area for assisted rescue. The exterior area for assisted rescue ~~must be open to the outside air and~~ shall be an area provided on the exterior landing serving an exit door on an accessible route. The exterior area of assisted rescue shall meet the size and access requirements of Section 1007.6.1.

1007.7.1 Separation. ~~Separation walls shall comply with the requirements of Section 705 for exterior walls. Where walls or openings are between the area for assisted rescue and the interior of the building, the building exterior walls within 10 feet (3048 mm) horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 1 hour.~~ Exterior walls separating the exterior area of assisted rescue from the interior of the building shall have a minimum fire resistance rating of 1 hour, rated for exposure to fire from the inside. The fire resistance rated exterior wall construction shall extend horizontally 10 feet (3048mm) beyond the landing on either side of the landing or equivalent fire resistance rated construction is permitted to extend out perpendicular to the exterior wall 4 feet(1220 mm) minimum on the side of the landing. The fire resistance rated construction shall extend vertically from the ground

to a point 10 feet (3048 mm) above the floor level of the area for assisted rescue or to the roof line, whichever is lower. Openings within such fire resistance rated exterior walls shall be protected in accordance with section 715 ~~by opening protectives having a fire protection rating of not less than 3/4 hour. This construction shall extend vertically from the ground to a point 10 feet (3048 mm) above the floor level of the area for assisted rescue or to the roof line, whichever is lower.~~

1007.7.4 .2(IFC [B] 1007.7.1) Openness. The exterior area for assisted rescue shall be at least 50 percent open, and the open area ~~above the guards~~ shall be so distributed as to minimize the accumulation of smoke or toxic gases.

1007.7.2 .3(IFC [B] 1007.7.2) Exterior ~~exit~~ stairway. Exterior ~~exit~~ stairways that are part of the means of egress for the exterior area for assisted rescue shall provide a clear width of 48 inches (1219 mm) between handrails.

Reason: The intent of this proposal is to clarify where the exterior are for assisted rescue is intended to be utilized and provide better code language for the requirements.

Section 1007.2. The addition language to item 3 is to indicate that the provisions for exterior exit stairways are for stairways from upper floors or basements, not the couple of steps somewhere along the path of exit discharge. If an area of refuge inside a building can be a component of an accessible means of egress, the exterior area of assisted rescue should also be one of that list, thus the addition of item 9. The exceptions are no longer needed with the revisions to the list.

Section 1007.7 - The first text strike-through removed redundant language regarding openness to the exterior. The requirement for openness is provided in detail in section 1007.7.1 therefore the statement is redundant in the first sentence of 1007.7. The added text to the first sentence clearly states that the exterior area for assisted rescue is an area on an exterior landing serving an exit door on an accessible route. This clarifies that the area is on an exterior landing, that it is served by an exit door therefore this is part of the exit discharge and that it is on an accessible route, which guarantees that there is an accessible route to get to the exterior area for assisted rescue. The current language is ambiguous about exactly how the exterior area for assisted rescue fits into the overall means of egress system. The second strike text strike-through removes confusing text that states "building exterior walls within 10 feet (3048 mm) horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating". That language suggests that some portion of the separation wall is non rated but the wall beyond the non rated portion is to be rated? It is very confusing text that is corrected in the following new text proposed. The new text attempts to capture the basic technical requirements of the current section with two technical changes. The first was the added text that allows the rated construction to extend out perpendicular from the building on the end of the landing. This is a method that we have used to protect exterior areas for assisted rescue adjacent to, and within 10 feet of, loading dock doors to avoid having to provide a ¾ hour protected opening at the loading dock door. The 4 foot minimum dimension is based on the 4 foot protection required for similar types of exposure protection specified in sections 706.5 Exception #2 and 3, and 706.5.1 exception #1. The second technical change is the requirement for the rating to be for inside exposure. This is based on the current method for prescribing exterior wall fire ratings in section 705.5. Inside exposure is specified in this case since the protection intended is from a fire inside the building. The last change to section 1007.7 is to refer opening protection of the fire rated construction to section 715. Section 715 has the complete opening protection provisions necessary to properly protect the openings. Having the opening protection specification in section 1007.7 without all of the supporting sections provided in section 715 is technically inaccurate. Table 715.4 requires ¾ hour protection in exterior walls so no amendment to the table is required and additionally the current text could be mis-applied to allow ¾ hour opening protection when the wall had a higher fire rating for another purpose, which would not occur with a direct reference to section 715. This revision clarifies the original intent for the use of the exterior area of assisted rescue as a protected area serving an exit at the level of exit discharge where there is not be an accessible route to the public way.

Section 1007.7.1 has the text "above the guards" removed because the text accomplishes the performance requirement intended without that text. Additionally an exterior area for assisted rescue could be constructed without a guardrail in some circumstances such as a grade level landing that connects to the public way with a stair in the exit discharge. Lastly "guard" is not a defined term.

Section 1007.7.2 uses the term exterior "exit" stair. Exterior exit stairs are regulated by section 1026 and are an exit component. The exterior stair serving an exterior area for assisted rescue is typically an exit discharge component. If a true section 1026 exit stair is used to serve an exterior area for assisted rescue per 1007.2 exception #2 removal of the work "exit" would not pose a problem because the more generic term "exterior stair" could be applied to an exit stair. Based on these points "exit" is proposed to be deleted from 1007.7.2.

Cost Impact: This will reduce the cost of construction by reducing the confusion associated with interpreting the current exterior area for assisted rescue provisions.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-1020.1.6

Nature of Change:

To require stairways to be numbered in new buildings.

Proponent: John Catlett, Building Official for the City of Alexandria, representing himself

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

DEPT. OF HOUSING AND COMMUNITY DEVELOPMENT REGULATORY CHANGE FORM

(Use this form to submit changes to building and fire codes)

Address to submit to: DHCD, the Jackson Center 501 North Second Street Richmond, VA 23219-1321 Tel. No. (804) 371 – 7150 Fax No. (804) 371 – 7092 Email: bhcd@dhcd.state.va.us		Document No. C-1020.1.6 Committee Action: _____ BHCD Action: _____

Submitted by: John Catlett Representing: City of Alexandria

Address: 301 King Street, Alexandria, Va, 22314 Phone No.: (703.838.4360)

Regulation Title: Virginia New Construction Code Section No(s): IBC Section 1020.1.6

Proposed Change:

1020.1.6 Stairway identification and floor number signs. A sign shall be provided at identifying the location and at each floor landing in interior exit enclosures connecting more than three stories designating the floor level, the terminus of the top and bottom of the stair enclosure and the stair identification by a letter of the alphabet ~~of the stair~~. The signage shall also state the story of, and the direction to the exit discharge and the availability of roof access from the stairway for the fire department. The sign shall be located 5 feet (1524 mm) above the floor landing in a position that is readily visible when the doors are in the open and closed positions.

Supporting Statement: The code currently requires that a stairway be identified. This is so that an occupant can report their location in an emergency and the fire department can locate the appropriate stairway. Currently, there is no standardized method of identification. Some localities have misunderstood that both the floor and stair location should be designated by number. This code change will provide standardized guidance that the stair shall be identified by a letter and the floor designation by number.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-1301(401.3)

Nature of Change:

To delete the requirement for an energy certificate in the 2009 IRC and 2009 IECC.

Proponent: Guy Tomberlin, Fairfax County Building Department, representing VPMIA and VBCOA's Plumbing/Mechanical/Fuel Gas Committees

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-1301 (401.3)

Proponent Information (Check one): ☐Individual X Government Entity ☐Company

Name: Guy Tomberlin

Representing: VA Plumbing and Mechanical Inspectors Association and VA Building and Code Officials Association Plumbing/Mechanical/Fuel Gas Committees

Mailing Address: 12055 Government Center Parkway, Suite 630
Fairfax, VA 22035

Email Address: guy.tomberlin@fairfaxcounty.gov Telephone Number: 703–324–1611

Proposal Information

Code(s) and Section(s): IECC Section 401.3 Certificate. And IRC Section N1101.9 Certificate.

Proposed Change (including all relevant section numbers, if multiple sections): Delete IECC Section 401.3 Certificate, and IRC Section N1101.9 Certificate, in their entirety.

Supporting Statement (including intent, need, and impact of the proposal):
Technically these two sections are currently unenforceable as they can be classified as Administrative functions. The two submitting code committees agreed that these provisions added absolutely no value to increased energy efficiency. This section requires a certificate be placed on the electrical panel stating certain energy related building components such as R-values, U-factors etc... Unfortunately this is nothing more than a good idea with no energy conserving benefit what so ever. This information is no more useful than if the builder were required to place a label on the panel stating the joist size, framing wall sizes, etc or the type of plumbing and electrical fixtures. Yes it's nice to know but does it lend itself in anyway to increased energy conservation or enhanced building safety, no. In fact it will be create problems throughout the life of the building. For example what if the owner changes some components with out the benefit of permits and inspections, then sells the building and the next owner comes in years later to make adjustments and finds that the building is not what the certificate says it was? It may be better, what then? What does the code official do when the label contains the wrong information? Do they reject occupancy from someone moving into their new home? Lets face it when a building component needs to be replaced it is almost always financial economics and market availability that drives the decision on replacement items, not a certificate that was posted years prior. The certificate is completely useless for any and all practical purpose. In fact, it could easily cause a chaotic exercise that builders would have to deal with in the 11th hour. Finial inspections and occupancy are being withheld because this label may have not been posted. Lets not endorse rules and practice just because they are good ideas lets stay with the long standing fundamentals that the code is a minimum standard set in place to assure safety and uphold the concepts of energy conservation.

Submittal Information

Date Submitted: July 2, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-2803.1(403.3)

Nature of Change:

To add ventilation rates to the International Mechanical Code (IMC) to address areas where smoking is allowed, but are not considered smoking lounges.

Proponent: Shawn Strausbaugh, representing Arlington County

Staff Comments:

The proposal was not received in time to be vetted through the workgroup process; however, it resulted from discussions from a multi-jurisdictional group of mechanical inspection personnel to address how the IMC affects the implementation of the Virginia Indoor Clean Air Act. As the 2009 IMC assumes no smoking in areas other than smoking lounges, adjustments were needed to the ventilation rates to provide reasonable ventilation rates in those areas where smoking is permitted, but the concentration would not be as intense as in a smoking lounge. The proposal uses established ventilation rates from when the IMC did address smoking in areas other than smoking lounges.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-2803.1 (403.3)

Proponent Information (Check one): ☐ Individual ☒ Government Entity ☐ Company

Name: Shawn Strausbaugh Representing: Arlington County, VA

Mailing Address: 2100 Clarendon Blvd. suite 1000 10th floor Arlington, VA 22201

Email Address: sstrausbaugh@arlingtonva.us Telephone Number: 703-228-3842

Proposal Information

Code(s) and Section(s): IMC 403.3 as currently amended by the 2006 VUSBC

Proposed Change (including all relevant section numbers, if multiple sections): IMC 403.3 second paragraph: With the exception of smoking lounges and other designated areas where smoking is permitted the ventilation rates in Table 403.3 are based on the absence of smoking in occupiable spaces. ~~Where smoking is anticipated in a space other than a smoking lounge, the ventilation system serving the space shall be designed to provide ventilation over and above that required by Table 403.3 in accordance with accepted engineering practice~~

Add to table 403.3 under **public spaces**:
Lounges designated as an area where smoking is permitted, with footnote b, 30 cfm per person- people outdoor airflow rate in breathing zone cfm/person, 100 default occupant density #/1000 square feet.

Addt to table 403.3 Under **Food and Beverage service**:
Bars or cocktail lounges designated as an area where smoking is permitted, with footnote b, 30 cfm per person- people outdoor airflow rate in breathing zone cfm/person, 100 default occupant density #/1000 square feet.

Cafeteria or fast food designated as an area where smoking is permitted, with footnote b, 20 cfm per person- people outdoor airflow rate in breathing zone cfm/person, 100 default occupant density #/1000 square feet.

Dining rooms designated as an area where smoking is permitted, with footnote b, 20 cfm per person- people outdoor airflow rate in breathing zone cfm/person, 70 default occupant density #/1000 square feet.

Supporting Statement (including intent, need, and impact of the proposal): The purpose of this proposed change is to provide more precise, enforceable code language to IMC 403.3 other than using the current term "accepted engineering practice". The ventilation rates provided in the existing 2006 VUSBC are based on the absence of smoking in occupied areas, except for the "smoking lounges" classification. The existing code gives no direction to the required outdoor air ventilation rates for other designated areas where smoking is permitted, other than stating per "accepted engineering practice". The outdoor air rates added in this proposed change are taken from the 2006 IMC. The ventilation rates in the 2006 IMC are higher than those in the 2006 VUSBC because they are based on the presence of smoking in occupied areas. This proposal is simply taking current ventilation rates that were designed and based on the presence of smoking in occupied areas, and incorporating those rates into the VUSBC. Note that the rates shown in this proposed change are less than half of the required outdoor air ventilation required per person under the occupancy classification of "smoking lounge". This proposed change will add flexibility and cost saving to a currently restrictive code requirement by providing

previously approved, alternate ventilation rates to an otherwise silent code section. This change was created through several meetings of the Northern VA Inter –jurisdictional group that were held to reach a consensus on how the VA Indoor clean air act and the existing VUSBC were to be enforced. Based upon these meeting it was felt that the existing mechanical portion of the VUSBC needed to have defined outdoor air ventilation rates for smoking areas instead of permitting the use of accepted engineering practice that would result in numerous different interpretations, or restricting all areas designated for smoking to the occupancy classification of "Smoking lounge". Again note that all the added smoking areas as listed above were taken from previously approved rates from the 2006 IMC.

Submittal Information

Date Submitted: January 23, 2010

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
Main Street Centre
600 E. Main St., Ste. 300
Richmond, VA 23219

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change Nos. C-2901.1.1(Appendix C)(a) and (b)

Nature of Change:

Two proposals to use Appendix C of the International Plumbing Code (IPC), the first for gray water recycling systems and the second for both gray water recycling systems and rain water re-use.

Proponent: Guy Tomberlin, Fairfax County Building Department, representing VPMIA and VBCOA's Plumbing/Mechanical/Fuel Gas Committees for (a) and representing only himself for (b)

Staff Comments:

Appendix C of the IPC, for gray water recycling systems, was added to the IPC in the 2006 edition. Virginia did not make it part of the USBC. This issue has been discussed at the workgroup meetings and the first proposal is to provide standards for the voluntary use of gray water recycling systems. The second proposal is to also use the appendix for rain water re-use, which essentially uses the same technology as gray water systems. The Department has formed a sub-workgroup of state agency representatives from the Department of Environmental Quality, the Department of Conservation and Recreation and the Department of Health and other interested parties to determine whether functional design issues are present and need to be addressed, such as protection of the potable water supply outside of a building or structure and the disposal of re-used gray water or rain water. The sub-workgroup is still meeting to develop recommendations concerning these proposals.

COMMENT RECEIVED

Beginning on Page No. 102

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-2901.1.1 (Appendix C)(a)

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Guy Tomberlin

Representing: VA Plumbing and Mechanical Inspectors Association and VA Building and Code Officials Association Plumbing/Mechanical/Fuel Gas Committees

Mailing Address: 12055 Government Center Parkway, Suite 630
Fairfax, VA 22035

Email Address: guy.tomberlin@fairfaxcounty.gov Telephone Number: 703-324-1611

Proposal Information Include Appendix

Code(s) and Section(s): Incorporate Appendix C of the IPC into the body of the code.

Proposed Change (including all relevant section numbers, if multiple sections):

New USBC/IPC **Section R2901.1.1 Use of Appendix C for Gray water recycling systems.** In addition to the other applicable provisions of this code, gray water recycling systems shall comply with the provisions in Appendix C of the IPC.
Note to staff – renumber existing sections accordingly.

Supporting Statement (including intent, need, and impact of the proposal): This technology has developed into a system that results in a safe installation with a huge energy conserving advantage. In today's "Green" environment this is a much needed step in the right direction for plumbing systems. Currently being located in an Appendix results in the requirements for a code modification review each time one of these systems is proposed. Once this option is inserted into the body of the code it becomes a designers choice whether to take advantage of recycling or not. This proposal has also been submitted on the National level. The impact is this creates another option for industry to utilize, enabling greater energy/water savings.

Submittal Information

Date Submitted: July 2, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-2901.1.1 (Appendix C)(b)

Proponent Information (Check one): X☐Individual Government Entity ☐Company

Name: Guy Tomberlin Representing: Myself

Mailing Address: 12055 Government Center Parkway, Suite 630
Fairfax, VA 22035

Email Address: guy.tomberlin@fairfaxcounty.gov Telephone Number: 703–324–1611

Proposal Information Include Appendix

Code(s) and Section(s): Incorporate Appendix C of the IPC into the body of the code.

Proposed Change (including all relevant section numbers, if multiple sections):

New USBC/IPC

Section R2901.1.1 Use of Appendix C for Gray water recycling systems. In addition to the other applicable provisions of this code, gray water recycling systems shall comply with the provisions in Appendix C of the IPC.

2901.1.1.1 Rain water re–use. Where approved rainwater re–use shall be permitted when installed in accordance with the IPC Appendix C provisions for gray water recycling systems. Rainwater and gray water systems shall not be interconnected.

Note to staff – renumber existing sections accordingly.

Supporting Statement (including intent, need, and impact of the proposal): This technology has developed into a system that results in a safe installation with a huge energy conserving advantage. In today's "Green" environment this is a much needed step in the right direction for plumbing systems. Currently being located in an Appendix results in the requirements for a code modification review each time one of these systems is proposed. Once this option is inserted into the body of the code it becomes a designers choice whether to take advantage of recycling or not. The words "where approved" are incorporated into the text due to the facts that other agencies may be involved in the decision making process such as Health Dept or Department of Environmental Quality. The impact is this creates another option for industry to utilize, enabling greater energy/water savings.

Submittal Information

Date Submitted: July 2, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

Hodge, Vernon (DHCD)
From: Rourke, Valerie (DEQ)
Sent: Monday, March 15, 2010 11:05 AM
To: Hodge, Vernon (DHCD)
Cc: Zahradka, Neil (DEQ); Tomberlin, Guy
Subject: DEQ comments regarding code changes to the USBC

Hello Mr. Hodge.

This e-mail is in response to proposed changes to the Virginia Uniform Statewide Building Code (USBC) recently published for public comment. The Virginia Department of Environmental Quality (DEQ) supports the following code changes to the USBC:

C-310.6 (Appendix O) (a) and (b) – Residential Gray and Rain Water
C-2901.1.1 (Appendix C) (a) and (b) – Commercial Gray and Rain Water

Currently, there are no other state laws or regulations governing pluming systems for recycled gray water or harvested rain water inside residential or non-residential buildings. Therefore, we believe that these code changes will significantly improve the uniformity and safety of these systems. However, as the State Water Control Board has regulations controlling the use of reclaimed water systems, which are different from gray water or rain water systems, DEQ requests that language be added to and/or modified in the USBC to clarify that the new appendices or any other provisions of the USBC do not apply to reclaimed water distribution systems. In consultation with DHCD staff, the following changes are recommended for the USBC to assure that there are no conflicts between the USBC and the State Water Control Board Regulations:

Change Sections **602.1, 604.1, 608.8 and 608.8.2** of the 2009 International Plumbing Code to be incorporated into the USBC to read as follows:

602.1 General. Every structure equipped with plumbing fixtures and utilized for human occupancy or habitation shall be provided with a potable supply of water in the amounts and at the pressures specified in this chapter. <u>This shall not prohibit the use of reclaimed water distribution systems installed in accordance with this code and the Virginia Water Reclamation and Reuse Regulation (9 VAC 25-740).</u>

604.1 General. The design of the water distribution system<u>, including any reclaimed water distribution systems governed by the Virginia Water Reclamation and Reuse Regulation (9 VAC 25-740),</u> shall conform to accepted engineering practice. Methods utilized to determine pipe sizes shall be approved.

608.8 Identification of nonpotable water. In buildings where nonpotable water systems are installed ... (no change to section)
<u>Exception: Reclaimed water supply systems shall be identified in accordance with the provisions of the Virginia Water Reclamation and Reuse Regulation (9 VAC 25-740).</u>

608.8.2 Color. The color of the pipe identification shall be discernable and consistent throughout the building. The color purple shall be used to identify ~~reclaimed,~~ rain and gray water distribution systems.

Please contact me if you have any questions regarding the above comments. Thank you for your assistance and the opportunity to provide input.

Sincerely,

Valerie Rourke
DEQ, Water Reclamation and Reuse Coordinator

From: Firestone, Janice (DHCD)
Sent: Monday, February 22, 2010 11:18 AM
To: aberkley@isleofwightus.net; WJAYHALL@COMCAST.NET; wittr@chesterfield.gov; William.Branner@fairfaxcounty.gov; WILLIAM.ANDREWS@RICHMONDGOV.COM; Kleene, Wes (VDH); WERNERC@CHARLOTTESVILLE.ORG; waynel@ci.harrisonburg.va.us; WAYNE.KUSHNER@FAIRFAXCOUNTY.GOV; walkerc@tntfireworks.com; vrma@virginiaretail.org; vpffld@aol.com; vma@virginiamasonry.org; vernell.woods.@norfolk.gov; Rourke, Valerie (DEQ); TOMPKINSK@TNTFIREWORKS.COM; Thompson, Thomas (DMME); tmccormack@vaco.org; TLAWRENCE@SMOKEGUARD.COM; tkirkner@pulaskicounty.org; Teresa@VantagePointConsulting.com; TARPBONE@AOL.COM; t.craddock@vachamber.com; sward@vhha.com; Hackney, Susan (VDSS); Sue@SueRowlandConsulting.com; steve@stchomes.com; steve.rodgers@loudoun.gov; Steve.Borders@gcva.us; stephen.walz@governor.virginia.gov; stephen.turchen@fairfaxcounty.gov; stephanie.ryder@loudoun.gov; stanm@wytheville.org; Stanleys@chesterfield.gov; ssoglesby@comcast.net; sskinner@williamsburgva.gov; sshapiro@hampton.gov; spharr@aoba-metro.org; sni@co.henrico.va.us; smcgeary@washgas.com; SLATER@CHESTERFIELD.GOV; shl@virginia.edu; SGREEN@RUI.NET; sfarrell@pwcgov.org; sdaum@lancova.com; Kudlas, Scott (DEQ); samiri@arlingtonva.us; sam_francis@afandpa.org; RUSS.ELLISON@DEQ.VIRGINIA.GOV; rsmalley@cityofchesapeake.net; Ellison, Russell (DEQ); Reynolds, Ron (VDFP); rockrent@ntelos.net; robertsonr@chesterfield.gov; robert.duffus@richmondgov.com; rjordan@advantusstrategies.com; Kriner, Richard C. (DRS); richard.grace@fairfaxcounty.gov; richard.grace@fairfaxcounty.gov; Richard.Fortner@norfolk.gov; rev04@co.henrico.va.us; rejackson@pwcgov.org; rebartell@co.hanover.va.us; rdunlap@vammha.org; rcgva@comcast.net; rbarrett@commonwealthal.com; raynort@portsmouthva.gov; ray.pylant@fairfaxcounty.gov; rangell@angellawohio.com; randy.scott@stmaryswoods.com; randy.melvin@whihomes.com; radkins@pwcgov.org; psnyder@louisa.org; PHancher@ibts.org; peter.ryan@papco.com; perrico@vaco.org; paul@thehouseholdfire.com; Paul.Lynch@fairfaxcounty.gov; oilgolfer@aol.com; nbhatt@nbjarch.com; mtoalson@hbav.com; MSHOPE@WS-ARCH.COM; msatterlund@macbur.com; mredifer@nngov.com; mnickell@co.augusta.va.us; mmiller@macs.net; mmaybee@pwcgov.org; Degen, Marcia (DEQ); mikel@alliedterminals.com; Coppa, Mike (DGS); Michael.Congleton@fairfaxcounty.gov; MHOAG@CITYOFCHESAPEAKE.NET; mflynn@vml.org; mcline@co.northampton.va.us; MCLEHANEYD@CHESTERFIELD.GOV; mayhurstbandb@aol.com; mary.howell@easterassociates.com; MARK@BAINWARING.COM; manuel.barrero@fairfaxcounty.gov; MABergeron@vacsb.org; lynn.underwood@norfolk.gov; lwatts@spotsylvania.va.us; lucaswa@ci.danville.va.us; LONGS@LONGSCORP.COM; LIPSCOMBL@CHESTERFIELD.GOV; lindsay.reames@vafb.com; LESLIE.KNACHEL@DSS.VIRGINIA.GOV; Harcum, Les (DGS); lcc@ldassociatesinc.com; kwightman@co.caroline.va.us; kpayne@moseleyarchitects.com; kenneth.r.martin@verizon.net; ken.granata@alexandriava.gov; keith.johnson@fairfaxcounty.gov; keith.brower@loudoun.gov; kbridges@ci.martinsville.va.us; karl.bren@comcast.net; Cullen, Karen (VDSS); JWEBSTER.VCPE@GMAIL.COM; jwalton@princegeorgeva.org; jwalsh@fredericksburgva.gov; 'julia.hammond@nfib.org'; McGreal, Judith (VDSS); jsnowa@ws-arch.com; jseay@albemarle.org; jschloth@albemarle.org; JRTOLBERT@ENVIRONMENTALAMERICA.ORG; JROBERTSON@PWCGOV.ORG; Baldwin, Joni (VDSS); johnainslie@ainsliegroup.com; JOHN@WATERWELLSOLUTIONS.NET; john.catlett@alexandriava.gov; JOHN.BRUCE@DOM.COM; jmcgrann@Baskervill.com; jlcollins@pwcgov.org; JLawrence9@aol.com; jjmessersmith@comcast.net; JHOWARD@HAMPTON.GOV; jhalbert@oakhillfund.org;

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-3001.2.1

Nature of Change:

To reference the newest addendum to the traditional elevator standard and to add a new standard for the evaluation of newer design or non-traditional elevators to the USBC.

Proponent: James D. Lawrence, representing the International Association of Elevator Consultants

Staff Comments:

The proposal was not received in time to be vetted through the workgroup process; however, it was discussed at one meeting of DHCD staff with the Virginia Building and Code Officials Association. It was recognized that the standard has merit for facilitating the acceptance of newer or non-traditional elevators for which the normal ASME A17.1 standard does not provide complete coverage for. It was also noted that the '08 addendum to ASME A17.1 authorizes the use of the new A17.7 standard, which might be sufficient rather than actually referencing the new standard. The proponent did not provide a copy of either the '08 addendum to the ASME A17.1 standard or the new A17.7 standard and was informed that copies needed to be provided.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-3001.2.1

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☒ Company

Name: James D. Lawrence Representing: IAEC (International Association of Elevator Consultants, Formerly NAVTP)

Mailing Address: 4214 Coles Point Way, Glen Allen, VA 23060

Email Address: JLawrence9@aol.com Telephone Number: 804.747.0971

Proposal Information

Code(s) and Section(s): IBC - Chapter 35 Referenced Standards

Proposed Change (including all relevant section numbers, if multiple sections):

Change the referenced standards in Chapter 35 of the IBC as follows:

ASME

Add A17.1a-2008/CSA B44a-08 Addenda to ASME A17.1-2007/CSA B44-07

Add A17.7-2007/CSA B44.7-07 Performance-based safety code for elevators and escalators

ADD The following Paragraph *

Supporting Statement (including intent, need, and impact of the proposal):

1. A17.1a addendum covers clarifications, corrections, deletions and additions and updates the elevator referenced standard to the most recent, available version of A17.1 issued Dec. 5, 2008 and effective June 5 2009.
2. A17.7 provides a means for demonstrating safety of design for new technology elevator products and will be helpful to the AHJ community. This new performance-based code provides an objective and structured method for establishing design and product safety for newly introduced designs and technologies that are not specifically covered in A17.1. A17.7 was published and effective in 2007 and uses Accredited Elevator/Escalator Certification Organization(s) (AECO) authorized by ANSI, ASME or SCC.

* 3001.2.1 Performance-based safety code for elevator and escalator A17.7/CSA B44 May be used as an acceptable alternative to A17.1/CSA B44

Submittal Information

Date Submitted: 12/1/09

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
Main Street Center
600 E. Main St., Suite 300
Richmond, VA 23219

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

authority having jurisdiction will establish the effective date for their local regulations.

(07)
(05S)

SECTION 1.2
PURPOSE AND EXCEPTIONS

1.2.1 Purpose

The purpose of this Code is to provide for the safety of life and limb, and to promote the public welfare. Compliance with this Code shall be achieved by

(a) conformance with the requirements in ASME A17.1/CSA B44; or

(b) conformance with some of the requirements in ASME A17.1/CSA B44 and for systems, subsystems, components, or functions that do not conform with certain requirements in ASME A17.1/CSA B44, conform with the applicable requirements in ASME A17.7/CSA B44.7; or

(c) conformance with the requirements in ASME A17.7/CSA B44.7

1.2.2 Exceptions to ASME A17.1

The provisions of this Code are not intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety to those prescribed by this Code, provided that there is technical documentation to demonstrate the equivalency of the system, method, or device.

1.2.2.1 The specific requirements of this Code shall be permitted to be modified by the authority having jurisdiction based upon technical documentation or physical performance verification to allow alternative arrangements that will assure safety equivalent to that which would be provided by conformance to the corresponding requirements of this Code.

1.2.2.2 This Code contains requirements that are also covered in the National Building Code of Canada (NBCC). Reference to the NBCC is recognition that said requirements are not within the scope of this Code in Canada.

In jurisdictions not enforcing the NBCC, the use of the NBCC is not intended.

1.2.2.3 Exceptions shall be based on the requirements of 1.2.2.1.

(07)
(a)

SECTION 1.3
DEFINITIONS

Section 1.3 defines various terms used in this Code. In addition, some nomenclature and terminology used in the elevator industry and other ASME publications are defined.

access switch: see *hoistway access switch.*

alteration: any change to equipment, including its parts, components, and/or subsystems, other than maintenance, repair, or replacement.

alteration, as part of an: a repair or replacement that is included with other work that is classified as an alteration.

alternate level: a floor level identified by the building code or fire authority, other than the designated level.

annunciator, car: an electrical device in the car that indicates visually the landings at which an elevator landing signal registering device has been actuated.

applied frame entrance: a wraparound or partial addition to an existing entrance frame used to improve the appearance or to provide the required clearances.

approved: acceptable to the authority having jurisdiction.

authority having jurisdiction: the organization, office, or individual responsible for enforcement of this Code. Where compliance with this Code has been mandated by legislation or regulation, the "authority having jurisdiction" is the regulatory authority (see *regulatory authority).*

authorized personnel: persons who have been instructed in the operation of the equipment and designated by the owner to use the equipment.

automatic transfer device: a power-operated mechanism that automatically moves a load consisting of a cart, tote box, pallet, wheeled vehicle, box, or other similar object from and/or to the car.

auxiliary power lowering device: an alternatively powered auxiliary control system that will, upon failure of the main power supply, allow a hydraulic elevator to descend to a lower landing.

brake, driving machine, elevator, dumbwaiter, or material lift: an electromechanically or electrohydraulically released spring, or gravity applied device, that is part of the electric driving machine of the elevator, dumbwaiter, or material lift used to apply a controlled force at a braking surface to hold or retard the elevator, dumbwaiter, or material lift. See Nonmandatory Appendix F.

electrohydraulically released: a means of release in which an electric current applied to a solenoid valve or the motor of a hydraulic pump directs pressurized hydraulic fluid to an actuator (such as a hydraulic jack) that overcomes a resisting force (such as a spring) as long as the electric current flows.

electromechanically released: a means of release in which an electric current applied to an actuator (such as a solenoid) causes an electromagnetic force that overcomes a resisting force (such as a spring) as long as the electric current flows.

brake, driving machine, escalator, or moving walk: an electromechanical device that is part of the electric driving machine of the escalator or moving walk, used to

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-3109.3

Nature of Change:

To delete the standards for commercial swimming pool construction.

Proponent: Ron Clements, representing the Chesterfield County Building Inspection Department

Staff Comments:

The proposal was considered by the workgroups. There were differing opinions over whether the standards are necessary. They were originally added to the USBC since the IBC did not have standards for pool design. Without the standards, Chapter 16 (the structural design chapter) of the IBC was typically applied with no specific provisions for pools. The legacy (BOCA) code used under the USBC did have some pool design criteria in its structural design chapter, but that did not make it into the IBC. The design criteria that was in the BOCA Code is in the ANSI/NSPI standards, but the standards have many aspects of pool design not regulated by the USBC and this was causing confusion over how far to apply the standards. It was suggested that a proposal should be submitted to just bring in the design standards which were in the BOCA Code. No proposal has been submitted for that however.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C - 3109.3

Proponent Information (Check one): ☒Individual ☒Government Entity ☐Company

Name: Ron Clements

Representing: Chesterfield County Building Inspections

Mailing Address: 9800 Government Center Parkway, Chesterfield County VA, 23832

Email Address: clementsro@chesterfield.gov

Telephone Number: (804) 751-6143

Proposal Information

Code(s) and Section(s): VA Construction code section 3109.3

Proposed Change (including all relevant section numbers, if multiple sections):
Delete the reference to ANSI/NSPI-1 and ANSI/NSPI-2 entirely and use the 2009 IBC section 3109.3 without ammendment.

Delete: "shall be designed and constructed in comformance with ANSI/NSPI-1 or ANSI/NSPI-2, as applicable"

Supporting Statement (including intent, need, and impact of the proposal):
These two standards were submitted to the ICC General committee for reference by the IBC but the code change was denied because the standards have many problems that made them unusable as reference standards. As a plan review engineer that has attempted to use the documents to review commercial pool plans, and a past member of the ICC General committee that reviewed these documents, I can attest the the fact that they are very poor standards. The majority of the substance of these standards are addressing aspects of pools and spas outside of the scope of the building code and it leaves the code user questioning what is enforceable or intended to be enforced. Some examples from the standards are:

5.2.1 Control of sand for beach pool environments; 5.3 Structural design in accordance with accepted engineering practices but no reference to an engineering standard; 5.4 freeze protection requirements for pool shells, filters, pumps, and "other" components not listed; 5.6 regulating colors and finishes of the pool; 6.8 maximum user loads; section 7 regulating the walking area (deck) around the pool; 7.1.16 hose bibs and cross connection that should be regulated by the plumbing code; 7.2 Deck equipment regulations for starting blocks and diving equipment; 8.1.1.1 regulates water clarity; 8.1.2 regulating circulation, 8.2 regulating water velocity; 8.4 regulating guage requirements on pool equipment; secion 9 regulation filtration; section 10 regulating pump sizing; section 12 regulation surface skimming; section 19 regulating dressing rooms and facilities; section 19.6 regulating required bathroom facilities that appear to overide the Plumbing code; Section 20 regulating spectator areas; section 21 regulation food comsumption within the pool; section 22 regulation management of the pool.

I could go on but you get the point. If there is a specific aspect of pool design that is not addressed by the IBC the specific aspect should be placed into the IBC without reference to the standard, or the specific section should be referenced.

The 2009 IBC regulates the fence or barrier required around the pool and required entrapment avoidance is regulated through a reference to the ANSI/APSP-7 standard for entrapment avoidance. Note that ANSI NSPI-1 also has a section on entrapment avoidance that is no longer valid based on the 2009 reference to ANSI/APSP-7.

Submittal Information

Date Submitted:

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Construction Code
Code Change No. C-Appendix E

Nature of Change:

To authorize the use of Appendix E of the IBC for supplemental accessibility provisions as part of the USBC.

Proponent: DHCD Staff

Staff Comments:

The proposal was not developed in time for consideration by the workgroups as it resulted from correspondence with the Federal Department of Justice and DHCD staff in efforts to seek certification of the USBC by the Department of Justice as being equal or exceeding the requirements of the Americans with Disabilities Act (ADA). The appendix in the IBC provides those additional accessibility requirements necessary to gain compatibility with the new ADA/ABA Guidelines approved by the U. S. Access Board and which are to be incorporated as part of the ADA.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: C-Appendix E

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☐ Company

Name: DHCD Staff Representing:

Mailing Address:

Email Address: Telephone Number:

Proposal Information

Code(s) and Section(s): Appendix E of the International Building Code (IBC)

Proposed Change (including all relevant section numbers, if multiple sections):

13 VAC 5-63-395. Appendix E Supplementary Accessibility Requirements.

Appendix E of the IBC shall be part of this code.

Supporting Statement (including intent, need, and impact of the proposal):

This proposal is necessary as part of DHCD's efforts to obtain certification from the U.S. Department of Justice (DOJ) for the USBC being equivalent or exceeding the requirements of the Americans with Disabilities Act (ADA). The U.S. Access Board has published new guidelines (the ADA/ABA Accessibility Guidelines) which are being incorporated into DOJ's regulations implementing the ADA. The new guidelines extend into areas of accessibility not covered by the initial ADA Guidelines, such as telephones, mailboxes, speaker's platforms and vending machines. The U.S. Access Board has worked with the International Code Council to place these new requirements in the IBC; however, they have been located in an appendix to the IBC. Appendices to the International Codes are not automatically made part of the USBC through its incorporation of the IBC by reference, so this provision needs to be added to the USBC to enable the use of the IBC appendix. While some of the aspects of accessibility in Appendix E of the IBC may be questioned as to whether they are within the scope of the USBC as construction typically only extends to those permanent parts of a building, to the extent possible, all of Appendix E needs to become part of the USBC in order to achieve certification for the USBC by DOJ. Therefore, if applicability issues surface and it is determined that any areas of Appendix E are outside of the scope of the USBC, then changes to the statutory authority for the USBC will have to be pursued to enable the full use of the appendix.

Submittal Information

Date Submitted: December 9, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Maintenance Code
Code Change No. M-105.1

Nature of Change:

To remove unnecessary terminology from the unsafe structure provisions and to delete a requirement for an unsafe notice to require acceptance or rejection of the terms of the notice, as simply assuring that the notice is properly handled and delivered is adequate notification.

Proponent: Sean Farrell, Prince William County Building Department, representing the VBCOA Property Maintenance Committee

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: M-105.1

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☒ Company

Name: Sean P. Farrell

Representing: VBCOA Property Maintenance Committee

Mailing Address: 5 County Complex Court, Prince William VA 22192

Email Address: sfarrell@pwcgov.org

Telephone Number: 703-792-5998

Proposal Information

Code(s) and Section(s): International Property Maintenance Code - Modification of 105

Proposed Change (including all relevant section numbers, if multiple sections):

SECTION 105
UNSAFE STRUCTURES OR STRUCTURES UNFIT FOR HUMAN HABITATION

105.1 General. This section shall apply to existing ~~buildings or~~ structures which are classified as unsafe or unfit for human occupancy. All conditions causing such structures to be classified as unsafe or unfit for human occupancy shall be remedied or as an alternative to correcting such conditions, the structure may be vacated and secured against public entry or razed or removed. Vacant and secured structures shall still be subject to other applicable requirements of this code. Notwithstanding the above, when the code official determines that an unsafe structure or a structure unfit for human occupancy constitutes such a hazard that it should be razed or removed, then the code official shall be permitted to order the demolition of such structures in accordance with applicable requirements of this code.

Note: ~~Buildings or s~~Structures which become unsafe during construction are regulated under the Virginia Construction Code.

105.2 Inspection of unsafe or unfit structures. The code official shall inspect any structure reported or discovered as unsafe or unfit for human habitation and shall prepare a report to be filed in the records of the local enforcing agency and a copy issued to the owner. The report shall include the use of the structure and a description of the nature and extent of any conditions found.

105.3 Unsafe conditions not related to maintenance. When the code official finds a condition that constitutes a serious and dangerous hazard to life or health in a building or structure constructed prior to the initial edition of the USBC and when that condition is of a cause other than improper maintenance or failure to comply with state or local building codes which were in effect when the building or structure was constructed, then the code official shall be permitted to order those minimum changes to the design or construction of the building or structure to remedy the condition.

105.3.1 Limitation to requirements for retrofitting. In accordance with Section 103.2, this code does not generally provide for requiring the retrofitting of any ~~building or~~ structure. However, conditions may exist in ~~buildings or~~ structures constructed prior to the initial edition of the USBC because of faulty design or equipment that constitute a danger to life or health or a serious hazard. Any changes to the design or construction required by the code official under this section shall be only to remedy the serious hazard or danger to life or health and such changes shall not be required to fully comply with the requirements of the Virginia Construction Code applicable to newly constructed buildings or structures.

105.4 Notice of unsafe structure or structure unfit for human occupancy. When a ~~building or~~ structure is determined to be unsafe or unfit for human occupancy by the code official, a written notice of unsafe structure or

structure unfit for human occupancy shall be issued ~~in person~~ by personal service to the owner, the owner's agent or the person in control of such structure. The notice shall specify the corrections necessary to comply with this code, or if the structure is required to be demolished, the notice shall specify the time period within which the demolition must occur. Requirements in Section 104.5.4 for notices of violation are also applicable to notices issued under this section to the extent that any such requirements are not in conflict with the requirements of this section. ~~In addition, the notice shall contain a statement requiring the person receiving to notice to either accept or reject the terms of the notice.~~

Note: Whenever possible, the notice should also be given to any tenants of the affected building.

105.5 Posting of notice. If the notice is unable to be issued ~~in person~~ by personal service as required by Section 105.4, then the notice shall be sent by registered or certified mail to the last known address of the responsible party and a copy of the notice shall be posted in a conspicuous place on the premises.

105.6 Posting of placard. In the case of a structure unfit for human habitation, at the time the notice is issued, a placard with the following wording shall be posted at the entrance to the ~~building~~ structure: "THIS STRUCTURE IS UNFIT FOR HABITATION AND ITS USE OR OCCUPANCY HAS BEEN PROHIBITED BY THE CODE OFFICIAL." In the case of an unsafe structure, if the notice is not complied with, a placard with the above wording shall be posted at the entrance to the ~~building~~ structure. After a ~~building~~ structure is placarded, entering the ~~building~~ structure shall be prohibited except as authorized by the code official to make inspections, to perform required repairs or to demolish the ~~building~~ structure. In addition, the placard shall not be removed until the ~~building~~ structure is determined by the code official to be safe to occupy, nor shall the placard be defaced.

Supporting Statement (including intent, need, and impact of the proposal):

This change is considered general cleanup and provides consistency in language and intent of the clode. The change allows for Code Officials to take a proactive approach to dealing with unsafe and unfit structures lieu of them being reported. This change futher removes a requirement that is not controlable by the Code Official. This change provides further flexibility regarding determining portions of a structure as unsafe or unfit for human habitation as opposed to the entire structure. Lastly, this allows the code official to deem and placard structures other than buildings.

Submittal Information

Date Submitted: 10/19/09 - revised 11/19/09

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

USBC – Virginia Maintenance Code
Code Change No. M-105.4.1

Nature of Change:

To permit immediate action to require the vacating of an unsafe structure when conditions warrant.

Proponent: Mark Bridgman, City of Richmond Building Department, representing the VBCOA Property Maintenance Committee

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: M-105.4.1

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☒ Company

Name: Mark Bridgman Representing: VBCOA Property Maintenance Committee

Mailing Address: 900 East Broad Street, Room G-12, Richmond VA 23219

Email Address: mark.bridgman@richmondgov.com Telephone Number: 703-792-5998

Proposal Information

Code(s) and Section(s): USBC Section 105.4.1

Proposed Change (including all relevant section numbers, if multiple sections):
Add new section as follows:
105.4.1 Vacating unsafe structures. If the Code Official determines there is actual and immediate danger to the occupants or public or when life is endangered by the occupancy of an unsafe structure, the Code Official shall be authorized to order the occupants to immediately vacate the unsafe structure. When an unsafe structure is ordered to be vacated, the Code Official shall post a notice at each entrance that reads as follows:

"This Structure is Unsafe and its Occupancy (or Use) is Prohibited by the Code Official."

After posting, occupancy or use of the unsafe structure shall be prohibited except when authorized to enter to conduct inspections, make required repairs or as necessary to demolish the building or structure.

Supporting Statement (including intent, need, and impact of the proposal):
The current usafe structure determination requires the code official to locate and serve the owner with notice providing a reasonable amount of time for the owner to correct the deficiencies or conditions that warrants the unsafe determination. This does not provide the Code Official the ability to vacate and placard the sructure immediately if the condition warrants the termination of occupancy under the Unsafe provisions of the code. This proposal permits this action to ensure the public health, safety and welfare.

Submittal Information

Date Submitted: 10/15/09 – modified 11/19/09

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-107.6

Nature of Change:

To clarify when permits are required by the State Fire Marshal's Office by reference to the two specific provisions setting out state permit requirements.

Proponent: Ed Altizer, State Fire Marshal, representing the State Fire Marshal's Office

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F - 107.6

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Ed Altizer Representing: State Fire Marshal's Office

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: ed.altizer@vdfp.virginia.gov Telephone Number: 804-371-7170

Proposal Information

Code(s) and Section(s): SFPC Section 107.6

Proposed Change (including all relevant section numbers, if multiple sections):

Change SFPC Section 107.6 to read:

107.6 State Fire Marshal: Permits will not be required by the State Fire Marshal except for ~~the manufacturing, storage, handling, use, and sale of explosives in localities not enforcing the SFPC, and for the display of fireworks on state-owned property~~those permits listed in Sections 107.13 and 107.14 of this code.

Exception: Such permits shall not be required for the storage of explosives or blasting agents by the Virginia Department of State Police provided notification to the State Fire Marshal is made annually by the Chief Arson Investigator listing all storage locations within areas where enforcement is provided by the State Fire Marshal's office.

Supporting Statement (including intent, need, and impact of the proposal):

This change is to correct an omission from previous editions of the code. The SFMO issues permits beyond those named in Section 107.6. This change proposes a remedy by simply by referencing those sections where the required permits are enumerated and fees set.

Submittal Information

Date Submitted:

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-107.13

Nature of Change:

To increase the fees charged by the State Fire Marshal's Office for explosives and fireworks.

Proponent: Ed Altizer, State Fire Marshal, representing the Virginia State Fire Marshal's Office

Staff Comments:

The proposal was not received in time to be considered by the workgroups. Substantiation has been provided by the State Fire Marshal's Office in the supporting statement; however no revenue or cost data/history is provided. It is not clear what the new "theatrical flame effects" permit is for and why a separate permit is necessary for this.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F-107.13

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Ed Altizer Representing: VDFP, State Fire Marshal's Office

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: Telephone Number: 804-371-7170

Proposal Information

Code(s) and Section(s): SFPC Section 107.13

Proposed Change (including all relevant section numbers, if multiple sections):

Send Section 107.13 to read:

107.13. State explosives, blasting agents theatrical flame effects and fireworks permit fees. Applications for firework or pyrotechnic displays shall be submitted to and received by the State Fire Marshal's Office not less than 15 days prior to the planned event. Fees for permits issued by the State Fire Marshal's office for the storage, use, sale or manufacture of explosives or blasting agents, and for the display of fireworks and flame effects on state-owned property shall be as follows:

1. $~~100~~125 per year per magazine to store explosives and blasting agents.
2. $~~150~~200 per year per city or county to use explosives and blasting agents.
3. $150 per year to sell explosives and blasting agents.
4. $200 per year to manufacture explosives, blasting agents and fireworks.
5. $~~300~~350 ~~per day for~~the first day of fireworks, pyrotechnics or proximate audience displays conducted in any state-owned building and $150 per day for each ~~subsequent~~consecutive day for identical multi-day events. If an application is received by the SFMO less than 15 days prior to the planned event, the permit fee shall be $450 per day and $150 per day for each consecutive day for identical multi-day events. If an application is received by the SFMO less than 7 days prior to the planned event, the permit fee shall be $550 per day and $150 per day for each consecutive day for identical multi-day events.
6. $~~200~~250 ~~per event for~~ the first day of fireworks, pyrotechnics or proximate audience displays conducted out-of-doors on any state-owned property and $150 per day for each ~~subsequent~~consecutive day for identical multi-day events. If an application is received by the SFMO less than 15 days prior to the planned event, the permit fee shall be $450 per day and $150 per day for each consecutive day for identical multi-day events. If an application is received by the SFMO less than 7 days prior to the planned event, the permit fee shall be $550 per day and $150 per day for each consecutive day for identical multi-day events.
7. $~~75~~100 per event for the use of explosives in special operations or emergency conditions.
8. $300 the first day for flame effects conducted in accordance with Section 308.3.6 indoors of any state-owned building or outdoors on state-owned property and $150 per day for each consecutive day for identical multi-day events, or, if conducted as part of a firework (pyrotechnic) display, $100 the first day and $75 per day for each consecutive day for identical multi-day events. If an application for flame effects is received by the SFMO less than 15 days prior to the planned event, the permit fee shall be $450 per day and $150 per day for each consecutive day for identical multi-day events. If an application is received by the SFMO less than 7 days prior to the planned event, the permit fee shall be $550 per day and $150 per day for each consecutive day for identical multi-day events.

Supporting Statement (including intent, need, and impact of the proposal):

This change is to accomplish several objectives.

First, based on the experience gained over the past several years as it relates to firework (pyrotechnic) displays, personnel costs have been proven to exceed the amounts collected under the current fee structure. In fact, it was stated in the previous code change that "...estimated cost for one technical staff with administrative support exceeds $300 per day." Additionally, the Code of Virginia provides that "...the State Fire Marshal may charge a fee to recover the actual cost of administering and enforcing the Code...". Coupled with the present "zero" overtime budget provisions, the SFMO is not recovering the full costs incurred.

Second, the 15 day provision to have applications submitted is proposed to allow the SFMO personnel to better schedule its time for processing and site inspections. The 15 day timeframe was at one time a SFPC requirement and is simply being re-instituted so that (1) the SFMO may review the qualifications and determine the competence of the operator performing the display; (2) to allow the review of the operator's proof of insurance or other evidence of indemnification (not all insurance policies are the same); (3) to allow the inspection of the proposed discharge site and viewing area; and (4) to allow the review of the operator's fire protection and crowd control provisions. Too often, not always, applications are received within two weeks of the event leaving SFMO personnel rapidly adjusting work hours at the cost of forgoing other scheduled work that may be of equal importance. With a multi-tiered permit fee for applications received after or within the 15 day timeframe, hopefully it will cause applications to be submitted in a timely basis in order to avoid the increased fees and allow the SFMO to better schedule its work load.

Third, the change from "subsequent" days to "consecutive" days avoids potential and conflicting interpretations. According to the dictionary cited in SFPC Section 201.4, "subsequent" means "following in time" or "coming or being later than something else." By example, while the first day of the month is followed by the second day and the third day and so on, it's equally true to say the 15th day of the month follows the first day of the month – it is subsequent. How that lends itself to the present code language is that it can be argued if an outdoor fireworks display is conducted on the first day of the month and repeated in an identical fashion on the 15th day of the same month, it's a "subsequent" day and therefore, using the present fee structure, the total permit fee would be $350. By changing and using the word "consecutive", which means, "having no interval or break; continuous", it better reflects the intent of the code's provision and the permit fee in the above example would be $400.

Fourth, the increased permit fee for explosive storage, use and for special operations is also reflective of the amount of staff time and office resources given in need of cost recovery.

Sixth, in addition to fireworks (pyrotechnics), the SFMO has experienced a notable increase in the use of flame effects for theatrical performances. These flame effects use flammable gases and/or liquids in close proximity to performers and audience members for the desired effect and are not categorized as pyrotechnics. A separate and specific standard is used to regulate all aspects and equipment used for flame effects.

The permit fee level for flame effects is coordinated to be approximately the same as the inspection and monitoring of pyrotechnic displays but it involves a different approach and level of knowledge as compared to pyrotechnics. The permit fee would be reduced when the flame effects are incorporated into the same event as fireworks since SFMO staff would not be investing significantly more time on the review, inspection and monitoring of the same event.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-112.2

Nature of Change:

To add a requirement for the local board of appeals to meet at least once annually to receive training and assure a properly constituted board. This requirement was added to the USBC in the proposed 2009 regulations and the Review Board members believed it would be beneficial to have it in the SFPC also.

Proponent: State Building Code Technical Review Board

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CODE CHANGE FORM

Address to submit to: DHCD, Main Street Centre 600 E. Main Street, Suite 300 Richmond, VA 23219 Tel. No. (804) 371 – 7150 Fax No. (804) 371 – 7092 Email: bhcd@dhcd.virginia.gov	Document No. F-112.2 Committee Action: _____ BHCD Action: _____

Submitted by: State Building Code Technical Review Board

Address: _____ Phone No. _____

Regulation Title: Virginia Statewide Fire Prevention Code Section No(s): 112.2

Date Submitted: November 20, 2009

Proposed Change:

Change Section 112.2 to read:

> **112.2 Membership.** The BFPCA shall consists of at least five members appointed by the local governing body and having terms of office established by written policy. Alternate members may be appointed to serve in the absence of any regular members and as such, shall have the full power and authority of the regular members. Regular and alternate members maybe reappointed. Written records of current membership, including a record of the current chairman and secretary shall be maintained in the office of the local government body. In order to provide continuity, the terms of the members may be a different length so that less than half will expire in any one-year period. The BFPCA shall meet at least once annually to assure a duly constituted board, appoint officers as necessary and receive such training on the code as may be appropriate or necessary from staff of the locality.

Supporting Statement:

The Board of Housing and Community Development approved a proposal to add this language to the Virginia Uniform Statewide Building Code. The Review Board also recommends the addition of this language to the Virginia Statewide Fire Prevention Code.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change Nos. F-311.5(a) and (b)

Nature of Change:

Two proposals to authorize the use of the placarding provisions of the International Fire Code when an existing structure is dangerous to fire-fighting operations.

Proponent: David J. Thomas, P.E., representing the Fairfax County Fire Prevention Department (for F-311.5(a)) and Robby Dawson, representing the Fire Services Board Code Committee (for F-311.5(b))

Staff Comments:

The proposals were not received in time to be considered by the workgroups; however, the issue was discussed at several workgroup meetings and there were no objections to a proposal being submitted. Both proposals are similar with just some minor language differences. Staff believes both proposals would authorize the use of the placarding provisions, which under the 2006 SFPC was questionable as it addressed unsafe buildings, which are typically regulated by the USBC.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F- 311.5 (a)

Proponent Information (Check one): X Individual ☐ Government Entity ☐ Company

Name: David J. Thomas, P.E. Representing: Self, FXCO FPD, FX,VA

Mailing Address: Fairfax County Fire Prevention division, 10700 Page Ave, Fairfax, VA 22030

Email Address: david.thomas@fairfaxcounty.gov Telephone Number: 703-246-4819

Proposal Information

Code(s) and Section(s): SFPC (IFC) 311.5 and 311.5.5

Proposed Change (including all relevant section numbers, if multiple sections):

311.5 Placards. Any building or structure that is vacant or abandoned and is ~~Any vacant or abandoned buildings or structures~~ determined by the fire official to be ~~unsafe pursuant to Section 110 of this code relating~~ unduly dangerous to firefighting operations due to structural or interior hazards shall be marked as required by Sections 311.5 through 311.5.5 or marked as required by the local fire official.

311.5.5 Informational use. The use of these symbols shall be informational only and shall not in any way limit the discretion of the on-scene incident commander, nor supplant the fire official's responsibility to report unsafe structures in accordance with Section 110.4 of this code.

Supporting Statement (including intent, need, and impact of the proposal):
The placarding provisions were first in the 2006 IFC but had the use of the term "unsafe", which has been removed from 311.5 in this change. There was a question whether or not the SFPC Section 110.4 referencing the USBC prevented the use of the placarding provisions. This change clarifies that the placarding is for a different purpose and does not create any conflict with the USBC.

The phrase "unduly dangerous to firefighting operations" has been used above to clarify that the intent goes to extraordinary situations. Firefighting is inherently dangerous. The use of the term "unduly dangerous" gives recognition to the higher levels of danger that may be encountered when a building or structure is involved in fire, given a set of peculiarities found at a given location. These include prior fire damage, significant code violations, no water to the structure, unsound conditions beyond the ordinary, and other factors which can render interior firefighting beyond the capabilities of the field forces available. The placard serves the purpose of informing those coming upon the incident that there are extraordinary conditions present that may influence their decisions regarding risk to their response forces.

The fire official under 311.5.5 must also act in accord with SFPC Section 110.4 in reporting unsafe conditions which demand reporting to the building or building maintenance official. This is a reporting duty which is now clarified by the included reference.

It is noted that Norfolk has for some time been using placarding in accord with Section 311.5, and coordinates its placarding to provide information to the fire service, to the health department (different placard), and to special police

officers in their jurisdiction. The inclusion of this clarification to 311.5 will not affect their current practice and will hopefully help to encourage others throughout the commonwealth to adopt procedures similar to those already being successfully used in Norfolk. It is in the spirit of recognition of their work and in an effort to render the SFPC phrasing clear and explicit that the above changed is proposed.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321
Email Address: tsu@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

N:\My Documents\CodeChangePlacardProposalDThomasSFPC31162909Revision.doc

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-315.1

Nature of Change:

To clarify a provision of the International Fire Code (IFC) for the storage of materials.

Proponent: Robby Dawson, representing the Virginia Fire Services Board

Staff Comments:

The proposal was not received in time to be considered by the workgroups. The proposal appears to extend the current IFC provision from only regulating combustible materials in Section 315.3 to regulating any type of material stored. The reason given is that other stored materials may interfere with sprinkler systems. Staff notes that storage interfering with a sprinkler system would be a separate violation of the SFPC and this section is not necessary to cite that situation. Staff would further note that the addition of a provision requiring an operational permit will cause confusion as Section 107.2 (and Table 107.2) is the sole provision in the SFPC for addressing permits. Similar provisions in the IFC (such as in Section 501.2) are not usable as part of the SFPC as they are administrative in nature and superseded by Section 107. Therefore, staff would not recommend the use of Section 315.2 if this proposal is approved.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F - 315.1

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☐ Company

Name: Robby Dawson Representing: Virginia Fire Services Board

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov Telephone Number: 804-717-6838

Proposal Information

Code(s) and Section(s): SFPC Section 315

Proposed Change (including all relevant section numbers, if multiple sections):

Revise Section Title and Sections as follows:

Section 315
~~Miscellaneous Combustible Materials~~ General Storage

Revise SFPC 315.1 as follows:

315.1 General. Storage~~, use and handling of miscellaneous combustible materials~~ shall be in accordance with this section.

315.2 Permit required. A permit for miscellaneous combustible storage shall be ~~obtained in accordance with~~ required as set forth in Table 107.2 (Miscellaneous combustible storage).

Renumber SFPC 315.2 and revise as follows:

~~315.2~~ 315.3 Storage in buildings. Storage of ~~combustible~~ materials in buildings shall be orderly and stable. Storage of combustible materials shall be separated from heaters or heating devices by distance or shielding so that ignition cannot occur.

(Renumber following sections…)

Supporting Statement (including intent, need, and impact of the proposal):

This proposal will modify this section covering storage in buildings in several different ways.

This proposal is intended to clarify that this section contains requirements which apply to storage in general, not just storage of combustible materials. Specifically, Section 315.2.1 requires that a separation be maintained between the top of storage and ceilings or sprinklers. This requirement applies to all storage, whether combustible or not, and providing a clearance from sprinklers and ceilings is critical whether the materials are combustible or not.

The first sentence of Section 315.1 is revised to delete the reference to "use and handling". As stated in the title of the section, this section applies to "storage". Sections 315.1 and 315.2 deal with storage and there are no requirements

for use or handling.

The second sentence of Section 315.1 is separated and creates a new Section 315.2 dealing with permits. This follows standard format throughout the rest of the fire code. The new Section 315.2 is also revised to specify that a permit is required only for storage of combustible materials. Even though this section regulates storage of both combustible and noncombustible materials, only combustible materials are required to obtain a permit when the storage exceeds 2500 cubic feet. The quantity limit is specified in the permit requirements in Table 107.2 (Miscellaneous combustible storage).

Section 315.2 is renumbered to 315.3 and revised to specify that the first sentence applies to ALL storage, and the second sentence applies to combustible storage. This will then state that all storage, whether combustible or not, is regulated and should be orderly. This means that the stored materials, whether combustible or not, are orderly, and that the stacks of stored materials need to be stable. These requirements allow for aisles being maintained, and the reduction of injury or blocking of exit during a seismic event or even when materials are hit with a hose stream during fire operations.

Hazards specific to 'combustible' materials have been more clearly identified. The second sentence in 315.3 is revised to specify that only combustible materials need to be separated from ignition sources. It is not necessary to separate non-combustible materials from ignition sources because there is no hazard.

Submittal Information

Date Submitted: 12/16/2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-605.10.1

Nature of Change:

To require portable electric space heaters to comply with a national standard.

Proponent: Robby Dawson, representing the Virginia Fire Services Board

Staff Comments:

The proposal was not received in time to be considered by the workgroups. A copy of the standard referenced was not provided along with the proposal. The proposal would apply to all existing portable electric space heaters.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F - 605.10.1

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Robby Dawson Representing: Virginia Fire Services Board

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov Telephone Number:

Proposal Information

Code(s) and Section(s): SFPC Section 605.10.1

Proposed Change (including all relevant section numbers, if multiple sections):

605.10 Portable, electric space heaters. Where not prohibited by other sections of this code, portable, electric space heaters shall be permitted to be used in all occupancies other than Group I-2 and in accordance with Sections 605.10.1 through 605.10.4.
Exception: The use of portable, electric space heaters in which the heating element cannot exceed a temperature of 212°F (100°C) shall be permitted in nonsleeping staff and employee areas in Group I-2 occupancies.
605.10.1 Listed and labeled. Only ~~*listed and labeled*~~ portable, electric space heaters listed and labeled in accordance with UL 1278 shall be used.
605.10.2 Power supply. Portable, electric space heaters shall be plugged directly into an *approved* receptacle.
605.10.3 Extension cords. Portable, electric space heaters shall not be plugged into extension cords.
605.10.4 Prohibited areas. Portable, electric space heaters shall not be operated within 3 feet (914 mm) of any combustible materials. Portable, electric space heaters shall be operated only in locations for which they are *listed*.

Add referenced UL standard to Chapter 47 as follows:
1278-00 Standard for Movable and Wall- or Ceiling Hung Electric Room Heaters.....605.10.1

Supporting Statement (including intent, need, and impact of the proposal):

This code change is to answer the question, "to what standard is the listing and labeling is a portable, electric space heater to comply with?" It is in that standard the subject of safety switches and the performance "tip-over test" is dealt with.

This provides an objective criteria for the "approval" of portable heaters rather than an arbitrary undefined and subjective criteria which results in vague and inconsistent enforcement of this provision of the SFPC.

Submittal Information

Date Submitted: 1/11/10

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-609.3.3.2

Nature of Change:

To require owners and operator of restaurants to have a schedule and records for cleaning grease hoods..

Proponent: Robby Dawson, representing the Virginia Fire Services Board

Staff Comments:

An original proposal was received in time to be considered by the workgroups and was considered by the Codes and Standards Committee for the proposed 2009 regulations. Questions concerning the possible burden on small operators and the necessity of the proposal were raised and the proposal was tabled for processing after the proposed regulations. The proposal was revised based on comments received and discussions at subsequent workgroup meetings and the revised proposal submitted for consideration.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F-609.3.3.2

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Robby Dawson Representing: Virginia Fire Services Board

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov Telephone Number: 804-717-6838

Proposal Information

Code(s) and Section(s): '09 IFC/SFPC Section 609.3.3.2 (Amended 6/22/09)

Proposed Change (including all relevant section numbers, if multiple sections):

609.3.3.2 ~~Grease accumulation~~Cleaning. ~~If during the inspection it is found that hoods, grease removal devices, fans ducts or other appurtenances have an accumulation of grease, such components shall be cleaned.~~Hoods, grease-removal devices, fans, ducts and other appurtenances shall be cleaned at intervals necessary to prevent the accumulation of grease based upon a written and approved cleaning schedule that shall be established and maintained on the premises by the owner or operator of the ventilation system. The approved schedule shall be originated by the owner or operator of the ventilation system based upon criteria particular to the cooking operation and submitted to the fire official for acceptance and approval. Future cleaning schedule modifications may be made or required based upon a demonstrated need for such modification. Cleanings shall be recorded, and the records shall state the extent, time and date of cleaning.

Supporting Statement (including intent, need, and impact of the proposal):

Having a pre-approved and mutually agreed upon cleaning schedule removes subjective criteria. While it can be claimed the proposed language is vague or nebulous, it is purposefully so due to the wide range of cooking operations that precludes the development of a more rigid schedule using other criteria such as the number of seats, square footage, cooking arrangements, etc. This preclusion is necessary to accommodate the small take-out restaurant that fries or broils hundreds of greasy hamburgers in a single day versus a larger full service restaurant that in reality demonstrates the production of grease-ladened vapors is of a lesser amount than the small take-out restaurant.

Submittal Information

Date Submitted:

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-907.9.5

Nature of Change:

To add specific requirements for the testing and maintenance of fire alarm systems.

Proponent: Ron Reynolds, Deputy State Fire Marshal, representing the Virginia State Fire Marshal's Office

Staff Comments:

The proposal was not received in time to be considered by the workgroups. The proponent states that the information required in the proposal is already required by NFPA 72, which is the standard referenced in the SFPC for the testing and maintenance of fire alarm systems, with the exception of requiring documentation of the physical location of the device being tested. Staff reviewed the 2009 International Fire Code (IFC) provisions and it appears that the proponent based on the proposal on the 2006 IFC provisions. The 2009 provisions are much more complete and specifically require compliance with NFPA 72. If any change is necessary, staff would suggest that only Section 907.9.2 of the 2009 IFC be modified as follows:

907.9.2 Testing. Testing shall be performed in accordance with the schedules in NFPA 72 or more frequently where required by the fire code official. <u>In addition to the requirements of NFPA 72, documentation of the location of devices and appliances tested shall be provided.</u>

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F-907.9.5

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Ron Reynolds Representing: State Fire Marshal's Office

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: ron.reynolds@vdfp.virginia.gov Telephone Number: 804-371-0220

Proposal Information

Code(s) and Section(s): SFPC Section 907.20.5

Proposed Change (including all relevant section numbers, if multiple sections):

Change Section 907.20.5 (907.9.5 in the '09 edition) to read as follows:

907.20.5 Maintenance, inspection and testing. The building owner shall be responsible for ensuring that the fire and life safety systems are maintained in an operable condition at all times. Service personnel shall meet the qualification requirements of NFPA 72 for maintaining, inspecting and testing such systems. A written record shall be maintained and shall be made available to the fire code official. In addition to all applicable information contained in NFPA 72, Figure 10.6.2.3, the written record of inspections, testing and maintenance shall contain the following minimum information.

1. Date
2. Test frequency
3. Name of property
4. Address
5. Name of person performing inspection, maintenance, tests, or combination thereof, and affiliation, business address, and telephone number.
6. Name, address, and representative of approving agency(ies)
7. Designation of the detector(s) tested, for example, "Tests performed in accordance with Section _____."
8. By physical location (e.g., heat detector in main kitchen; horn-strobe in Room 115), a list of all initiating and notification devices and appliances tested.
9. Functional test of detectors.
10. Functional test of required sequence of operations.
11. Check of all smoke detectors.
12. Loop resistance for all fixed-temperature, line-type heat detectors.
13. Other tests as required by the equipment manufacturer's published instructions.
14. Other tests as required by the authority having jurisdiction.
15. Signature tests as required by the authority having jurisdiction
16. Disposition of problems identified during test (e.g., owner notified, problem corrected/successfully retested, device abandoned in place).

Supporting Statement (including intent, need, and impact of the proposal):

Building owners and Fire Prevention Code inspectors often do not have enough information from a typical fire alarm inspection report to determine if all of the devices and appliances have been tested. Contractors will list the quantity of the items tested, but there is no assurance that the horns, bells, smoke detectors, heat detectors, duct detectors, pull stations, and similar devices and appliances were actually tested. A listing of each device by location gives the owner and inspector a better sense of what was tested, and it can be easily determined if items were missed during the inspection.

For example, the owner will be better informed and better able to tell if a remote mechanical room fire alarm devices were missed if they don't show up on the list by location on the fire alarm test report. The Fire Prevention Code inspector will also be better able to tell if the required report is complete.

Fire Prevention Code inspectors typically look in every room of a building. The typical inspector often finds fire alarm devices in remote locations that appear to not have been tested, but because the report doesn't have a device/appliance listed by location, it becomes impossible to determine from mere observation of the report.

This code change will result in better and more thorough inspections with minimal or no impact on inspection companies. They will be assured that everything has been tested, reducing their liability in the case where items are missed. Some companies are already providing a list by location of what they tested.

When a pull station hasn't been tested in a long time, it can become difficult to activate in a fire situation. Smoke detectors which haven't been tested can either lose their sensitivity or become overly sensitive. If these detectors are missed on the report, a fire can burn longer without being detected in the former case resulting in more damage or possible deaths and injuries, and in the latter false alarms can result.

The only difference between what is contained and required in NFPA 72 and the above proposed change is item #8. All other items are repeated from NFPA 72.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-2205.4

Nature of Change:

To specify a distance from gas pumps where smoking is prohibited.

Proponent: Robby Dawson, representing the Virginia Fire Services Board

Staff Comments:

The proposal was not received in time to be considered by the workgroups. The only staff suggestion is that to facilitate a greater distance is necessary, the proposal could be modified to read as follows:

2205.4 Sources of ignition. Smoking and open flames shall be prohibited in areas where fuel is dispensed. If not marked otherwise, the area shall extend at least 25 feet (7620 mm) away from any dispensing device. (Remainder unchanged)

COMMENT RECEIVED

Beginning on Page No. 140

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F-2205.4

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Robby Dawson Representing: Virginia Fire Services Board

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov Telephone Number: 804-717-6838

Proposal Information

Code(s) and Section(s): SFPC Section 2205.4

Proposed Change (including all relevant section numbers, if multiple sections):

Change Section 2205.4 to read:

2205.4 Sources of ignition. Smoking and open flames shall be prohibited in areas where fuel is dispensed and shall not be allowed within 25 feet of a dispensing device. The engines of vehicles being fueled shall be shut off during fueling. Electrical equipment shall be in accordance with the ICC *Electrical Code*.

Supporting Statement (including intent, need, and impact of the proposal):

The current language is subjective and is not quantifiable. Since this section applies to a variety of fueling operations that involve gasoline, LPG, CNG or hydrogen, the proposed change is to provide a measurable distance but still retain the subjective language aspect for the various circumstances based on the particular fuel to be dispensed.

As it may apply to smoking, open flames and the selected 25-foot distance, the common distances expressed in the fire code are 10, 25 and 50-foot separation from flammables and combustibles with 25-feet viewed as the most reasonable minimum distance from dispensers.

In recognition of the various circumstances that a 25-foot may be an insufficient distance, no attempt is being made to coordinate a change on how the proposed 25-foot distance would be conveyed to those using the fuel dispensers. Section 2205.6 currently requires signage to be "conspicuously posted with sight of each dispenser". It is up to the operator of the fueling facility on how to best comply with that requirement and can range from the most common scheme at public retail sites of posting signage on the dispensing unit itself or, very large free standing signs on the perimeter of a private fleet fueling area.

Submittal Information

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Robby Dawson Representing: Virginia Fire Services Board

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov Telephone Number: 804-717-6838

Proposal Information

Code(s) and Section(s): USBC 903.2.8 – **Substitute based on Work Group Comments**

Proposed Change (including all relevant section numbers, if multiple sections):

Proposed Change (including all relevant section numbers, if multiple sections):
Change Section 2205.4 to read:

2205.4 Sources of ignition. Smoking and open flames shall be prohibited within 25 feet (7,620mm) ~~in areas where fuel is dispensed and shall not be allowed within 25 feet~~ of a fuel dispensing device. The engines of vehicles being fueled

Supporting Statement (including intent, need, and impact of the proposal):

This language change is in response to feedback received at the Work Group Meeting March 25, 2010. The balance of the supporting statement is listed here for reference:

The current language is subjective and is not quantifiable. Since this section applies to a variety of fueling operations that involve gasoline, LPG, CNG or hydrogen, the proposed change is to provide a measurable distance but still retain the subjective language aspect for the various circumstances based on the particular fuel to be dispensed.

As it may apply to smoking, open flames and the selected 25-foot distance, the common distances expressed in the firecode are 10, 25 and 50-foot separation from flammables and combustibles with 25-feet viewed as the most reasonable
minimum distance from dispensers.

In recognition of the various circumstances that a 25-foot may be an insufficient distance, no attempt is being made to coordinate a change on how the proposed 25-foot distance would be conveyed to those using the fuel dispensers. Section 2205.6 currently requires signage to be "conspicuously posted with sight of each dispenser". It is up to the
operator of the fueling facility on how to best comply with that requirement and can range from the most common scheme at public retail sites of posting signage on the dispensing unit itself or, very large free standing signs on the perimeter of a private fleet fueling area.

Submittal Information

Date Submitted: 12/16/09 Substitute submitted 3/30/2010

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-3809.15

Nature of Change:

To add new, specific requirements for the exchange of LP-gas cylinders at locations accessible to the public.

Proponent: Robby Dawson, representing the Virginia Fire Services Board

Staff Comments:

The proposal was not received in time to be considered by the workgroups. The proposal was accepted at the first round of hearing at ICC for the 2012 IFC. It is not known whether any challenges have been submitted to the proposal at the national level. The supporting statement indicates the new requirements are an alterative to the outright banning of unsupervised exchange systems and that the LP-gas industry has been consulted with and is in agreement with the proposal.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F - 3809.15

Proponent Information (Check one): ☐ Individual X Government Entity ☐ Company

Name: Robby Dawson Representing: Virginia Fire Services Board

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov Telephone Number: 804-717-6838

Proposal Information

Code(s) and Section(s): New SFPC Section 3809.15 thru 3809.15.1

Proposed Change (including all relevant section numbers, if multiple sections):

3809.15 LP-Gas Cylinder Exchange for Resale. In addition to other applicable requirements of this chapter, facilities operating cylinder exchange stations for LP-gas that are accessible to the public shall comply with the following requirements.

1. Cylinders shall be secured in a lockable, ventilated metal cabinet or other approved enclosure.
2. Cylinders shall be accessible only by authorized personnel or by use of an automated exchange system in accordance with Section 3809.15.1.
3. A sign shall be posted on the entry door of the business operating the cylinder exchange stating "DO NOT BRING LP-GAS CYLINDERS INTO THE BUILDING" or similar approved wording.
4. An emergency contact information sign shall be posted within 10 feet of the cylinder storage cabinet. The content, lettering, size, color and location of the required sign shall be as required by the fire code official.

3809.15.1 Automated Cylinder Exchange Stations. Cylinder exchange stations that include an automated vending system for exchanging cylinders shall comply with the following additional requirements:

1. The vending system shall only permit access to a single cylinder per individual transaction.
2. Cabinets storing cylinders shall be designed such that cylinders can only be placed inside when they are oriented in the upright position.
3. Devices operating door releases for access to stored cylinders shall be permitted to be pneumatic, mechanical or electrically powered.
4. Electrical equipment inside of or within 5 feet of a cabinet storing cylinders, including but not limited to electronics associated with vending operations, shall comply with the requirements for Class 1, Division 2 equipment in accordance with the Electrical Code.
5. A manual override control shall be permitted for use by authorized personnel. On newly installed cylinder exchange stations, the vending system shall not be capable of returning to automatic operation after a manual override until the system has been inspected and reset by authorized personnel.
6. Inspections shall be conducted by authorized personnel to verify that all cylinders are secured, access doors are closed and the station has no visible damage or obvious defects, which necessitate placing the station out of service. The frequency of inspections shall be as specified by the fire code official.

Supporting Statement (including intent, need, and impact of the proposal):

The proposed change is the result of a collaborative effort between the ICC Joint Fire Service Review Committee (JFSRC) and the National Propane Gas Association to replace a proposed JFSRC change to the IFC (F218-09/10) that would have banned the placement and use of automated, unsupervised cylinder exchange systems. As a result of the collaboration, the IFC Code Committee accepted the modification at the recent code change hearings held in Baltimore with a unanimous 13 to 0 vote.

As opposed to waiting for the change to appear in the 2012 edition of the IFC, this early appearance in the '09 edition of the SFPC would provide consistent application and guidance across the state for both fire officials and the propane gas industry.

This change also addresses a technology currently being used, and will provide consistent guidance to local officials in dealing with this new product.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

SFPC – Virginia Statewide Fire Prevention Code
Code Change No. F-4601

Nature of Change:

To delete a chapter in the International Fire Code which sets out construction/retrofit requirements for existing buildings as the SFPC is a maintenance and operation code and cannot have any provisions relating to construction.

Proponent: DHCD Staff

Staff Comments:

This proposal was tentatively approved at the Codes and Standards Committee meeting of December 14, 2009 unless public comment is received during the Compilation Document comment period.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: F-4601

Proponent Information (Check one): ☐ Individual ☐ Government Entity ☐ Company

Name: Emory Rodgers, DHCD Staff Representing:

Mailing Address:

Email Address: Telephone Number:

Proposal Information

Code(s) and Section(s): Statewide Fire Prevention Code (SFPC) – Chapter 46

Proposed Change (including all relevant section numbers, if multiple sections):

Delete Chapter 46 of the International Fire Code (IFC) in its entirety.

Supporting Statement (including intent, need, and impact of the proposal):

Chapter 46 of the IFC is entitled, "Construction Requirements for Existing Buildings." It was added to the IFC in the 2009 edition at the national level for those states and localities which use the IFC as both a maintenance/operation code and a construction code. In Virginia, our statutory arrangement does not permit the use of this chapter under the SFPC as all construction requirements are covered by the Virginia Uniform Statewide Building Code. Even though enforcers of the SFPC are aware of Virginia's statutory scheme, since Chapter 46 of the IFC contains all construction provisions, it is recommended that it be deleted just to remove any ambiguity about misuse of the chapter.

Submittal Information

Date Submitted: 12/2/09

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

IBSR – Virginia Industrialized Building Safety Regulations
Code Change No. I-260

Nature of Change:

To slightly increase seal fees to offset the cost of administering the program.

Proponent: DHCD Staff

Staff Comments:

The proposed regulation changed the fee structure to charge by module rather than charging by building, although in practice most modular manufacturers were paying separate seal fees voluntarily for multiple module buildings. Staff has reviewed the costs of administering the program and requests a modest increase in the seal fees (from $50 to $75) to offset the administrative costs. More information on the program is provided in the supporting statement for the proposal.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: I-260

Proponent Information (Check one): ☐ Individual ☒ Government Entity ☐ Company

Name: Staff Representing: Division of Building and Fire Regulation

Mailing Address: 501 N. Second St.; Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov Telephone Number: (804) 371-7150

Proposal Information

Code(s) and Section(s): 13VAC 5-91 Industrialized Building Safety Regulations, **13 VAC 5-91-260**, Registration seal for industrialized buildings

Proposed Change (including all relevant section numbers, if multiple sections):

13 VAC 5-91-260. Registration seal for industrialized buildings.

A. Registered industrialized buildings shall be marked with ~~an~~ approved registration ~~seal~~ seals issued by the SBCAO. The ~~seal~~ seals shall be applied by the manufacturer to a registered industrialized building intended for sale or use in Virginia prior to the shipment of the building from the place of manufacture.

B. Registered industrialized buildings shall bear ~~a~~ one registration seal ~~for~~ on each ~~dwelling unit in residential occupancies. For nonresidential occupancies, a~~ manufactured section or module, or, as an alternative, the registration seal ~~is required for each registered~~ for each manufactured section or module may be placed in one location in the completed building.

C. Approved registration seals may be purchased from the SBCAO in advance of use. The fee for each registration seal shall be ~~$75~~ [~~$50~~ $75] . ~~Checks~~ Fees shall be submitted by checks made payable to "Treasurer of Virginia" or shall be submitted by electronic means." Payment for the seals must be received by the SBCAO before the seals can be sent to the user.

D. To the extent practicable, the registration seal shall be installed so that it cannot be removed without destroying it. It shall be installed near the label applied by the compliance assurance agency.

E. The compliance assurance agency or the manufacturer under the supervision of the compliance assurance agency shall maintain permanent records of the disposition of all Virginia registration seals obtained by the compliance assurance agency or manufacturer.

Supporting Statement (including intent, need, and impact of the proposal):

The registration seals for each modular unit are increasing from $50 to $75. The fee hasn't been increased since 2003. These funds support staff resources to review plans, to inspect industrialized manufacturing plants and to process and resolve complaints. The number of seals issued for the past 5 years has averaged around 4,000, but dropped to just 1600 for 2009. The program has to sustain its operations by seal fees. Industry has been consulted and has voiced no objections. Surrounding states charge higher fees by charging for seals, plan review and registration of third party inspection agencies. The Commonwealth of Virginia only charges for seals. A typical home has 2 modules so the fee would increase from $100 to $150. The agency is currently using about 3 FTE's to support the industrialized program at a cost of approximately $230,000.00 per year. The fee increase will bring in approximately $225,000 per year if 3000 seals are sold.

Submittal Information

Date Submitted: _____

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

VADR – Virginia Amusement Device Regulations
Code Change No. A-40

Nature of Change:

To incorporate the newest available ASTM standards into the regulation.

Proponent: Virginia Amusement Device Technical Advisory Committee

Staff Comments:

Generally when updating the regulation to a new edition, staff will determine whether any new ASTM standards are available and if so, those will be incorporated into the regulation.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: A-40

Proponent Information (Check one): ☐ Individual ☒ Government Entity ☐ Company

Name: Amusement Device Technical Advisory Committee, DHCD

Proposal Information

Code(s) and Section(s): Virginia Amusement Device Regulations (VADR)

Proposed Change (including all relevant section numbers, if multiple sections):

Change VADR Section 13 VAC 5-31-40 A as shown:

A. The following standards are hereby incorporated by reference for use as part of this chapter:

1. (no change)

2. American Society for Testing and Materials (ASTM) Standard Nos. F698-94 (Reapproved 2000), F747-06, F770-06a, F846-92 (Reapproved 2003), F853-05 F893-05a; F1159-03a, F1193-06, F1305-94 (Reapproved 2002), F1950-99, F1957-99 (Reapproved 2004), F2007-06, F2137-04 (Reapproved 2009) , ~~F2291-06a~~ F2291-09b , F2374-07a, F2376-06 and F2460-06 for the regulation of amusement devices.

Supporting Statement (including intent, need, and impact of the proposal):

This proposal incorporates the newest available ASTM standards into the regulation.

Submittal Information

Date Submitted:

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

VADR – Virginia Amusement Device Regulations
Code Change No. A-85

Nature of Change:

To require notification of DHCD as well as the local building department when there has been an accident involving serious injury or death.

Proponent: Virginia Amusement Device Technical Advisory Committee

Staff Comments:

The proposal would permit DHCD to play a more active role in trying to coordinate safety bulletins and recalls statewide and to be a clearinghouse for sharing information with other localities concerning accidents.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: A - 85

Proponent Information (Check one): ☐ Individual ☒ Government Entity ☐ Company

Name: Amusement Device Technical Advisory Committee, DHCD

Proposal Information

Code(s) and Section(s): Virginia Amusement Device Regulations (VADR)

Proposed Change (including all relevant section numbers, if multiple sections):

Change VADR Section 13 VAC 5-31-85 A as shown:

A. If an accident involving the serious injury or death of a patron occurs, the operation of an amusement device shall cease and the local building department and DHCD shall be notified as soon as practicable, ... (remainder unchanged).

Supporting Statement (including intent, need, and impact of the proposal):

This proposal would require the notification of DHCD as well as the local building official when a serious accident occurs. Earlier editions of the VADR had this requirement. DHCD will make every attempt to have staff available to assist in the coordination of responses, whether it would be to contact other localities, owners, operators or safety agencies.

Submittal Information

Date Submitted:

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office)
The Jackson Center
501 N. 2nd Street
Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7140 or (804) 371-7150

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

2009 Code Change Cycle – Code Change Evaluation Form

VADR – Virginia Amusement Device Regulations
Code Change No. A-280

Nature of Change:

To add provisions for accessibility for permanent park amusement rides.

Proponent: DHCD Staff

Staff Comments:

The proposal is a result of efforts of the Department to submit the Virginia Uniform Statewide Building Code to the U.S. Department of Justice (DOJ) for certification as being equal to or exceeding the requirements of the Americans with Disabilities Act (ADA). The U.S. Access Board has issued new regulations for accessibility which are anticipated to be incorporated into the ADA and which do address the accessibility of new permanent amusement rides in theme parks. This proposal comport with the federal requirements to assist the Department in obtaining certification from DOJ. The Amusement Device Technical Advisory Committee has reviewed the proposal and supports its approval.

Codes and Standards Committee Action:

_____ Approve as presented. _____ Disapprove.

_____ Approve as modified (specify):

_____ Carry over to next cycle. _____ Other (specify):

VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2009 Code Change Cycle

Code Change Number: A-280

Proponent Information (Check one): ☐ Individual ☒ Government Entity ☐ Company

Name: DHCD Staff

Proposal Information

Code(s) and Section(s): Virginia Amusement Device Regulations (VADR)

Proposed Change (including all relevant section numbers, if multiple sections):

Add new Part IX to the VADR as shown:

Part IX
Accessibility Requirements for Amusement Devices

13 VAC 5-31-280. Scope. This part shall apply to newly designed and constructed amusement devices for permanent installation and does not apply to amusement devices regularly assembled or dissembled. This part also does not apply to mobile, portable or temporary amusement devices set up for short periods of time such as at traveling carnivals, state and county fairs and festivals. For the purposes of this part, newly designed and constructed amusement devices are those which are new upon first use by patrons and the first permanent installation of the ride and would not include a ride which was moved within a park or to another park after several seasons of use.

13 VAC 5-31-290. Requirements.

Amusement devices subject to this part shall comply with applicable requirements of 36 CFR Part 1191 – Americans With Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines, 69 FR 44151-44455 (July 23, 2004).

Supporting Statement (including intent, need, and impact of the proposal):

This proposal is to comport with new federal requirements for accessibility in permanent park rides based on the new ADA/ABA Guidelines published by the U. S. Access Board. The VADR needs to have this requirement as part of the submittal by DHCD to the U. S. Justice Department to have our state building regulations certified by DOJ as meeting or exceeding the requirements of the ADA. While the change is submitted by DHCD staff as part of the DOJ certification efforts, the Amusement Device Technical Advisory Committee supports this change to the VADR.

Submittal Information

Date Submitted: December 8, 2009

The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.