

**BHCD CODES AND STANDARDS COMMITTEE
2012 CODE CHANGE CYCLE – BOOK 3
March 25, 2013**

Opening Statement

TAB 1

Consensus Proposals – February 28, 2013

Proposal Number	Description of Proposal	Page No.
VCC 108.2(2)	Permit exemption for accessory structures	1
VCC 108.2(10)	Permit exemption for well pumps	2
VCC 112.2	Damage caused by faulty materials	3
VCC 116.2	Contents of certificate of occupancy for universal design	4
VCC 310.6 (R320.2)	Voluntary standards for universal design	5
VCC 427	Short term holding areas	7
VCC 408.9	Windowless buildings	10
VCC 508.2.3	Accessory occupancies	13
VCC 703.7	Fire-resistance assembly marking	14
VCC 716.5.3.1	Smoke and draft control correlation	16
VCC 806.1.2	Suspended decorative material	18
VCC 903.2.1.3	Terminology for churches	21
VCC 903.2.7	Group M upholstered furniture	22
VCC 908.7	Carbon monoxide detectors (deleting state amendments)	23
VCC 1001.4	IBC requirements for fire safety plan	24
VCC 1015.1	Group R-2, single means of egress and sprinkler exceptions	25
VCC T1106.1	Accessible parking spaces (two proposals)	26
VCC 1106.3	Accessible parking spaces for outpatient clinics	30
VCC IECC C402.4.5.2	Damper exception for grease ducts for Type I hoods	31
VCC IECC C402.4.8	Recessed luminaires in thermal envelope	32
VCC IECC C405.1	Terminology (luminaire vs. light fixture)	33
VCC IECC C405.6	Exterior lighting	34
VCC IECC TR402.1.1	Wall insulation values	35
VCC IECC R403.1.1	Programmable thermostat	38
VCC 1403.5	NFPA 285 test for combustible water resistive barriers	39
VCC 2308.2	Concrete floor live load	41
VCC 2308.3.2.2	Blocking of rafters (consensus for disapproval)	42
VCC 2603.5.5	Sprinkler exception for exterior wall assembly test	43
VCC NEC 700.12(F)	Power supply for emergency lighting	45
VCC 2801.1 (908.5)	Evaporative cooler water	46
VCC 2901.1 (T403.1)	Outdoor swimming pools	49
VCC 2901.1 (403.1.3)	Marinas	50
VCC 2901.1 (403.3.2)	Toilet facilities on cemetery property	52
VCC 2901.1 (405.3.2)	Group E lavatory adjacent to room with water closet	54
VCC 3003.3	Fire service elevator keys	55
VCC 3006.4	Elevator control rooms and spaces	56
VCC 3109	Definition – International Swimming Pool and Spa Code	57
VMC 104.5.3	Approved inspection agencies	58
VADR § 75	Amusement devices on state-owned property	59

Consensus Proposals – March 12, 2013

Proposal Number	Description of Proposal	Page No.
VCC 101.6 and VRC 101.6	Order of precedence	60
VCC 102.3	Shipping containers	62
VCC 103.4	Additions	63
VCC 108.1	Restriping accessible parking spaces	65
VCC 113.6	Electronic notice of inspection	67
VCC 113.8	Energizing electrical service for final inspection	68
VCC IRC R202	Definition of habitable attic	69
VCC IRC R311.2.1	Accessible interior doors	70
VCC IRC R502.5	Porch headers	71
VCC IRC R507	Decks (3 proposals)	73
VCC IRC R602.3.1	Tall walls	88
VCC IRC R602.7.4	King studs	91
VCC IRC IECC R402.4.1.1	(Table) Air barriers (3 proposals)	93
VCC IRC G2411.1	CSST Arc-Resistant jacket	96
VADR §20	Definition of amusement device	98
VADR §30	Devices covered and not covered	99
VADR §20	Small Mechanical Rides and Inflatables	104
VADR §75	Fees	106
VCS- DHCD/BCAAC	Proposed revisions	108
Code Academy Standards	DHCD/BCAAC proposed revisions	113

TAB 2- Non-Consensus Proposals

Proposal Number	Description of Proposal	Page No.
VCC 110.4	Preliminary meeting - fire apparatus roads	1
VCC 905.2	Manual wet standpipe systems	2
VCC 915	In-building emergency communication systems	3
VCC 1007.1	Accessible means of egress in existing buildings	8
VCC 1022.5	Structural penetrations into stair enclosures	10
VCC 1101	Use of ADAAG standard	11
VCC IECC C402.1.1	Use of ASHRAE 90.1 in IECC	21
VCC IECC R202	Insulating unheated or cooled adjacent spaces	22
VCC IECC R404.1	Number of high-efficiency lamps	23
VCC 1403.2	Reference to IECC for exterior wall requirements	24
VCC NEC 334.10	Use of Type NM cable	28
VCC T2902.1	Portable toilets for outdoor events	29
VCC 3006.7	Deletion of collapsible guard design	31
VCC 3412.2.2	Partial change of occupancy	32
VCC Chapter 35	Use of 2010 ASME A17.1 elevator standard	33
VMC 606.1	Semi-annual elevator inspections	34

Non-Consensus Proposals – March 12, 2013

Proposal Number	Description of Proposal	Page No.
VCC 102.3.1 and 202	Automotive lifts (3 proposals)	35
VCC 103.10	Alterations and scope, energy conservation	40
VCC 108.2	Deck permit exemption	44
VCC IRC R302.5.1	Garage door	47
VCC IRC R806	Roof ventilation	49
VCC IRC R807	Attic access	51
VCC IRC R905.2.8.5	Drip edge	52
VCC IRC N1102.1.1	(Table) Wall insulation (2 proposals)	54
VCC IRC N1102.1.3	(Table) Ceiling insulation	61
VCC IRC N1102.4	Whole house testing	63
VCC IRC IECC R402.2.13	Mechanical rooms	66
VCC IRC IECC R402.4.1.1	(Table) Air barriers	68
VCC IRC IECC R403.2.2	Duct testing	69
VCC IRC IECC R403.4.2	Hot water pipe insulation	71
VCC IRC IECC R403.6 and M1401.3	Equipment sizing (2 proposals)	73
VCC IRC IECC R405.5.2(1)	(Table) Window glazing	77
VCC IRC M1501.2	Transfer air	79
VCC IRC M1503.4	Makeup air	80
VADR/VCC 102.3	Generators	82

TAB 3 – Consensus SFPC Proposals approved by Joint BHCD/FSB Committee

TAB 4 – Informational Items

Item Description	Page No.
Agenda for February 28 Workgroup meeting	1
Summary for February 28 Workgroup meeting	3
Agenda for March 12, Workgroup	11
Summary for March 12 Workgroup meeting	13
Summary from the December 20 CSC meeting	22

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

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

Name: John Catlett Representing: VBCOA Administration Committee

Mailing Address: 301 King Street, Alexandria, Virginia 22314

Email Address: john.catlett@alexandriava.gov Telephone Number: 703.746.4182

Proposal Information

Code(s) and Section(s): 108.2 Exemptions from Permit (Revised 9/27/120)

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

108.2 Exemptions from application for permit. . . .

2. One story detached ~~accessory~~ structures used as tool and storage sheds, playhouses or similar uses, provided the ~~floor~~ building area does not exceed ~~200~~ 256 square feet (18 m²) and the structures are not classified as a Group F-1 or H occupancy.

(No other changes)

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

This change would provide consistency with the provisions for the permanent foundation requirement threshold of 256 square feet found in the IBC; additionally, the word "accessory" is proposed for removal so that this exception can apply to tool and storage buildings that are not accessory to a specific building. An example would be a stand-alone storage shed at a park or cemetery. This only exempts the structure from building permit, not compliance with the VCC or local zoning requirements. This provides consistency with the model codes. **There is consensus within the VBCOA Administration Committee on this Code change.**

Submittal Information

Date Submitted: August 1, 2012

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual X Government Entity Company

Name: Skip Harper

Representing: Louisa County

Mailing Address: PO Box 160 Louisa, Va. 23093

Email Address: sharper@louisa.org

Telephone Number: 540-967-3414

Proposal Information

Code(s) and Section(s): 2012 USBC Section 108.2

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

10.2. Replacement of plumbing fixtures and well pumps in all groups without alteration of the water supply and distribution systems, sanitary drainage systems or vent systems.

Supporting Statement (including intent, need, and impact of the proposal):
In my opinion a well pump is part of the water supply system definition in both the IRC and IPC. This is no different than changing out electric hot water heaters or (10.4) replacement of mechanical appliances (electric), both which are currently exempt from permits.

No cost impact

Submittal Information

Date Submitted: 8/12/12

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: State Building Code Technical Review Board

Representing: _____

Email Address: _____

Telephone Number: _____

Proposal Information

Code(s) and Section(s): Virginia Construction Code, Section 112.1

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

Change Section 112.1 as shown below:

112.1 General. It shall be the duty of any person performing work covered by this code to comply with all applicable provisions of this code and to perform and complete such work so as to secure the results intended by the USBC. Damage to regulated building components caused by violations of this code or by the use of faulty materials or installations shall be considered as separate violations of this code and shall be subject to the applicable provisions of Section 115.

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

Arising as an issue in an appeal, the Review Board recommends that the above language be added to the code to clarify that damage to regulated components of a building caused by violations of the code or by faulty construction or installations are considered in and of themselves to be violations of the code. The reference to Section 115 is to reflect that, as with other violations of the code, the violations must be discovered within the statute of limitations period in order to compel correction, or would only be documented as violations if discovered after the statute of limitations period.

Submittal Information

Date Submitted: March 16, 2012



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: DRAFT

Proponent Information

(Check one): X Individual Government Entity Company

Name: John Catlett

Representing: VBCOA Administration Committee

Mailing Address: 301 King Street, Alexandria, Virginia 22314

Email Address: john.catlett@alexandriava.gov

Telephone Number: 703.746.4182

Proposal Information

Code(s) and Section(s): VCC Section 116.2 Content of Certificate (of Occupancy)

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

Revise Section 116.2 to add #6.

116.2 Contents of certificate. A certificate of occupancy shall specify the following:

1. The edition of the USBC under which the permit is issued.
2. The group classification and occupancy in accordance with the provisions of Chapter 3.
3. The type of construction as defined in Chapter 6.
4. If an automatic sprinkler system is provided and whether or not such system was required.
5. Any special stipulations and conditions of the building permit and if any modifications were issued under the permit, there shall be a notation on the certificate that modifications were issued.
6. Residential structures subject the provisions of IRC and meet the requirements of (section #/appendices #) for voluntary accessibility shall be noted on the certificate.

Reason Statement:

A companion change to provide voluntary code provisions for accessibility/uniform design requirements for buildings subject to the IRC. This change would only be applicable if those provisions are adopted. This would require noting that the structure complies with these voluntary provisions at time of occupancy.

Submittal Information

Date Submitted: Septemb

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)
600 East Main Street
Suite 300

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Fax Number: (804) 371-7092

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: 2011 HJR 648 Workgroup

Representing: _____

Email Address: _____

Telephone Number: _____

Proposal Information

Code(s) and Section(s): USBC, Virginia Construction Code Sections 310.6 (IRC Section R320.2) and 1109.16

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

Add new Section R320.2 to the International Residential Code to read as follows:

R320.2 Universal design features for accessibility in dwellings. Dwellings constructed under the International Residential Code not subject to Section R320.1 may comply with Section 1109.16 of Part I of the Uniform Statewide Building Code (13 VAC 5-63) and be approved by the local building department as dwellings containing universal design features for accessibility.

Add new Section 1109.16 to the Virginia Construction Code to read as follows:

1109.16 Dwellings containing universal design features for accessibility. Group R-5 occupancies not subject to Section R320.1 of the IRC and Group R-3 occupancies not subject to Section 1107.6.3 may comply with this section and be approved by the local building department as dwellings containing universal design features for accessibility.

1109.16.1 Standards for dwellings containing universal design features for accessibility. When the following requirements are met, approval shall be issued by the local building department indicating that a dwelling has been constructed in accordance with these standards and is deemed to be a dwelling containing universal design features for accessibility.

1. The dwelling must comply with the requirements for Type C units under Section 1005 of ICC A117.1 with the following changes to the those requirements.

1.1. That at least one bedroom be added to the interior spaces required by Section 1005.4 of ICC A117.1.

1.2. In the toilet room or bathroom required by Section 1005 of ICC A117.1, in addition to the lavatory and water closet, a shower or bathtub complying with Section 1004.11.3.2.3 of ICC A117.1 shall be provided and shall include reinforcement for future installation of grab bars in accordance with Section 1004.11.1 of ICC A117.1.

1.3. That the exception to Section 1005.4 of ICC A117.1 is not applicable.

1.4. That there be a food preparation area complying with Section 1005.7 of ICC A117.1 on the entrance level.

1.5. That any thermostat for heating or cooling on the entrance level comply with Section 1005.8 of ICC A117.1.

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

This proposal is to establish an optional standard for accessible dwellings in recognition that such features are not required in single

family dwelling construction, but that there needs to be a consistent standard when such features are desired. The proposal utilizes new Type C dwelling unit requirements developed for the ICC A117.1 standard through the International Code Council's code development process and also incorporates features from the Virginia EasyLiving Home program, for which tax credits are available. In addition, specifications consistent with the federal HUD guidelines for bathtub and showers are used.

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

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Fax Number: (804) 371-7092

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Organization

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

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): 2012 IBC, Section 202; Section 408.2.1, and new Section 427

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

Add new definition in Section 202 as follows:

SHORT-TERM HOLDING AREA. An area located in an occupancy other than I-3, containing holding cells and associated rooms or spaces, where occupants are restrained or detained by the use of security measures not under the occupant's control, and where holding cells and associated rooms or spaces are not intended for overnight accommodations.

Add new subsection 408.2.1 as follows:

408.2.1 Short-term holding areas. For short-term holding areas, refer to Section 427.

Add new Section 427 as follows:

SECTION 427
SHORT-TERM HOLDING AREAS

427.1 Applicability. The provisions of Sections 427.1 through 427.3 shall apply to all parts of buildings and structures that contain a *short-term holding area*.

427.2 Classification. Short-term holding areas shall be permitted to be classified as the main occupancy, provided all of the following are met:

1. Aggregate area of short-term holding areas shall not occupy more than 10 percent of the building area of the story in which they are located and shall not exceed the tabular value for building area in Table 503, without building area increases.
2. Detainee occupant load of each *short-term holding area* shall not exceed 30.
3. Aggregate detainee occupant load in short-term holding areas per building shall not exceed 120.
4. Compliance with the following:
 - a. Section 408.3.7.
 - b. Section 408.3.8.
 - c. Section 408.4.
 - d. Section 408.7.

5. Requirements of the main occupancy in which the *short-term holding area* is located shall be met.
6. Building or structure in which the *short-term holding area* is located shall be provided throughout with a *fire alarm system* in accordance with Section 907.2.6.3.
7. Building or structure in which the *short-term holding area* is located shall be fully sprinklered in accordance with Section 903.3.1.1.

427.3 Separation. Each *short-term holding area* shall be separated from each other and adjacent spaces by smoke partitions in accordance with Section 710.

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

The goal is to allow *short-term* holding (lockup) areas in occupancies other than 1-3, without applying I-3 provisions to the entire building (including, height limitations and smoke control system). This code change would address those situations where you have short-term holding areas located within *other* occupancies such as: courthouses, police stations, security offices (arenas, stadiums, airports, shopping mall, etc.), customs facilities, immigration facilities, and similar types of facilities, where the detainees are there for a limited time, do not inhabit or sleep in the holding cell, and the occupant load and aggregate area is limited.

I-3 is defined, in part, as buildings "that are *inhabited*" which must then be further defined as one of 5 conditions – where each condition refers to *sleeping* areas. Thus, it appears areas where detainees do not sleep and are held for a limited time do not meet the definition of an I-3 occupancy. However, I-3 is the closest occupancy classification (occupants under restraint or security and are generally incapable of self-preservation) and is almost always applied to such short-term holding cell / lockup areas – which creates ambiguities, including Section 408.2 (Other occupancies), and onerous requirements for the rest of the occupancies within the main building.

Section 408.2 has been interpreted and enforced differently by building officials throughout Virginia, and by locating short-term holding areas in its own "special detailed requirements" Section 427 – its potential to be classified as an I-3 occupancy is avoided and consistency should result.

This code change proposal takes some portions of two code change proposals (G33-12 and G37-12) that were "Disapproved" by the General Code Committee at the 2012 ICC Code Development Hearing in Dallas. Some of the reasons for disapproval of G33-12 and/or G37-12 included the following:

1. Confusion with psychiatric, neonatal, and dementia wards.
2. Occupant load of 50 seems too high and inconsistent with other IBC criteria and further coordination with I-3 occupant loads should be made.
3. No limitations on how many lockup facilities could be located within a building (could be used to replace I-3 occupancies).
4. Built-in systems were preferred over contacting the fire department.
5. Concerned with use of terms "trained and practiced."
6. Smoke barriers may make observation difficult.
7. Sprinklers were not required throughout the building, and only within the lockup facility.
8. A time limit needs to be placed upon the use of such facilities.

This code change proposal attempts to address the above reasons/concerns as follows (numbers correspond to above):

1. The new term *short-term holding area* would have its own definition and the requirements would be located under a new section, thus avoiding any potential for confusion with other I-related requirements except those specifically identified.

2. The proposed occupant load of 30 is a compromise between 10 (identified in Tables 1015.1 and 1021.2(2)) which would be too low; and 50 which was deemed by the General Code Committee to be too high.
3. Limitations are established by the following:
 - a. Limited to 10% of the building area per story.
 - b. Detainee occupant loads would be limited to 120 per *building*.
4. Short-term holding areas would still be required to meet *selected* requirements of I-3, including automatic alarm and detection systems, means of egress, glazing, sprinkler system throughout entire building, and locks.
5. The terms "trained and practiced" are not used in this code change proposal.
6. Smoke barriers would not be required since short-term holding areas are not sleeping areas, and the short-term holding areas are not "in" an I-3 occupancy. However, smoke partitions would be required.
7. An NFPA-13 sprinkler system and fire alarm system would be required throughout the building or structure.
8. No detainee shall occupy a short-term holding area "overnight" – thus avoiding the potential for the need to "sleep" within the holding area.

NFPA 5000 recognizes the need for such an approach, and includes provisions for such "lockup" areas.

To avoid potential issues with the Virginia Department of Corrections and their requirement to certify "lockups," the term "lockups" is not used in this code change proposal.

Construction costs should be reduced (no smoke control system, no need for Type I or IIA construction if short-term holding areas are on a 3rd floor or higher, and no need to fire-rate the enclosing and supporting construction) - compared to if I-3 requirements were applied to these holding areas and/or the rest of the building in which short-term holding areas are located.

Submittal Information

Date Submitted: ~~January 9, 2013~~ ~~February 22, 2013~~ March 5, 2013

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

Please submit the proposal to:

DHCD
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA and Brooks Ballard Representing: VSAIA and VDOC, respectively

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): 2012 IBC, Sections 202, 408.6, and 408.9

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

Add new definition in Section 202 as follows:

TENABLE ENVIRONMENT. An environment in which the products of combustion, including smoke, toxic gases, particulates, and heat, are limited or otherwise restricted in order to maintain the impact on occupants, including those in the area of fire origin, to a level that is not life threatening, and permits the rescue of occupants for a limited time.

Revise section 408.6 as follows:

408.6 Smoke barrier. Occupancies ~~in~~ classified as Group I-3 shall have *smoke barriers* complying with Sections 408.8 and 709 to divide every *story* occupied by residents for sleeping, or any other *story* having an *occupant load* of 50 or more persons, into no fewer than two smoke compartments.

Revise section 408.9 as follows:

408.9 ~~Windowless buildings.~~ Smoke control. ~~For the purposes of this section, a windowless building or portion of a building is one with nonopenable windows, windows not readily breakable or without windows. Windowless buildings shall be provided with an engineered smoke control system to provide a tenable environment for exiting from the smoke compartment in the area of fire origin in accordance with Section 909 for each windowless smoke compartment. Provide a smoke control system for each smoke compartment as required by Sections 408.9.1 through 408.9.2.~~

Exception: Smoke compartments with openable windows or windows that are readily breakable.

408.9.1 Locations. An engineered smoke control system shall comply with Section 909 and shall be provided in the following locations:

1. Dormitory areas.
2. Celled areas.
3. General housing areas.
4. Intake areas.
5. Medical celled or dormitory areas.
6. Interior recreation areas.

408.9.2 Compliance. The engineered smoke control system shall provide and maintain a *tenable environment* in the area of origin and shall comply with all of the following:

1. Shall facilitate the timely evacuation and relocation of occupants from the area of origin.
2. Shall be independent of exhaust systems under Chapter 5 of the *International Mechanical Code*.
3. Duration of operation in accordance with Section 909.4.6.
4. The pressurization method shall be permitted and shall provide a minimum of 24 air changes per hour of exhaust, and 20 air changes per hour of makeup, and shall comply with Section 909.6. If the pressurization method is not utilized, the exhaust method shall be provided and shall comply with Section 909.8.

408.9.3 Corridors. Egress corridors within smoke compartments shall be kept free and clear of smoke.

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

The application and interpretation of windowless buildings and smoke control systems oftentimes varies among building and/or fire officials because determining the requirements and the areas involved can be confusing. Should an office area have a smoke control system because it is on the same "story" as an I-3? Should a kitchen have a smoke control system because it is considered a "portion of a building" that also has an I-3 occupancy?

Regarding definition:

"Tenable environment" was not defined by the building code, so this code change mimics the definition being proposed for the proposed Virginia Board of Corrections (VBOC) standards for construction of jails, as well as, includes language used in NFPA 92A and 130 .

Regarding 408.6:

The proposal makes it clear that smoke barriers apply *only* to those spaces classified as I-3. The current text implies that *any* occupancy in an I-3 requires smoke barriers. This might include a kitchen that is on the other side of a separated corridor; or a dining room located down the corridor; or an office suite located 300 feet away, all because they are "occupancies in Group I-3" and/or are on the same "story" as a Group I-3. Since the proposed text clarifies that smoke barriers apply only to spaces that *are* Group I-3; the kitchen (B), dining room (A-2), and office suite (B) would not be required to have smoke barriers (unless otherwise required by other sections of the code); thus, they would not be required to have smoke compartments; thus they would not be required to have an engineered smoke control system (per Section 408.9).

This entire code change more closely follows the proposed standards for construction of jails being considered by the VBOC.

Regarding 408.9:

Section 408.9 changes terms so often, it can be confusing and has been interpreted in different ways across the Commonwealth. The text begins with *windowless* buildings, and then jumps immediately to *any* building, and back to windowless buildings. It then requires a smoke control system in a windowless *building*, but ends the paragraph requiring a smoke control system in each windowless smoke *compartment*. So, is a smoke control system required in:

- Only windowless buildings?
- In portions of buildings, regardless of whether it is windowless or not?
- Only windowless smoke compartments?
- All of the above?

The confusion has meant buildings with I-3 occupancies throughout the Commonwealth are not designed the same. Some building officials have required all areas in a windowless building to have a smoke control system. Some building officials have required a smoke control system only in each windowless smoke compartment, and not throughout the entire building. Some building officials have required other areas of the building not classified as I-3 (not a windowless building, but in a building that has smoke compartments) to have a smoke control system.

Is the issue about "windowless buildings" or "smoke control?" This code change proposal assumes the latter.

The proposed text clearly identifies where a smoke control system is required, and deletes the confusion of windowless buildings or portion of buildings. An exception was added to omit the smoke control system if there are methods by which the products of combustion could be passively ventilated. The new heading, "Smoke Control," gets straight to the intent of the code without confusing and unnecessary language.

If smoke control systems can be omitted from those areas that never were intended to have them, but were being required to have them based on various interpretations, then this code change would result in substantial cost savings in construction and provide the same or equivalent level of life safety.

Submittal Information

Date Submitted: ~~January 9, 2013~~ ~~February 25, 2013~~ March 4, 2013

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

Please submit the proposal to:

DHCD
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 508.2.3**

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

508.2.3 Allowable building area and height. The allowable *building area and height* of the building containing accessory occupancies shall be based on the allowable *building area and height* for the main occupancy in accordance with Section 503.1. ~~The height of each accessory occupancy shall not exceed the tabular values in Table 503, without increases in accordance with Section 504 for such accessory occupancies.~~ The *building area* of the accessory occupancies shall be in accordance with Section 508.2.1.

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

This proposed code change G126-12 was "Approved as Submitted" by the General Code Committee at the 2012 ICC Code Development Hearing in Dallas. The accompanying supporting statement is repeated below:

The current text of 508.2.3 literally limits the location of an accessory occupancy in a building to the tabular height in Table 503 for the occupancy of the accessory occupancy. Imposing this limit is a total contradiction to what the accessory occupancy design option was intended to allow. When literally applied, an office building of Type IIC construction that is allowed to be 4 stories in height with sprinklers, could not have closets or storage rooms above the 2nd story as they are a Group S-1 (storage) occupancy and the tabular height limit in Table 503 is 2 stories.

And I emphasize "tabular" height limit because as the code is currently written, no height increase can be taken for a fully sprinklered building used when determining the vertical location of an accessory occupancy.

Another example would be linen storage rooms (Group S-1) in hotels of Type IIB construction. Based on Table 503 the tabular building height limit (in stories) for a Group S-1 occupancy is 2 stories, where the hotel (Group R-2) is allowed to be up to 5 stories when sprinklered. Because Group S-1 occupancies are not allowed above the 2nd story, linen storage closets would not be allowed above the 2nd story – a hotel cannot literally function without those storage spaces.

Without this code change many building designs as we know them today would continue to literally not be allowed.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 VCC, Section 703.7**

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

703.7 Fire-resistance assembly marking. ~~Concealed~~ Where there is a concealed floor, floor-ceiling or attic space, fire walls, vertical fire separation assemblies, fire barriers, fire partitions, and smoke barriers, or any other wall required to have protected openings or penetrations, shall be designated above ceilings and on the inside of all ceiling access doors which provide access to such fire rated assemblies by signage having letters no smaller than one inch (25.4 mm) in height. Such signage shall indicate the fire-resistance rating of the assembly and the type of assembly and be provided at horizontal intervals of no more than eight feet (2438 mm).

Note: An example of suggested formatting for the signage would be "ONE HOUR FIRE PARTITION."

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

This is similar language as FS11-12, which was "Approved as Submitted" by the Fire Safety Code Committee at the 2012 ICC Code Development Hearing in Dallas and Portland.

The term "fire separation assemblies" is no longer a defined term in the VCC (legacy term from BOCA days); therefore, it should be deleted. Since shaft enclosures and stairways are required to be constructed with fire barriers, those are already covered by the charging language.

Since there may be situations where a protected opening may be required by provisions of the code other than those found in Chapter 7, the added language "or any other wall . . ." would address those occurrences.

Submittal Information

Date Submitted: ~~August 3, 2012~~ March 4, 2013

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

Please submit the proposal to:

DHCD
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Ron Clements

Representing: Chesterfield BI

Mailing Address: 9800 Government Center Parkway

Email Address: clementsro@chesterfield.gov

Telephone Number: (804) 751-4163

Proposal Information

Code(s) and Section(s): Section 716.5.3.1 Smoke and draft control to the IBC

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

Option #1 (Preference of proponent)

716.5.3.1 Smoke and draft control. *Fire door assemblies located in smoke barrier walls shall also meet the requirements for a smoke and draft control door assembly tested in accordance with UL 1784. The air leakage rate of the door assembly shall not exceed 3.0 cubic feet per minute per square foot (0.01524 m³/s · m²) of door opening at 0.10 inch (24.9 Pa) of water for both the ambient temperature and elevated temperature tests. Louvers shall be prohibited. Installation of smoke doors shall be in accordance with NFPA 105.*

Option #2

716.5.3.1 Smoke and draft control. *Fire door assemblies shall also meet the requirements for a smoke and draft control door assembly tested in accordance with UL 1784. The air leakage rate of the door assembly shall not exceed 3.0 cubic feet per minute per square foot (0.01524 m³/s · m²) of door opening at 0.10 inch (24.9 Pa) of water for both the ambient temperature and elevated temperature tests. Louvers shall be prohibited. Installation of smoke doors shall be in accordance with NFPA 105.*

Exception: Elevator hoistway doors opening into a fire rated corridor that is not serving as a smoke barrier are not required to meet the requirements for a smoke and draft control door assembly.

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

Reason: Virginia has deleted the elevator lobby requirements that were brought into the IBC from the ICBO legacy code. The BOCA legacy code adopted by Virginia prior to the formation of the ICC did not require elevator lobbies or the installation of draft control doors in rated corridors. When the ICC IBC was drafted the smoke and draft control corridor door requirement and the elevator lobby requirement were incorporated into the IBC. The Virginia BHCD evaluated the elevator lobby requirement and determined that the technical basis for requiring elevator lobbies was unfounded and deleted the requirement from the code. The corridor draft control requirement was not specifically evaluated and it remained in the VCC as adopted by the BHCD. One of the original reasons elevator lobbies were instituted into the ICBO Uniform code was because of the corridor draft control door requirement. An elevator door is fire rated but they cannot meet the S label draft control requirement; therefore, an ICBO interpretation was rendered that stated to meet the draft control door requirement elevator doors should be removed from the corridor with elevator lobbies. Later this interpretation evolved in to the codification of elevator lobbies in the ICBO Uniform Code. With elevator lobbies deleted from the VCC a conflict exist by maintaining a requirement that corridor doors opening to elevator hoistways be S labeled smoke doors, because they don't make smoke and draft control rated elevator doors. To comply

with the VCC you still need to install an elevator lobby to comply with section 716.5.3.1 if the elevator opens onto a fire rated corridor. This code change will resolve the conflict and meet the full intent of the BHCD decision to delete elevator lobby requirements.

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 806.1.2**

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

Revise Exception 1, add new Exception 2, and renumber Exception 2 to Exception 3, as follows:

[F] 806.1.2 Combustible decorative materials. The permissible amount of *decorative materials* meeting the flame propagation performance criteria of NFPA 701 shall not exceed 10 percent of the specific wall or ceiling area to which it is attached.

Exceptions:

1. In auditoriums or similar types of spaces in Group A, the permissible amount of decorative material meeting the flame propagation performance criteria of NFPA 701 shall not exceed 75 percent of the aggregate wall area where the building is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1 and where the material is installed in accordance with Section 803.11.
2. In auditoriums or similar types of spaces in Group A, the permissible amount of *decorative materials* suspended from the ceiling, located no more than 12 inches (305 mm) from the wall, not supported by the floor, and meeting the flame propagation performance criteria of NFPA 701, shall not exceed 75 percent of the aggregate wall area when the building is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1.
3. The amount of fabric partitions suspended from the ceiling and not supported by the floor in Group B and M occupancies shall not be limited.

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

Outside of a proscenium curtain (which is addressed in Section 410.3.5), it appears you would not be able to install any other type of curtain in an auditorium or other similar types of spaces (such as recital, rehearsal, and dance halls/studios) where the curtains exceed 10%, unless you could utilize Section 806.1.2, Exception 1.

However, Exception 1 as currently written requires compliance with Section 803.11.

- Section 803.11 involves *interior finishes*, not *decorative materials*, but it appears the exception treats *decorative materials* as *interior finishes* due to its reference to installation requirements within Section 803.11
 - So, are curtains considered a *decorative material* or an *interior finish* (or maybe even a wall or partition – in which case the code change would look closer to the current Exception 2)?
 - If an *interior finish*, then Section 806 would not be applicable at all
 - Therefore, the code must intend *decorative materials* (in this case, curtains) are not an *interior finish* – even if it exceeds 10%
- If we must then meet Section 803.11 for the installation of curtains:
 - Curtains are not directly attached to a substrate, so 803.11.1 would not be applicable
 - Curtains are not furred construction, so 803.11.1.1 would not be applicable
 - Curtains are not dropped ceilings, so 803.11.2.1 would not be applicable
 - Curtains do not entail heavy timber construction, so 803.11.3 would not be applicable
 - Curtains are not directly applied to a wall, ceiling, or structural element, so 803.11.4 would not be applicable
 - That leaves 803.11.2 – set out construction; however, curtains are not considered walls (or are they?) or ceilings, so it would appear 803.11.2 is not applicable
 - Even if curtains had to be installed per 803.11.2
 - Curtains, as a loose material, are not tested in accordance with ASTM E84 or UL 723 (which tests materials against walls or ceilings), so 803.1.1 would not be applicable
 - The code Commentary even states, the tests are not applicable to materials that are not capable of supporting themselves, or of being supported
 - Curtains, as a loose material and a textile, are not tested in accordance with NFPA 286 (room corner test), so 803.1.2 would not be applicable
 - So, how can you comply with set-out construction when your decorative material (curtain) is not tested per the referenced sections?

Therefore, the code change proposal:

1. Maintains Exception 1 for those decorative materials that would not be considered curtains/draperies.
2. Exceptions 1 and 2 include other locations where curtains are typically required, including A-1 facilities other than just auditoriums (which is not listed under Section 303 Assembly Group A), and similar type of spaces in A-3 (e.g., dance, rehearsal, and recital halls and studios).
3. New Exception 2 allows for those situations where you may have curtains such as borders, walk-arounds, travelers, cycloramas, etc., that exceed 10% and you want to utilize the exception, but could not due to the installation requirements of 803.11 – by deleting the installation requirements of 803.11.
4. All exceptions still require compliance with NFPA 701, which should be the only criteria *decorative materials* should meet; otherwise, if they had to meet ASTM E84, UL 723, or NFPA 286, then they should not be considered *decorative materials*, and they should be considered *interior finishes* or walls.

Submittal Information

Date Submitted: ~~August 13, 2012 August 16, 2012 August 27, 2012~~ —REVISED March 5, 2013

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

Please submit the proposal to:

DHCD
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual x Government Entity Company

Name: Frank Castelvechi, III PE

Representing: County of Henrico Building Inspections

Mailing Address: PO Box 90775, Henrico VA 23273

Email Address: cas13@co.henrico.va.us

Telephone Number: 804 501 4375

Proposal Information

Code(s) and Section(s): VA Construction code 903.2.1.3 base document

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

[C. Change Item 2 of Section 903.2.1.3 of the IBC to read:
2. In Group A-3 occupancies other than ~~churches~~ places of religious worship, the fire area has an occupant load of 300 or more; or

Supporting Statement (including intent, need, and impact of the proposal):
This proposed change is to provide inclusive language using a defined term consistent with that used in the IBC

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual x Government Entity Company

Name: Frank Castelvechchi, III PE

Representing: County of Henrico Building Inspections

Mailing Address: PO Box 90775, Henrico VA 23273

Email Address: cas13@co.henrico.va.us

Telephone Number: 804 501 4375

Proposal Information

Code(s) and Section(s): VA Construction code 903.2.7 base document

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

~~E. Change Section 903.2.7 of the IBC to read:
903.2.7 Group M. An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy where one of the following conditions exists:
1. A Group M fire area exceeds 12,000 square feet (1115 m²).
2. A Group M fire area is located more than three stories above grade plane.~~

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

This proposed change is to go with the language in the 2012 IBC IFC now that ICC has fixed the unreasonable zero threshold for this more hazardous merchandise and replaced it with a more reasonable 5000 sq ft threshold for upholstered furniture and mattresses.

Submittal Information

Date Submitted: 9/28/12

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 VCC, Section 908.7**

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

Add Sections 908.7, 908.7.1 and 908.7.2 to the IBC to read:

~~908.7 Carbon monoxide alarms. Carbon monoxide alarms shall be provided in new buildings and structures in accordance with this section.~~

~~908.7.1 Alarm requirements. Carbon monoxide alarms shall be single station, 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.~~

~~908.7.2 Where required. Carbon monoxide alarms shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units and outside of, but in the immediate vicinity of, each sleeping unit in all Group R occupancies located within buildings containing fuel-fired appliances or where a dwelling unit or sleeping unit in a Group R occupancy is attached to a Group U private garage.~~

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

This proposal would delete the state amendment for carbon monoxide alarms in the IBC to permit the use of the 2012 IBC provisions. When this state amendment was approved, the 2012 IBC had not been finalized. The 2012 IBC provisions are essentially the same as the state amendment however, the 2012 IBC language provides for the use of a common building alarm in lieu of alarms in dwelling units where no fuel-burning appliances or garages are located within one floor of the dwelling unit and there is no interconnecting ductwork.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 1001.4**

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

Delete Section 1001.4 in its entirety without substitution:

~~**1001.4 Fire Safety and Evacuation Plans.** Fire safety and evacuation plans shall be provided for all occupancies and buildings where required by the *International Fire Code*. Such fire safety and evacuation plans shall comply with the applicable provisions of Sections 401.2 and 404 of the *International Fire Code*.~~

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

Given the requirements of IFC 404, everything (evacuation plan procedures, assigned personnel, lockdown plans, training, maintenance, availability, and distribution) is operational related, and would be information an owner would need to prepare, submit, coordinate, and obtain ultimate approval from the fire official. This includes subsequent updates to the plans.

Since this requirement deals exclusively with operational procedures and not building construction, this requirement should remain in the IFC.

Submittal Information

Date Submitted: August 3, 2012

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: State Building Code Technical Review Board Representing: _____

Proposal Information

Code(s) and Section(s): Virginia Construction Code, Section 1015.1

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

Change Section 1015.1 as shown below:

1015.1 Exits or exit access doorways from spaces. Two exits or exit access doorways from any space shall be provided where one of the following conditions exists:

1. The occupant load of the space exceeds one of the values in Table 1015.1.

Exceptions:

1. In Group R-2 and R-3 occupancies, one means of egress is permitted within and from individual dwelling units with a maximum occupant load of 20 where the dwelling unit is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2. This exception shall also apply to Group R-2 occupancies where Section 903.2.8, Exceptions 1 or 2 are applicable.

(remainder of section unchanged)

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

The Review Board issued Interpretation No. 26/90 clarifying that buildings constructed under the exceptions to Section 903.2.8 were considered to be equivalent to buildings protected by a sprinkler system for the purposes of applying the single exit building provisions. Under the Review Board's statutory authority, interpretations issued by the Review Board, when deemed appropriate by the Review Board members, are forwarded to the Board of Housing and Community Development as recommendations for future amendments to the code.

Submittal Information

Date Submitted: March 16, 2012 (Amended Nov. 16, 2012)



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name (Representing): *Ken Fredgren*, Chairman, Reston Accessibility Committee of Reston Citizens Association, 703-391-9019, fredgren.k@gmail.com. (Lead contact.)
Teri Barker-Morgan, Program Manager, Virginia Board for People with Disabilities, Richmond, 804-786-9381, Teri.Barker@vbpd.virginia.gov.
Gayl Brunk, Executive Director, Valley Associates for Independent Living (VAIL), Harrisonburg, 540-433-6513, gayl@govail.org.
Marcia DuBois, Program Coordinator, Community Based Services-Field Rehabilitative Services, Department for Aging and Rehabilitative Services, Richmond, 804-662-7083, Marcia.DuBois@dars.virginia.gov.
Karen Michalski-Karney, Executive Director, Blue Ridge Independent Living Center, Roanoke, 540-342-1231, kmichalski@brilc.org.

Proposal Information

Code(s) and Section(s): USBC, Virginia Construction Code Table 1106.1

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

Modify table as shown:

TABLE 1106.1
ACCESSIBLE PARKING SPACES

TOTAL PARKING SPACES PROVIDED	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6 7
201 to 300	7 8
301 to 400	8 10
401 to 500	9 12
501 to 1000	≥ 2.5% of total
1,001 and over	20 25, plus one two for each 100, or fraction thereof, over 1,000

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

This proposal results from the initial review by DHCD workgroups of proposals submitted by a legislative study group (the HJR 648 Study Group). This proposal is offered as an additional compromise to the compromise proposal submitted by the HJR 648 study group and is being submitted by groups involved in the HJR 648 study.

The compromise builds on the first compromise proposal of requiring only additional accessible parking spaces in larger parking lots whereas the HJR 648 proposal increased the number of accessible spaces beginning with lots with a minimum of 26 parking spaces. In addition, this second compromise proposal reduces the proposed percentage change of accessible parking spaces from

3% to 2.5% in parking lots with 501 to 1000 spaces.

It is believed that a companion proposal requiring accessible parking spaces to be provided, if not already present, when a parking lot is restriped, will serve to increase accessible spaces in the smaller parking lots.

The table has not been revised in the 20 years since it was created, and our demography has changed appreciably. The proponents and others have noted that the table treats warehouses the same as restaurants, doctors' and dentists' offices, theaters, and grocery stores, implying that they serve the same people with the same frequency.

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name (Representing): *John Catlett – City of Alexandria 301 King Street, Room 4200 Alexandria Virginia 22314*
 703.746.4182. john.catlett@alexandriava.gov

Proposal Information

Code(s) and Section(s): USBC, Virginia Construction Code Table 1106.1

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

Modify table as shown:

TABLE 1106.1a
 ACCESSIBLE PARKING SPACES USE GROUPS A, B, E, M, R1, R2, I (a)

TOTAL PARKING SPACES PROVIDED	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 125	5
151 126 to 200-150	6
151 201 to 300-200	7
201 301 to 400-300	8
301 to 400	9
401 to 500	9 10
501 to 1000	2 2.33% of total
1,001 and over	20 23, plus one two for each 100, or fraction thereof, over 1,000

- a. Condominium parking in use group R2 where parking is part of the unit purchase shall be in accordance with table 1106.1b.

TABLE 1106.1b
 ACCESSIBLE PARKING SPACES USE GROUPS F, S, H, U

TOTAL PARKING SPACES PROVIDED	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2% of total
1,001 and over	20, plus one for each 100, or fraction thereof, over 1,000

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

This proposal results from the initial review by DHCD workgroups of proposals submitted by a legislative study group (the HJR 648 Study Group). This proposal is offered as an additional compromise to the compromise proposal submitted by the HJR 648 study group and is being submitted by groups involved in the HJR 648 study.

The code change recognizes a need to increase the number of accessible parking spaces in places of public accommodation due to a continually increasing number of disabled persons that have become mobile and capable of full function where barriers do not exist. In addition, we continue to be an aging community with many more people remaining independent for much longer during their life. Providing a greater number of accessible parking spaces near goods, service, entertainment, transportation, and medical care is necessary as more people fall in the category of disabled.

However, there are those facilities that do not demand the higher number of spaces. Examples would be R2 condominium units where parking is associated with unit purchases. In addition, storage facilities, factories, and high hazard facilities that sometimes exceed 1,000,000 square feet or more and are not open to the general public may be worthy of consideration of a reduction in disabled spaces for facilities with more than 500 parking spaces. The permit applicant could provide documentation to support a reduction to the building official for consideration.

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: 2011 HJR 648 Workgroup

Representing: _____

Email Address: _____

Telephone Number: _____

Proposal Information

Code(s) and Section(s): USBC, Virginia Construction Code Section 1106.3

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

Change Section 1106.3 to read as follows:

1106.3 ~~Hospital outpatient~~ Outpatient clinics and ambulatory health care facilities. At least 10 percent, but not less than one, of care recipient and visitor parking spaces provided to serve ~~hospital outpatient~~ clinics and ambulatory health care facilities shall be accessible parking spaces.

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

This proposal would require slightly more accessible parking spaces at newly constructed outpatient clinics and ambulatory surgery centers. The IBC already requires the additional spaces for medical facilities which are on hospital campuses.

Examples: An office would provide 2 accessible parking spaces if it had 20 parking spaces or 3 accessible parking spaces if it had 30 parking spaces. Minimal but efficacious changes.

Doctors and dentists, their associations and health insurance companies all repeatedly stress the critical importance of preventive health care. This proposal makes it more feasible for people with mobility limitations to participate in the preventive health care imperative, the purposes of which are to enhance people's quality of life, keep people out of hospitals insofar as possible and reduce health care costs.

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Stephen Turchen

Representing: Virginia Building & Code Officials Association

Mailing Address: Suite 316 / 12055 Government Center Parkway, Fairfax, VA 22035

Email Address: Stephen.turchen@Fairfaxcounty.gov

Telephone Number: 703-324-1653

Proposal Information

Code(s) and Section(s): 2012 IECC Sections C402.4.5.2 and C403.2.4.4

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

C402.4.5.2 Outdoor air intakes and exhausts. [Add the following exception:]
Exceptions:
3. Any grease duct serving a Type I hood installed in accordance with International Mechanical Code, Section 506.3, shall not be required to have a motorized or gravity damper.

C403.2.4.4 Shutoff damper controls. [Add the following exception:]
Exceptions:
3. Any grease duct serving a Type I hood installed in accordance with International Mechanical Code, Section 506.3, shall not be required to have a motorized or gravity damper.

Supporting statement:

These two IECC provisions potentially conflict with the IMC. With few current exceptions, the IECC tries to ensure that every duct or shaft that connects the (conditioned) interior of a commercial building to the (unconditioned) exterior have a damper installed that will prevent unwanted infiltration of outside air. In all cases under the IBC and IMC (except for this one), the open shaft or duct can have an air infiltration damper installed at or near the thermal envelope boundary without compromising health or life safety. However, for grease ducts ventilating Type I hoods installed under the IMC, IMC Section 506.3.7 specifically states, in part, *Duct systems serving a Type I hood shall be constructed and installed so that grease can not collect in any portion thereof ...* An air damper assembly would provide one or several surfaces on which grease could collect. The proposed revisions will avoid potential conflicts between the IECC and IMC and alleviate individual code officials from having to individually interpret this issue. Impact of the change will be to ensure the safety and integrity of grease duct installations.

Submittal Information

Date Submitted: _____

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Please submit the proposal to:

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Matt Westheimer

Representing: VBCOA Energy Conservation Committee

Mailing Address: 401 Lafayette Street, Williamsburg, VA. 23185

Email Address: mwest@williamsburgva.gov

Telephone Number: 757-220-6135

Proposal Information

Code(s) and Section(s): VCC (IECC Section C402.4.8)

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

Change Section C402.4.8 as shown:

Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate or not more 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E 283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires installed in the thermal envelope shall be sealed with a gasket or caulk between the housing and interior wall or ceiling covering.

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

Only Recessed lighting which is installed in the thermal envelope should have to be sealed.

Submittal Information

Date Submitted: 3/21/12 modified 6/25/12

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)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov
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VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
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Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Matt Westheimer

Representing: VBCOA Energy Conservation Committee

Mailing Address: 401 Lafayette Street, Williamsburg, VA. 23185

Email Address: mwest@williamsburgva.gov

Telephone Number: 757-220-6135

Proposal Information

Code(s) and Section(s): VCC (IECC C405.1)

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

C405.1 General (Mandatory). (no change to text of section)

Exception: Dwelling units within commercial buildings shall not be required to comply with Sections C405.2 through C405.5 provided that not less than 75 percent of the permanently installed ~~light fixtures~~ luminaires, other than low voltage lighting, shall be fitted for, and contain only, high efficacy lamps.

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

To make the wording when referring to lighting consistent with NEC.

Submittal Information

Date Submitted: 6/25/12

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)

600 East Main Street

Suite 300

Richmond, VA 23219

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Stephen Turchen

Representing: Virginia Building & Code Officials Association

Mailing Address: Suite 316 / 12055 Government Center Parkway, Fairfax, VA 22035

Email Address: Stephen.turchen@Fairfaxcounty.gov

Telephone Number: 703-324-1653

Proposal Information

Code(s) and Section(s): 2012 IECC Section C405.6

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

Change Section C405.6 as shown:

C405.6 Exterior lighting (Mandatory). ~~Where the power for exterior lighting is supplied through the energy service to the building,~~
aAll exterior lighting, other than low-voltage landscape lighting, shall comply with Sections C405.6.1 and C405.6.2.

Exception: Where approved because of historical, safety, signage or emergency considerations.

Supporting statement:

The proposal would have the IECC apply to all exterior lighting, rather than just exterior lighting fed from the electric service of the building. This would eliminate the loophole of using a separate service for the exterior lighting and thereby not have it subject to the code.

Submittal Information

Date Submitted: _____

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Matt Westheimer

Representing: VBCOA Energy Committee

Mailing Address: 401 Lafayette Street, Williamsburg, VA. 23185

Email Address: mwest@williamsburgva.gov

Telephone Number: 757-220-6135

Proposal Information

Code(s) and Section(s): Table R402.1.1 and Table R402.1.3

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

See attached new Table R402.1.1 and 402.1.3

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

Changing the R value for Frame Walls in the tables from R-20 or 13+5 to **R-15** will still allow the use of a 2 X 4 for wall framing. This would be a moderate increase from R-13, and would still give greater energy efficiency.

Submittal Information

Date Submitted: 1-2-13

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)

600 East Main Street

Suite 300

Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov

Fax Number: (804) 371-7092

Phone Numbers: (804) 371-7140 or (804) 371-7150



TABLE R402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b, e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ⁱ	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^c WALL R-VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13+5 ^h	8/13	19	5/13 ^f	0	5/13
4 except Marine	0.35	0.55	0.40	49	20 or 13+5 ^h 15	8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13+5 ^h	13/17	30 ^g	15/19	10, 2 ft	15/19
5	0.32	0.55	NR	49	20+5 or 13+10 ^h	15/20	30 ^g	15/19	10, 4 ft	15/19
7 and 8	0.32	0.55	NR	49	20+5 or 13+10 ^h	19/21	38 ^g	15/19	10, 4 ft	15/19

For SI: 1 foot = 304.8 mm.

a. *R*-values are minimums. *U*-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed *R*-value of the insulation shall not be less than the *R*-value specified in the table.

b. The fenestration *U*-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.

c. "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the home. "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

d. R-5 shall be added to the required slab edge *R*-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3 for heated slabs.

e. There are no SHGC requirements in the Marine Zone.

f. Basement wall insulation is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1.

g. Or insulation sufficient to fill the framing cavity, R-19 minimum.

h. First value is cavity insulation, second is continuous insulation or insulated siding, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation or insulated siding. If structural sheathing covers 40 percent or less of the exterior, continuous insulation *R*-value shall be permitted to be reduced by no more than R-3 in the locations where structural sheathing is used – to maintain a consistent total sheathing thickness.

i. The second *R*-value applies when more than half the insulation is on the interior of the mass wall.

R402.1.2 *R*-value computation.

Insulation material used in layers, such as framing cavity insulation and insulating sheathing, shall be summed to compute the component *R*-value. The manufacturer's settled *R*-value shall be used for blown insulation. Computed *R*-values shall not include an *R*-value for other building materials or air films.

R402.1.3 U-factor alternative.

An assembly with a *U*-factor equal to or less than that specified in Table R402.1.3 shall be permitted as an alternative to the *R*-value in Table R402.1.1.

TABLE R402.1.3 EQUIVALENT U-FACTORS^a

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
1	0.50	0.75	0.035	0.082	0.197	0.064	0.360	0.477
2	0.40	0.65	0.030	0.082	0.165	0.064	0.360	0.477
3	0.35	0.55	0.030	0.057	0.098	0.047	0.091 ^c	0.136
4 except Marine	0.35	0.55	0.026	0.057 0.067	0.098	0.047	0.059	0.065
5 and Marine 4	0.32	0.55	0.026	0.057	0.082	0.033	0.050	0.055
6	0.32	0.55	0.026	0.048	0.060	0.033	0.050	0.055
7 and 8	0.32	0.55	0.026	0.048	0.057	0.028	0.050	0.055

a. Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source.

b. When more than half the insulation is on the interior, the mass wall U-factors shall be a maximum of 0.17 in Climate Zone 1, 0.14 in Climate Zone 2, 0.12 in Climate Zone 3, 0.087 in Climate Zone 4 except Marine, 0.065 in Climate Zone 5 and Marine 4, and 0.057 in Climate Zones 6 through 8.

c. Basement wall U-factor of 0.360 in warm-

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Stephen Turchen

Representing: Virginia Building & Code Officials Association

Mailing Address: Suite 316 / 12055 Government Center Parkway, Fairfax, VA 22035

Email Address: Stephen.turchen@Fairfaxcounty.gov

Telephone Number: 703-324-1653

Proposal Information

Code(s) and Section(s): 2012 IECC R403.1.1

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

R403.1.1 Programmable thermostat. ~~Where the primary heating system is a forced air furnace, at least one thermostat per~~ **The thermostat controlling the primary heating or cooling system of the dwelling unit shall be capable of controlling the heating and cooling system on a daily schedule to maintain different temperature set points at different times of the day. [Remainder of paragraph unchanged.]**

Supporting Statement (including intent, need, and impact of the proposal):
This suggested change recognizes that forced air heating and air conditioning systems are not the only systems that may benefit from programmable thermostats. Hydronic, radiant electric, and solar thermal systems could also be programmed for night or "unoccupied" setback periods. The proposal concurrently clarifies that the primary heating or cooling system, at minimum, is the system that should receive the programmable thermostat. This clarification is necessary for those residential dwelling units that have multiple systems; e.g., first floor / second floor forced air systems, or radiant electric systems with thermostats in each room. Which system must have a programmable thermostat? It is the "primary" system, typically the one serving the largest area of the dwelling, but subject to reasonable interpretation by the Building Official. Impact of this proposal may be to reduce installation of unnecessary programmable thermostats in multiple H/AC systems.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA and Keith P. Nelson, AIA Representing: VSAIA and BETEC, respectively

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 1403.5**

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

Delete the section in its entirety without substitution:

~~**1403.5 Vertical and Lateral Flame Propagation.** Exterior walls on buildings of Type I, II, III or IV construction that are greater than 40 feet (12 192 mm) in height above grade plane and contain a combustible water resistive barrier shall be tested in accordance with and comply with the acceptance criteria of NFPA 285.~~

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

There are materials that are available, tried and tested by long-term proven history of performance as weather barriers, without demonstrated data suggesting these materials contribute to personal loss of life or injuries and/or property damage. Section 1403.2 of the IBC requires weather-resistive barriers while Section 1403.5 requires them to be tested to the NFPA 285 standard if they are combustible; however, many (if not all) of these materials that are traditionally used and have proven their value may not be able to meet the NFPA 285 test standard.

Based on recent ICC testimony, it is clear that the addition of 1403.5 was an over-reaching reaction to laboratory test results - not documented loss of life or property damage. The addition of this requirement may have unanticipated consequences, including severe cost implications. We are not aware of any empirical data suggesting combustible WRBs have been, are, or will be, a problem.

The 40-foot requirement could possibly affect two story buildings (with higher floor-to-floor heights on a sloping site) and will affect nearly all 3-story buildings. So, this change will affect a large portion of buildings constructed in Virginia each year.

Based on ICC testimony, several WRB manufacturers have tested their products in accordance with NFPA 285 without additional combustible products in the wall (i.e. foam plastics), and passed.

Cost Impact: The proposed code change will *reduce* the cost of construction between \$15,000 - \$50,000 per exterior wall assembly type. Projects typically contain multiple types of wall assemblies which would multiply this cost. Since the NFPA 285 test is for an "assembly" and not just for components, and does not allow for substitution of materials (including substitution of manufacturers) within an assembly, then technically, a test would need to be conducted every time a single component changes within an exterior wall assembly (components could include veneers, insulation, WRB, back-up, sheathing, and interior finishes).

- For example, you may have a building that changes from a brick veneer to siding = two tests @ \$25,000/test.
- You may have an exterior wall assembly that switches from CMU back-up to studs = two tests @ \$25,000/test.
- You may have brick-on-CMU and brick-on-studs; and siding-on-CMU and siding-on-studs = four tests @ \$25,000/test.
- If you have varying interior finishes on each of the exterior wall assemblies (some may have just painted gypsum, some may have wall-coverings, some may have wainscoting, some may have decorative materials, etc.), then technically, a separate NFPA 285 test must be conducted for each one of the different "assemblies."

Therefore, the potential cost impact this new code requirement will inflict on Virginia construction – and was done so without data suggesting it is even warranted – has the potential of reaching six (6) digits.

Obtaining "engineering opinions" are almost always limited in their "opinion" to a very specific assembly made of specific components and for a specific project. Although they cost less than the NFPA 285 test, multiple "opinions" may still be needed for each project and could still cost upwards of \$15-20,000 or more per project.

Submittal Information

Date Submitted: ~~November 29, 2012~~ March 5, 2013

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

Please submit the proposal to:

DHCD
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Chris Snidow Representing: Self

Mailing Address: P.O. Box 90775 Henrico, VA 23273

Email Address: sni@co.henrico.va.us Telephone Number: 804.501.4363

Proposal Information

Code(s) and Section(s): IBC Section 2308

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

SECTION 2308 "CONVENTIONAL LIGHT-FRAME CONSTRUCTION"
Paragraph 2308.2 "Limitations"
Item 3.2 "Live loads shall not exceed 40 PSF (1616 N/m²) for floors."

ADD: "Exception: Concrete slab-on-grade live load limited only by allowable soil bearing pressure."

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

Clarifies intent of CLFC limitations as concrete slab on grade construction is independent of the foundations below and prescriptive wood framing above.

Submittal Information

Date Submitted: June 11, 2012

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

Please submit the proposal to:

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600 East Main Street
Suite 300
Richmond, VA 23219

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VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
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Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Chris Snidow Representing: Self

Mailing Address: P.O. Box 90775 Henrico Virginia 23273

Email Address: sni@co.henrico.va.us Telephone Number: 804.501.4363

Proposal Information

Code(s) and Section(s): IBC Section 2308 CONVENTIONAL LIGHT-FRAME CONSTRUCTION

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

SECTION 2308 "CONVENTIONAL LIGHT-FRAME CONSTRUCTION"

Revise 2308.3.2.2 as follows:

First Paragraph, third sentence:

"Blocking at *of* rafters *is required above braced wall panels. All blocking* used need not be full depth...."

Third Paragraph, first sentence:

"...lateral forces shall be transferred from the roof diaphragm to the braced wall over the full length of the braced wall ~~line~~ *panel* by blocking..."

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

Revision of IBC to make it congruent with requirements of IRC Chapter 6.

Submittal Information

Date Submitted: June 11, 2012

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DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 2603.5.5**

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

2603.5.5 Vertical and lateral fire propagation. The exterior wall assembly shall ~~be tested in accordance with and~~ comply with one of the following: acceptance criteria of NFPA 285.

~~Exception: One-story buildings complying with Section 2603.4.1.4.~~

1. One-story buildings complying with Section 2603.4.1.4.
2. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
3. The exterior wall assembly shall be tested in accordance with and comply with the acceptance criteria of NFPA 285.

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

The fire source of the NFPA 285 test originates on the inside of the building. Thus, a sprinkler system should address the fire / flames prior to the flames breaking outside the window opening and progressing up the cavity and/or exterior of the wall assembly. Thus, a fully sprinklered building should be an acceptable alternative to the referenced NFPA test, especially given its potential cost impact (refer below).

Option #1 is already allowed as an exception, and Option #3 is currently part of the original Section language. So, this code change proposal merely adds one other option to consider – and one that could potentially save \$100,000 or more per project.

Another factor to consider is the code requirement for "continuous insulation" ('ci'). With the requirement for 'ci' we will have exterior wall assemblies with insulation *outside* of CMU and/or stud back-ups (not *inside* studs like has been typically done prior to the 'ci' requirements – because that is not considered "continuous" by code definition). So, on the one hand, the code basically requires insulation in the cavity of the wall assembly and on the other hand, requires that insulation be tested as part of an assembly. So, the chances of being able to avoid the NFPA 285 testing has been basically eliminated.

Cost Impact: The proposed code change will *reduce* the cost of construction between \$25,000 - \$35,000 per exterior wall assembly type. On average, there may be as many as 3 or more different exterior wall assemblies per project; thus, equating to a potential cost savings of approximately \$100,000 per project. Since the NFPA 285 test is for an "assembly" and not just components, then technically, a test would need to be conducted every time a single component changes within an exterior wall assembly (components could include veneers, insulation, WRB, back-up, sheathing, and interior finishes).

- For example, you may have a building that changes from a brick veneer to siding = two tests @ \$25,000/test.
- You may have an exterior wall assembly that switches from CMU back-up to studs = two tests @ \$25,000/test.
- You may brick-on-CMU and brick-on-studs; and siding-on-CMU and siding-on-studs = four tests @ \$25,000/test.
- If you have varying interior finishes on each of the exterior wall assemblies (some may have just painted gypsum, some may have wall-coverings, some may have paneling, some may have decorative materials, etc.), then technically, a separate NFPA 285 test must be conducted for each of the different "assemblies"

Submittal Information

Date Submitted: November 29, 2012

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Haywood Kines

Representing: Haywood Kines

Mailing Address: 5 County Complex Ct. Woodbridge, Va. 22192

Email Address: hkines@pwcgov.org

Telephone Number: (703) 792-7064

Proposal Information

Code(s) and Section(s): 2011 NEC Art. 700, Section 700.12 (F) Excp. #2

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

~~Art. 700 Section 700.12(F) Exception No. 2 Remote heads providing lighting for the exterior of an exit door shall be permitted to be supplied by the unit equipment serving the area immediately inside the exit door.~~

Art. 700 Section 700.12(F) Exception No. 2 Where the normal power branch circuits that supply luminaries providing illumination immediately on the inside and outside of exit doors are supplied by the same service or feeder, the remote heads providing emergency illumination for the exterior of an exit door shall be permitted to be supplied by the unit equipment serving the area immediately inside the exit door.

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

The Emergency lighting is required under the 2012 IBC Chapter 10 Section 1006 at all required Exits. This new exception as written in the NEC creates multiple situations for the required exterior Emergency lighting to fail to provide the Emergency lighting. The Exterior Normal lighting can be fed from a separate Service point or fed from a separate Metered Tenant Feeder. The loss of partial power to the building, power failure in Feeders, circuits, or equipment failure could create situations where public exiting the building would be directed to areas without any illumination to the Public Way. This lighting can be provided with Listed Luminaries that provide both normal and emergency lighting and small Inverters/UPS systems on the House lighting circuits that feeds typical wall packs provided by the Building owner. Under the U.S.B.C. we have the opportunity to correct the wording for power source to lighting which would assure the required Emergency lighting per IBC Chapter 10 Section 1006 will be provided in any emergency situation.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Guy Tomberlin

Representing: Fairfax County and VPMIA/VBCOA Code Committees

Mailing Address: 12055 Government Center Parkway Fairfax, Virginia 22030

Email Address: guy.tomberlin@fairfaxcounty.gov

Telephone Number: 703-324-1611

Proposal Information

Code(s) and Section(s): VMC Sections 908.5 and 928.1

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

See attached ICC proposals, M164 and 168 that were approved for inclusion in the 2015 International Mechanical Code.

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

See attached

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



M164-12

908.5

Proponent: Guy Tomberlin, Fairfax County Virginia, representing Fairfax County Virginia
(guy.tomberlin@fairfaxcounty.gov)

Revise as follows:

908.5 Water supply. Cooling towers, evaporative coolers and fluid coolers shall be provided with an approved water supply, sized for peak demand. The quality of water shall be provided in accordance with the equipment manufacturer's recommendations. Water supplies ~~The piping system and protection of the potable water supply system shall be installed~~ as required by the *International Plumbing Code*.

Reason: Various water resources are being utilized across the nation in many different ways. This is being done for many various reasons. Some are because of water shortages, others are in effort to simply conserve our precious resources and others are being done to constructively utilize rain water and properly treated re-use water. Technology provides us with the options for many different water reuses such as reclaimed and rainwater. This proposal clarifies that if the quality of water can be achieved then alternate sources shall be permitted. In addition if an interconnection or back up is provided with the potable system then proper cross connection contamination prevention shall be provided in accordance with the International Plumbing Code. Lastly, the piping system shall be installed according to the International Plumbing Code.

Cost Impact: reduces the cost below current requirements for the initial installation and throughout the life of the structure.

M164-12

Public Hearing:	Committee:	AS	AM	D
	Assembly:	ASF	AMF	DF

908.5-M-TOMBERLIN.DOC



M168-12

928.1

Proponent: Guy Tomberlin, Fairfax County VA, representing Fairfax County Virginia
(guy.tomberlin@fairfaxcounty.gov)

Revise as follows:

928.1 General. Evaporative coolers equipment shall:

1. Be installed in accordance with the manufactures instructions.
2. Be installed on a level platform in accordance with section 304.10.
3. Have openings in exterior walls or roofs flashed in accordance with the *International Building Code*.
4. ~~Be provided with potable water backflow protection in accordance with section 608 of the *International Plumbing Code*.~~ Be provided with an approved water supply, sized for peak demand. The quality of water shall be provided in accordance with the equipment manufacturer's recommendations. The piping system and protection of the potable water supply system shall be installed as required by the *International Plumbing Code*.
5. Have air intake opening locations in accordance with Section 401.4.

Reason: This is consistent action in accordance with the proposal submitted to Section 908 for cooling towers. Various water resources are being utilized across the nation in many different ways. This is being done for many various reasons. Some are because of water shortages, others are in effort to simply conserve our precious resources and others are being done to constructively utilize rain water and properly treated re-use water. Technology provides us with the options for many different water reuses such as reclaimed and rainwater. This proposal clarifies that if the quality of water can be achieved then alternate sources shall be permitted. In addition if an interconnection or back up is provided with the potable system then proper cross connection contamination prevention shall be provided in accordance with the International Plumbing Code. Lastly, the piping system shall be installed according to the International Plumbing Code.

Cost Impact: reduces the cost below current requirements for the initial installation and throughout the life of the structure.

M168-12

Public Hearing:	Committee:	AS	AM	D
	Assembly:	ASF	AMF	DF

928.1-M-TOMBERLIN.DOC

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: DHCD Workgroup 4, sub-workgroup 2 (pools and marinas)

Proposal Information

Code(s) and Section(s): VCC (IBC and IPC)

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

Change Section 303.6 of the IBC as shown:

303.6 Assembly Group A-5. Assembly used intended for participation in or viewing outdoor activities including, but not limited to:

- Amusement park structures
- Bleachers
- Grandstands
- Stadiums
- Swimming pools

Change the Group A-5 row of Table 403.1 of the IPC and Table 2902.1 of the IBC and add a new footnote "h" as shown:

OCCUPANCY	DESCRIPTION	(remainder unchanged)
A-5	Stadiums, amusement parks, <u>pools</u> , bleachers and grandstands for outdoor sporting events and activities ^h	(remainder unchanged)

h. The occupant load for pools shall be in accordance with the "Skating rinks, swimming pools" category of Table 1004.1.2 of the International Building Code (of "this code" for the IBC table).

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

This proposal is to set minimum plumbing fixture requirements for bathrooms at outdoor swimming pools to correlate with requirements of the Virginia Department of Health (VDH) for fixtures at swimming pools under their authority as a matter of functional design and to permit VDH to delete the requirements in their regulations since they could be perceived as "building regulations" which would be superseded by the USBC.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Workgroup 4, Sub-workgroup on Marinas Representing: _____

Proposal Information

Code(s) and Section(s): VCC, International Building Code (IBC) and International Plumbing Code (IPC)

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

Add the following definitions to Section 202 the IBC:

MARINA. Any installation, operating under public or private ownership, which has a structure providing dockage or moorage for boats, other than paddle or rowboats, and provides, through sale, rental, fee or free basis, any equipment, supply or service, including fuel, electricity or water, for the convenience of the public or its lessee, renters or users of its facilities. A dock or pier with or without slips which exclusively serves a single family residential lot for the use of the owner of the lot is not a marina.

SLIP. A berth or space where a boat may be secured to a fixed or floating structure, including a dock, finger pier, boat lift or mooring buoy.

Add the term "Marinas" to the list of structures in Section 312 of the IBC.

Add new Section 403.1.3 to the IPC to read as follows:

403.1.3. Marina fixtures. Notwithstanding any provision to the contrary, plumbing fixtures shall be provided for marinas in the minimum number shown in Table 403.1.3. Fixtures shall be located within 500 feet walking distance from the shore end of any dock they serve. Separate facilities shall be provided for each sex with an equal number of fixtures of each type in each facility, except that separate facilities are not required where the number of slips is less than 25. Urinals may be substituted for up to 50 percent of water closets.

Note: The Virginia Department of Health has functional design responsibility for sewerage systems at marinas and other places where boats are moored. See the Related Laws Package, available from DHCD, for further information.

Add new Table 403.1.3 to the IPC to read as follows:

**TABLE 403.1.3
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES FOR MARINAS**

Number of Slips	Plumbing Fixtures		
	Water Closets	Lavatories	Showers
1-24	1	1	1
25-49	4	4	2
50-99	6	4	2
100-149	8	6	4
150-199	10	8	4
200-249	12	10	6
250 or greater	Two additional fixtures of each type for each 100 additional slips		

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

This proposal adds requirements for minimum plumbing fixtures to be provided at marinas. The requirements are based on regulations in place under the Virginia Department of Health; however, since under state law requirements for the construction of buildings should be in the Virginia Construction Code, this proposal was developed to bring those requirements from the Health Department's regulations into the Virginia Construction Code.

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Mike Doherty

Representing: Virginia Cemetery Association

Mailing Address: P.O. Box 74428, N. Chesterfield, Virginia 23236

Email Address: mikedoherty@att.net

Telephone Number: (804) 675.7502

Proposal Information

Code(s) and Section(s): VPC Section 403.3.2

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

Add new text into existing exception.

Section 403.3.2 Section to remain unchanged but Add new number to existing Exception as #1 and add new exception #2 with text as follows.

403.3.2 Location of public toilet facilities in occupancies other than covered malls. In occupancies other than covered mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet.

Exception:

1. The location and maximum travel distances to the required employee facilities in factory and industrial occupancies are permitted to exceed that required by this section, provided that the location and maximum travel distance are approved.
2. The location and maximum travel distances to the required public facilities located on cemetery property are permitted to exceed that required by this section, provided that the location and maximum travel distance are located on the same property and approved.

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

Current Virginia Plumbing Code (VPC) does not fully address the unique concept of assembly gatherings on a large property for brief interment services. The proposed concept is to have restroom facilities available somewhere on the cemetery property. The constraints of current VPC require that toilet facilities must be located within 500 feet of these type occupancies no matter how large they are or where they happen to be situated on the property. This is viewed as overly restrictive by some for this application based on the short term duration someone may spend attending a memorial service in a remotely located structure located on cemetery property. It is common practice in federally owned cemeteries here in the Commonwealth to direct the visitors near the restroom facilities upon entering and exiting so that they can be utilized as needed.

The newly proposed exception is based on a current exception in the VPC which allows distances for employee facilities located in factories and industrial type occupancies to be extended "where approved" (approved by the code official).

The suggested proposal incorporates the same "where approved" language but also adds that the toilet facilities must be located within the same cemetery property. Lastly, it is understood that that existing toilet facilities on property serving a new structure would have to fully comply with the current code to which the new structure is permitted and constructed under, including accessibility features. The on-site facilities are a required component of the new structure, no different than if they were located within the same footprint.

Submittal Information

Date Submitted: December 10, 2012

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA
Shawn Strausbaugh

Representing: VSAIA
VBCOA and VPMIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IPC, Section 405.3.2**

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

405.3.2 Public lavatories. In employee and public toilet rooms, the required lavatory shall be located in the same room as the water closet.

Exception: In educational use occupancies, the required lavatory shall be permitted to be located adjacent to the room or space containing the water closet provided that not more than one operational door is between the water closet and the lavatory.

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

This code change proposal was "Approved as Submitted" by the Plumbing Code Committee at the 2012 ICC Code Development Hearing in Dallas. The reasoning is repeated below:

This has been a long standing practice in school construction. It is geared towards helping educate children on the importance of personal hygiene. This arrangement also allows for group wash fixtures to be located adjacent to core toilet rooms. This allows the instructors to wait outside and assure the children wash their hands upon exit of the toilet room. More commonly, it permits the installation of the lavatory to be located within the classroom when water closets are installed in the classroom itself. So when a child uses the facilities they walk through a single door (no different in concept to exiting a typical toilet stall) into the classroom where the instructor can assure hands are washed.

This will almost always result in cost savings. Currently, in situations where a toilet room with a lavatory is provided within a classroom (as is required for grades PK-1 in Virginia, and oftentimes is also provided for other grades and Special Education classrooms), a sink must also be provided within the classroom itself for training and other general functions and purposes – thus requiring two lavs/sinks per classroom/space. By allowing the lavatory to be within the classroom, the sink could be omitted, thus saving costs multiplied by the number of classrooms/spaces requiring such lavs/sinks.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Michael D Redifer

Representing: VAESA

Mailing Address: 2400 Washington Avenue 3rd flr Newport News, VA 23607

Email Address: mredifer@nngov.com

Telephone Number: 757-926-8861

Proposal Information

Code(s) and Section(s): IBC 3003.3

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

change IBC Section 3003.3 as follows

3003.3 Standardized Ffire service elevator keys. All elevators shall be equipped to operate with either a standardized or non-standardized fire service elevator key in accordance with the *International Fire Code*.

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

This change along with one proposed to eliminate Virginia amendments serves to clarify it is the building owner who has the option of providing a non-standardized key in an appropriate key box to which fire service personnel are provided access. A reduction cost for the building owner should result.

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Michael D Redifer

Representing: VAESA

Mailing Address: 2400 Washington Avenue 3rd flr Newport News, VA 23607

Email Address: mredifer@nngov.com

Telephone Number: 757-926-8861

Proposal Information

Code(s) and Section(s): IBC Section 3006.4

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

Change IBC Section 3006.4 as follows:

3006.4 Machine rooms and machinery spaces, control rooms and spaces . Elevator machine rooms and machinery spaces and control rooms and spaces shall be enclosed with *fire barriers* constructed in accordance with Section 707 or *horizontal assemblies* constructed in accordance with Section 711, or both. The *fire-resistance rating* shall be not less than the required rating of the hoistway enclosure served by the machinery. Openings in the *fire barriers* shall be protected with assemblies having a *fire protection rating* not less than that required for the hoistway enclosure doors.

Delete exceptions 1 and 2

Exceptions:

- ~~1. Where machine rooms and machinery spaces do not abut and have no openings to the hoistway enclosure they serve the *fire barriers* constructed in accordance with Section 707 or *horizontal assemblies* constructed in accordance with Section 711, or both, shall be permitted to be reduced to a 1-hour *fire-resistance rating*.~~
- ~~2. In buildings four stories or less above grade plane where machine room and machinery spaces do not abut and have no openings to the hoistway enclosure they serve, the machine room and machinery spaces are not required to be fire-resistance rated.~~

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

Additional terminology has been introduced into the ASME A17.1 Standard which relates primarily to controls for machine-room-less elevators. Although not machines, these devices are crucial components of the elevator operating system and are defined in the standard. Because this equipment and these devices are critical to the continued operation of the elevator during fire service, they should be afforded the same protection as the elevator hoistway. There will be some additional cost impact related to providing increased fire resistance ratings in some circumstances.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: DHCD Workgroup 4, sub-workgroup 2 (pools and marinas)

Proposal Information

Code(s) and Section(s): VCC (IBC and IRC)

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

In Chapter 2 of the IBC, change the following definition to read as follows:

Swimming pool. An aquatic vessel as defined in the International Swimming Pool and Spa Code.

Change the title of Section 3109 of the IBC to read as follows and replace the text of Section 3109 with the following:

Section 3109
Swimming Pools, Swimming Pool Enclosures and Aquatic Recreational Facilities

3109.1 General. Swimming pools, swimming pool enclosures and aquatic recreational facilities, as that term is defined in the International Swimming Pool and Spa Code, shall comply with applicable provisions of the International Swimming Pool and Spa Code.

Change Items 27 and 28 of Section 310.6 of the VCC(IBC) to read as follows:

27. Add Section R325 Swimming Pools, ~~Spas and Hot Tubs.~~

28. Add Section R325.1 to read:

R325.1 ~~Use of Appendix G for swimming~~ Swimming pools, spas and hot tubs. In addition to other applicable provisions of this code, ~~swimming pools, spas and hot tubs as defined in the Virginia Construction Code,~~ swimming pools, spas and hot tubs as defined in the Virginia Construction Code, shall comply with the ~~applicable provisions of Appendix G~~ the International Swimming Pool and Spa Code.

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

This proposal will incorporate the International Swimming Pool and Spa Code (ISPSC) for the construction of aquatic vessels, as defined by the ISPSC, which includes both residential and public swimming pools, spas and hot tubs. This proposal would also have the ISPSC apply to the construction of new aquatic recreational facilities, such as wave pools or lazy rivers. The existing exception for when a permit is needed for a pool is left intact, however the threshold for what constitutes a pool under the ISPSC is different than what is currently under the IBC, reducing the depth of water from 24 inches to 12 inches, but not applying unless the aquatic vessel is designed to have a circulating system.

Submittal Information

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): X Individual Government Entity Company

Name: John Catlett

Representing: VBCOA Administration Committee

Mailing Address: 301 King Street, Alexandria, Virginia 22314

Email Address: john.catlett@alexandriava.gov

Telephone Number: 703.746.4182

Proposal Information

Code(s) and Section(s): Regulation Title: Virginia Maintenance Code Section No(s): VMC 104.5.3
Inspections.

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

Proposed Change: Modify 104.5.3, create remaining.

104.5.3 Inspections. The code official may inspect buildings or structures to determine compliance with this code and shall carry proper credentials when performing such inspections. The code official is authorized to engage such expert opinion as deemed necessary to report upon unusual, detailed or complex technical issues in accordance with local policies.

104.5.3.1 (New) Observations When, during an inspection, the maintenance code official or authorized representative observes an apparent or actual violation of another law, ordinance or code not within the official's authority to enforce, such official shall report the findings to the official having jurisdiction in order that such official may institute the necessary measures.

104.5.3.2 (New) Approved inspection agencies and Individuals. The code official may accept reports of inspections or tests from individuals or inspection agencies approved in accordance with the code official's written policy required by Section 104.5.3.3. The individual or inspection agency shall meet the qualifications and reliability requirements established by the written policy. Reports of inspections by approved individuals or agencies shall be in writing, shall indicate if compliance with the applicable provisions of the VMC have been met and shall be certified by the individual inspector or by the responsible officer when the report is from an agency. The code official shall review and approve the report unless there is cause to reject it. Failure to approve a report shall be in writing within two days of receiving it stating the reasons for rejection.

104.5.3.3 (New) Third-party inspectors. Each code official charged with the enforcement of the VMC shall have a written policy establishing the minimum acceptable qualifications for third-party inspectors. The policy shall include the format and time frame required for submission of reports, any prequalification or preapproval requirements before conducting a third-party inspection and any other requirements and procedures established by the code official.

104.5.3.4 (New) Qualifications In determining third-party qualifications, the code official may consider such items as DHCD inspector certification, other state or national certifications, state professional registrations, related experience, education and any other factors that would demonstrate competency and reliability to conduct inspections.

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

Supporting Statement:

There has been an indication that the administrative provisions of the Virginia Maintenance Code did not permit the acceptance of third party inspection reports from approved agencies or individuals. This change would align the VMC with the USBC in requiring a written policy that describes the minimum qualifications and requirements for third-party inspectors or agencies.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Amusement Device Technical Advisory Comm. Representing: _____

Proposal Information

Code(s) and Section(s): VADR, Section 75

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

Add Subsection J to Section 13 VAC 5-75 to read as follows:

13 VAC 5-31-75. Local building department.

(no change to subsections A – I)

J. In accordance with Section 36-98.1 of the Code of Virginia, the Virginia Department of General Services (DGS) shall function as the local building department for the application of this chapter to amusements devices located on state-owned property. In accordance with Sections 36-98.2 and 36-114 of the Code of Virginia, appeals of the application of this chapter by the DGS shall be made directly to the State Building Code Technical Review Board (Technical Review Board), established under Section 36-108 of the Code of Virginia. Further, as a condition of this chapter, such appeals shall be filed within 14 calendar days after receipt of the decision of DGS.

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

This proposal is to clarify the application of the chapter to amusement devices operated on state-owned property.

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): 2012 VCC and VRC, Section 101.6 (of both)

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

Change Section 101.6 of the VCC to read as follows:

101.6 Order of precedence. The provisions of this code shall be used as follows:

1. The provisions of Chapter 1 of this code supersede any ~~conflicting~~ provisions of Chapters 2–35 of the IBC that address the same subject matter and impose differing requirements.
2. The provisions of Chapter 1 of this code supersede and any conflicting provisions of the codes and standards referenced in the IBC that address the same subject matter and impose differing requirements.
3. ~~In addition, t~~The state amendments to the IBC supersede any ~~conflicting~~ provisions of Chapters 2–35 of the IBC that address the same subject matter and impose differing requirements.
4. ~~The state amendments to the IBC supersede and any conflicting provisions of the codes and standards referenced in the IBC that address the same subject matter and impose differing requirements.~~
5. ~~Further, t~~The provisions of Chapters 2–35 of the IBC supersede any ~~conflicting~~ provisions of the codes and standards referenced in the IBC that address the same subject matter and impose differing requirements.

Change Section 101.6 of the VRC to read as follows:

101.6 Order of precedence. The provisions of this code shall be used as follows:

1. The provisions of Chapter 1 of this code supersede any ~~conflicting~~ provisions of Chapters 2–~~15~~ 16 of the IEBC that address the same subject matter and impose differing requirements.
2. The provisions of Chapter 1 of this code supersede and any conflicting provisions of the codes and standards referenced in the IEBC that address the same subject matter and impose differing requirements.
3. ~~In addition, t~~The state amendments to the IEBC supersede any ~~conflicting~~ provisions of Chapters 2–~~15~~ 16 of the IBC that address the same subject matter and impose differing requirements.
4. ~~The state amendments to the IEBC supersede and any conflicting provisions of the codes and standards referenced in the IEBC that address the same subject matter and impose differing requirements.~~
5. ~~Further, t~~The provisions of Chapters 2–~~15~~ 16 of the IEBC supersede any ~~conflicting~~ provisions of the codes and standards referenced in the IEBC that address the same subject matter and impose differing requirements.

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

The changes use the same terminology and logic as VCC 101.7 (“that address the same subject matter and impose differing requirements”), which is more encompassing than the term “conflicting.” If a “conflict” does not exist, would VCC or VRC 101.6 still apply? The change ensures that VCC and VRC 101.6 remain in effect whether a “conflict” exists or not.

The reformatting is suggested to avoid run-on sentences, and provide clarity considering the duplicated text in each sentence or portion thereof.

Submittal Information

Date Submitted: September 28, 2012

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: VBCOA Admin Committee and State Building Code Technical Review Board

Proposal Information

Code(s) and Section(s): VCC 102.3 and IBSR

VCC section 102.3 Exemptions.

Add new exception #8:

#8 Off-site manufactured intermodal freight containers, moving containers and storage containers placed on site temporarily or permanently for use as a storage container.

IBSR revise as follows:

13 VAC 5-91-20. Application and compliance.

D. ~~Shipping containers and portable on demand storage (PODS) containers~~ Off-site manufactured intermodal freight containers, moving containers and storage containers placed on site temporarily or permanently for use as a storage container are not subject to this chapter.

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

This code change clarifies that manufactured intermodal freight containers, shipping containers and moving containers placed on a property for use as a temporary or permanent storage container/building are exempt from both the USBC and IBSR.

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 VCC, Section 103.4**

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

Add exception to 103.4 as follows:

103.4 Additions. Additions to buildings and structures shall comply with the requirements of this code for new construction and an existing building or structure plus additions shall comply with the height and area provisions of Chapter 5. Further, this code shall not require changes to the design or construction of any portions of the building or structure not altered or affected by an addition, unless the addition has the effect of lowering the current level of safety.

Exceptions:

1. This section shall not be construed to permit noncompliance with any applicable flood load or floodresistant construction requirements of this code.
2. Existing structural elements carrying gravity loads shall be permitted to comply with Section 3403.3 of the IBC, or Section 1103 of the IEBC.

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

The IBC and IEBC both allow some flexibility when it comes to structural loads on an existing building imposed by an addition (the 5% rule). However, the VCC appears to have deleted this flexibility due to its wording in Section 103.4 ("effect of lowering the current level of safety" - which is not defined and is completely subjective and up to interpretation); and its deletion of Section 3403 in its entirety.

Thus, a building official could interpret any load imposed on the existing structure – even 0.000000000001% - could require the existing structure to be upgraded and to fully comply with the IBC. However, IBC Section 3403.3 and IEBC Section 1003 both allow more flexibility than what appears to be allowed under the VCC, and in this matter, interpretation and subjectivity are not issues in the IBC or IEBC.

IEBC Section 1003 allows some flexibility, but also references the IBC. However, the IBC Section 3403 reference to "Additions" was deleted by the VCC, thus creating what appears to be an ambiguity. Therefore, it appears we are left with Chapter 16, et. al. to deal with the *existing* structural elements – not just the *new* structural elements. Thus, it appears we have lost whatever flexibility the IEBC afforded prior to the VCC amendments.

This code change proposal attempts to bring back the flexibility originally intended by both the IBC and the IEBC when it comes to structural loads on *existing* elements due to an *addition*.

If it is true, that if one uses the VRC for compliance and its reference to the IBC remains valid as originally written, and not as amended by the VCC – then this code change could be withdrawn. However, such interpretation does not appear to exist in the VCC where it states when one I-code references another I-code, the USBC amendments are null and void (refer to 2012 VCC Section 103.10).

Submittal Information

Date Submitted: August 3, 2012

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name (Representing):

Ken Fredgren, Chairman, Reston Accessibility Committee of Reston Citizens Association, 703-391-9019, fredgren.k@gmail.com.
(Lead contact.)

John Catlett, MCP – Director, Alexandria Dept. of Code Administration. 703.746.4182, john.catlett@alexandriava.gov

Teri Barker-Morgan, Program Manager, Virginia Board for People with Disabilities, Richmond, 804-786-9381,
Teri.Barker@vbpd.virginia.gov.

Gayl Brunk, Executive Director, Valley Associates for Independent Living (VAIL), Harrisonburg, 540-433-6513, gayl@govail.org.

Marcia DuBois, Program Coordinator, Community Based Services-Field Rehabilitative Services,
Department for Aging and Rehabilitative Services, Richmond, 804-662-7083, Marcia.DuBois@dars.virginia.gov.

Karen Michalski-Karney, Executive Director, Blue Ridge Independent Living Center, Roanoke, 540-342-1231,
kmichalski@brilc.org.

Proposal Information

Code(s) and Section(s): USBC, Virginia Construction Code Sections 3411.1 , 3411.6

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

Modify as shown:

ACCESSIBILITY FOR EXISTING BUILDINGS

3411.1 Scope. The provisions of Sections 3411.1 through 3411.9 apply to maintenance, change of occupancy, *addition* and *alterations* to existing buildings and site conditions, including those identified as *historic buildings*.

3411.6 Alterations. A *facility* that is altered shall comply with the applicable provisions in Chapter 11 of this code, unless *technically infeasible*. Where compliance with this section is *technically infeasible*, the *alteration* shall provide access to the maximum extent technically feasible. When restriping an existing parking facility that does not contain accessible parking, at least one van accessible parking space shall be provided in facilities serving use groups A, B, E, M, R1, and I. When existing parking facilities in these use groups contain 100 or more spaces, the number of accessible parking spaces shall be in accordance with Section 1106 (a). Restriping of existing parking facilities shall require an accessible route from existing and newly created accessible parking space(s) to an entrance.

Exceptions:

1. The altered element or space is not required to be on an *accessible* route, unless required by Section 3411.7.
2. *Accessible means of egress* required by Chapter 10 are not required to be provided in existing facilities.
3. The *alteration* to Type A individually owned dwelling units within a Group R-2 occupancy shall be permitted to meet the provision for a *Type B dwelling unit*.
4. *Type B dwelling* or *sleeping units* required by Section 1107 of this code are not required to be provided in existing buildings and facilities undergoing a change of occupancy in conjunction with alterations where the work area is 50 percent or less of the aggregate area of the building.
5. When restriping existing parking facilities and full compliance with Section 1106 would create a violation of local ordinances establishing a minimum number of parking spaces, compliance with Section 1106 shall be achieved to the maximum extent possible as approved by the building official.
6. The costs of providing access from existing or newly created accessible parking spaces to an *accessible* route are not required to exceed 20 percent of the costs of the parking restriping *alterations*.

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

This proposal results from the initial review by DHCD workgroups of proposals submitted by a legislative study group (the HJR 648 Study Group). This proposal is offered as an additional compromise submitted by the HJR 648 study group and is being submitted by groups involved in the HJR 648 study.

The compromise builds on previous proposals and addresses concerns expressed by the Codes and Standards Committee.

Interestingly enough, the building code already establishes that when a parking lot is altered it must comply with accessibility requirements. 3411.6 states that *facilities* that are altered must comply with Chapter 11 unless technically infeasible.

3411.6 Alterations. A *facility* that is altered shall comply with the applicable provisions in Chapter 11 of this code, unless *technically infeasible*. Where compliance with this section is *technically infeasible*, the *alteration* shall provide access to the maximum extent technically feasible...

Facilities are defined to include site improvements, which includes parking lots

FACILITY. All or any portion of buildings, structures, *site* improvements, elements and pedestrian or vehicular routes located on a *site*.

The proposed change actually proposes lower overall requirements for smaller parking facilities while recognizing the need to add accessible parking to facilities that do not have them. For parking lots in use groups that house places of public accommodation, the change establishes necessary guidance regarding how many spaces to provide and what to do if full compliance causes violations of existing local parking space regulations. In these cases, the number of spaces provided can be less than required by 3411.6 if full compliance cannot be achieved.

The provision also recognizes that lots with greater than 100 spaces have a greater need and requirement for the number of accessible parking spaces.

Since a lot alteration is not generally associated with a primary function space alteration and 3411.6 requires altered facilities (site improvements) to be made in accordance with Chapter 11, the proposed language adopts a disproportional amount provision typically found with primary function alterations which limits the cost exposure to the building owner beyond the parking space striping and signage.

The issue of permitting and inspection, like many other provisions in this code, can be determined by the local building official. Section 108.2 would allow the building official to determine if a permit is needed since this is not a direct health and safety issue.

108.2 Exemption from Permit.

10.11. Other repair work deemed by the building official to be minor and ordinary which does not adversely affect public health or general safety.

Submittal Information

Date Submitted: February 20, 2013

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: State Building Code Technical Review Board

Representing: _____

Email Address: _____

Telephone Number: _____

Proposal Information

Code(s) and Section(s): Virginia Construction Code, Section 113.6

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

Change Section 113.6 as shown below:

113.6 Approval or notice of defective work. The building official shall either approve the work in writing or give written notice of defective work to the permit holder. Upon request of the permit holder, the notice shall reference the USBC section that serves as the basis for the defects and such defects shall be corrected and reinspected before any work proceeds that would conceal such defects. A record of all reports of inspections, tests, examinations, discrepancies and approvals issued shall be maintained by the building official and shall be communicated promptly in writing to the permit holder. Approval issued under this section may be revoked whenever it is discovered that such approval was issued in error or on the basis of incorrect information, or where there are repeated violations of the USBC. Notices issued pursuant to this section shall be permitted to be communicated electronically provided the notice is reasonably calculated to get to the permit holder.

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

The Review Board issued Interpretation No. 6/06 clarifying that notices may be issued electronically provided reasonable steps were taken to assure they would be received by the permit holder. Under the Review Board's statutory authority, interpretations issued by the Review Board, when deemed appropriate by the Review Board members, are forwarded to the Board of Housing and Community Development as recommendations for future amendments to the code.

Submittal Information

Date Submitted: March 16, 2012



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: State Building Code Technical Review Board

Representing: _____

Email Address: _____

Telephone Number: _____

Proposal Information

Code(s) and Section(s): Virginia Construction Code, Section 113.8

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

Change Section 113.8 as shown below:

113.8 Final inspection. Upon completion of a building or structure and before the issuance of a certificate of occupancy, a final inspection shall be conducted to ensure that any defective work has been corrected and that all work complies with the USBC and has been approved, including any work associated with modifications under Section 106.3. The building official shall be permitted to require the electrical service to a building or structure to be energized prior to conducting the final inspection. The approval of a final inspection shall be permitted to serve as the new certificate of occupancy required by Section 116.1 in the case of additions or alterations to existing buildings or structures that already have a certificate of occupancy.

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

The Review Board issued Interpretation No. 7/90 clarifying that the building official has the authority to require the building electrical system to be energized prior to the final inspection. Under the Review Board's statutory authority, interpretations issued by the Review Board, when deemed appropriate by the Review Board members, are forwarded to the Board of Housing and Community Development as recommendations for future amendments to the code.

Submittal Information

Date Submitted: March 16, 2012



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: VBCOA IRC Committee

Proposal Information

Code(s) and Section(s): VCC (IRC)

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

Change the definition of "Attic, habitable" in the IRC to read as shown below:

ATTIC, HABITABLE. A finished or unfinished area, not considered a *story*, complying with all of the following requirements:

1. The occupiable floor area is at least 70 square feet (17m²), in accordance with Section R304,
2. The occupiable floor area has a ceiling height in accordance with Section R305, and
3. The occupiable space is enclosed by the roof assembly above, knee walls (if applicable) on the sides and the floor-ceiling assembly below.

Habitable attics shall not be permitted in dwellings or townhouses that are three stories above grade plane in height.

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

The intent of this proposal is to restore the number of habitable area stories above grade to three, consistent with scope of the IRC. R101.2 'Scope' limits the application of the IRC to one- and two-family dwellings and townhouses "not more than three stories above grade plane in height"...; the current language in the 'Attic, Habitable' definition: "not considered a story" allows for an additional habitable level above the three story limitation, or in practical terms - a fourth story.

Cost impact: There is no cost impact in this change.

Submittal Information

Please submit the proposal to:

DHCD DBFR SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: HBAV _____

Representing: _____

Mailing Address: _____

Email Address: _____

Telephone Number: _____

Proposal Information

Code(s) and Section(s): USBC, Virginia Construction Code Section 310.6 (IRC Section R311.2.1) _____

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

R311.2.1 Interior door openings. Where door openings are provided to the following spaces on the main living level, such door openings shall be sized to accommodate the use of minimum 34-inch nominally sized door.

1. One bedroom.
2. Entertainment areas.
3. At least one full bathroom.

Exception: A door opening at the end of a hallway.

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

This proposal provides a minimum passage for certain areas on the main living level of new dwellings. The language is borrowed from the Easy Living criteria, but does not include all of the criteria in that standard.

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Lynn Underwood, Brian Foley Representing: City of Norfolk, Fairfax County

Mailing Address: 400 Granby, Norfolk, Virginia 23503

Email Address: lynn.underwood@norfolk.gov Telephone Number: (757) 664-6511

Proposal Information **Draft code change #1**

Code(s) and Section(s): USBC edit Section R502.5 and add new Table R502.5(3)

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

Edit Section R502.5 as follows:

R502.5 Allowable girder and header spans. The allowable spans of girders and headers fabricated of dimension lumber shall not exceed the values set forth in Tables R502.5(1) and ~~through R502.5(2)~~ R502.5(3).

Add a new Table R502.5(3):

TABLE R502.5(3)
GIRDER AND HEADER SPANS FOR PORCHES
(Maximum span for southern pine)

HEADER SUPPORTING	HEADER SIZE	PORCH WIDTH (FT)	
		8	14
Roof 	2-2x4	6'-11"	5'-3"
	2-2x6	9'-11"	7'-6"
	2-2x8	12'-10"	9'-8"
	2-2x10	16'-8"	12'-7"
	2-2x12	19'-6"	14'-9"
Floor 	2-2x4	5'-1"	3'-10"
	2-2x6	7'-4"	5'-6"
	2-2x8	9'-5"	7'-1"
	2-2x10	12'-2"	9'-3"
	2-2x12	14'-4"	10'-10"

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm

a. Tabulated values based on 30 psf ground snow load, L/240 deflection and #2 grade lumber.

b. The values of this table shall be equivalent to a roof live load of 20 psf.

Submittal Information

1. Please refer to the spreadsheet and supporting documentation.
2. Please see copies of referenced documents from Section 602.6 and Table 602.6 in the 1995 edition of the One and Two Family Dwelling Code published by the Council of American Building Officials (CABO).
3. Please see supporting documentation submitted by the Home Builder's Association of Virginia (HBAV)

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

The 2012 International Residential Code (IRC) and its predecessors regulated the size of headers based on the provisions in Chapter 5. Note that Tables R502.5(1) and (2) has categories of building width that begins at 20 feet. The size of headers in this table assumes a rectangular tributary area that was at least 10 feet (20/2). Because of the lower end limit of 20 feet, headers over posts or columns that create porches or decks with less than 10 foot of tributary load must use that, much higher criteria. For instance a 6 foot porch with columns spaced at 10' O.C. must use 3 – 2 X 10s or 3 – 2 X 12s to comply with the code. The option for the builder is to seek an engineering rationalization to use anything different.

This table was created based on engineering principles that included analyzing for flexural bending, deflection, and shear. In addition, the design strength of lumber was set at southern pine as porches are exterior and southern pine is the sole species available in Virginia that is preservative treated. It is important to note that the 1995 edition of the One and Two Family Dwelling Code had a table that was very similar to this table.

Date Submitted: June 15, 2012

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 East Main 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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Chuck Bajnai

Representing: VBCOA IRC Committee

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

Email Address: bajnaic@chesterfield.gov

Telephone Number: 804-717-6428

Proposal Information

Code(s) and Section(s): R507 - Decks

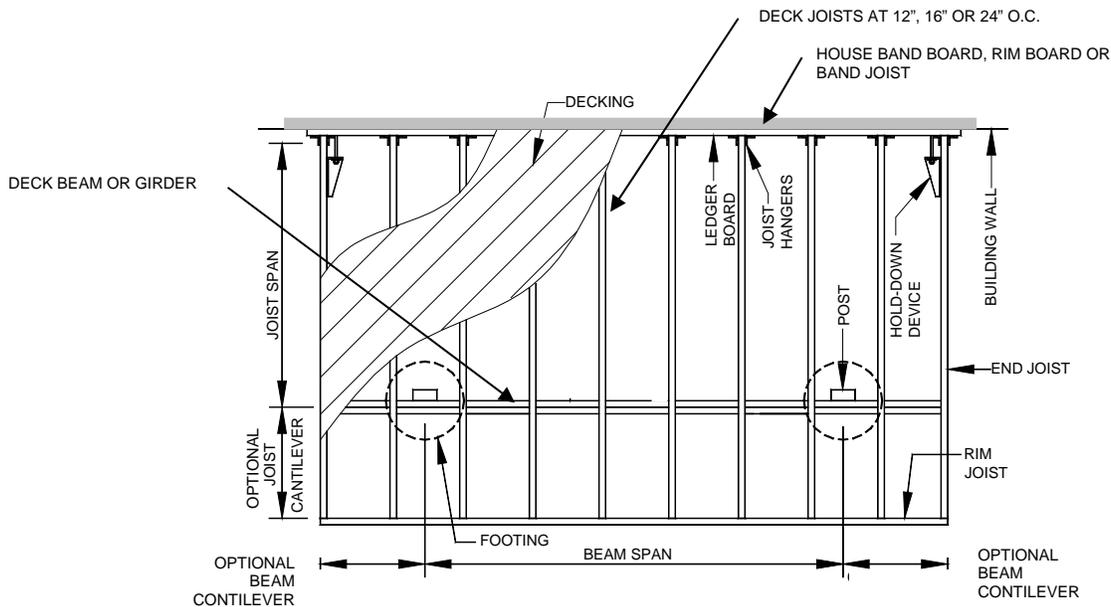
Proposed Change (including all relevant section numbers, if multiple sections):

Delete Section R507 and replace it with the following:

SECTION R507 DECKS

R507.1 Wood decks. Typical wood decks shall be designed and constructed in accordance with this section. Other grades, species, loading, materials and conditions not described herein shall be permitted in accordance with Section 301.

R507.2 Requirements. Deck construction shall be capable of accommodating applied loads and of transmitting them to the supporting structural elements. Figure R507.2 is intended for purposes of identifying typical parts, and not to limit the design.



For SI: 1 inch = 25.4 mm

**FIGURE R507.2
DECK CONSTRUCTION**

R507.3 Materials. Materials used in the construction of a deck shall comply with the provisions of this section.

R507.3.1 Preservative-treated lumber. Dimension lumber shall be identified in accordance with Section R502.1 and, where required, preservative-treated in accordance with Section R317. All lumber in contact with the ground shall be identified as suitable for ground contact.

R507.3.2 Wood Decking. Wood decking shall comply with any of the following materials:

1. Wood decking with a minimum nominal thickness of $\frac{5}{4}$ inches (32 mm) shall be installed at 90 degrees to deck joist that are spaced at a maximum of 16 inches (406 mm) on center and up to 45 degrees when spaced at a maximum of 12 inches (305 mm) on center.
2. Wood decking with a nominal 2 inch (51 mm) thickness shall be installed at an angle between 45 and 90 degrees to deck joists that are spaced at a maximum of 24 inches (610 mm) on center. Wood decking shall be attached to each supporting member with a minimum of (2)8d threaded nails or (2)#8 wood screws.

R507.3.3 Wood/plastic composites. Wood/plastic composites used as exterior deck boards, stair treads, handrails and guardrail systems shall be permitted in accordance with manufacturer's instructions.

R507.3.4 Metal guardrail systems. Metal guardrail and handrail systems shall be permitted in accordance with the manufacturer's instructions.

R507.3.5 Fasteners. Nails, bolts with washers and screws shall be hot-dipped galvanized, stainless steel. Proprietary fasteners shall be permitted provided they are compatible with the pressure-preservative-treated lumber being used. Other fasteners, hangers and metallic devices shall be hot-dipped galvanized steel or stainless steel and installed in accordance with manufacturer's instructions.

R507.3.6 Flashing. Flashing shall be corrosion-resistant metal of minimum nominal 0.019 inch (0.5 mm) thickness or approved non-metallic material.

R507.4 Deck joists. Spans for typical wood deck joist configurations, as shown in Figure R507.4, shall be in accordance with Table R507.4. Deck joist shall be permitted to cantilever a maximum of one-fourth of the joist span.

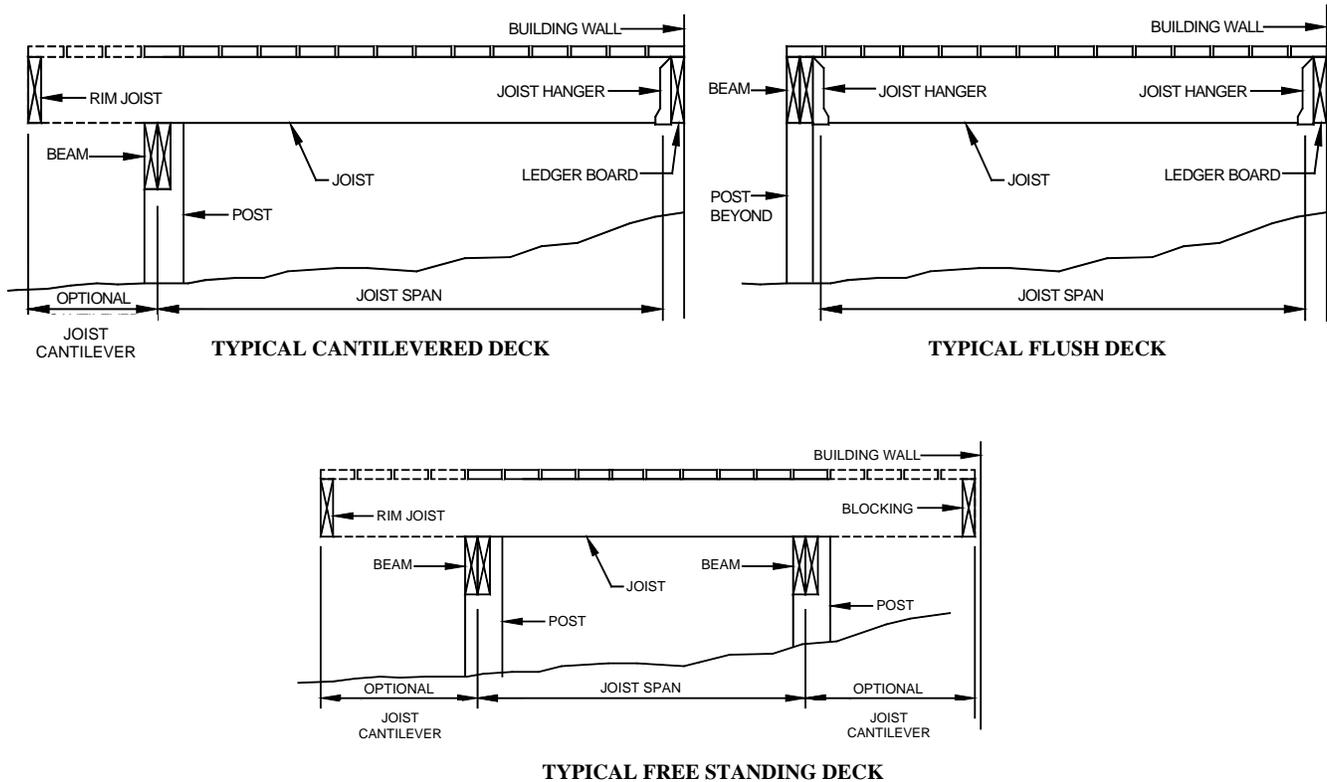


FIGURE R507.4
TYPICAL DECK JOIST SPANS

TABLE R507.4
MAXIMUM DECK JOIST SPANS FOR COMMON LUMBER SPECIES (ft.-in.)

SPECIES ^a	SIZE	MAXIMUM SPACING OF DECK JOISTS WITH NO CANTILEVER ^b (in.)			MAXIMUM SPACING OF DECK JOISTS WITH CANTILEVERS ^c (in.)		
		12	16	24	12	16	24
Southern pine	2 x 6	10-4	9-5	7-10	7-1	7-1	7-1
	2 x 8	13-8	12-5	10-2	10-9	10-9	10-2
	2 x 10	17-5	15-10	13-1	15-6	15-6	13-1
	2 x 12	18-0	18-0	15-5	18-0	18-0	15-5
Douglas fir-larch ^d , hem-fir ^d , spruce-pine-fir ^d	2 x 6	9-6	8-8	7-2	6-3	6-3	6-3
	2 x 8	12-6	11-1	9-1	9-5	9-5	9-1
	2 x 10	15-8	13-7	11-1	13-7	13-7	11-1
	2 x 12	18-0	15-9	12-10	18-0	15-9	12-10
Redwood, western cedars, ponderosa pine ^e , red pine ^e	2 x 6	8-10	8-0	7-0	5-7	5-7	5-7
	2 x 8	11-8	10-7	8-8	8-6	8-6	8-6
	2 x 10	14-11	13-0	10-7	12-3	12-3	10-7
	2 x 12	17-5	15-1	12-4	16-5	15-1	12-4

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

- No. 2 grade with wet service factor.
- Deck joists shall be designed to carry the deck live load in Table R301.5 or the ground snow load, which ever is larger. based on ground snow load or live load = 40 psf, dead load = 10 psf, L/Δ = 360.
- Deck joists shall be designed to carry the deck live load in Table R301.5 or the ground snow load, which ever is larger. This table is based on ground snow load or live load = 40 psf, dead load = 10 psf, L/Δ = 360 at main span, L/Δ = 180 at cantilever with a 220 pound point load applied to end.
- Includes incising factor.
- Northern species with no incising factor

This table is

R507.4.1 Joist bearing. Joist ends shall be provided with vertical and rotational support. The ends of joists shall have a minimum of 1.5 inches (38 mm) of bearing on a wood ledger board or on metal hangers. Where rotational support is provided by joist hangers or blocking between joists, their depth shall equal not less than 60 percent of the joist depth. Where rotational support is provided by rim joists, they shall be secured to the end of each joist with a minimum of (3)10d threaded nails or (3)#10x3 inch (76 mm) long wood screws. Joist ends adjacent to the building wall of free-standing decks shall be permitted to replace a rim joist with full depth nominal 2x blocking toe nailed at each end with (3)10d nails.

R507.5 Deck Beams. The maximum span for deck beams, as shown in Figure R507.2, shall be in accordance Table R507.5. Beams shall be permitted to cantilever at each end up to one-fourth of the beam span. The plies of a multi-ply beam shall be fastened with a minimum of two rows of 10d threaded nails at 16 inches (406 mm) on center along each edge. Splices of multi-span beams shall be located at interior post locations.

**TABLE R507.5
MAXIMUM BEAM SPAN LENGTHS ^a**

SPECIES ^b	SIZE ^c	MAIN JOIST SPAN (ft.) LESS THAN OR EQUAL TO:						
		6	8	10	12	14	16	18
Southern pine	2-2x6	7-1	6-2	5-6	5-0	4-8	4-4	4-1
	2-2x8	9-2	7-11	7-1	6-6	6-0	5-7	5-3
	2-2x10	11-10	10-3	9-2	8-5	7-9	7-3	6-10
	2-2x12	13-11	12-0	10-9	9-10	9-1	8-6	8-0
	3-2x6	8-7	7-8	6-11	6-3	5-10	5-5	5-2
	3-2x8	11-4	9-11	8-11	8-1	7-6	7-0	6-7
	3-2x10	14-5	12-10	11-6	10-6	9-9	9-1	8-7
Douglas fir-larch ^d , spruce-pine-fir, redwood ^d , western cedars, ponderosa pine ^e , red pine ^e	3x6 or 2-2x6	5-5	4-8	4-2	3-10	3-6	3-1	2-9
	3x8 or 2-2x8	6-10	5-11	5-4	4-10	4-6	4-1	3-8
	3x10 or 2-2x10	8-4	7-3	6-6	5-11	5-6	5-1	4-8
	3x12 or 2-2x12	9-8	8-5	7-6	6-10	6-4	5-11	5-7
	4x6	6-5	5-6	4-11	4-6	4-2	3-11	3-8
	4x8	8-5	7-3	6-6	5-11	5-6	5-2	4-10
	4x10	9-11	8-7	7-8	7-0	6-6	6-1	5-8
	4x12	11-5	9-11	8-10	8-1	7-6	7-0	6-7
	3-2x6	7-4	6-8	6-0	5-6	5-1	4-9	4-6
	3-2x8	9-8	8-6	7-7	6-11	6-5	6-0	5-8
	3-2x10	12-0	10-5	9-4	8-6	7-10	7-4	6-11
	3-2x12	13-11	12-1	10-9	9-10	9-1	8-6	8-1

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

a. Deck beams shall be designed to carry the deck live load in Table R301.5 or the ground snow load, whichever is larger. This table is based on ground snow load or live load = 40 psf, dead load = 10 psf, L/Δ = 360 at main span, L/Δ = 180 at cantilever with a 220 pound point load applied to end. No 2 grade, wet service factor.

b. Beam depth shall be greater than or equal to depth of joists with a flush beam condition.

c. Includes incising factor.

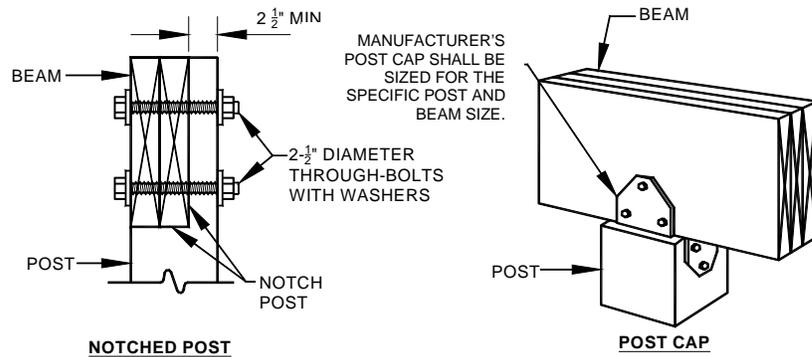
d. Northern species with no incising factor.

R507.5.1 Beam bearing. Single-ply beams and multi-ply beams shall have all of their bearing directly on wood posts or on an approved metal post caps in accordance with Figure R507.6.1 and not less than 3 inches (76 mm) on concrete or masonry.

R507.6 Deck posts. For typical single level wood decks, posts shall be measured from the top of the footing to the underside of the beam. The maximum height of the post shall be in accordance with the following:

1. Posts comprised of a minimum nominal 4x4 shall be permitted to a maximum height of 8 feet (2438 mm),
2. Posts comprised of a minimum nominal 6x6 shall be permitted to a maximum height of 14 feet (5486 mm).
3. Posts comprised of southern pine, of 4x4 or 4x6, grade #2 shall be permitted to a maximum height of 10 feet (3048 mm).
4. Posts comprised of southern pine, of 6x6 shall be permitted to a maximum height of 18 feet (5486 mm).

R507.6.1 Deck post to deck beam connection. Deck beams shall be attached to deck posts in accordance with Figure R507.6.1. Post to beam connections shall be constructed to resist lateral displacement. Manufactured post-to-beam connectors shall be sized for the post and beam sizes. All bolts shall have washers under the head and nut.



For SI: 1 inch = 25.4 mm

FIGURE R507.6.1
TYPICAL BEAM BEARING

R507.7 Deck footings. Deck footings shall be constructed in accordance with Section R403 and Figure R507.7. The size of the footing shall be adequate for the load applied by the posts.

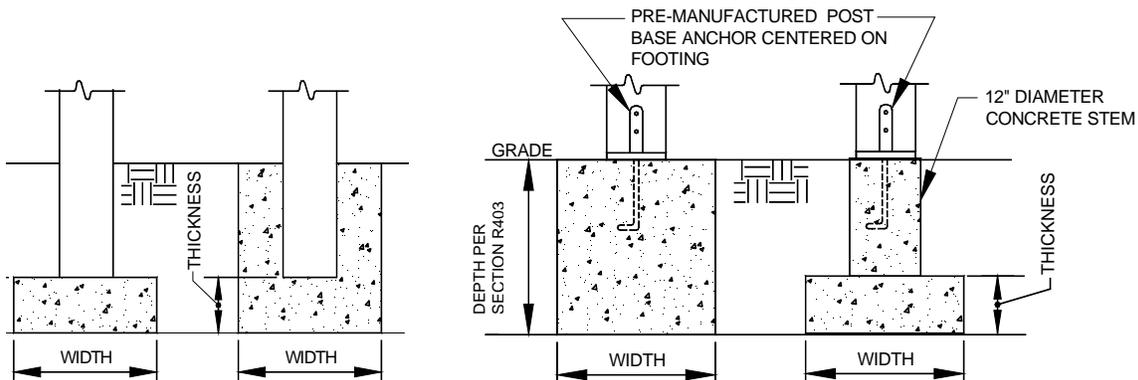


FIGURE R507.7
TYPICAL DECK FOOTINGS

R507.7.1 Footing depth. The minimum depth of footings shall be in accordance with Section R403.1.4 or as approved by the building official. A deck footing within 4 feet of the house shall be set at least to the depth of the house footing.

R507.7.2 Post connection to footing. Where the top of the footings are at or above grade, the posts shall be prevented from being displaced by a connector between the post and the concrete. Where the top of the footings are below grade the post shall be permitted to sit on top of the footing or may be embedded in the concrete.

R507.8 Deck ledger connection to the building. The connection between a deck ledger and the building shall be in accordance with this section.

R507.8.1 Deck ledger connection to band joist. The deck ledger shall be connected to a 2-inch nominal lumber band joist with 1/2-inch lag screws or bolts with washers in accordance with Table R507.8.1 and Figure R507.8.1(1). The bolts or lag screws shall be spaced in accordance with Figure R507.8.1(2). As an alternative to the detail in Figure R507.8.1, the ledger boards shall be permitted to be offset from the band joist a maximum distance of 1/2 inch (13 mm) with the installation of stacked washers. The exterior wall finish shall be removed prior to installation of the ledger board. Flashing at a door threshold shall be installed to prevent water intrusion from rain or melting ice and snow.

R507.8.2 Deck ledger connection to concrete foundation walls. A ledger board shall be connected to a concrete or solid masonry foundation wall with approved 1/2 inch (13 mm) diameter expansion anchors at a spacing specified in Table R507.8.1(1) and as shown in Figure R507.8.2. Expansion anchors shall be installed per the manufacturer.

R507.8.3 Ledger board to hollow masonry foundation wall. A ledger board shall be connected to a hollow masonry foundation wall with approved 1/2 inch (13 mm) diameter epoxy anchors at a spacing specified in Table R507.8.1(1) and as shown in Figure R507.8.3. Epoxy anchors shall be installed per the manufacturer

R507.8.4 Alternate connections. An approved engineered wood rim board with a minimum thickness of 1 inch (25 mm) shall be permitted to substitute for a 2x lumber band joist provided it has designed and manufactured to support a deck. A ledger board attachment to a masonry or stone veneer, ribbon board of open web floor trusses, band joist of a cantilevered floor and other conditions not addressed herein shall be designed in accordance with accepted engineering practice, or the deck shall be free-standing in accordance with Section R507.10.

**TABLE R507.8.1(1)
FASTENER SPACING ^a**

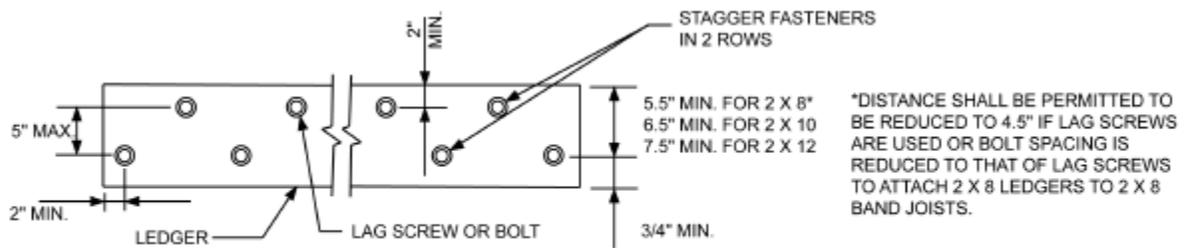
FASTENER	BAND BOARD	JOIST SPAN						
		≤6'	> 6'-8'	> 8'-10'	> 10'-12'	> 12'-14'	> 14'-16'	> 16'-18'
1/2" lag screws ^b	1" min. engineered wood product	24"	18"	14"	12"	10"	9"	8"
	2x lumber	30"	23"	18"	15"	13"	11"	10"
1/2" through bolts	1" min. engineered wood product	24"	18"	14"	12"	10"	9"	8"
	2x lumber	36"	36"	34"	29"	24"	21"	19"
1/2" through bolts and 1/2" stacked washers ^c	1" min. engineered wood product	24"	18"	14"	12"	10"	9"	8"
	2x lumber	36"	36"	29"	24"	21"	18"	16"
Expansion anchors	-	36"	36"	34"	29"	24"	21"	19"
Epoxy anchors	-	32"	32"	32"	24"	24"	16"	16"

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm

a. Maximum sheathing shall be 15/32 inches (12 mm).

b. The tip of the lag screw shall fully extend beyond the inside face of the band board.

c. The maximum gap between the face of the ledger board and face of the wall sheathing shall be 1/2 inches (13 mm).



For SI: 1 inch = 25.4 mm.

**FIGURE R507.8.1(1)
PLACEMENT OF LAG SCREWS AND BOLTS IN LEDGERS**

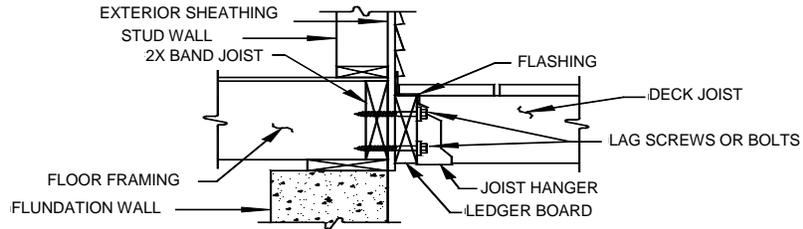


FIGURE R507.8.1(2)
LEDGER BOARD TO BAND BOARD ATTACHMENT

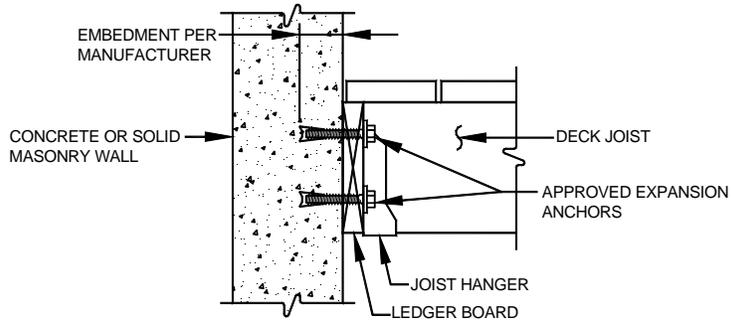


FIGURE R507.8.2
LEDGER BOARD TO SOLID FOUNDATION WALL ATTACHMENT

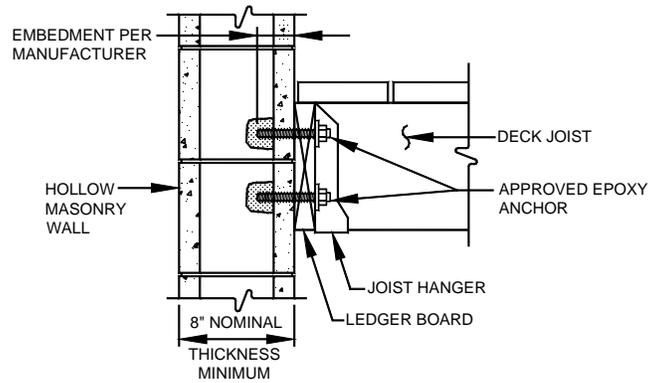


FIGURE R507.8.3
LEDGER BOARD TO HOLLOW MASONRY FOUNDATION WALL ATTACHMENT

R507.9 Attachment to resist lateral load. The lateral load connection required by Section R507.2 shall be permitted to be in accordance with this section.

R507.9.1 Connection at parallel joists. Where floor joists and deck joists are parallel a hold-down or similar tension device with a minimum capacity of 1,500 pounds (6672 N) at each end joist as shown in Figures R507.3.1(1) and R507.9.3.1(2) shall be permitted. Floor sheathing to floor joists fasteners shall be permitted to be substituted with two reinforcing angles on each side of the joist with a minimum capacity of 375 pounds (1668 N).

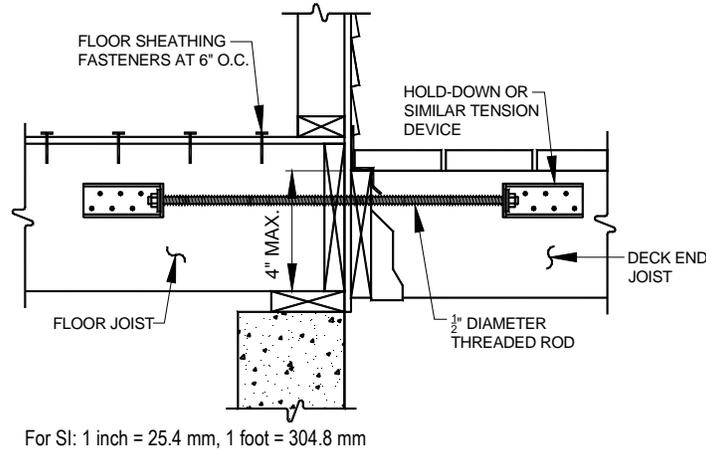


FIGURE R507.9.3.1(1)
CONNECTION AT PARALLEL JOISTS

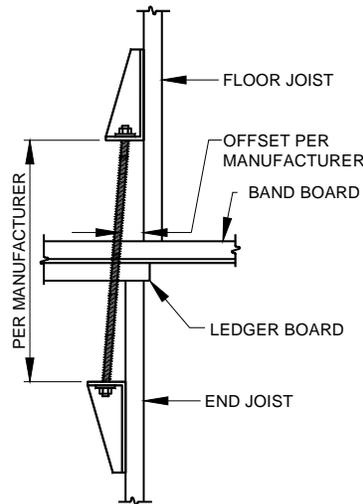
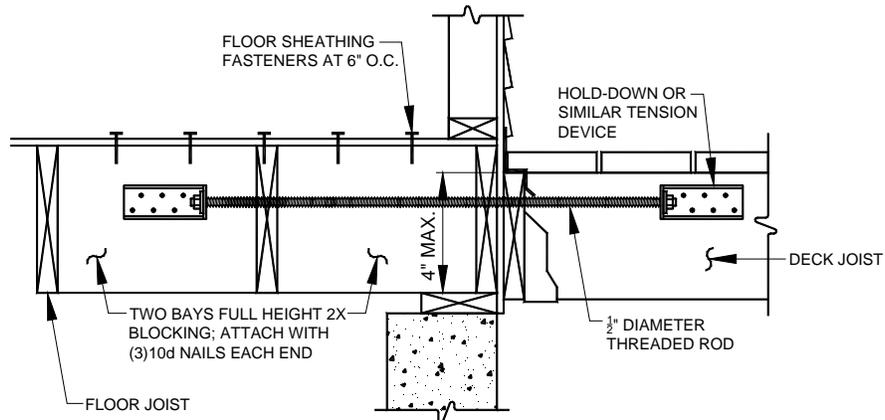


FIGURE R507.9.3.1(2)
OFFSET AT PARALLEL JOISTS

R507.9.2 Connection at perpendicular joists. Where floor joists and deck joists are perpendicular, provide a hold-down or similar tension device with a minimum capacity of 1,500 pounds (6672 N) at each end joist and blocking between floor joists as shown in Figure R507.9.3.2. Floor sheathing to floor joists fasteners shall be permitted to be substituted with two reinforcing angles on each side of the joist with a minimum capacity of 375 pounds (1668 N).



For SI: 1 inch = 25.4 mm

FIGURE R507.9.3.2
LATERAL SUPPORT WHERE INTERIOR JOIST PERPENDICULAR TO DECK

R507.10 Free-standing decks. As shown in Figure R507.10, free-standing decks shall have an additional beam and posts adjacent the building exterior wall in place of a ledger board attachment. The beam shall be sized in accordance with Section R507.6 and shall be located adjacent the exterior wall or at a maximum distance equal to the allowable joist cantilever.

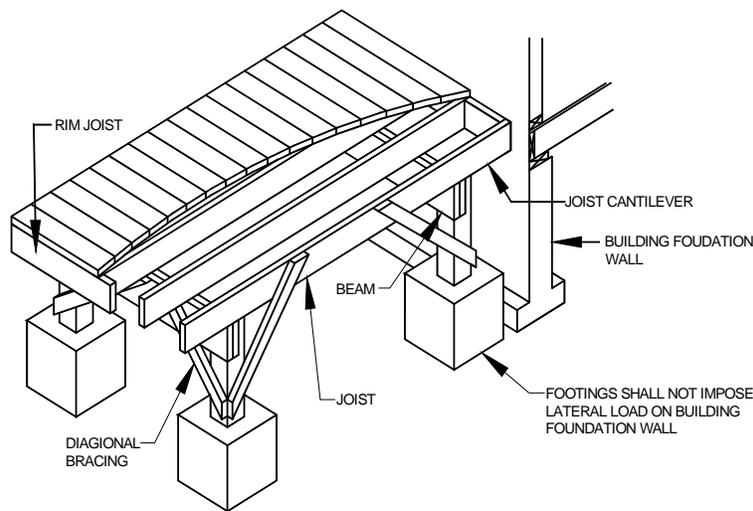
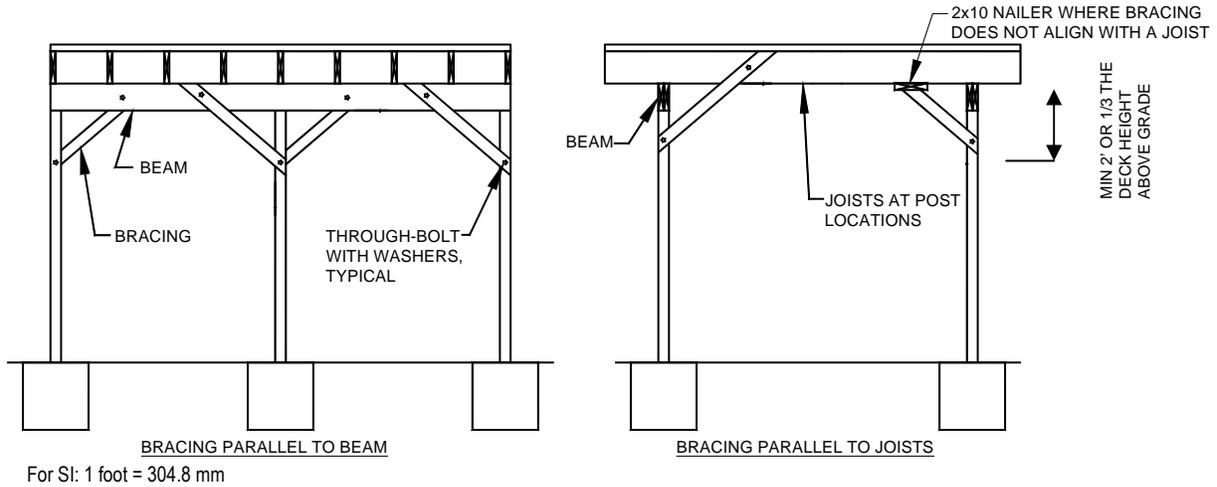


FIGURE R507.10
FREE-STANDING DECK

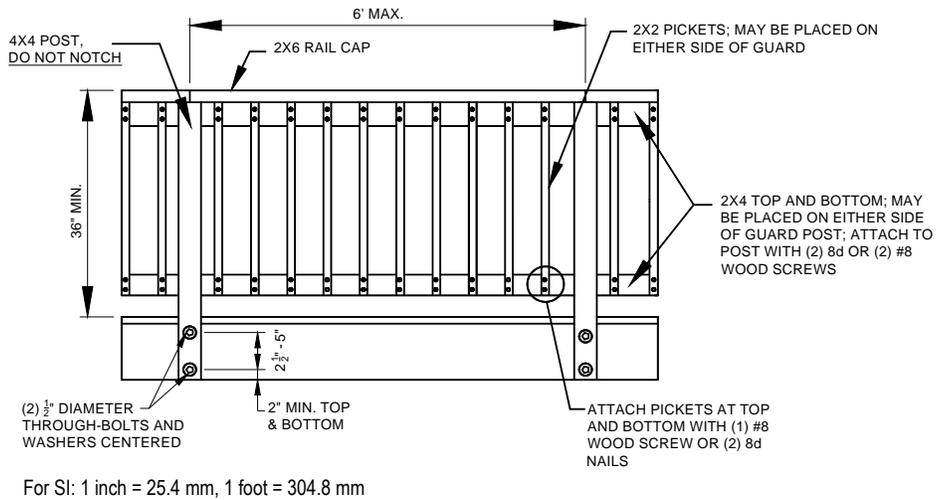
R507.10.1 Diagonal bracing. Diagonal bracing shall be installed on free-standing decks greater than 30 inches (762 mm) above grade in accordance with Figure R507.10.1. Bracing shall be placed at a 45 degree angle at each post location in the parallel and perpendicular directions to the beam. Bracing shall be a minimum of nominal 2x4 lumber and shall be fastened to framing with one 1/2 inch (9 mm) diameter through bolt with washers at each end. The diagonal brace shall be a minimum of 2 feet long measured as shown in Figure R507.10.1 or at least 1/3 the height of the deck above grade.



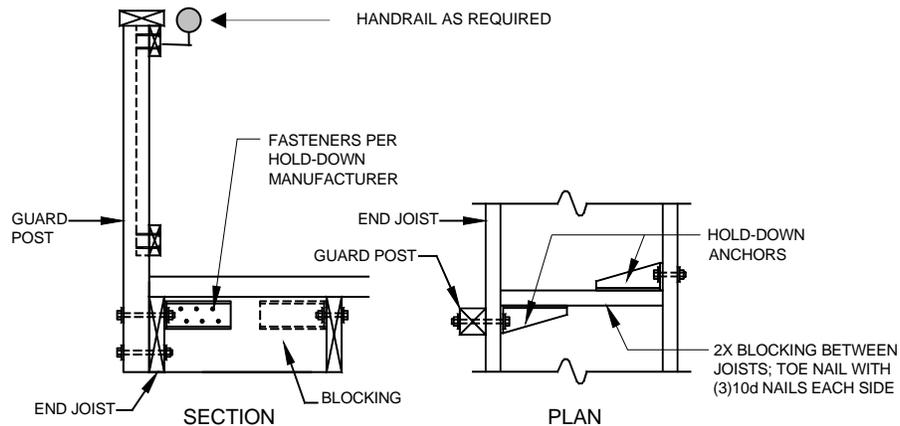
**FIGURE R507.10.1
FREE-STANDING DECK DIAGONAL BRACING**

R507.12 Deck guards. Deck guards shall be designed and constructed in accordance with Sections R301.5 and R312. Other materials and construction techniques shall be permitted in accordance with R301.

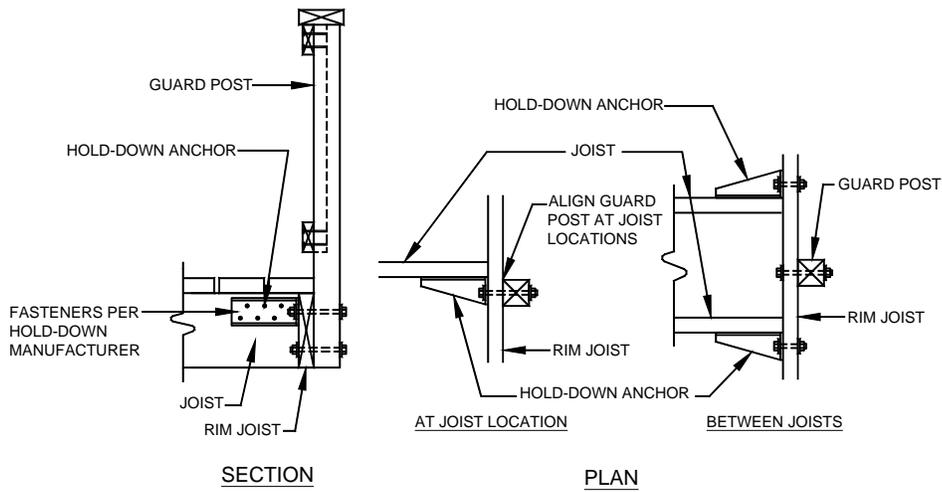
R507.12.1 Guard construction. Where the guard requirements of Sections R301.5 and R312 are met using the construction shown in Figures R507.12.1(1) through R507.12.1(3), guard posts shall be attached to the inside or outside face of the rim joist or end joist and hold-down anchors shall have a minimum capacity of 1,800 pounds (8006 N).



**FIGURE R507.12.1(1)
DECK GUARD**



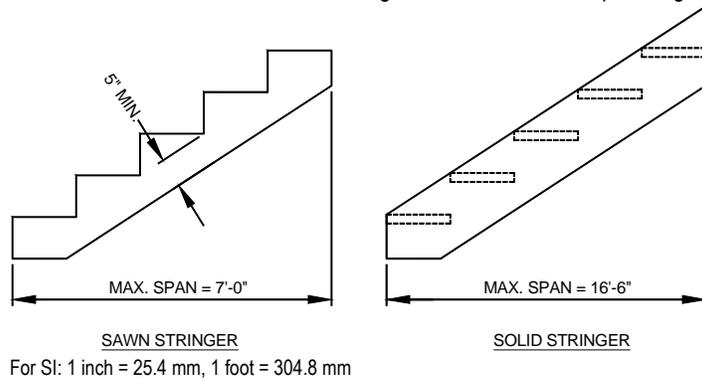
**FIGURE R507.12.1(2)
GUARD POST TO END JOIST**



**FIGURE R507.12.1(3)
GUARD POST TO RIM JOIST**

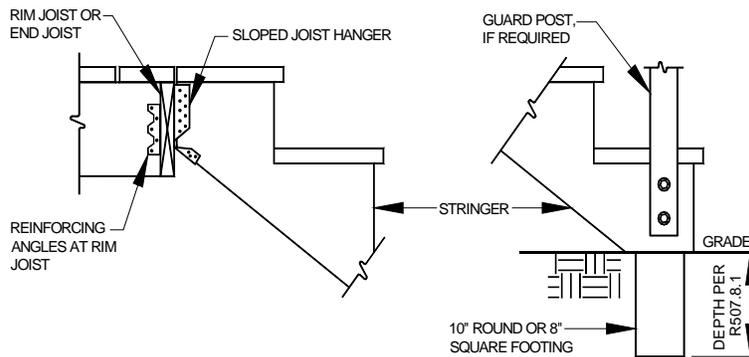
R507.13 Deck stairs. Deck stairs shall be constructed in accordance with this section and Section R311.7. Where a flight of stairs has a vertical rise greater than that required per Section R311.7.3, an intermediate landing shall be provided in accordance with Section R311.7.6 and designed as a free-standing deck in accordance with Section R507.10.

R507.13.1 Stair stringers. Stair stringers shall be constructed of sawn nominal 2x12 members at 18 inches (457 mm) on center with a throat dimension of 5 inches (127 mm) and a maximum span length as shown in Figure R507.13.1. Stairs with a width equal to 36 inches (914 mm) shall be permitted to be constructed with two solid 2x12 stringers with a maximum span length as shown in Figure R507.13.1.



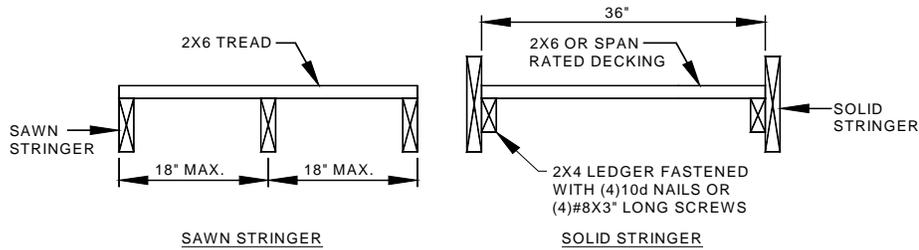
**FIGURE R507.13.1
STAIR STRINGER REQUIREMENTS**

R507.13.2 Stringer bearing. Stringers shall bear on joist hangers attached to the deck structure and on footings at grade in accordance with Figure R507.13.2. Joist hangers shall be specifically designed to accommodate sloped connections and shall have a minimum capacity of 625 pounds (2780 N). Reinforcing angles at rim joist locations only shall have a minimum capacity of 325 pounds (1446 N).



**FIGURE R507.13.2
STRINGER BEARING**

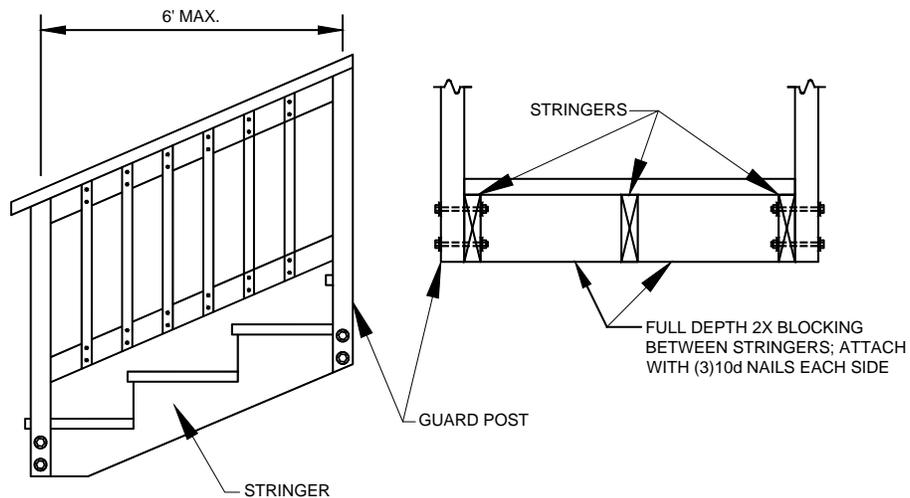
R507.13.3 Treads and risers. Stair treads shall be constructed in accordance with this section and Figure R507.13.3. Treads shall be composed of nominal 2x6 lumber. Treads of stairs constructed with solid stringers shall be permitted to be composed of span rated decking. Risers shall be permitted to be composed of nominal 1x lumber. Openings in risers shall not allow the passage of a 4 inch (102 mm) diameter sphere.



For SI: 1 inch = 25.4 mm

**FIGURE R507.13.3
TREAD REQUIREMENTS**

R507.13.4 Stair guard. Guards for stairs shall be as required per Section R312.1.1 and constructed in accordance with Section R507.12. The attachment of a stair guard post to the stringers shall be constructed in accordance with Figure R507.13.4.



For SI: 1 foot = 304.8 mm

**FIGURE R507.13.4
STAIR GUARD CONNECTION**

R507.13.5 Stair handrails. Handrails for stairs shall be as required per Section R311.7.8. Where the top guard rail does not comply with the handrail grip-size requirements in Section R311.7.8.3, a separate handrail conforming to these requirements shall be required.

R507.13.6 Ramps. Ramps from decks shall be as required in Section R311.8. Details for stringers, guards and handrails shall be similar to those for stairs.

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

The current deck code Section R507 is new to the 2012 IRC. It was created to put all of the connection details for anchoring the deck to the house in one place. However it does not provide any prescriptive requirements for building a deck.

Currently about one-third of the building permits in our county are for decks. The vast majority of these decks are to be built by homeowners. Since the current code provides them no prescriptive guidelines, many jurisdictions across the country have tried to help by creating local, deck guides or aiming the weekend warrior to DCA6 by the American Wood Council.

This submittal is not intended to describe every possible combination of design features that professional, custom deck builders are so proud of creating for *Deck Builders Magazine*. Rather this section is simplified so the average person can understand the requirements, size their materials and have a reasonable expectation that the deck will be safe.

Section R507 borrows heavily from DCA6 and uses the “wet” span tables to size the joists. If DHCD decides to use the new span tables just adopted by the Southern Pine folks the tables will have to be adjusted accordingly.

This is the same proposal I have submitted to ICC for the 2015 IRC to be heard in Dallas.

Submittal Information

Date Submitted: 2-12-2012

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: John S. Trenary, CBO Representing: Region III VBCOA / Frederick County

Mailing Address: Frederick County Inspections Department, 107 N. Kent Street, Winchester VA 22601

Email Address: jtrenary@co.frederick.va.us Telephone Number: (540)665-5650

Proposal Information

Code(s) and Section(s): IRC 2012 Section R507.2.3 Deck lateral load connection

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

R507.2.3 Deck lateral load connection. The lateral load connection required by Section R507.1 shall be permitted to be in accordance with Figure R507.2.3. Where the lateral load connection is provided in accordance with Figure 507.2.3, hold-down tension devices shall be installed in not less than two locations per deck, ___ each device shall **be spaced so one is located in each end of the deck attachment at a minimum distance apart of one third of the horizontal length** and have an allowable stress design capacity of not less than 1500 pounds (6672N).

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

This code change would clarify the intent of the code for the proper spacing of the tension devices when they are utilized. The current language would not prevent the installation of the two devices at a single location.

Cost Impact: This code change should not increase the cost of construction.

Submittal Information

Date Submitted: June 13, 2012

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual(s) Government Entity Company

Name: Bryan Deem

Representing: Stafford County

Mailing Address: 359 Laurel Drive, Aylett, Virginia 23009

Email Address: bdeem@co.stafford.va.us

Telephone Number: 540-658-4504

Proposal Information

Code(s) and Section(s): Change section 507.2.3

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

R507.2.3 Deck lateral load connection.

The lateral load connection required by Section R507.1 shall be permitted to be in accordance with Figure R507.2.3. Where the lateral load connection is provided in accordance with Figure 507.2.3, hold-down tension devices shall be installed in not less than two locations per deck. The devices shall be placed on either of the first two joists at both ends of the deck. Each device shall have an allowable stress design capacity of not less than 1500 pounds (6672 N).

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

Reason:

The Residential code gives a prescription to achieve lateral bracing but without specifying placement details such a system can become ineffective with that which they purport to do. Under the existing provision the installer could place both hold down devices on one side of the deck or place the ineffectively close together. The decking can act essentially as a shearwall or diaphragm if the hold downs are placed proportionately.

Submittal Information

Date Submitted: 6/13/12

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Chuck Bajnai

Representing: VBCOA IRC Committee

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

Email Address: bajnaic@chesterfield.gov

Telephone Number: 804-717-6428

Proposal Information

Code(s) and Section(s): R602.3.1

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

1. Delete Table R602.3.1 (and the accompanying drawing):

~~TABLE R602.3.1~~

~~MAXIMUM ALLOWABLE LENGTH OF WOOD STUDS EXPOSE TO WIND SPEEDS OF 100 MPH OR LESS IN SEISMIC DESIGN CATEGORIES A, B, C, D₀, D₁, and D₂^{b,c}~~

2. Modify Section R602.3.1 as follows:

R602.3.1. Stud size, height and spacing. The size, height and spacing of studs shall be in accordance with Table R602.3(5).

Exceptions:

1. no change

~~2. Studs more than 10 feet in height which are in accordance with Table R602.3.1.~~

2. Where snow loads do not exceed 25 pounds per square foot, walls exposed to wind loads of 100 mph or less shall be permitted over 12 feet tall for either supporting a roof load with not more than 6' of tributary length, or for a gable end wall. The studs shall be a minimum 2x6 at 16 inches on center with a maximum height of 18 feet or 2x6 at 12 inches on center with a maximum height of 20 feet. Openings shall be permitted with jack studs supporting the header in accordance with Section R602.7 and double king studs outboard of the jacks on each side of the opening. If any portion of the two-story wall is required to be a qualified braced wall panel to achieve compliance with Section R602.10.2 for either floor, then the wall shall be designed by a registered design professional in accordance with the International Building Code.

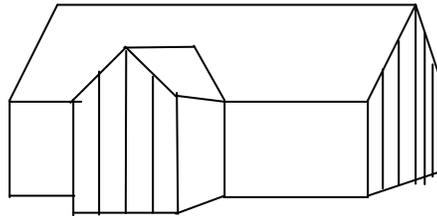
Supporting Statement (including intent, need, and impact of the proposal):

This proposal is submitted to ICC for the 2015 IRC by the Building Code Action Committee (BCAC) and moved forward for the 2012 VRC for the benefit of all users.

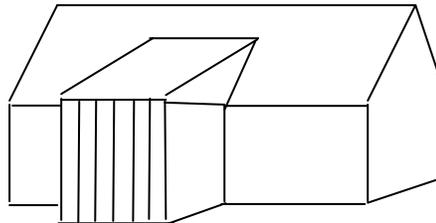
Table R602.3.1 has been the source of a lot of confusion. The footnote b is seldom read or understood. This change is submitted to:

1. Eliminate the table - the source of the confusion
2. Provide clarification as to where it can be applied (see the three options below)
3. Write in code language the requirements for when tall studs can be used.
4. To say that you cannot use these tall studs where the wall is an integral part of the wall bracing system.

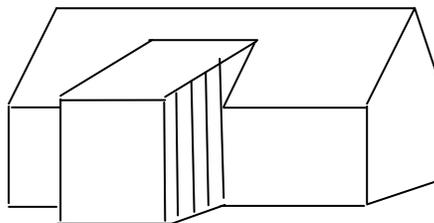
Tall studs could be used for two-story gable ended wall supporting nothing more than self weight.



Tall studs could be used for a two-story projection where the roof framing runs perpendicular to the wall so long as the overbuilt roof has a trib length of 6' or less



Tall studs could be used for a two-story projection where the roof framing runs parallel to the wall such that it was supporting nothing more than self weight



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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Chuck Bajnai

Representing: VBCOA IRC Committee

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

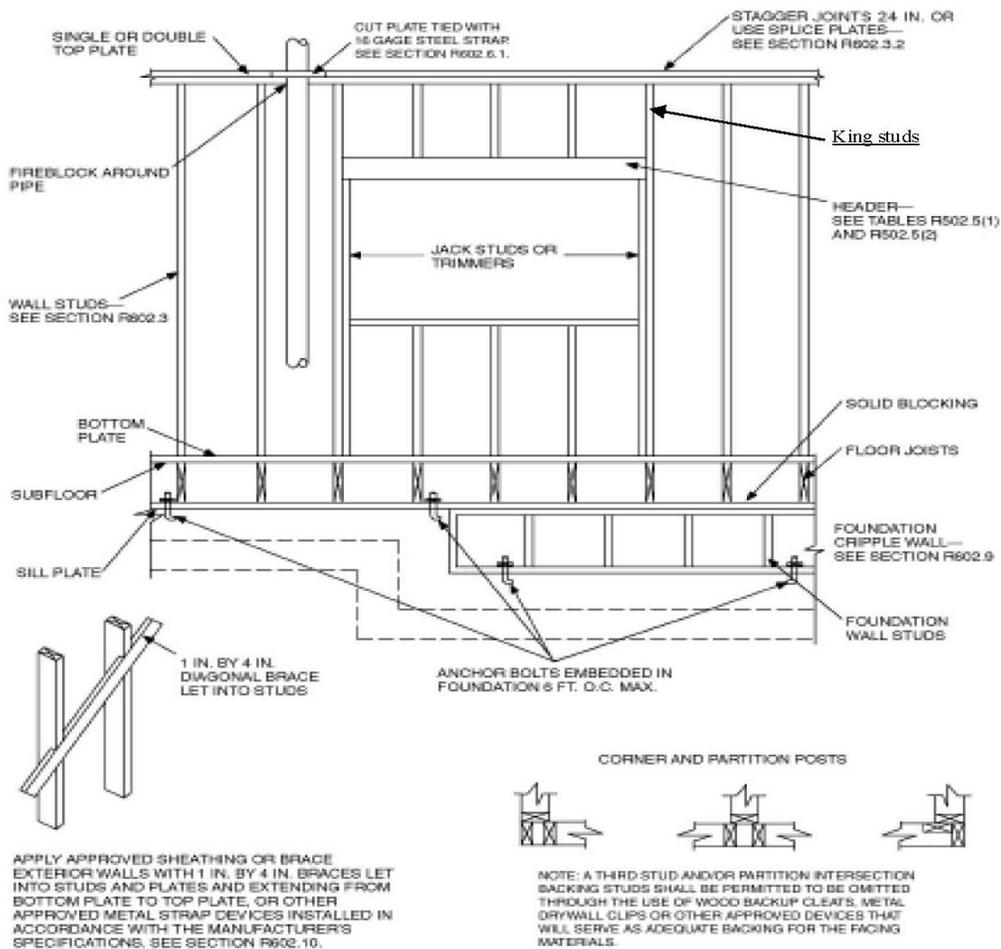
Email Address: bajnaic@chesterfield.gov

Telephone Number: 804-717-6428

Proposal Information

Code(s) and Section(s): Figure R602.3(2) and Section R602.7.4

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



For SE: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

**FIGURE R602.3(2)
FRAMING DETAILS**

Add new Section R602.7.4 as follows:

602.7.4 Supports for headers. Headers shall be supported on each end with one or more jack studs in accordance with Table R502.5(1) or Table R502.5(2). A king stud shall be adjacent to the jack stud on each end of the header and nailed at each end of the header with 4-16d nails.

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

This proposal is submitted to ICC for the 2015 IRC by the Building Code Action Committee (BCAC) and moved forward for the 2012 VRC for the benefit of all users.

All wooden beams must be designed to account for lateral stability and rotational movement potential. Currently the International Residential Code provides no prescriptive solution for wooden beam stability other than a reference to AFPA NDS in Section R301.1.

The NDS 2005 details methods for achieving beam stability in sections 4.4.1 and 3.3.3. These sections are complex, formulaic and difficult to interpret for those individuals not familiar with engineering methods and NDS standards. Depending on the depth/ breadth ratio of the beam, various means of restraint are required at the ends, compression and tension edges of the member.

This simple addition to the IRC will provide a prescriptive solution for more stable beam installations, especially at perimeter walls where there is often little to prevent window and door header rotation. Often times with exterior window and door headers the only preventative means of beam rotation resistance would be king studs at the end of the header beams, which are currently not required expressly in the IRC. A pony wall that often occurs over door and window headers may or may not provide stability for the beam. Simply prescribing a king stud for all beams (where applicable) and specifying nailing for the king stud to header connection will provide greatly improved beam stability with little cost and effort.

From our less than scientific poll, nailing the headers to the king studs is already being done by most reputable home builders. The only thing this proposal does then is to prescribe the nail size.

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Stephen Turchen

Representing: Virginia Building & Code Officials Association

Mailing Address: Suite 316 / 12055 Government Center Parkway, Fairfax, VA 22035

Email Address: Stephen.turchen@Fairfaxcounty.gov

Telephone Number: 703-324-1653

Proposal Information

Code(s) and Section(s): 2012 IECC Table R402.4.1.1

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

For the Component "Walls," change Criteria to read:
Cavities within corners and headers shall be insulated by completely filling the cavity with a material having a thermal resistance of R3 per inch minimum. ~~and~~ The junction of the foundation and sill plate shall be sealed.

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

The current text says, "Corners and headers shall be insulated ..." All headers and corners? All the time? Insulated to what level? This provision is a carryover of the 2009 IECC requirement. Varying answers to these questions have already lead to varying interpretations of the code requirements, uneven enforcement, and confusion in the regulated community. This proposal intends to allay some of that confusion by specifying that headers and corners must be insulated when there is an available cavity (e.g., a two-ply 2x header in a 2x4 wall leaves no cavity to fill) and by providing a practical definition of what *insulated* means in this context. Typical insulating materials like fiberglass and rigid foam can easily achieve R3 per inch.

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)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov
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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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Stephen Turchen

Representing: Virginia Building & Code Officials Association

Mailing Address: Suite 316 / 12055 Government Center Parkway, Fairfax, VA 22035

Email Address: Stephen.turchen@Fairfaxcounty.gov

Telephone Number: 703-324-1653

Proposal Information

Code(s) and Section(s): 2012 IECC Table R402.4.1.1

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

For the Component "Shower / tub on exterior wall," change Criteria to read:
Exterior walls adjacent to showers and tubs shall be insulated and ~~the an~~ an air barrier installed ~~separating them from the showers and tubs on the interior side of the exterior wall, adjacent to the shower / tub.~~

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

Field personnel have noticed that in many cases, a tub or shower is installed in place prior to insulating the exterior wall in the vicinity of the tub or shower, which results in the wall behind the tub not being fully (floor to ceiling) insulated, not being fully covered with a barrier material, or both. Negative outcomes include cold walls behind the tub / shower and moisture condensing inside the exterior wall when it is not protected by an air barrier and / or not insulated, especially possible in the high moisture environment of bathrooms. This clarification should help to ensure that any exterior wall, or portion thereof, behind the tub or shower will be treated as part of the continuous thermal envelope

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)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov
Fax Number: (804) 371-7092
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VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Matt Westheimer

Representing: VBCOA Energy Conservation Committee

Mailing Address: 401 Lafayette Street, Williamsburg, VA. 23185

Email Address: mwest@williamsburgva.gov

Telephone Number: 757-220-6135

Proposal Information

Code(s) and Section(s): VCC (IECC Table R402.4.1.1)

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

Add a footnote to Table R402.4.1.1 as shown:

COMPONENT (no change to table)	TABLE R402.4.1.1 AIR BARRIER AND INSULATION INSTALLATION CRITERIA a, <u>b</u>
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- a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.
- b. Structural integrity of headers shall be in accordance with the applicable building code.

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

The added footnote clarifies that the use of insulating material in headers cannot affect the structural integrity of the header required by the applicable building code.

Date Submitted: 3/21/12 modified 6/25/12

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)
600 East Main Street
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Richmond, VA 23219

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Robert Torbin

Representing: Omega Flex, Inc

Mailing Address: 213 Court Street Suite 1001 Middletown, CT 06457

Email Address: bob.torbin@omegaflex.net

Telephone Number: (413) 388-2390

Proposal Information

Code(s) and Section(s): USBC G2411.1

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

ADD THE FOLLOWING NEW TEXT TO SECTION G2411.1:

CSST with an arc-resistant jacket listed by an approved agency for installation without the direct bonding, as prescribed in this section, shall be installed in accordance with its listing and the manufacturer's installation instructions.

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

See attached Supporting Statement.

Submittal Information

Date Submitted: 6 August 2012

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

Please submit the proposal to:

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600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



Supporting Statement

The use of a CSST product with a protective, arc-resistant jacket is an alternate method of protection against electrical arcing damage caused by high voltage transient events such as a nearby lightning strike. An arc-resistant jacket does not rely on direct bonding to the grounding electrode system to reduce or eliminate damage from electrical arcing. Instead, the protective jacket acts as a resistor and is designed to locally absorb and dissipate the arcing energy over a short length of the jacket. The jacket, in essence, disrupts the focus of the arc and reduces the energy level below the threshold value that can cause a perforation of the tubing wall. This dynamic action is equally effective compared to the current CSST bonding method regardless of the bonding conductor size or length. The protection against arcing is provided uniformly throughout the piping system, and is not affected by close proximity to other metallic systems that may not be similarly bonded.

The ICC Evaluation Service has developed listing criteria for arc-resistant jackets to verify that this design approach will provide an ability to resist damage from transient arcing currents under a wide range of conditions. A copy of the PMG Listing Criteria (LC1024) is included with this proposal. Currently, three CSST products are listed to PMG LC1024. The listing criteria defines the experimental means to determine whether the protective jacket provides resistance to damage from indirect lightning strikes without the need for additional bonding as prescribed currently in Section G2411.1 of the VA Uniform Statewide Building Code. A proposal to include performance requirements for an arc-resistant jacket based on the PMG LC1024 Listing Criteria is presently under consideration by the ANSI LC-1 TAG.

Extensive testing has been performed by Lightning Technologies Inc. (Pittsfield, MA) to demonstrate that the protective, arc-resistant jacket can resist in excess of 4.5 coulombs without a perforation of the tubing wall. A copy of a pertinent LTI test report is attached. By comparison, experimental testing has determined that energy levels around 0.15 coulombs are sufficient to perforate uncoated CSST. While no product or system is immune to damage from a direct lightning strike, lightning experts agree that a level of approximately 2 coulombs is the upper end of the energy level induced in metallic systems (inside the building) from a nearby/indirect lightning strike. A recent IEEE paper by Dr. Michael Stringfellow (attached) on lightning damage confirms that the proposed energy value (2 coulombs and lower) appears consistent with lightning damage observed in the field, and the acceptance level (4.5 coulombs) represents an appropriate safety threshold for this type of lightning protection.

The cost impact to the consumer of allowing the use of arc-resistant jacket CSST as an alternate method of bonding CSST should be minimal if not zero. The small extra cost per foot of arc-resistant jacket is more than offset by the elimination of the two bonding connections, the 6 AWG conductor wire, and the labor time for the electrician to install.

CSST with arc-resistant jacket has been commercially installed since 2004, and at the present time, three different (black-jacketed) products are commercially available. Field experience has been very favorable with no known cases of indirect lightning damage to CSST piping systems using these arc-resistant jackets. Currently, at least 10 states permit the installation of the arc-resistant CSST without the need for additional bonding. Given that both conventional (yellow) and advanced (black) CSST products will continue to be commercially available, both methods of electrical protection of CSST systems should be recognized and permitted within the Code.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Amusement Device Technical Advisory Comm. Representing: _____

Mailing Address: _____

Email Address: _____ Telephone Number: _____

Proposal Information

Code(s) and Section(s): Virginia Amusement Device Regulations, Definition of "Amusement Device"

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

Change VADR Section 13 VAC 5-31-20 (definition of "Amusement device" only) as shown:

"Amusement device" means (1) a device or structure open to the public by which persons are conveyed or moved in an unusual manner for diversion and (ii) passenger tramways. For the purpose of this definition, the phrase "open to the public" means that the public has full and unrestricted access to an event, irrespective of whether a fee is charged. Private events are not considered to be open to the public.

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

This proposal is to add clarity to the phrase "open to the public" to facilitate a more uniform application of the VADR.

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Amusement Device Technical Advisory Comm. Representing: _____

Mailing Address: _____

Email Address: _____ Telephone Number: _____

Proposal Information

Code(s) and Section(s): VADR, Section 30

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

Change Section 13 VAC 5-31-30 to read as follows:

13 VAC 5-31-30. ~~Exemptions~~ Devices covered and exempt.

A. The following devices, identified by name or description, when open to the public, shall be considered amusement devices subject to this chapter. The list is intended only to clarify questionable devices, while the definition of an "amusement device" in 13 VAC 5-31-20 is generally used to determine the applicability of this chapter.

1. Inflatable amusement devices; and

2. Zip lines.

B. The following equipment or devices shall not be considered amusement devices subject to this chapter:

1. Non-mechanized playground or recreational equipment such as swing sets, sliding boards, climbing bars, jungle gyms, skateboard ramps and similar equipment where no admission fee is charged for its use or for admittance to areas where the equipment is located;

2. Coin-operated rides designed to accommodate three or less passengers; ~~and~~

3. Water slides or similar equipment used in community association, community club or community organization swimming pools; ~~and~~

4. Mechanical bulls or similar devices.

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

This proposal is to assist local building departments in the determination of whether certain devices are amusement devices and to achieve more uniformity in the application of 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)

600 East Main Street

Suite 300

Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov

Fax Number: (804) 371-7092

Phone Numbers: (804) 371-7140 or (804) 371-7150





COMMONWEALTH of VIRGINIA

Office of the Attorney General
Richmond 23219

Kenneth T. Cuccinelli, II
Attorney General

900 East Main Street
Richmond, Virginia 23219
804 - 786 - 2071
804 - 371 - 8946 TDD

MEMORANDUM - Confidential - Subject to Attorney-Client Privilege

To: Anthony Clatterbuck, Chair
Board for Housing and Community Development

Cc: Emory Rogers
Department of Housing and Community Development

Vernon Hodge
Department of Housing and Community Development

From: Steven P. Jack
Assistant Attorney General

Date: February 28, 2013

Subject: Interpretation of § 36-98.3 in promulgating Amusement Device Safety regulations.

Question Presented

You have asked for advice as to the criteria and methods the Committee and Board should use in interpreting § 36-98.3 of the Code of Virginia, particularly the phrase "'Amusement device' means (i) a device or structure open to the public by which persons are conveyed or moved in an unusual manner for diversion..." in promulgating Amusement Device Safety regulations.

Discussion

Section 36-98.3 of the Code of Virginia defines amusement devices to include "device[s] or structure[s] open to the public by which persons are conveyed or moved in an unusual manner for diversion, but excluding snow tubing parks and rides, ski terrain parks, ski slopes and ski trails..." In determining what particular devices, if any, you should specify in regulations as meeting this definition, you should consider how the Virginia courts would review those regulations if requested on an appeal.

Some basic statutory construction rules would be applied by the courts. Virginia Courts have long held that they will “determine the legislative intent from the words used in the statute, applying the plain meaning of the words unless they are ambiguous or would lead to an absurd result.”¹ “The plain, obvious and rational meaning of a statute is to be preferred over any curious, narrow, or strained construction.”² Also, related statutes “must be considered together in construing their various material provisions.”³ “This requires that ‘the literal meaning of separate provisions, if in apparent conflict[,] . . . must yield to a reasonable and fair interpretation to be gathered from the context, the subject matter and the reason and spirit of the law.’”⁴ In other words, “[the courts] have a ‘duty to interpret the several parts of a statute as a consistent and harmonious whole so as to effectuate the legislative goal.’”⁵

The Supreme Court of Virginia ("SCV") has applied these methods in interpreting the definition of amusement devices before. In early 2011, the SCV determined that a snow tubing park with the snow formed into chutes was an amusement device (section 36-98.3 was amended by the General Assembly that year in response to the SCV's ruling to add the exclusions for snow tubing parks and ski slopes,⁶ although the SCV's reasoning can still be used for further interpretation of that section). In making that determination, the SCV focused on three questions: i) was there a man-made device or structure vs. a natural environment; ii) was a person moved or guided in their movement by the device or structure vs. the person moving or directing themselves over the passive structure; iii) was the movement for amusement or diversion?⁷

In that case, the SCV used the definition of structure in § 36-97 of an "assembly of materials forming a construction for...use" and noted that even snow, if assembled and formed into a particular shape by persons in order to be used for a relevant purpose would be a structure.⁸ The SCV also made a distinction between a chute that guided a passive person in movement (even if the movement is primarily caused by gravity) and a natural slope in which the person actively chose his course and speed.⁹

If all three elements are present (i.e., a man-made device or structure, which mechanically moves or physically guides a person in movement, used for amusement or diversion and not a more practical purpose), then the device meets the definition of an amusement device.

In making its decision in the 2011 case, the SCV did give deference to the Board's amusement device safety regulations and the scope of devices the Board chose to cover under those regulations. In reviewing whether regulations are within the scope of statutory authority, the courts are guided by principles from the Virginia Administrative Process Act and constitutional due process protections.

Generally, the construction and interpretation an administrative agency gives to its regulation, if reasonable, is entitled to great deference.¹⁰ The courts may reverse the administrative agency's interpretation

¹ Grafmuller v. Commonwealth, 57 Va. App. 58, 61, 698 S.E.2d 276, 278 (2010) (quoting Wright v. Commonwealth, 278 Va. 754, 759, 685 S.E.2d 655, 657 (2009)).

² Commonwealth v. Zamani, 256 Va. 391, 395, 507 S.E.2d 608, 609 (1998).

³ Colbert v. Commonwealth, 47 Va. App. 390, 395, 624 S.E.2d 108, 110 (2006).

⁴ Id. at 395, 624 S.E.2d at 110-11 (alteration in original) (quoting Buzzard v. Commonwealth, 134 Va. 641, 653, 114 S.E. 664, 667 (1922)).

⁵ Id. at 395, 624 S.E.2d at 111 (quoting Virginia Elec. & Power Co. v. Bd. of County Supervisors, 226 Va. 382, 387-88, 309 S.E.2d 308, 311 (1983)).

⁶ 2011 Va. Acts of Assembly, Chapter 546.

⁷ Vuich v. Great E. Resort Corp., 281 Va. 240, 246-247, 704 S.E.2d 377, 380 (2011).

⁸ Id. at 246.

⁹ Id. at 247 ("The language ['conveyed or moved'] imports a circumstance in which the rider is a passive participant and does not exert control over his or her direction during the ride.").

¹⁰ Virginia Real Estate Board v. Clay, 9 Va. App. 152, 160, 384 S.E.2d 622, 627 (1989). See also Jackson v. W., 14 Va. App. 391, 401, 419 S.E.2d 385, 390 (1992).

only if the agency's construction of its regulation is arbitrary or capricious or fails to fulfill the agency's purpose as defined by its basic law.¹¹ The courts shall take due account of the experience and specialized competence of the agency, and the purposes of the basic law under which the agency acted.¹² The reviewing judicial authority may not exercise anew the jurisdiction of the administrative agency and merely substitute its own independent judgment for that of the body entrusted by the Legislature with the administrative function.¹³

Therefore, the Board has some discretion in how broadly it applies the criteria mentioned above in determining whether specific devices should be regulated as amusement devices. However, the Board should use some consistent principles in the reasonable application of the criteria, such that a reasonable person looking at the regulations can determine why any listed or omitted devices either are or are not included as amusement devices.

Unless an included device clearly cannot meet the definition of an amusement device, or an omitted device cannot be meaningfully distinguished from an included device, the courts will usually defer to the Board's decision in including or omitting the device in its regulation.

¹¹ Id. at 161, 384 S.E.2d at 627 (citing *Johnston-Willis Ltd. v. Kenley*, 6 Va. App. 231, 246, 369 S.E.2d 1, 9 (1988)).

¹² Va. Code § 2.2-4027.

¹³ *Clay*, 9 Va. App. at 161, 384 S.E.2d at 627.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Amusement Device Technical Advisory Comm. Representing: _____

Proposal Information

Code(s) and Section(s): VADR, Sections 20, 40, 75 and 200

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

Change the definition of "kiddie ride" in § 20 to read as follows:

"Kiddie Small mechanical ride" means an amusement device, other than an inflatable amusement device, where the passenger or patron height is limited to 54 inches or less, the design capacity of passengers or patrons is 12 or less, and (i) the assembly time for the device is two hours or less, (ii) the revolutions per minute of any rotation of the components of the device is not greater than seven, (iii) the device has a footprint of less than 500 square feet, and (iv) the device does not invert a patron or lift a patron more than three feet in the air, measured from the ground to the bottom of the patron's feet when the device is operating.

Change Item 1 of § 75 to read as follows:

1. \$25 \$35 for each kiddie small mechanical ride or inflatable amusement device covered by the permit;

Change § 75(D) to read as follows:

D. Notwithstanding the provisions of subsection C of this section, a permit application is not required for a kiddie small mechanical ride or an inflatable amusement device that has an unexpired certificate of inspection issued by any local building department in this Commonwealth, regardless of whether the device has been disassembled and moved to a new site. In such cases, the local building department shall be notified at least three days prior to the operation of the kiddie small mechanical ride or the inflatable amusement device and the information required on a permit application as listed in subsection C of this section shall be provided to the local building department. In addition, and notwithstanding the provisions of subsection A of this section, the local building department shall be permitted to charge a \$50 inspection fee per event to the person notifying the local building department of an event where an inflatable amusement device is operating, if the local building department chooses to inspect any or all of the inflatable amusement devices operating at that event. An inspection report shall be provided to the person notifying the local building department of the event if such an inspection is conducted.

Change § 75(E) to read as follows:

E. Local building department personnel shall examine the permit application within five days and issue the permit if all requirements are met. A certificate of inspection for each amusement device shall be issued when the device has been found to comply with this chapter by a private inspector or by an inspector from the local building department. It shall be the responsibility of the local building department to verify that the private inspector possesses a valid certificate of competence as an amusement device inspector from the Virginia Board of Housing and Community Development. In addition, local building department personnel shall be responsible for assuring that the certificate of inspection is posted or affixed on or in the vicinity of the device in a location visible to the public. Permits shall indicate the length of time the device or devices will be operated at the site, clearly identify the device or devices to which it applies and the date of expiration of the permit. Permits shall not be valid for longer than one year, except that permits for small mechanical rides shall not be valid for longer than six months.

Change the term "kiddie ride" to "small mechanical ride" in §§ 40(C)(2) and 75(F).

Change § 200 (Inflatable Amusement Devices) to read as follows:

In addition to other applicable requirements of this chapter, inflatable amusement devices shall be operated, maintained and inspected in accordance with ASTM F2374.

Notwithstanding any requirements of this chapter to the contrary, a permit to operate an inflatable amusement device that is less than 150 square feet and in which the height of the patron containment area is less than 10 feet need not be obtained if the device has an unexpired certificate of inspection issued by a local building department in this Commonwealth, regardless of whether the device has been disassembled or moved to a new site.

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

This proposal is to allow inflatable amusement devices to have yearly inspections, but to authorize the local building department to inspect any event where an inflatable amusement device is being operated and to charge a \$50 inspection fee per event if the local building department chooses to inspect such an event. The proposal also expands the term "kiddie ride" to include small mechanical rides (by adding a new definition) and limits the approval of the small mechanical rides to six months without an inspection.

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)

600 East Main Street

Suite 300

Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov

Fax Number: (804) 371-7092

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Amusement Device Technical Advisory Comm. Representing: _____

Mailing Address: _____

Proposal Information

Code(s) and Section(s): VADR, Section 75

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

Change Section 13 VAC 5-31-75 to read as follows:

13 VAC 5-31-75. Local Building Department.

A. In accordance with §§ 36-98.3 and 36-105 of the Code of Virginia, the local building department shall be responsible for the enforcement of this chapter and may charge fees for such enforcement activity. The total amount charged for any one permit to operate an amusement device or devices or the renewal of such permit shall not exceed the following, except that when a private inspector is used, the fees shall be reduced by ~~50%~~ 75%:

1. \$25 for each kiddie ride covered by the permit; (see small mechanical/inflatable proposal for this category)
2. ~~\$35~~ \$55 for each circular ride or flat-ride less than 20 feet in height covered by the permit;
3. ~~\$55~~ \$75 for each spectacular ride covered by the permit which cannot be inspected as a circular ride or flat-ride in subdivision 2 of this subsection due to complexity or height; and
4. ~~\$150~~ \$200 for each coaster covered by the permit which exceeds 30 feet in height.

Notwithstanding the above, the local building department shall be permitted to increase the fees up to 50% when requested to perform weekend or after-hour inspections.

(Remainder of section unchanged)

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

The revised fees reflect the average real costs of local enforcement, taking into consideration travel times, the increased cost of fuel and actual time performing inspections. Although these factors vary by locality, the existing fees reflect an average hourly rate for an inspector of \$14.09; the new fees: \$23.09 an hour. The fees for "kiddie rides" have been left unchanged in this proposal since there is another proposal from the committee to entirely revise the kiddie ride provisions and which also address fees for the new small mechanical rides and inflatables, which are to replace the kiddie ride provisions. The fees have not been adjusted since 2005. The authorization for increasing the fee for night or weekend inspections will enable the local building department to do more inspections if no third party inspectors are available.

Submittal Information

Date Submitted: _____

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

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Virginia Certification Standards

13VAC5-21-10. Definitions.

A. The following words and terms when used in this chapter shall have the following meanings unless the context clearly indicates otherwise:

“Applicant” means a person seeking a certificate.

“BCAAC” means the Building Code Academy Advisory Committee appointed pursuant to subdivision 7 of § 36-137 of the Code of Virginia.

“BHCD” means the Virginia Board of Housing and Community Development.

“Certificate” means a certificate of competence issued pursuant to subdivision 6 of § 36-137 of the Code of Virginia concerning the content, application, and intent of specified subject areas of the building and fire prevention regulations promulgated by the BHCD and issued to present or prospective personnel of local governments and to any other persons seeking to become qualified to perform inspections pursuant to Chapter 6 (§ 36-97 et seq.) of Title 36 of the Code of Virginia, Chapter 9 (§ 27-94 et seq.) of Title 27 of the Code of Virginia, and any regulations adopted thereunder, who have completed training programs or in other ways demonstrated adequate knowledge.

“Certificate holder” means a person to whom a certificate has been issued.

“Code academy” means the Virginia Building Code Academy established under subdivision 14 of § 36-139 of the Code of Virginia or individual or regional training academies accredited by the department pursuant to subdivision 7 of § 36-137 of the Code of Virginia.

“DFP” means the Virginia Department of Fire Programs.

“Department” means the Virginia Department of Housing and Community Development.

“Nongovernmental employee” means any person not employed by a locality collecting and transmitting the fee levy to the department in accordance with subdivision 7 of § 36-137 of the Code of Virginia.

“SFPC” means the Virginia Statewide Fire Prevention Code (13VAC5-51).

“State Review Board” means the Virginia State Building Code Technical Review Board established under § 36-108 of the Code of Virginia.

“USBC” means the Virginia Uniform Statewide Building Code (13VAC5-63).

“VADR” means the Virginia Amusement Device Regulations (13VAC5-31).

B. Words and terms used in this chapter that are defined in the USBC, VADR or SFPC and that are not defined in this chapter shall have the meaning ascribed to them in those regulations unless the context clearly indicates otherwise.

13VAC5-21-20. Purpose.

The purpose of this chapter is to establish standards for applicants for a certificate and standards to be used by the department in the evaluation and determination of a person's eligibility for the issuance of certificates.

13VAC5-21-31. Qualification and examination requirements.

A. An applicant for a certificate in categories associated with the USBC or the SFPC shall provide a written or electronic endorsement from the code official or the code official's supervisor in the locality in which they are employed certifying that the applicant complies with the qualification section in the USBC or the SFPC for each type of certificate sought. When the applicant for a certificate in categories associated with the USBC or the SFPC is a ~~nongovernment~~ nongovernmental employee, the applicant shall provide written or electronic documentation that the applicant complies with the qualification section in the USBC or the SFPC as it would relate to the applicant's job responsibilities for each type of certificate sought.

B. An applicant for a certificate in categories associated with the VADR shall provide a written endorsement from the applicant's supervisor or a person having a similar relationship to the applicant certifying that the applicant is generally qualified to conduct activities related to the VADR.

C. Applicants for all certificates shall provide proof of successful completion of approved examinations for each certificate sought, ~~except as provided for in 13VAC5-21-45~~ based on current certification examination requirements. Applications submitted with passing grades of approved examinations older than six years from the date of passing will be denied except where the applicant can demonstrate the maintenance of a current certification issued by the approved testing agency. The department may consider related certifications maintained by the certifying entity. The department shall maintain a list of approved testing agencies and examinations that meet nationally accepted standards for each certificate offered. For information on approved testing agencies and examinations contact the department's ~~Technical Assistance Services Office, 501 N. 2nd St.~~ Training and Certification Office, 600 East Main St., Suite 300, Richmond, VA 23219, telephone (804) 371-7180.

13VAC5-21-41. Certification categories and training requirements.

A. The department maintains a list of all certificates offered and the list sets out the required training necessary to attend and complete to obtain a certificate. ~~This section also contains specific training requirements for some certificates offered that may be duplicated on the list or that may be in addition to those on the list.~~ Alternatives to the training requirements set out in 13VAC5-21-45 shall be permitted considered for all certificates offered except that no alternative shall be accepted for the code academy core module.

B. Applicants for certificates shall attend and complete the code academy core module. ~~In addition to~~ After the completion of the core module, applicants for the following certificates are required to attend and complete the following code academy training as set out in a list maintained by the department, except as provided for in 13VAC5-21-45. All required training must be completed within no more than six years prior to the date the application is submitted and the requirements for training are based on those in effect at the time of application.

Certificate	Code Academy Training
Building official	Advanced official module
Fire official	Advanced official module and the 1031 school as administered by DFP
Building maintenance official	Advanced official module and the property maintenance module
Fire prevention inspector	The 1031 school as administered by DFP
Amusement device inspector	Amusement device inspection module

13VAC5-21-45. Alternatives to ~~examination and~~ training requirements.

~~A. An applicant for a certificate with the written endorsement or documentation required by 13VAC5-21-31 may submit a written request to the department to approve an equivalent examination by a testing agency not on the list of approved testing agencies to satisfy the examination requirements of 13VAC5-21-31. BCAAC may be consulted with in any such consideration.~~

~~B. Upon written request, alternative training or a combination of training, education or experience to satisfy the training requirements of 13VAC5-21-41 may be approved, provided that such alternatives or combinations are determined to be equivalent to that required. However, as provided in 13VAC5-21-41, no substitutions shall be approved for the code academy core module. The types of combinations of education and experience may include military training, college classes, technical schools or long-term work experiences, except that long-term work experiences shall not be approved as the sole substitute to satisfy the training requirements. BCAAC may be consulted with in any such consideration.~~

13VAC5-21-51. Issuance and maintenance of certificates.

A. Certificates will be issued when an applicant has complied with the current applicable requirements of this chapter. Certificate holders will be classified as active ~~or~~, inactive or lapsed. An active certificate holder is a person who is certified and who has attended all periodic training courses designated by the department and complied with all continuing education requirements subsequent to becoming certified. An inactive certificate holder is a person who is certified ~~but~~ and has not either attended all such the periodic training courses designated by the department or met the continuing education requirements, but not both. An inactive certificate holder may request reinstatement as an active certificate holder after completing make-up training courses authorized by the department. A lapsed certificate holder is a person who is certified but has not attended all periodic training courses designated by the department and who has not complied

with all continuing education requirements. A lapsed certificate holder may request reinstatement as an active certificate holder after completing make-up training courses or examinations, or both, as authorized by the department. Provisional certificates may also be issued in accordance with subsection C of this section. Requirements for periodic training courses and continuing education requirements are set out in subsection D of this section.

B. All certificates issued since June 1978 are considered to be valid unless revoked or suspended, except that provisional certificates shall remain valid as set out under subsection C of this section.

C. A provisional certificate may be issued to (i) a person who has been directed by the department to obtain a certificate; (ii) an applicant requesting a certificate under the alternative ~~examination or~~ training provisions of 13VAC5-21-45; ~~or~~ (iii) an applicant when the training required ~~training~~ by the department has not been provided or offered; (iv) an inactive or lapsed certificate holder when the issuance of a provisional certificate is determined to be warranted by the department; or (v) a person who due to extenuating and warranting circumstances either on behalf of the code academy or beyond the person's control, has not fully complied with the eligibility requirements of training and competency established herein.

Such a provisional certificate may be issued when the applicant or person has (i) provided the written endorsement or documentation required by 13VAC5-21-31, (ii) satisfactorily completed the code academy core module, and (iii) completed any training through the code academy or through other providers determined to warrant the issuance of the provisional certificate.

The provisional certificate is valid for a period of one year after the date of issuance and shall only be issued once to any individual, except that a provisional certificate shall remain valid when the required training has not been provided or offered.

D. All certificate holders shall attend periodic maintenance training as designated by the department and shall attend 16 hours of continuing education every two years as approved by the department. If a certificate holder possesses more than one certificate, the 16 hours shall satisfy the continuing education requirement for all certificates.

13VAC5-21-61. Sanctions.

When the BHCD determines a certificate holder has failed to (i) comply with an order issued by the State Review Board ~~or failed to;~~ (ii) meet the required training or testing requirements, or (iii) attend periodic maintenance training or continuing education, or both, a warning letter may be issued to the certificate holder or a certificate may be revoked or suspended by the BHCD. In such cases, a noncompliance notice shall be issued to the certificate holder and notification shall be provided to the locality or company employing the certificate holder. Exceptions to the issuance of a noncompliance notice for failing to comply with the continuing education requirements may be considered where there is a separation from employment by medical or military leave for 12 consecutive months or more during the continuing education period. A record of any action taken pursuant to this section shall be permanently retained in the training record of the certificate holder.

13VAC5-21-70. Appeal.

Decisions of the BHCD regarding an applicant for a certificate or a certificate holder shall be final unless appealed.

Actions under this regulation are governed by the Virginia Administrative Process Act (§ 2.2-4000 et seq. of the Code of Virginia) and are subject to judicial review in accordance with that law.

Virginia Standards for Individual and Regional Code Academies

13VAC5-80-10. Definitions.

The following words and terms when used in this chapter shall have the following meanings unless the context clearly indicates otherwise:

“BHCD” means the Virginia Board of Housing and Community Development.

“Certificate of Accreditation” means the certificate issued to an individual or regional code academy that accredits that code academy to conduct educational programs for persons seeking to become BHCD-certified for enforcement of Virginia’s building- and fire-related regulations.

“Code Academy” means an educational institution established in accordance with § 36-137 of the Code of Virginia that is accredited by DHCD to conduct classes to prepare an individual to pursue an occupation in the inspection profession relating to enforcement of the USBC, VADR and SFPC, or to upgrade an individual in technical phases of the USBC, VADR and SFPC.

“DHCD” means the Virginia Department of Housing and Community Development.

“Operator” means the person designated as the executive official in charge of the code academy.

“SFPC” means the Virginia Statewide Fire Prevention Code (13VAC5-51).

“Train the Trainer” means the DHCD training provided for code academy instructors.

~~“TRB” means the Virginia State Building Code Technical Review Board established under § 36-108 of the Code of Virginia.~~

“USBC” means the Virginia Uniform Statewide Building Code ~~(13VAC5-62)~~ (13VAC5-63).

“VADR” means the Virginia Amusement Device Regulations (13VAC5-31).

13VAC5-80-40. Appeals.

Decisions of DHCD under this regulation are case decisions under the Virginia Administrative Process Act (§ 2.2-4000 et seq. of the Code of Virginia) and are subject to judicial review in accordance with that law.

13VAC5-80-50. Listing of certified academies.

DHCD shall maintain a list of code academies that hold valid Certificates of Accreditation, which shall be available for public review.

13VAC5-80-60. Application for accreditation.

A. Any Code Academy seeking a Certificate of Accreditation shall submit the information required by these standards, on forms provided by DHCD, 120 calendar days prior to the date for which approval is requested.

B. The operator shall reimburse DHCD for the cost of processing and monitoring the accreditation.

C. The following information shall be submitted as part of the application:

1. A budget documenting the financial resources available to equip, maintain, and operate the code academy and proposed expenditures;

2. The educational and teaching qualifications of the operator and instructors;

3. The individual courses of instruction which will be offered, and the purpose of such instructions and an instruction schedule including proposed dates, times and instructors. The course listing shall include state academy courses required for certification and continuing education programs;

4. A listing of any equipment available to aid instruction in each field;

5. The maximum anticipated enrollment to be accommodated with the equipment available in each specified field, and the ratio of students to instructors which shall not exceed 50 to 1 for lecture format courses, and 20 to 1 for interactive courses;

6. The locations where such instruction will take place;

7. Any additional information that DHCD may deem necessary to carry out the provisions of this chapter.

D. Each application for a Certificate of Accreditation shall also include the following commitments:

1. Conduct the Code Academy in accordance with all standards and regulations promulgated by DHCD and BHCD;

2. Permit DHCD to inspect the Code Academy at any time, and to provide all information pertaining to the activities of the Code Academy or its financial condition as requested by DHCD;

3. The levy retained under § 36-137 of the Code of Virginia shall not be used for purposes other than directly relating to the operation of the Code Academy;

4. Conduct all state certification courses in accordance with DHCD content and delivery requirements;

5. In the event that the Code Academy should close, a list of enrolled students who have not completed their program of study, and the amount of the course which they have completed, shall be submitted to DHCD;

5. 6. Maintain current, complete and accurate student records, including a record of all hours of work completed by each student;:

7. Submit quarterly activity reports on forms provided by DHCD. The reports shall include:

a. Training activities conducting during a quarter;

b. Expenditures for conducted training activities;

c. Expenditures for related activities; and

d. Anticipated adjustments to approved activities at the time of accreditation;

8. Submit final activity and budget reports on forms provided by DHCD within 90 days prior to the end of the accreditation period. The reports shall include:

a. A training and activity report including courses, programs, instructors and student statistics;

b. A report detailing related activities;

c. A report on expenditures on all activities and purchases including revenue collected and any carry-over balance; and

d. Summary of the accreditation year.

13VAC5-80-70. Certificate display.

The Certificate of Accreditation shall be displayed on the premises of the Code Academy in an area which is readily accessible to the public.

13VAC5-80-80. Renewal of certificate.

A. Every Code Academy shall apply for renewal of its Certificate of Accreditation no later than April 15 of each year, on forms provided by DHCD. The application for renewal following information shall include a current training schedule. be submitted as part of the renewal application:

1. Proposed state certification course and continuing education training schedule for accreditation for the renewal period, including a delivery schedule, instructors, target participants, site logistics and proposed budget;

2. Proposed related activities such as, but not limited to, equipment and related training purchases, conferences and outside training events;

3. Anticipated revenue for the operation of the academy, budget for all training activities, academy staffing, related purchases and anticipated carry-over funds;

4. Any changes to the initially approved instructor list;

5. The following commitments:

a. Conduct the Code Academy in accordance with all standards and regulations promulgated by DHCD and BHCD;

b. Permit DHCD to inspect the Code Academy at any time and to provide all information pertaining to the activities of the Code Academy or its financial condition as requested by DHCD;

c. To not use the levy retained under § 36-137 of the Code of Virginia for purposes other than those directly relating to the operation of the Code Academy;

d. Conduct all state certification courses in accordance with DHCD content and delivery requirements;

e. In the event that the Code Academy should close, a list, to be submitted to DHCD, of enrolled students who have not completed their program of study and the amount of the course which they have completed; and

f. Maintain current, complete and accurate student records, including a record of all hours of work completed by each student.

B. Every Certificate of Accreditation shall expire upon failure to obtain renewal by June 30 of each year.

13VAC5-80-90. Personnel qualifications.

A. Any director of the Code Academy shall demonstrate a working knowledge of USBC, VADR and SFPC training-related technology and shall possess a minimum of two years of supervisory experience. Managerial experience and a college degree from an accredited college or university are preferred.

B. All instructors shall have knowledge and experience in the trade or profession in which the instructor teaches. Instructors teaching the state required certification courses shall have DHCD-approved experience as an instructor or shall have successfully completed a “Train the Trainer” or DHCD-approved equivalent course and hold an active DHCD instructor certification and active certifications in the discipline in which they are teaching.

C. DHCD shall be notified of any staff or instructor changes within the code academy subsequent to receiving accreditation. Staff changes forwarded to DHCD shall include qualifications of the instructors.

13VAC5-80-100. Instructional program.

The instructional program shall consist of those courses and subjects, related to the technical provisions of the national model codes and referenced standards, which the Code Academy has been accredited to offer, and be consistent with the instructional programs offered by DHCD. DHCD reserves the sole right to provide programs based on Chapter 1 of the USBC, VADR and SFPC. Attendance at any local or regional Code Academy shall not satisfy mandatory attendance at programs administered by DHCD on any changes to the USBC, VADR or SFPC.

13VAC5-80-110. Application for additional courses.

The operator shall present a supplementary application to DHCD for approval of additional courses of instruction.

13VAC5-80-120. ~~Withdrawal~~ Approval of initial application, withdrawal of course approval and revocation, suspension, or refusal to renew a certificate of accreditation.

A. DHCD may not approve an initial application, withdraw course approval, or revoke, suspend, or refuse to renew, any ~~code academy's~~ Code Academy's Certificate of Accreditation for any of the following:

1. Violation of any provision of this chapter;
2. Furnishing false, misleading, or incomplete information to DHCD, or failure to furnish information requested by DHCD within a reasonable time;
3. Presenting to a student any information that is false, misleading or fraudulent;
4. Failure to maintain the premises in a safe and sanitary condition as required by law, state regulation or local ordinance;
5. Failing to maintain adequate financial resources to satisfactorily conduct the courses of instruction offered, or to retain an adequate, qualified staff.

B. DHCD shall notify the operator by certified mail 30 calendar days prior to the effective date of any withdrawal of course approval, or revocation, suspension, or refusal to renew, a Certificate of Accreditation.

13VAC5-80-130. Return of certificate.

Any Certificate of Accreditation issued to a Code Academy shall be returned to DHCD immediately, by registered mail, for the following:

1. Revocation; or
2. Voluntary closure of institution; or
3. Any other cause deemed sufficient by DHCD.

13VAC5-80-140. Records.

DHCD shall maintain records on all actions, findings and recommendations concerning the initial application approval or denial, or approval, revocation, suspension, or refusal to renew any Certificate of Accreditation. All records shall be available to the public, upon request.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 VCC, Section 110.4**

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

110.4 Fire apparatus access road requirements. The permit applicant shall be informed of any requirements for providing or maintaining fire apparatus access roads prior to the issuance of a building permit.

110.4.1 Preliminary meeting. When requested by a prospective permit applicant or when determined necessary by the code official or fire official, the code official and fire official shall meet with the prospective permit applicant prior to the application for a permit to discuss plans for the need of a fire apparatus access road or similar access in order to establish the specific applicability of the provisions of this requirement.

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

Oftentimes, the submittal of construction documents with the application for a building permit is usually the first time a building and/or fire official have an opportunity to provide comments and/or direction to an applicant, and in this case, specifically regarding fire apparatus access roads. However, learning about the need for a fire apparatus access road upon the return of construction documents during the permit review process is too late for such comments and/or requirements. The receipt of a comment to "provide fire apparatus access road" can lead to delays in the issuance of building permit, increased construction costs (due to missed windows of opportunity), and/or redesigns and resubmittals.

There should be a mechanism to convey such access road requirements during earlier phases of design, such as the "preliminary meeting" requirements of the 2009 VRC, Section 103.1.2. Therefore, this code change proposal simply mimics the preliminary meeting "option" which would offer the permit applicant, owner, designer, et. al., an opportunity to learn about the need for a fire apparatus access road or similar requirements during design, which should avoid such potential delays in the permitting process and/or potential increased costs due to missed bidding windows.

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Christopher H. Born, P.E. Representing: Clark Nexsen, P.C.

Mailing Address: 4444 Revere Drive, Virginia Beach, VA 23456

Email Address: cborn@clarknexsen.com Telephone Number: 757-644-8581

Proposal Information

Code(s) and Section(s): IBC 905.2

Proposed Change (including all relevant section numbers, if multiple sections):
Revise wording of current exception in the VUSBC to read as follows: "Exception: Manual wet standpipe systems as per NFPA 14 shall be permitted in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and where the highest floor level is not more than 150 feet above the lowest level of fire department vehicle access. The system shall be designed so that residual pressure and volume requirements of NFPA 14 can be satisfied by pumping through the fire department connection utilizing fire department apparatus of a capacity and maximum pressure as specified by the fire code official."

Supporting Statement (including intent, need, and impact of the proposal):
When originally written for the 2000 VUSBC, I believe this change was intended to capture the allowance of NFPA 14 that permitted manual wet systems. However, the exception only mentioned pressure and not volume. Therefore, while the VUSBC actually addressed something that was already permitted in part in NFPA 14 (elimination of the minimum pressure) it technically required a minimum volume even though NFPA 14 didn't.
Additionally as currently written the exception technically does not require any minimum pressure, even when the system is supplied through the fire department connection. This change will clarify that the system must be capable of satisfying the hydraulic requirements when supplied through the FDC, and indicates that the fire code official shall be consulted regarding the capabilities and standard procedures of the fire department.

Submittal Information

Date Submitted: August 20, 2012

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

Please submit the proposal to:

As Submitted As Amended Disapproved Carry over Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 VCC, Section 915**

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

**SECTION 915
IN-BUILDING EMERGENCY COMMUNICATIONS COVERAGE**

915.1 General. For localities utilizing public safety wireless communications, dedicated empty 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, and additions, in accordance with this section. This Section shall not require improvements of the existing public safety communication systems.

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. Where approved by the building official, a wired communication system in accordance with Section 907.2.13.2 shall be permitted to be installed in lieu of an in-building emergency communication coverage system.
7. Existing buildings and portions of existing buildings undergoing repairs, alterations, a partial change of occupancy, or receiving additions; or relocated or moved buildings.

915.2 Design and technical criteria. The building official or fire official shall provide a document to the owner or their representative indicating the specific technical information and requirements for the emergency responder radio coverage system. This document shall contain, but not be limited to, the various frequencies required, the location of radio sites, effective radiated power of radio sites, anticipated emergency communication equipment, size of operational space within the building, and other supporting technical information necessary to provide compliance with this Section.

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

915.2.1 Preliminary meeting. When requested by the owner or their representative, or when determined necessary by the building official or fire official, the building official and fire official shall meet with the owner or their representative prior to the application for a permit to discuss the requirements for the emergency responder radio coverage system, equipment, empty infrastructure, and responsibilities for providing same.

915.34.4 Installation. The building owner shall install provide a dedicated empty infrastructure to accommodate the emergency communication equipment identified in the document provided in accordance with Section 915.2, or identified in the preliminary meeting. radiating cable, such as coaxial cable or equivalent. The empty infrastructure shall consist of radiating cable shall be installed in dedicated conduits, raceways, or cable trays, as well as available space in or on plenums, attics, interstitial spaces, or roofs, compatible for these specific installations as well as other applicable provisions of this code; and have the ability to be extended or modified without destructive demolition. The locality shall be responsible for the installation of any additional the emergency communication equipment required for the operation of the system.

915.44.2 Operations. The locality will assume all responsibilities for the operation and maintenance of the emergency communication equipment. The building owner shall provide sufficient operational space within the building in accordance with the document provided in accordance with Section 915.2, or identified in the preliminary meeting, to allow the locality access to and the ability to operate the in-building emergency communication equipment.

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

915.62 Acceptance test. Upon completion of the 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, at no cost to the owner, to verify that the required level of radio coverage in accordance with Section 915.6.1 is available present at no cost to the owner. Any noted deficiencies in the installation of the radiating cable empty infrastructure or operational space shall be provided in an inspection report to the owner or the owner's representative.

915.6.1 Radio signal strength. The building shall be considered to have acceptable emergency responder radio coverage when signal strength measurements in 95 percent of all areas on each floor of the building meet the signal strength requirements in Sections 915.6.1.1 and 915.6.1.2.

915.6.1.1 Minimum signal strength into the building. A minimum signal strength of -95 dBm shall be receivable within the building.

915.6.1.2 Minimum signal strength out of the building. A minimum signal strength of -95 dBm shall be received by the agency's radio system when transmitted from within the building.

915.6.2 Compliance. Should the inspection report under Section 915.6 note deficiencies, the building owner shall correct such deficiencies within 60 days of receiving the results of the inspection report. Deficiencies noted in the initial inspection report shall not be a condition to withhold the certificate of occupancy.

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

Infrastructure (i.e., oftentimes understood to mean *empty* conduits, *empty* cable trays, *empty* raceways, *empty* spaces, etc.) by its nature cannot "perpetuate" the operations of any system. It can "accommodate," but not perpetuate (i.e., to last for an indefinite time, or continue without interruption) the in-building emergency communications (IBEC). The *equipment* can perpetuate the system, not the *infrastructure*.

To clarify, the charging paragraph includes additions – since technically, additions are non-separated portions of existing buildings. Also, to ensure this section is not applied in a retrofit manner, the last sentence of Section 915.1 was added, and mimics the language included in the 2012 IFC Section 510.1.

Exception #6 mimics 2012 IFC Section 510.1, Exception 1.

Exception #7 clarifies that these requirements do not apply to existing buildings undergoing any type of rehabilitation, other than a *complete* change of occupancy. The term “new” is being interpreted by a number of building officials as including an *existing* building undergoing alterations or a *partial* change of occupancy.

Section 915.1.1 (Installation) is modified to clarify that only an *empty* infrastructure is required to be provided by the owner. Also, as currently proposed for 2012, a conflict exists. Other portions of this Section imply that the emergency communication equipment will be provided by the locality. The 2012 VCC definition of *emergency communication equipment* includes radiating cable systems (refer to definition below). However, as currently written, Section 915.1.1 (Installation) requires the owner to provide the radiating cable (or equivalent). The revision deletes the conflict.

Emergency communication equipment. Emergency communication equipment, includes but is not limited to, two-way radio communications, signal booster, bi-directional amplifiers, radiating cable systems or internal multiple antenna, or a combination of the foregoing.

The list of possible infrastructure elements has been expanded and clarified. By including a requirement for the infrastructure to be provided in such a way that would allow for modifications without destructive demolition should lessen the potential for increased remedial costs.

Currently, Section 915.2 (Acceptance test) required compliance with “the required level of radio coverage;” however, there was no criteria established in the building code for what “level of radio coverage” was required. Therefore, the added/modified Sections 915.2 and 915.6.1 attempt to establish requirements for a *minimum* level of coverage, which can be modified if necessary as a result of the document provided to the owner under Section 915.2 and/or the preliminary meeting under Section 915.2.1. Both the document and/or preliminary meeting will assist the owner and RDP during their design process to confirm the infrastructure will comply with this section and allow for the equipment, operation, and maintenance provided by the locality. Currently, the level of radio coverage is an “open book” that oftentimes does not get verified until *after* the owner occupies the building, or *just before* a Certificate of Occupancy is applied for – and by then, it is too late to implement cost-effective changes.

Relocating the “at no cost to owner” clarifies that the “no cost” relates to the locality’s *field tests*, not the level of radio coverage – which may actually end up costing additional money if the signal strength and/or coverage are not sufficient.

Section 915.6.1 and its subsections mimic the requirements in 2012 IFC Section 510.4.1.

Section 915.6.2 was added to prevent the locality from denying occupancy due the result of noted deficiencies, provided those deficiencies are remedied within 60 days. If the locality did not want to issue a certificate of occupancy, they could issue a temporary certificate of occupancy until such time the deficiencies are remedied.

The formatting revisions reflect the approach typically done throughout the code where there is an initial “charging” paragraph (“General”) and any subsequent *technical* paragraphs are not subparagraphs of the charging paragraph.

In-building emergency communications
Additional Supporting Information – Addressing Comments
(Code Change Proposal for Section 915)

Comment: *Many felt this was not an issue*

1. When we have building and/or fire officials requesting revisions after occupancy – it is a huge issue
 - a. Usually additional infrastructure is required, sometimes based on equipment that was not shared to the A/E during design or during reviews
 - b. Oftentimes, the added infrastructure must be added above hard ceilings or inaccessible locations – otherwise, the infrastructure would have to be exposed-to-view

Comment: *Meetings are often held prior to plans begin submitted to establish what will be required*

1. If a meeting is held, it does not always include the fire officials – who are usually the ones that are requesting additional infrastructure – after occupancy
2. Currently, although we do not have statistics to indicate how often this occurs, the code does not require a fire official to meet prior to or during design to discuss in-building communication systems

Comment: *It would mandate situations where owners have large expenses that could have been avoided by other options*

1. We do not believe there is anything in the proposed code change that mandates any “situations.” It does ask that certain information be shared to the A/E so an infrastructure can be properly designed and installed.
2. Please understand, a design must start somewhere – and in order to design something, we need to know what we have to design to.
3. The meeting is a vehicle by which criteria is provided to the A/E so they know what they have to design and what an owner has to install.

Comment: *Provide an example of requesting a meeting and being refused.*

1. It is not an issue of being denied a meeting – it is an issue where the fire officials are not always present at a meeting – or - additional requests are made after occupancy
2. Had these issues been discussed and documented, at least the A/E and owner knew what was expected of them and any revisions do not lead to potential claims

In closing:

1. We offered to remove some language and modify others that raised some objections, for example:
 - a. 915.2.1: "or when determined necessary by the building official or fire official"
 - b. 915.6: Delete references to radio strength (915.6.1) and compliance (915.6.2) - although it is difficult to hit a target if you do not know what the target is
2. At the very least, there are conflicts and other issues raised in our "Supporting Statement," including:
 - a. Infrastructure cannot "perpetuate" – it can "accommodate"
 - b. Clarification is needed when applying the word "new" in 915.1
 - c. Conflict exist between "equipment" and "radiating cables"
 - i. Code requires the locality to provide the equipment, and the owner to provide the cables – but cable sis include in the definition of equipment
 - d. Who pays for "added" infrastructure?
 - i. The code requires the owner to put it in, but a building and/or fire official can come in after occupancy and demand more infrastructure be added (say, to accommodate a new piece of equipment)
 - ii. The owner met its obligation and the locality "changed the rules after-the-fact," but almost always, the owner is left with the bill and then seeks claims against the A/E for an improperly designed infrastructure
3. A/Es and owners want to provide a system that works on Day 1 for what is needed
4. This code change is asking that some level of documentation be provided to the A/E and owner so we can "hit our target"

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 1007.1, Exception 1**

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

1007.1 Accessible means of egress required. Accessible means of egress shall comply with this section. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress are required by Section 1015.1 or 1021.1 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress.

Exceptions:

1. Accessible means of egress are not required to be provided in alterations to existing buildings.
2. One accessible means of egress is required from an accessible mezzanine level in accordance with Section 1007.3, 1007.4 or 1007.5.
3. In assembly areas with sloped or stepped aisles, one accessible means of egress is permitted where the common path of travel is accessible and meets the requirements in Section 1028.8.

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

This proposed code change E36-12 was "Approved as Submitted" by the Means of Egress Code Committee at the 2012 ICC Code Development Hearing in Dallas. The accompanying supporting statement, in part, is repeated below:

The intent is to revise Section 1007.1 for consistency with the language in IBC 3411.6, and IEBC 410.6 and 705.

1. *The language in these three sections reads as follows:*
2. *Accessible means of egress required by Chapter 10 of the International Building Code are not required to be provided in existing facilities.*

The text in 1007.1 could be read to require accessible means of egress in existing buildings undergoing a change or occupancy. While there may be situations where accessible means of egress should be provided in existing buildings, this must be addressed separately. It was not the intent of the provisions in the four sections in the IBC and IEBC to have different requirements.

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

As long as the existing means of egress (MOE) is not made worse, the 2009 IEBC does not require *accessible* means of egress for:

- Repairs (504.1 and 505.1)
- Level 1 alterations (604.1 and 605.1, Exception 2)
- Level 2 alterations (706.1 which sends you back to 605)
- Level 3 alterations (806.1 which sends you back to 605 and 706 – which sends you back to 605)
- *Partial* change of occupancy (906.1 sends you to 912.8 – 912.8.1 sends you to 605 and 706)
- Relocated or moved buildings
- Historic buildings do not require accessibility unless undergoing a *complete* change of occupancy (as it sends you back to 912.8)

Only when you get to a *complete* change of occupancy is something required for accessibility – and it is not all about means of egress

So, it appears the IEBC does not require *accessible* MOE unless distinct circumstances are met, for repairs, partial change of occupancies, historic buildings, and relocated buildings

- But the current 2012 IBC 1007.1 implies that *accessible* MOE are not required only for alterations,

Therefore, since Chapter 34 and the IEBC also address repairs, change of occupancy, historic buildings, and relocated or moved buildings, it could be interpreted that accessible means of egress would apply to those scopes of work, since the current language addresses only alterations. A correction is warranted.

Also, it is important to draw a distinction between *accessible* MOE and MOE

- The 20% rule applies to accessibility to a primary function and mostly deals with an accessible route (including site elements and signs) to the *primary function areas* and its associated toilets and drinking fountains
- Accessible MOE applies to an *entire* building and/or site elements

Submittal Information

Date Submitted: ~~August 3, 2012~~ August 6, 2012

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 1022.5**

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

1022.5 Penetrations. Penetrations into and openings through interior exit stairways and ramps are prohibited except for required exit doors, equipment, and ductwork necessary for independent ventilation or pressurization, sprinkler piping, standpipes, electrical raceway for fire department communication systems, and electrical raceway serving the interior exit stairway and ramp and terminating at a steel box not exceeding 16 square inches (0.010 m²). Such penetrations shall be protected in accordance with Section 714. There shall be no penetrations or communication openings, whether protected or not, between adjacent interior exit stairways and ramps.

Exceptions:

1. Membrane penetrations shall be permitted on the outside of the interior exit stairways and ramp. Such penetrations shall be protected in accordance with Section 714.3.2.
2. Through-penetrations shall be permitted for primary and secondary structural framing other than columns. Such penetrations shall be protected in accordance with Section 714.3.1.

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

Structural framing is allowed to penetrate other rated assemblies, including rated corridor walls, exit passageways, and other fire barriers and rated construction (e.g., those elements governed by Chapter 6). As long as the penetrations are fire-stopped and/or installed and tested as required by Section 714.3.1, the level of safety due to the penetration of an interior exit stairway should be equivalent to that of an exit passageway or corridor that was penetrated by structure.

Submittal Information

Date Submitted: August 3, 2012

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)

600 East Main Street

Suite 300

Richmond, VA 23210

Email Address: taso@dhcd.virginia.gov

Fax Number: (804) 371-7092

Phone Numbers: (804) 271-7140 or (804) 271-7150

As Submitted As Amended Disapproved Carry over Other (specify)



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Chapter 11**

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

Revise Chapter 11 as follows:

**SECTION 1101
GENERAL**

1101.1 Scope. The provisions of this chapter shall control the design and construction of facilities for accessibility to physically disabled persons.

1102.2 Design. Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and 2004 Americans with Disabilities Act and Architectural Barriers Act Accessibility Guidelines (2004 ADAAG).

**SECTION 1102
DEFINITIONS**

**SECTION 1103
SCOPING REQUIREMENTS**

**SECTION 1104
ACCESSIBLE ROUTE**

**SECTION 1105
ACCESSIBLE ENTRANCES**

**SECTION 1106
PARKING AND PASSENGER LOADING FACILITIES**

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

**SECTION 11027
DWELLING UNITS AND SLEEPING UNITS**

[Renumber entire section from 1107.n to 1102.n]

**SECTION 1108
SPECIAL OCCUPANCIES**

**SECTION 11039
OTHER FEATURES AND FACILITIES**

11039.1 General. *Accessible* building features and facilities shall be provided in accordance with Sections 11039.2 through 11039.344.

Exception: *Accessible units, Type A units and Type B units* shall comply with Chapter 10 of ICC A117.1.

~~**1109.2 Toilet and bathing facilities.**~~ [delete this Section in its entirety without substitution]

11039.2.4 Family or assisted-use toilet and bathing rooms. [renumber this Section; remainder of this Section is unchanged]

1109.2.2 through 1109.13.1: Delete in their entirety without substitution.

11039.343 Fuel-dispensing systems. Fuel-dispensing systems shall be *accessible*.

1109.15 through 1109.15.4.5: Delete in their entirety without substitution.

**SECTION 110410
SIGNAGE**

[Renumber entire section from 1110.n to 1104.n]

If renumbering the subsequent Sections poses a problem due to cross referencing throughout the I-Codes, the Sections could retain their original numbers (similar to what was done with Chapter 34 by the VCC, where multiple sections were deleted without renumbering).

All other *applicable* references throughout the I-Codes to ICC A117.1 would need to be replaced with 2004 ADAAG.

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

Currently, designers and owners must comply with codes (IBC Chapter 11), standards (ICC A117.1), and regulations (2010 ADA Standards, incorporating the 2004 ADAAG) when it comes to accessibility. Although they try to mimic each other, differences do remain. Therein lies the problem. They are not exactly alike, and this leaves designers and owners in a potential bind. An owner can get a Certificate of Occupancy (CO), but the owner, and in some cases, the architect, may be sued through the ADA civil law. But, typically, if the design meets ADAAG, an owner can get a CO, while protecting themselves (and the A/E) from potential accessibility lawsuits.

The IBC has been trying to mimic ADAAG as far as "scoping" is concerned. They are close, but not identical. Most of the differences involve residential related construction. ICC A117.1 is now nearly identical with ADAAG, but for a few minor differences. Both the IBC and A117.1, together, have achieved "safe harbor" from the DoJ.

- Virginia also adopted Appendix E Supplementary Accessibility requirements to get closer to ADAAG

ADA is the law of the land. Owners and A/E's can design to meet the IBC and A117.1, but the bottom line – all designs need to meet ADAAG, or liability and lawsuits possibly await including the potential of millions of dollars in damages and remedial alterations.

Given that almost, if not all Virginia public K-12 schools (Title III), most governmental buildings (Title II) and some commercial entities (Title III) receive Federal dollars or subsidies in some form, or are otherwise regulated by the Federal government - the DoJ has determined that those entities that receive Federal dollars must comply with the ADA Standards or forfeit the Federal dollars. Therefore, many school districts and others are undertaking ADA audits and having to spend thousands, if not millions, of Commonwealth of Virginia dollars to satisfy the ADA Standards.

It is important to understand that only the 2004 ADAAG are being proposed to replace ICC A117.1 – not the full 2010 Standards or the actual ADA civil law itself. The 2004 ADAAG incorporates both the scoping (similar to the function IBC Chapter 11 serves) and technical/graphic guidelines (similar to the function ICC A117.1 serves) – not the text or language of the civil law.

So, if IBC Chapter 11 (which building officials enforce) is trying to mimic ADAAG for scope, and ICC A117.1 (which building officials enforce) is trying to mimic ADAAG for technical/graphical guidelines – it would appear building officials should be able to enforce the scoping and guideline requirements of the 2004 ADAAG. This proposal does not ask building officials to interpret the civil law itself.

- BCOM, through the CPSM, has been utilizing the 2004 ADAAG (scoping and guidelines only) for accessibility requirements in all Virginia colleges and universities since 2004 – without any known enforcement issues
- So, a precedent has already been established in Virginia for utilizing ADAAG for accessibility requirements for over 8 years w/o any known (to the best of my knowledge and belief) civil lawsuits against BCOM (i.e., building officials) or Virginia's colleges and universities that has since been designed utilizing ADAAG

IBC Chapter 35 is full of references to other standards for design. Are they all written in "enforceable code language?" Incorporating the 2004 ADAAG would be no different.

For those elements that are not addressed in ADAAG would still need to be covered by the IBC, and can be included in Chapter 11 as they are currently.

Where the ADAAG includes unenforceable language or incorrect references (e.g., ADAAG 105.2.4 references 2000, 2001, and 2003 IBC), the VCC could amend those, if necessary – or we could include a "blanket" provision that would address those concerns.

All three documents (IBC, A117.1, and ADAAG) are as close to being identical as they may ever be. Enforcing ONE document (2004 ADAAG) rather than TWO (IBC and A117.1) for building officials – and designing to ONE document (2004 ADAAG) rather than all THREE for owners and A/E's – just makes sense.

Every effort should be made to simplify regulations and thereby reduce the possible conflicting interpretations and/or ensuing conflicts. Any such advancement toward that goal should also improve public safety, health, and welfare.

One final comment:

It is unknown at this time, whether an entity (may be a small private business or a major corporation) who receives subsidies through the Affordable Care Act (ergo, Federal dollars) would then be required to comply with the ADA Standards – which in the case of existing buildings, would become retroactive. If Virginia decides to utilize ADAAG as its accessibility requirements, it may well save potentially millions of dollars throughout the Commonwealth, since those entities constructing newer buildings and structures would already comply with the ADA Standards.

Submittal Information

Date Submitted: August 9, 2012

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)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov
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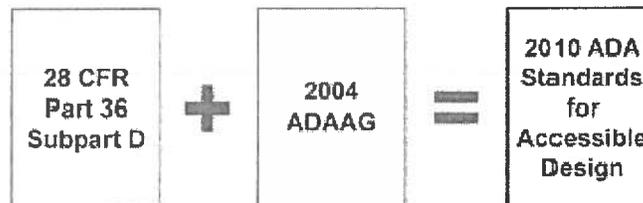
2004 ADAAG in lieu of 2012 IBC Chapter 11 and ICC A117.1 – 2009

Comment: *Should be the 2010 ADA Standards for Accessible Design (2010 Standards), not just 2004 ADAAG*

1. 2010 Standards include all of the following:
 - a. State or local government facilities
 - i. Title II regulations – 28 CFR 35.151
 - ii. 2004 ADAAG
 - iii. 36 CFR Part 1191
 - iv. Appendices B and D



- b. Public accommodations and commercial facilities
 - i. Title III regulations – 28 CFR Part 36, Subpart D
 - ii. 2004 ADAAG
 - iii. 36 CFR Part 1191
 - iv. Appendices B and D



2. The VSAIA just wants to replace the scoping of IBC Chapter 11 with the scoping of ADAAG; and replace the technical requirements of A117.1 with those of ADAAG – without including the regulations associated with 28 CFR that includes “non-code” language

Comment: *ADA is a federal law, not a building code, and we neither have the responsibility nor the authority to enforce the ADA. ADA can only be enforced by the Department of Justice.*

1. 2004 was rewritten in *code* language
2. We reference only the 2004 ADAAG portion, not the law itself
 - a. Building officials would only interpret the scoping and technical portions of 2004 ADAAG – not the law
3. BCOM adopted the 2004 ADAAG in 2004
4. All other referenced *standards* are not building codes either – they are standards – some of which have portions that are not written in “code” language

Comment: *It's another thing we have to learn.*

1. Other than VCC, SFPC, and ICC family of codes being revised every three (3) years
 - a. International Existing Building Code – IEBC
 - b. International Swimming Pool and Spa Code - ISPSA
 - c. International Green Construction Code – IgCC
 - d. International Wildland-Urban Interface Code – IWUIC
 - e. International Performance Code for Buildings and Facilities – IPCBF
 - f. ICC A117.1 - 2009

Comment: *ADAAG includes scoping requirements which are not the building's official's role.*

1. The VSAIA is not aware of any *scoping* requirements under the 2004 ADAAG that are not otherwise a part of the 2012 IBC Chapter 11 and/or ICC A117.1 - 2009

Comment: *IBC is better because it includes churches and all buildings.*

1. True, the ADA law itself does not apply to religious entities.
 - a. However, by referencing the 2004 ADAAG in combination with the proposed code change under 2012 IBC 1101.2, all “buildings and facilities shall be designed and constructed to be accessible”
 - b. VCC and IBC language overrides referenced standard's language
 - c. Therefore, under the proposed code change, churches and all “buildings and facilities” would be covered

Comment: *It took 20 years for ADA to be revised . . . IBC is updated every three years.*

1. Actually, it took 13 years to update ADAAG (1991 ADAAG to 2004 ADAAG)
 - a. It took another 6-8 years to become *effective*
2. It took ICC A117.1 6 years to revise their standards (2003 to 2009) – and is not rewritten every three years
 - a. 2009 (revisions / additions)
 - i. Recreational facilities (included in 2004 ADAAG)
 - ii. Sign requirements (included in 2004 ADAAG)
 - iii. It specifically stated in its Foreword
 1. The new standards continued to provide a level of coordination between the accessible provisions of this standard and the Fair Housing Accessibility Guidelines (FHAG) and the newly released Americans with Disabilities Act and Architectural Barriers Act Accessibility Guidelines (ADA & ABA AG)
3. If you look at the supporting statements of the vast majority of proposed code changes to Chapter 11
 - a. They read, “To comply or to match ADA.”

Final thoughts:

1. “Safe harbor”
 - a. Virginia would not need to seek safe harbor if they adopted 2004 ADAAG
2. All state-funded buildings and facilities are designed and constructed under 2004 ADAAG (BCOM)
 - a. So Virginia requires universities, colleges, community colleges, state prisons, etc. to be designed and constructed under 2004 ADAAG, but not the “rest” of the buildings
3. DoJ is requiring agencies/entities (e.g., public schools) to comply with ADA if they receive any federal dollars
 - a. Prince William County Public Schools – nearly \$1,000,000 for all alterations
4. The Virginian’s with Disabilities Act
 - a. What do you think they had in mind when they named the act what they did?
 - i. Americans with Disabilities Act, or
 - ii. IBC Chapter 11 and ICC A117.1

2004 ADAAG in lieu of 2012 IBC Chapter 11 and ICC A117.1 – 2009

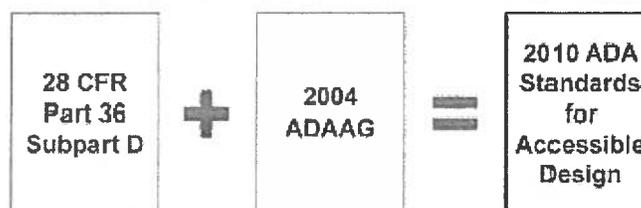
Additional Supporting Information – Addressing Comments

Comment: *Should be the 2010 ADA Standards for Accessible Design (2010 Standards), not just 2004 ADAAG*

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 - i. Title III regulations – 28 CFR Part 36, Subpart D
 - ii. 2004 ADAAG
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2. The VSAIA wants to replace the scoping of IBC Chapter 11 with the scoping of ADAAG; and replace the technical requirements of A117.1 with those of ADAAG – without including the regulations associated with 28 CFR that includes “non-code” language
 - a. The 2004 ADAAG includes “code” language and is almost identical to ICC A117.1

Comment: *ADA is a federal law, not a building code, and we neither have the responsibility nor the authority to enforce the ADA. ADA can only be enforced by the Department of Justice.*

1. 2004 was rewritten in *code* language
2. We reference only the 2004 ADAAG portion, not the law itself
 - a. Building officials would only interpret the scoping and technical portions of 2004 ADAAG – not the law, and not ADA
3. BCOM adopted the 2004 ADAAG in 2004
4. All other referenced *standards* are not building codes either – they are standards – some of which have portions that are not written in “code” language

Comment: *It’s another thing we have to learn.*

1. Other than VCC, SFPC, and ICC family of codes being revised every three (3) years, other “new” codes introduced for this code cycle include
 - a. International Swimming Pool and Spa Code - ISPSA
 - b. International Green Construction Code – IgCC
 - c. ICC A117.1 - 2009

Comment: *ADAAG includes scoping requirements which are not the building’s official’s role.*

1. The VSAIA is not aware of any *scoping* requirements under the 2004 ADAAG that would not fall under the building official’s purview – and if there were, those could easily be amended or deleted

Comment: *IBC is better because it includes churches and all buildings.*

1. True, the ADA law itself does not apply to religious entities.
 - a. However, by referencing the 2004 ADAAG in combination with the proposed code change under 2012 IBC 1101.2, all “buildings and facilities shall be designed and constructed to be accessible”
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Final thoughts:

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 - a. Virginia requires universities, colleges, community colleges, state prisons, etc. to be designed and constructed under 2004 ADAAG, but not the "rest" of the buildings
3. DOJ is requiring agencies/entities (e.g., public schools) to comply with ADA if they receive any federal dollars
 - a. Prince William County Public Schools – nearly \$1,000,000 for all alterations
4. The Virginian's with Disabilities Act
 - a. What do you think they had in mind when they named the act what they did?

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Stephen Turchen

Representing: Virginia Building & Code Officials Association

Mailing Address: Suite 316 / 12055 Government Center Parkway, Fairfax, VA 22035

Email Address: Stephen.turchen@Fairfaxcounty.gov

Telephone Number: 703-324-1653

Proposal Information

Code(s) and Section(s): 2012 IECC Section C402.1.1

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

C402.1.1 Insulation and fenestration criteria. [Revise last sentence only as follows:]
The thermal envelope of buildings with a vertical fenestration area or skylight area that exceeds that allowed in Table C402.3 shall comply with the building envelope provisions of ANSI / ASHRAE / IESNA 90.1 the maximum area allowed under Sections C402.3.1, C402.3.1.1, or C402.3.1.2, as applicable, shall be evaluated as indicated in Sections C407.6, C407.6.1, and C407.6.2.

Supporting Statement (including intent, need, and impact of the proposal):
This change clarifies two important issues when evaluating thermal envelopes of commercial buildings. The prescriptive requirements of thermal envelopes are limited by vertical fenestration area and skylight area. However, these limits are not defined by Table C402.3, but rather in the code language of Sections C402.3 and its sub-sections. Assuming that vertical fenestration and skylight areas are within the allowable limits of the code text, then the prescriptive values of Table C402.3 can be applied. The more critical issue is how to proceed if the stated limits are exceeded. The current paragraph directs the user to building envelope provisions of ASHRAE Standard 90.1; see Section 5 of that standard. Presumably the current IECC intent is that 90.1 / Section 5 be used in lieu of IECC Section C402. This intent conflicts with **C401.2 Applicability**, which tells the IECC user to, effectively, use either the IECC in its entirety or Standard 90.1 in its entirety for commercial buildings; see options 1 and 2 under C401.2. The proposal addresses this potential conflict by directing the IECC user to certain sub-sections of IECC Section **C407 Total Building Performance**. The cited sections under C407.6 allow the user to employ an envelope analysis tool that has been approved by the building official under C407.6.1 ("limited scope"), without getting involved in the more complex full building performance analysis discussed in all of C407. Note that by not directing the IECC user to Section C407 when fenestration / skylight areas are exceeded, another potential conflict with Section C401.2 (Option 3) is also avoided. Impact of the change will help ensure that both designers and code officials have a well-defined enforcement path for all thermal envelope situations in commercial buildings, and that such enforcement will be more uniformly implemented throughout the State.

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ 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: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Stephen Turchen Representing: Virginia Building and Code Officials Assoc.

Mailing Address: Suite 316, 12055 Government Center Parkway, Fairfax, VA 22035

Email Address: stephen.turchen@fairfaxcounty.gov Telephone Number: 703-324-1653

Proposal Information

Code(s) and Section(s): 2012 International Energy Conservation Code; Section R202

Proposed Change (including all relevant section numbers, if multiple sections):
BUILDING THERMAL ENVELOPE. The basement walls, exterior walls, floor, roof, and any other building elements that enclose conditioned space or provide a boundary between conditioned space and exempt or unconditioned space.
ADD AT END: An unconditioned space shall include those buildings or spaces, adjacent to a conditioned space, that are not heated or cooled due to periods of non-occupancy, such as an adjacent townhouse.

Supporting Statement (including intent, need, and impact of the proposal):
The proposed change is intended to ensure that the thermal envelope boundary will include the separation between a conditioned space and those spaces which have a reasonable expectation of being unoccupied (and therefore unconditioned) for a significant albeit temporary period of time. Typical residential building example is an occupied townhouse that is adjacent to an unoccupied townhouse. If the common wall between the townhouses is uninsulated, there will be unnecessary heat transfer across that boundary. The proposal will prevent this situation from developing.

There may be cost impacts of this proposal, but they are difficult to gauge. Townhouses required "rated" separations which may include insulating materials that could also satisfy the wall R-value requirement. Common townhouse construction practice is to build a stud wall on the inside of the rated wall, which could be filled with materials with the required R-value.

Submittal Information

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: VAMMHA

Representing: _____

Mailing Address: _____

Email Address: _____ Telephone Number: _____

Proposal Information

Code(s) and Section(s): Virginia Energy Conservation Code

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

R 404.1 Lighting Equipment (Mandatory). A minimum of ~~75~~ 50 percent of the lamps in permanently installed ~~lighting fixtures~~ luminaries shall be high-efficiency lamps or a minimum of ~~75~~ 50 percent of the permanently installed ~~lighting fixtures~~ luminaries shall contain only high-efficiency lamps.

Supporting Statement (including intent, need, and cost impact of the proposal):
This leaves the mandate for the high efficiency luminaries at 50 percent, the same as it was in the 2009 code. It also makes wording consistent with the NEC.

Submittal Information

Date Submitted: October 16, 2012

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 1403.2**

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

Add the following subsection to 1403.2 as follows:

1403.2 Weather protection. Exterior walls shall provide the building with a weather-resistant *exterior wall envelope*. The *exterior wall envelope* shall include flashing, as described in Section 1405.4. The *exterior wall envelope* shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a *water-resistive barrier* behind the exterior veneer, as described in Section 1404.2, and a means for draining water that enters the assembly to the exterior. Protection against condensation in the *exterior wall* assembly shall be provided in accordance with Section 1405.3.

Exceptions: [no changes]

1403.2.1 Air barrier. The *exterior wall envelope* shall be designed and constructed in such a manner as to prevent the infiltration and exfiltration of air through the wall assembly by providing an air barrier assembly. Air barrier materials shall comply with Section C402.4.1.2.1 of the *International Energy Conservation Code*. Air barrier wall assemblies shall comply with Section C402.4.1.2.2 of the *International Energy Conservation Code*.

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

Although Section [E] 1301.1.1.1 requires buildings to be designed and constructed in accordance with the IECC, something as critical as an air barrier assembly should not be left to a reference in Chapter 13 – especially since it is a critical component of an exterior wall assembly, thus making it better suited to Chapter 14.

An attempt was made to include the air barrier language within Chapter 14 of the 2012 IBC; however, it was “Disapproved” by the Fire Safety Code Committee at the 2012 ICC Code Development Hearing in Dallas, because they felt it belonged in the IECC.

However, 2012 IBC Chapter 14 includes references to other exterior wall assembly components such as, flashings, water resistive barriers, and vapor retarders. Certainly, an air barrier should warrant at least a nominal mention in the IBC Chapter 14 to avoid it from possibly being missed. By limiting this code change proposal to just a reference within Chapter 14, it still addresses the reason for disapproval by keeping everything in the IECC.

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

Although it may have been more logical to locate this reference elsewhere in Chapter 14 (e.g., Section 1403.3 or Section 1404.3), that would have involved renumbering the entire sections and cross referencing to other locations within all of the I-Codes. It was not located within Section 1403.2, because then the exceptions would apply, and it does not appear the exceptions are supposed to apply to air barrier assemblies.

Submittal Information

Date Submitted: August 3, 2012

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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



Air barriers

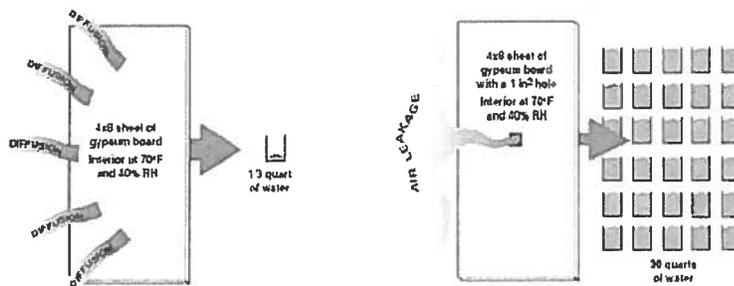
Additional Supporting Information - Addressing Comments

(Code Change Proposal for 1403.2)

Comment: *This puts Energy Code requirements into the Building Code and this was not successful at the national level*

1. Air barriers have just as much, if not more, to do with moisture and water control, than energy, and therefore, should be included in Chapter 14 along with vapor barriers/retarders
2. Ranking by amount of moisture damage (per NIBS)
 - a. Water – direct leaks
 - i. Flashing is included in Chapter 14
 - b. Air – moisture carried via air flow
 - i. NOT included in Chapter 14
 - c. Vapor – vapor diffusion
 - i. Vapor retarders/barriers are included in Chapter 14
 - d. Thermal – conductivity and condensation
 - i. We now have continuous insulation requirements as part of the IECC
3. Air flow into and out of buildings can cause concentrated condensation, mold, corrosion, and premature failure of the building assembly (per NIST)
4. Vapor retarders/barriers are included in Chapter 14 – air barriers are not
 - a. Estimates range between 30-200 times more moisture is transported via air flow than vapor diffusion (per Building Science)

Substantially more moisture will enter a building through an air leak than from vapor diffusion through wall components.



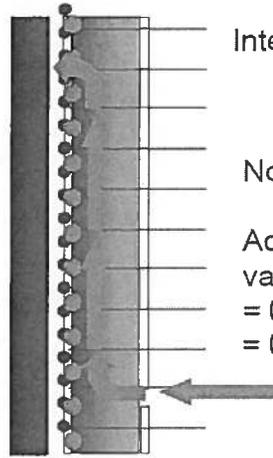
100 Times more water gets through a 1 square inch hole through Air Transport in a 4x8 sheet of gypsum board than Vapor Diffusion.

Source: http://www.buildingscience.com/resources/walls/insulation_sheathings.pdf

Exterior: 20°F, 80% RH

Exfiltration @ 2 cfm
electrical outlet (1 sq. in.)
0.2 psf (9 mph wind)

Accumulation due to
air flow
= 0.0364 lb/hr
= 26.2 lb/month



Interior: 70°F, 30% RH

No Vapor Retarder

Accumulation due to
vapor diffusion
= 0.0006 lb/hr
= 0.43 lb/sf/month

5. Vapor is third on the list and diffuses far less moisture than air flow, yet vapor barriers are included in Chapter 14 and air barriers are not, which allows far more moisture/water into walls than vapor – yet, the argument is that air barriers are more about energy than water/moisture?

The science appears to indicate otherwise

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Haywood Kines

Representing: IAEI Va. Chapter

Mailing Address: 5 County Complex Ct. Woodbridge Va. 22192 Suite #120

Email Address: hkines@pwcgov.org

Telephone Number: (703) 792-7064

Proposal Information

Code(s) and Section(s): 2011 NEC Article 334, Uses Permitted Section 334.10

Delete U.S.B.C. Section 2701.1.1 Changes to NFPA 70

1. The following changes Shall be made to NFPA 70:

~~(2) Multifamily dwellings not exceeding four floors above grade and multifamily dwellings of any height permitted to be of Types III, IV, and V construction except in any case as prohibited in 334.12~~

~~(3) Other structures not exceeding four floors above grade and other structures of any height permitted to be of Types III, IV and V construction except in any case as prohibited in 334.12. In structures exceeding four floors above grade, cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating as identified in listings of fire-rated assemblies~~

Replace with

NEC Art. 334, Section 334.10

(2) Multifamily dwellings permitted to be of Types III, IV and V construction except as prohibited in 334.12,

(3) Other structures permitted to be of Types III, IV and V construction except as prohibited in 334.12. Cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating as identified in listings of fire-rated assemblies.

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

The 2011 NEC has added new changes to 334.10, New (5) Types I and II construction where installed with-in raceways permitted to be installed in Types I and II construction. This change provides a greater flexibility for contractors in the use of NM cables that exceeds the USBC amendment in previous codes.

As Submitted As Amended Disapproved Carry over Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC [P] Table 2902.1 and equivalent Table in the 2012 IPC**

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

Add Footnote 'h' to Table 2902.1 as follows:

A-5 ^h	Stadiums, amusement parks, bleachers and grandstands for outdoor sporting events and activities	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,520 and 1 per 60 for the remainder exceeding 1,520	1 per 200	1 per 150	-	1 per 1,000	1 service sink
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h. See Section 2902.1.1 for allowable reduction in minimum number of required water closets and lavatories for Group E buildings and structures.

Revise 2902.1.1 and add subsection 2902.1.1 as follows:

[P] 2902.1.1 Fixture calculations. To determine the *occupant load* of each sex, the total *occupant load* shall be divided in half. To determine the required number of fixtures, the fixture ratio or ratios for each fixture type shall be applied to the *occupant load* of each sex in accordance with Table 2902.1. Fractional numbers resulting from applying the fixture ratios of Table 2902.1 shall be rounded up to the next whole number. For calculations involving multiple occupancies, such fractional numbers for each occupancy shall first be summed and then rounded up to the next whole number.

Exceptions:

1. The total *occupant load* shall not be required to be divided in half where *approved* statistical data indicate a distribution of the sexes of other than 50 percent of each sex.
2. For outdoor sporting events and activities at Group E buildings or structures, the minimum number of required water closets and lavatories may be reduced by no more than 50% provided all of the following are met:
 - a. Approval is granted by the *building official*.
 - b. *Approved* statistical data indicating an *occupant load* less than the *occupant load* determined by this code.
 - c. The remaining minimum number of required water closets, based on the anticipated actual *occupant load* in attendance at the time of the event or activity, shall be provided by portable toilets equipped with hand sanitizers or hand-washing capabilities.

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

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

This code change proposal addresses those situations where a high, middle, or elementary school has provided spectator seating (e.g., bleachers), but having to provide the minimum number of plumbing fixtures becomes cost prohibitive and becomes a burdensome task – especially in localities where the water must be supplied by a well and/or pump.

Historically, the fixed seating facilities are at capacity no more than a handful of times per year; yet, the minimum plumbing fixtures factors result in a vast number of plumbing fixtures that remain unused for 6 months or more out of a year. Oftentimes, draining of the water lines is required to avoid freezing, or traps must be continually primed, or the heat must be run in an unoccupied building to avoid the freezing of pipes, or a combination of all of the above and other maintenance related procedures.

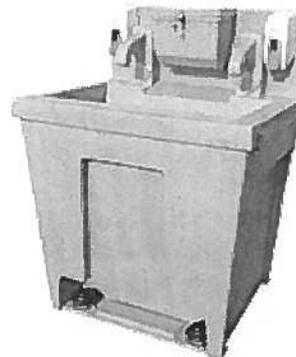
On those occasions where the occupant load does exceed the number of plumbing fixtures provided, portable toilets would be allowed to make up the difference – but for no more than 50%. For example, say a high school would like to provide bleacher seating for 3,000 people, per Table 2902.1 (A-5) the following minimum number of plumbing fixtures must be provided:

- Per Section 2902.1.1, divide occupant load by half = 1,500 male and 1,500 female
 - 1,500 male: 20 water closets + 8 lavatories
 - 1,500 female: 38 water closets + 10 lavatories
- Per the proposed code change, allow for up to a 50% reduction in water closets and lavatories
 - Male: 10 water closets + 4 lavatories
 - Female: 19 water closets + 5 lavatories
 - Portable toilets would need to make up the difference in water closets *only* (hand washing would be handled by sanitizers or washing stations)
 - 29 portable toilets would be required when the occupant load reaches 3,000 occupants
 - If more than 3,000 people attended the outdoor event, then more portable toilets would be required to make up the difference.
 - Conversely, if only 2,000 people attended, then only 10 portable toilets would be required
 - 1,000 male: 14 water closets + 5 lavatories
 - 1,000 female: 25 water closets + 7 lavatories

Portable toilets are allowed for numerous outdoor events and activities. It seems only reasonable that similar accommodations could be allowed for schools. The cost savings could be substantial in both initial and life cycle (maintenance) costs.



Portable toilets



Hand washing station

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Michael D Redifer

Representing: VAESA

Mailing Address: 2400 Washington Avenue 3rd flr Newport News, VA 23607

Email Address: mredifer@nngov.com

Telephone Number: 757-926-8861

Proposal Information

Code(s) and Section(s): VCC Section 3006.7

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

Revise VCC Section 3006.7 as follows:

3006.7 Machine-room-less designs. Where machine-room-less designs are utilized they shall comply with the provisions of ASME A17.1 and incorporate the following:

Delete Item 1 in its entirety and renumber Items 2 and 3 to Items 1 and 2 respectively.

3006.7 Machine-room-less designs. Where machine-room-less designs are utilized they shall comply with the provisions of ASME A17.1 and incorporate the following:

- ~~1. Where the elevator car top will be used as a work platform, it shall be equipped with permanently installed guards on all open sides. Guards shall be permitted to be of collapsible design, but otherwise must conform to all applicable requirements of this code for guards.~~

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

The ASME A17.1 Safety Code for Elevators addresses car top railings and provides for the location, strength, clearances, etc. The allowance of collapsible railings compromises safety for elevator mechanics and inspectors since there is no design standard for their operation. Experience has shown that these collapsible railings, when used, create tripping and fall hazards and interfere with required refuge space and means of evacuating the elevator car when necessary. There may be increased cost involved by providing minimum required clearances within the hoistway.

Submittal Information

Date Submitted: 12-13-12

As Submitted As Amended Disapproved Carry over Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Organization

Name: J. Kenneth Payne, Jr., AIA

Representing: VSAIA

Mailing Address: 3200 Norfolk Street, Richmond, VA 23230

Email Address: kpayne@moseleyarchitects.com

Telephone Number: 804.794.7555

Proposal Information

Code(s) and Section(s): **2012 IBC, Section 3412.2.2**

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

Add an exception to Section 3412.2.2 of the IBC to read:

Exception: Plumbing, mechanical and electrical systems in buildings undergoing a partial change of occupancy shall be subject to any applicable requirements of Section 103.3 of this code.

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

This exception was added to Section 3412.2.1 for a change of occupancy as part of the VCC. It would appear the same exception should also be considered for a *partial* change of occupancy if it is allowed for a *complete* change of occupancy.

Although one may suggest a *partial* change of occupancy is still a change of occupancy and therefore, is already covered by Section 3412.2.1, this proposed code change would, in that case, clarify the same exception would apply to just a *partial* change of occupancy and there would be no ambiguity as to its enforcement or interpretation. However, if it was the intent that Section 3412.2.1 also covers Section 3412.2.2, then Section 3412.2.2 should be renumbered 3412.2.1.1 – thus becoming a subsection of Section 3412.2.1. If this were renumbered, then this code change could be modified as such and the existing exception would then clearly apply to both a complete or *partial* change in occupancy.

Submittal Information

Date Submitted: August 3, 2012

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)

600 East Main Street

Suite 300

Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov

Fax Number: (804) 371-7092

Phone Numbers: (804) 371-7140 or (804) 371-7150

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity X Company

Name: James D. Lawrence

Representing: IAEC (Int'l Assoc. of Elevator Consultants)

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

Email Address: jlavtconsultants@verizon.net

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 A17.1 -2010/CSA B44-10

This is the current edition of the Elevator and Escalator Safety Code (issued December 30, 2010). During the last code change we adopted the A17.1a-2008 and A17.1b-2009 Addenda of the referenced standard A17.1-2007. Chapter 35 of IBC 2012 only referenced A17.1a-2008.

Add A18.1-2011 (Issued October 31, 2011 and effective six months later)

This is the current edition of the Safety Standard for Platform Lifts and Stairway Chairlifts

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

If nothing is done we will be going backwards one year in the ASME A17.1 code version, leaving out the most significant updates in the 2009 Addendum we are currently following. The IBC does not reference the current code (2010) that corrects the elevator rope sizes used by many MRL elevators which would require a code modification to legally install these elevators. Acceptance of the current elevator code will put an end to the rope size confusion and save building officials much time and allow current elevator standards to be followed. This will save time and money for all parties. ASME A17.1 no longer allows addenda and this code will be in effect for three years.

A118.1-2011 replaces the referenced 2008 edition. Maximum speed and travel for some models of vertical wheelchair lifts have been increased to 30 fpm and 168 inches, respectively.

Submittal Information – Copy of referenced editions sent to V. Hodge for review

Date Submitted: 2/28/2013

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150

As Submitted As Amended Disapproved Carry over Other (specify)



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Michael D Redifer

Representing: VAESA

Mailing Address: 2400 Washington Avenue 3rd flr Newport News, VA 23607

Email Address: mredifer@nngov.com

Telephone Number: 757-926-8861

Proposal Information

Code(s) and Section(s): VMC 606.1

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

Revise VMC Section 606.1 as follows:

606.1 General. Elevators, dumbwaiters and escalators shall be maintained in compliance with ASME A17.1. The most current certificate of inspection shall be on display at all times within the elevator or attached to the escalator or dumbwaiter, be available for public inspection in the office of the building operator or be posted in a publicly conspicuous location approved by the code official. A six-month periodic inspection and an annual periodic inspection and test is required of elevators and escalators. ~~A locality shall be permitted to require a six-month periodic inspection and test.~~ All periodic inspections shall be performed in accordance with Section 8.11 of ASME A17.1. The code official may also provide for such inspection by an approved agency or through agreement with other local certified elevator inspectors. An approved agency includes any individual, partnership or corporation who has met the certification requirements established by the VCS.

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

The frequency of inspections and tests recommended in the ASME A17.1 Safety Code for Elevators are the result of years of expert experience represented on the A17.1 Inspections Committee and Standards Committee. These experts have both the knowledge and experience in elevator safety to make decisions on elevator safety issues based on the science of performance and safety of the equipment. Although this may result a moderate cost impact in those localities not already implementing the six-month inspection option, the reduction of the recommended inspection frequency runs counter to our responsibility to provide for the health, safety and welfare of the citizens of the Commonwealth.

Submittal Information

As Submitted As Amended Disapproved Carry over Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Lynn Underwood

Representing: City of Norfolk

Mailing Address: 400 Granby, Norfolk, Virginia 23503

Email Address: lynn.underwood@norfolk.gov

Telephone Number: (757) 664-6511

Proposal Information Draft code change #1

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

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

Add Section 102.3.1 as follows:

2. 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.

102.3.1 Vehicle lifts as defined in the referenced standard: ALI ALCTV are not exempt and must comply with the U.S.B.C.

Submittal Information

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

A DHCD staff interpretation of this section suggests that vehicle lifts are exempt from the USBC as *manufacturing and process machines* therefore provisions in Section 3001.2 that adopt the referenced standard for vehicle lifts are not applicable.

This provision, added to Section 102.3 adds a positive statement that vehicle lifts are not considered processing machines and are therefore regulated by the USBC.

Date Submitted: January 8, 2013.

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 East Main 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

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Lynn Underwood

Representing: City of Norfolk

Mailing Address: 400 Granby, Norfolk, Virginia 23503

Email Address: lynn.underwood@norfolk.gov

Telephone Number: (757) 664-6511

Proposal Information **Draft code change #1**

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

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

Edit Section 202_as follows:

EQUIPMENT. Plumbing, heating, electrical, ventilating, air-conditioning and refrigeration equipment, elevators, dumbwaiters, escalators, vehicle lifts as defined by referenced standard ALI ALCTV and other mechanical additions or installations.

Submittal Information

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

A DHCD staff interpretation of this section suggests that vehicle lifts are exempt from the USBC as *manufacturing and process machines* therefore provisions in Section 3001.2 that adopt the referenced standard for vehicle lifts are not applicable.

This provision, added to Section 202 adds vehicle lifts to the definition of equipment therefore regulated by the USBC.

Date Submitted: January 8, 2013.

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 East Main 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

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)



Robert F. McDonnell
Governor

James S. Cheng
Secretary of
Commerce and Trade

COMMONWEALTH of VIRGINIA

William C. Shelton
Director

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

December, 21, 2012

Mr. Jeffrey White
Electrical Supervisor
City of Norfolk
400 Granby Street
Norfolk, VA 23510

Dear Mr. White:

In response to your question specific to vehicle lifts, our office has made the following determination:

The USBC definition of *equipment* is as follows, *Plumbing, heating, electrical, ventilating, air-conditioning and refrigeration equipment, elevators, dumbwaiters, escalators, and other mechanical additions or installations.*

USBC Section 102.3 Exemptions does not specifically list automotive lifts, but it does reference manufacturing and processing machines and service equipment associated with the machines connected after the last disconnect or shutoff valve, as they do not fit the definition of "equipment" in our state law.

USBC Section 101.2 reads, in part, "...Any codes and standards referenced in the IBC are also considered to be part of the incorporation by reference, except that such codes and standards are used only to the prescribed extent of each such reference". Although Chapter 30 of the International Building Code, does include the referenced standard, ALI ALCTV, Standard for Automobile Lifts-Safety requirements for Construction, Testing and Validation, they are not within the scope of the USBC and those provisions of the model code are not applicable.

It is the opinion of this office that automotive lifts do not meet the definition of *equipment*, and therefore, are not regulated by the USBC.

Partners for Better Communities



www.dhcd.virginia.gov

Page 2

We recognize that the USBC is not clear on this issue, and that there are localities that are permitting and inspecting them. Therefore, it is our intent to include this as a topic of discussion at the next DHCD Workgroup 2 meeting. That meeting is scheduled to be held on February 28, 2012. The location and time has not been determined as of this date. Also, as a point of information and if time permits, it may be brought up during the January 10 Workgroup meeting, which will be held at the Virginia Housing Center.

If you have any questions, would like to engage in further discussions on this matter, or, if you have any information pertinent to the discussion of this issue, please do not hesitate to contact me or forward any information to me.

Sincerely,

Cindy L. Davis, C.B.O., Director
State Building Codes Office

C: Emory Rodgers
Lynn Underwood, City of Norfolk
Mike Redifer, City of Newport News
Rick Fortner, VBCOA IBC Committee
Dale Powers, Virginia Elevator Safety Association

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

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): VCC Section 102.3 _____

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

Change Section 102.3 as shown below:

102.3 Exemptions. The following are exempt from this code:

(No changes to Items 1-7)

8. Automotive lifts.

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

This proposal is to clarify that automotive lifts are not building equipment and are not within the scope of the VCC. This is based on the definition of "equipment" in the law setting the scope of the USBC.

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Michael Redifer Representing: City of Newport News

Mailing Address: 2400 Washington Avenue 3rd flr Newport News, VA 23607

Email Address: mredifer@nngov.com Telephone Number: 757-926-8861

Proposal Information

Code(s) and Section(s): Virginia Construction Code Section 103.10

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

Add Item 7 to 103.10 as follows (no changes to existing text)

7. Sections C101.4, C101.5, R101.4 and R101.5 of the IECC

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

Section 101.7 deletes administrative provisions of the referenced model codes in order to reduce potential conflict with Chapter 1 of the VCC. Specific administrative and testing provisions contained within the model codes are incorporated by reference through Section 103.10. Important scoping provisions are contained within Chapter 1 of the IECC. Among them are exemptions for historic and low energy buildings. Without this proposed change, applying these exemptions is questionable and without the exemptions the VCC becomes significantly more restrictive than the model code and results in increased costs.

NOTE:

Although referencing only the section numbers of the IECC is in keeping with the structure of VCC 103.10, the following full text from IECC Sections C101.4, C101.5, R101.4 and R101.5 is provided in an effort to eliminate the need to refer to another document while considering this proposal.

C101.4 Applicability. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between the general requirement and a specific requirement, the specific requirement shall govern.

C101.4.1 Existing buildings. Except as specified in this chapter, this code shall not be used to require the removal, *alteration* or abandonment of, nor prevent the continued use and maintenance of, an existing building

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

or building system lawfully in existence at the time of adoption of this code.

C101.4.2 Historic buildings. Any building or structure that is listed in the State or National Register of Historic Places; designated as a historic property under local or state designation law or survey; certified as a contributing resource with a National Register listed or locally designated historic district; or with an opinion or certification that the property is eligible to be listed on the National or State Registers of Historic Places either individually or as a contributing building to a historic district by the State Historic Preservation Officer or Keeper of the National Register of Historic Places, are exempt from this code.

C101.4.3 Additions, alterations, renovations or repairs. Additions, alterations, renovations or repairs to an existing building, building system or portion thereof shall conform to the provisions of this code as they relate to new construction without requiring the unaltered portion(s) of the existing building or building system to comply with this code. Additions, alterations, renovations or repairs shall not create an unsafe or hazardous condition or overload existing building systems. An addition shall be deemed to comply with this code if the addition alone complies or if the existing building and addition comply with this code as a single building.

Exception: The following need not comply provided the energy use of the building is not increased:

1. Storm windows installed over existing fenestration.
2. Glass only replacements in an existing sash and frame.
3. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation.
4. Construction where the existing roof, wall or floor cavity is not exposed.
5. Reroofing for roofs where neither the sheathing nor the insulation is exposed. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
6. Replacement of existing doors that separate *conditioned space* from the exterior shall not require the installation of a vestibule or revolving door, provided, however, that an existing vestibule that separates a *conditioned space* from the exterior shall not be removed.
7. Alterations that replace less than 50 percent of the luminaires in a space, provided that such alterations do not increase the installed interior lighting power.
8. Alterations that replace only the bulb and ballast within existing luminaires in a space provided that the *alteration* does not increase the installed interior lighting power.

C101.4.4 Change in occupancy or use. Spaces undergoing a change in occupancy that would result in an increase in demand for either fossil fuel or electrical energy shall comply with this code. Where the use in a space changes from one use in Table C405.5.2 (1) or (2) to another use in Table C405.5.2 (1) or (2), the installed lighting wattage shall comply with Section C405.5.

C101.4.5 Change in space conditioning. Any nonconditioned space that is altered to become *conditioned space* shall be required to be brought into full compliance with this code.

C101.4.6 Mixed occupancy. Where a building includes both *residential* and *commercial* occupancies, each occupancy shall be separately considered and meet the applicable provisions of IECC – Commercial Provisions or IECC – Residential Provisions.

C101.5 Compliance. *Residential buildings* shall meet the provisions of IECC – Residential Provisions. *Commercial buildings* shall meet the provisions of IECC – Commercial Provisions.

C101.5.1 Compliance materials. The *code official* shall be permitted to approve specific computer software, working sheets, compliance manuals and other similar materials that meet the intent of this code.

C101.5.2 Low energy buildings. The following buildings, or portions thereof, separated from the remainder of the building by *building thermal envelope* assemblies complying with this code shall be exempt from the *building thermal envelope* provisions of this code:

1. Those with a peak design rate of energy usage less than 3.4 Btu/h-ft² (10.7 W/m²) or 1.0 watt/ft² (10.7 W/m²) of floor area for space conditioning purposes.
2. Those that do not contain *conditioned space*.

R101.4 Applicability. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between the general requirement and a specific requirement, the specific requirement shall govern.

R101.4.1 Existing buildings. Except as specified in this chapter, this code shall not be used to require the removal, *alteration* or abandonment of, nor prevent the continued use and maintenance of, an existing building or building system lawfully in existence at the time of adoption of this code.

R101.4.2 Historic buildings. Any building or structure that is listed in the State or National Register of Historic Places; designated as a historic property under local or state designation law or survey; certified as a contributing resource with a National Register listed or locally designated historic district; or with an opinion or certification that the property is eligible to be listed on the National or State Registers of Historic Places either individually or as a contributing building to a historic district by the State Historic Preservation Officer or Keeper of the National Register of Historic Places, are exempt from this code.

R101.4.3 Additions, alterations, renovations or repairs. Additions, alterations, renovations or repairs to an existing building, building system or portion thereof shall conform to the provisions of this code as they relate to new construction without requiring the unaltered portion(s) of the existing building or building system to comply with this code. Additions, alterations, renovations or repairs shall not create an unsafe or hazardous condition or overload existing building systems. An addition shall be deemed to comply with this code if the addition alone complies or if the existing building and addition comply with this code as a single building.

Exception: The following need not comply provided the energy use of the building is not increased:

1. Storm windows installed over existing fenestration.
2. Glass only replacements in an existing sash and frame.
3. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation.
4. Construction where the existing roof, wall or floor cavity is not exposed.
5. Reroofing for roofs where neither the sheathing nor the insulation is exposed. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
6. Replacement of existing doors that separate *conditioned space* from the exterior shall not require the installation of a vestibule or revolving door, provided, however, that an existing vestibule that separates a *conditioned space* from the exterior shall not be removed.
7. Alterations that replace less than 50 percent of the luminaires in a space, provided that such alterations do not increase the installed interior lighting power.
8. Alterations that replace only the bulb and ballast within existing luminaires in a space provided that the *alteration* does not increase the installed interior lighting power.

R101.4.4 Change in occupancy or use. Spaces undergoing a change in occupancy that would result in an increase in demand for either fossil fuel or electrical energy shall comply with this code.

R101.4.5 Change in space conditioning. Any nonconditioned space that is altered to become *conditioned space* shall be required to be brought into full compliance with this code.

R101.4.6 Mixed occupancy. Where a building includes both *residential* and *commercial* occupancies, each occupancy shall be separately considered and meet the applicable provisions of IECC – Commercial Provisions or IECC – Residential Provisions.

R101.5 Compliance. *Residential buildings* shall meet the provisions of IECC – Residential Provisions. *Commercial buildings* shall meet the provisions of IECC – Commercial Provisions.

R101.5.1 Compliance materials. The *code official* shall be permitted to approve specific computer software, working sheets, compliance manuals and other similar materials that meet the intent of this code.

R101.5.2 Low energy buildings. The following buildings, or portions thereof, separated from the remainder of the building by *building thermal envelope* assemblies complying with this code shall be exempt from the *building thermal envelope* provisions of this code:

1. Those with a peak design rate of energy usage less than 3.4 Btu/h-ft² (10.7 W/m²) or 1.0 watt/ft² (10.7 W/m²) of floor area for space conditioning purposes.
2. Those that do not contain *conditioned space*.

Submittal Information

Date Submitted: November 29, 2012 (revised January 3, 2013)

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): X Individual Government Entity Company

Name: Chuck Bajnai

Representing: self _____

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

Email Address: bajnaic@chesterfield.gov

Telephone Number: 804-717-6428

Proposal Information

Code(s) and Section(s): R502.5 and R602.7.4

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

Insert the following item into the list:

108.2 Exemption from application for permitting....

1. Installation of wiring...
2. Group R-5 decks that comply with all of the following:
 - 2.1 do not exceed 256 square feet in area,
 - 2.2 are not more than 24 inches above grade,
 - 2.3 are free standing, and
 - 2.4 do not serve the exit door required by Section R311.4
 - 2.5 are not in a flood plain.
- 2.3. One story detached accessory structures...

Renumber the others accordingly.

___ As Submitted	___ As Amended	___ Disapproved	___ Carry over	___ Other (specify)
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Submittal Information

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

A similar provision was put in the 2009 IRC (and carried forward in the 2012 IRC). It was automatically deleted by the deletion of chapter 1 by the VCC.

The VBCOA – IRC committee vetted this code change and most agreed that this code change had merit, but there were not enough participants for me to feel comfortable to submit it under the auspices of the VBCOA-IRC committee, hence I am submitting it on my own behalf.

Several changes were made above and beyond the 2009 IRC:

1. format was changed to enumerate that ALL of these provisions have to apply
2. I changed the allowance up to 256 sqft to agree with the proposed change forthcoming regarding sheds and accessory structures.
3. I lowered the height down to 24” to basically say not more than 3 risers high...no guardrails or handrails would be required.
4. I added a flood plain requirement to be sure that these decks were not going to become floating platforms in case of a big flood.

This is a very good change and will make life easier for lots of folks, and many may even save a few dollars. It says that a permit is not required, but does not say that it is excluded from the requirements of the IRC – decks would still need to comply with the requirements for deck footings, joist sizes, etc.

Date Submitted: 9-18-2012



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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Mike Toalson

Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com

Telephone Number: 804-643-2797

Proposal Information

Code(s) and Section(s): R302.5.1 Opening Protection

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

See Attached: Eliminates the Requirement for doors between the garage and the residence to be equipped with a self closing device.

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

No reliable fire data exists on the number of fires that originated in the garage and passed through the door opening resulting in the fire spreading into the home. Likewise, there is no reliable data linking the spread of carbon monoxide from the garage to the residence through the door opening between the two. This is an unnecessary expense.

Submittal Information

Date Submitted: 12-28-12

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

R302.5.1 Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors ~~equipped with a self-closing device.~~

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Chuck Bajnai Representing: VBCOA IRC Committee

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

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

Proposal Information

Code(s) and Section(s): R806.1

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

Revise Section R806.1 as follows:

**SECTION R806
ROOF VENTILATION**

~~**R806.1 Ventilation required.** Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7. Required ventilation openings shall open directly to the outside air.~~

~~**Exception:** Attic ventilation shall not be required when determined not necessary by the code official due to atmospheric or climatic conditions.~~

~~**R806.2 Minimum vent area.** The minimum net free ventilating area shall be 1/150 of the area of the vented space.~~

~~**Exception:** The minimum net free ventilation area shall be 1/300 of the vented space provided one or more of the following conditions are met:~~

- ~~1. In Climate Zones 6, 7 and 8, a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.~~
- ~~2. At least 40 percent and not more than 50 percent of the required ventilating area is provided by ventilators located in the upper portion of the attic or rafter space. Upper ventilators shall be located no more than 3 feet (914 mm) below the ridge or highest point of the space, measured vertically, with the balance of the required ventilation provided by eave or cornice vents. Where the location of wall or roof framing members conflicts with the installation of upper ventilators, installation more than 3 feet (914 mm) below the ridge or highest point of the space shall be permitted.~~

~~**R806.1 Ventilation.** The requirements for vented and unvented attic space and enclosed rafter space shall be in accordance with this section.~~

~~**R806.2 Vented attics.** Vented attics shall have a minimum net free ventilation area at least 1/300 of the area of the vented space. Between half and two thirds of the provided ventilation shall be installed at the eaves. The ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section~~

R802.7. Required ventilation openings shall open directly to the outside air. R806.3 Vent and insulation clearance. Where eave or cornice vents are installed, insulation shall not block the free flow of air. A minimum of a 1-inch (25 mm) space shall be provided between the insulation and the roof sheathing and at the location of the vent.

R806.4 R806.2.1 Installation and weather protection. Ventilators shall be installed in accordance with manufacturer's installation instructions. Installation of ventilators in roof systems shall be in accordance with the requirements of Section R903. Installation of ventilators in wall systems shall be in accordance with the requirements of Section R703.1.

R806.5 R806.3 Unvented attic and unvented enclosed rafter assemblies. (no change to current text)

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

This proposal is submitted to ICC for the 2015 IRC by the Building Code Action Committee (BCAC) and moved forward for the 2012 VRC for the benefit of all users.

1. This section was rewritten to clarify vented and unvented attics. The current charging language in the first sentence of Section R806.1 says that all attics shall have cross ventilation, and yet Section R806.5 acknowledges unvented attics. The new Section R806.1 offers charging language for both conditions.
2. More importantly however, Section 806.2 now incorporates the concepts that were passed in Portland for the IBC, namely that more than half of the incoming ventilation for attics should come from low sources (eaves) and exit up high (roof vent, mechanical vents, gable end vents, etc.). A range is provided: 1/2 to 2/3 should be low at the eaves for proper chimney effect. Currently the code would allow 100% of the attic ventilation to be from ridge vents...where would the cross ventilation come from?

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



As Submitted As Amended Disapproved Carry over Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Chuck Bajnai

Representing: VBCOA IRC Committee

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

Email Address: bajnaic@chesterfield.gov

Telephone Number: 804-717-6428

Proposal Information

Code(s) and Section(s): R807 Attic Access

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

Modify Section R807 as follows:

**SECTION R807
ATTIC ACCESS**

R807.1 Attic access. Buildings with combustible ceiling or roof construction shall have an *attic* access opening to *attic* areas ~~that exceed 30 square feet (2.8 m²) and that~~ have a vertical height of 30 inches (762 mm) or greater over an area of not less than 30 square feet. The vertical height shall be measured from the top of the ceiling framing members to the underside of the roof framing members.

The rough-framed opening shall not be less than 22 inches by 30 inches (559 mm by 762 mm) and shall be located in a hallway or other readily accessible location. When located in a wall, the opening shall be a minimum of 22 inches wide by 30 inches high (559 mm wide by 762 mm high). When the access is located in a ceiling, minimum unobstructed headroom in the *attic* space shall be 30 inches (762 mm) at some point above the access measured vertically from the bottom of ceiling framing members. See Section M1305.1.3 for access requirements where mechanical *equipment* is located in *attics*.

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

This proposal is submitted to ICC for the 2015 IRC by the Building Code Action Committee (BCAC) and moved forward for the 2012 VRC for the benefit of all users.

The primary reason for this change is to clarify that the volume of space required for an attic access should be measured as the actual usable space. The clearance should be measured to collar ties, insulation curbs, or other permanent obstructions, not always to the ceiling or roof framing members. The revision of the text describing the 30 square feet is an editorial revision and is not intended to change the requirement, but make it more understandable.

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Mike Toalson

Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com

Telephone Number: 804-643-2797

Proposal Information

Code(s) and Section(s): R905.2.8.5 Drip Edge Installation

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

See Attached: Would delete the mandate that all new homes be constructed with drip edges.

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

In some cases the requirement to install drip edges conflict with other elements of the roof system, such as the fastening requirements for some gutter systems. The drip edge requirement also conflicts with some leaf protection systems. Now is not the time to be adding unnecessary new costs to new home construction.

Submittal Information

Date Submitted: 12-28-12

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

Recommended Amendment:
Modify the section as shown below:

~~**R905.2.8.5 Drip edge.** A drip edge shall be provided at eaves and gables of shingle roofs. Adjacent pieces of drip edge shall be overlapped a minimum of 2 inches (51 mm). Drip edges shall extend a minimum of 0.25 inch (6.4 mm) below the roof sheathing and extend up the roof deck a minimum of 2 inches (51 mm). Drip edges shall be mechanically fastened to the roof deck at a maximum of 12 inches (305 mm) o.c. with fasteners as specified in Section R905.2.5. Underlayment shall be installed over the drip edge along eaves and under the underlayment on gables. Unless specified differently by the shingle manufacturer, shingles are permitted to be flush with the drip edge.~~

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Mike Toalson-Randy Melvin Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com Telephone Number: 804 643 2797
randy.melvin@whihomes.com 410 365 7781

Proposal Information

Code(s) and Section(s): IRC Section Number: Table N1102.1.1 and Table N1102.1.3

Proposed Change (including all relevant section numbers, if multiple sections):
Modify the section as shown below:

**TABLE N1102.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a**

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ⁱ	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE ^c WALL R-VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13+5 ^h	8/13	19	5/13 ^f	0	5/13
4 except Marine	0.35	0.55	0.40	49	15 or 13 + 1 ^h 20 or 13+5^h	8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13+5 ^h	13/17	30 ^g	15/19	10, 2 ft	15/19
6	0.32	0.55	NR	49	20+5 or 13+10 ^h	15/20	30 ^g	15/19	10, 4 ft	15/19
7 and 8	0.32	0.55	NR	49	20+5 or 13+10 ^h	19/21	38 ^g	15/19	10, 4 ft	15/19

All Footnotes remain unchanged

**TABLE 1102.1.3
EQUIVALENT U-FACTORS^a**

Climate Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling U-Factor	Frame Wall U-Factor	Mass Wall U-Factor ^b	Floor U-Factor	Basement Wall U-Factor	Crawl Space Wall U-Factor
1	0.50	0.75	0.035	0.082	0.197	0.064	0.360	0.477
2	0.40	0.65	0.030	0.082	0.165	0.064	0.360	0.477
3	0.35	0.55	0.030	0.057	0.098	0.047	0.091 ^c	0.136
4 except Marine	0.35	0.55	0.026	0.057 0.067	0.098	0.047	0.059	0.065
5 and Marine 4	0.32	0.55	0.026	0.057	0.082	0.033	0.050	0.055
6	0.32	0.55	0.026	0.048	0.060	0.033	0.050	0.055
7 and 8	0.32	0.55	0.026	0.048	0.057	0.028	0.050	0.055

All Footnotes remain unchanged

Reason:

The prescriptive basement wall requirement increased from R-10 to R-15 in the 2012 IECC. Calculations used to justify the change were based on energy models which had less sophisticated algorithms than Energy Plus which is now the preferred modeling software of the Department of Energy. When using Energy Plus, the energy savings in a 700 square foot basement totaled \$7/yr in Chicago (Climate zone 5). The additional cost for this is conservatively estimated at \$590. This makes the simple payback in excess of 58 years. This also will create a negative cash flow for the consumer. The values being modified by this proposal are the same as what was proposed by the Department of Energy in their proposal EC13 from the last cycle. The values currently adopted were an increase from proposals not submitted by the Department of Energy.

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

This modification increases the exterior walls insulation R value approximately 15% over 2009 IECC levels for climate zone 4, while still allowing the use of well proven, fiberglass batt insulation in 2x4 wall framing cavities. Requiring R20 cavity insulation or R 13 cavity insulation + R 5 continuous insulation is problematic on a number of fronts. The potential for condensation within wall cavities of higher R-value walls is still and ongoing research initiative which needs additional understanding before making such conversions would be prudent. Converting to 2x6 exterior framing, which would allow for continued use, of well proven, fiberglass batt insulation, can pose a major time consuming and costly architectural redesign and rebidding undertaking and particularly so in homes with 36" minimum landing sizes, hall widths, stair widths bathroom size constraints established by standard 60" tubs etc. To stay with 2x4 walls by alternatively using R-5, continuous exterior insulated sheathing, can also be problematic from both an engineering and practical field application perspective as this sheathing often fails to provide adequate shear wall performance, particularly in high wind areas, and an adequate nail base, when in real world applications, where exterior fasteners do always align with and penetrate the studs. In addition, installing foam directly over structural sheathing can lead to a condition representative of the one which created a significant number of issues with barrier EIFS. Spray high density polyurethane foam insulation, which has the potential for achieving R-20 in exterior 2x4 walls is also potentially problematic in that it can potentially cause health issues as advised by the EPA as well as having other non production

friendly application limitations. Please see attached photographs depicting nail base limitation of insulated sheathing, decay created by installing insulated sheathing over structural wood panels and EPA advisory on using spray polyurethane foam. The benefits of going directly to R20 or 13+5 exterior wall insulation requirements in lieu of the state taking an intermediate step of going to R-15 or R13+1 do not offset the associated unintended consequences and risks.

Submittal Information

Date Submitted: February 18, 2013

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



<input type="checkbox"/> As Submitted	<input type="checkbox"/> As Amended	<input type="checkbox"/> Disapproved	<input type="checkbox"/> Carry over	<input type="checkbox"/> Other (specify)
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VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Stephen Turchen

Representing: Virginia Building & Code Officials Association

Mailing Address: Suite 316 / 12055 Government Center Parkway, Fairfax, VA 22035

Email Address: Stephen.turchen@Fairfaxcounty.gov

Telephone Number: 703-324-1653

Proposal Information

Code(s) and Section(s): 21012 IECC Table R402.1.1

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

In this table, in the field for *Climate Zone 4 except Marine / Wood Frame Wall R- Value*, revise to read:

~~20 or 13+5^h~~ to 18 or 15 + 3^h.

Revise Table footnote as follows:

Delete existing text of footnote "h" in its entirety. Replace with the following:

^h First value is cavity insulation, second value is continuous insulation or insulated siding. If wood framed walls are braced per requirements of the ICC International Residential Code using an intermittent bracing method, then continuous insulation need be installed only on those portions of the wall not occupied by structural sheathing.

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

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

It is unclear to VBCOA why “R20” is part of the baseline requirement for wood-frame wall insulation in Virginia (Climate Zone 4) in the 2012 IECC. It appears in several Climate Zones other than CZ4 and effectively forces the use of a 2x6 wall + some type of foam insulation, whereas 2x4 wall / R13 is typical for the 2009 requirement. An insulation manufacturer has developed a high-performance fiberglass product rated at R21 that can fit in a 5 ¼” wall cavity, but this is a “solution” more stringent than the 2012 code mandates.

Under the VBCOA proposal, if you use the first option, you simply build a 2x6 wall and install easily available R19 fiberglass batts in the cavity and you are done. Our proposal identifies R18 as the “cavity” insulation requirement in recognition of the ubiquity of R19 fiberglass insulation from several manufacturers and of the fact that the R19 batt is slightly compressed into the wall cavity and will be downgraded by R1 per existing footnote “a” of Table R402.1.1.

While 2x6 framing is becoming commonplace for wall construction in many Virginia jurisdictions, some builders will argue:

- (a) “2x6 framing cost more than 2x4 framing.” Yes it does, but not much, and part of the cost can be offset by going to 24” o.c. spacing, which is permissible for a framed wall supporting another floor and a roof or habitable attic. See 2009 IRC Table R602.3(5). That would be a typical situation for a framed wall built on the concrete foundation walls of a two-story (above grade) typical SFD.
- (b) “Jamb extenders will be hard to obtain or fabricate and add cost to the project.” The number of jamb extenders required depends obviously on the number of windows and doors in the wall, so additional cost is highly variable. As to availability, most fenestration manufacturers have prefabricated parts for these extensions.

The second option allows the builder / designer to maintain 2x4 walls, if desired, but they will have to search for the better R15 / 3.5” batt fiberglass to fill the cavity. (Again, R15 is fairly common in many jurisdictions.) To achieve the additional R3, ½” of foam sheathing could be installed on the exterior of the wall frame. Typical Dow foam insulation boards achieve R3.3 at ½”, as an example. So the foam insulation is no thicker than the plywood or OSB the builder is likely to install on the exterior for wind bracing purposes.

To make the R15 + 3 option more workable from a construction / design perspective, we propose to revise footnote “h” to Table R402.1.1. The published 2012 footnote tries (better than previous versions but still not very well, in our opinion) to clarify how exterior foam insulation integrates with the requirements under the IRC for structural sheathing for wall bracing. We propose, under our revised footnote, that if you are using any “intermittent sheathing” method for wall bracing, you can simply install the foam sheathing at those locations along the wall not occupied by any of the intermittent sheathing products. This approach permits a wall of uniform thickness over 100% of the house perimeter.

VBCOA recognizes that we may need a small campaign to educate designers and builders on integrating wall insulation with intermittent sheathing, or otherwise clarifying the integration of wall insulation requirements under IECC and wind bracing requirements under IRC, but we believe it would be worth the effort for this important objective.

VBCOA strongly believes that any final decision on residential wall insulation under the 2012 VUSBC should be made with care. This requirement will have very far-reaching consequences for Virginia homeowners, who will bear the ultimate and long-term consequences of this decision.

In an existing home, R-values can usually be increased substantially in attic and crawl space and basement areas by adding fiberglass batts or blowing in loose-fill insulation because those areas are easily accessible. Walls are not, for obvious reasons. From a practical standpoint, it is virtually impossible to convert a 2x4 wall to 2x6 construction. Demolishing the (existing 2x4) walls from the interior to install R11 / R13 / R15 and then re-drywalling the walls would be a disruptive, time-consuming, and expensive task. Blowing in loose-fill insulation through a hole drilled in the outside wall, a common retrofit technique, would not be worth the time and expense for the unverifiable improvement, in our judgment and experience.

The decision on wall insulation, at the State or national level, is the longest term of all thermal envelope elements, as it is, practically speaking, the least amenable to improvement by the homeowner after the house is built. The builder is never stuck with these consequences, as he is long gone after the house is sold. Citizens will pay the real costs (i.e., utility bills) for this decision for decades to come.

We believe that the consumer economics of this proposal argue for its adoption.

As a very simple example, take a typical non-McMansion SFD, two stories on a concrete foundation, wood framed construction, 30' x 40' perimeter footprint. REScheck (a public domain thermal envelope analysis software program from US DOE) can be used to calculate the overall UA of the exterior walls (including glazing) of this house using various wall insulation scenarios. We reasonably assumed 15% fenestration area in the exterior walls at $U = 0.35$.

- For 2x4 walls with R13, the overall UA for the two stories of exterior walls = 274.
- For 2x4 walls with R15, the overall UA = 265.
- For 2x6 walls with R18, the overall UA = 230.
- For 2x4 walls with R15 + R3 continuous exterior sheathing, the overall UA = 234.

Therefore the improvement in going to R18 vs. R15 is a 13.2% reduction in overall exterior wall heat transfer (11.7% to go to R15 + R3). Note that going to R15 from our current R13

prescriptive requirement results in a wall envelope improvement of only 3.3%.

How much is a 13.2% improvement in wall insulation worth? As a rough order estimate, we believe \$200/month is a reasonable estimate for heating and cooling costs for a representative SFD of the size in our example. The wall insulation improvement results in an approximate 12% improvement in the overall UA of the entire house, assuming R49 or equivalent in the ceiling and R19 in the floor over a crawlspace. This homeowner is saving ~\$25 / month >> ~\$300 / year >> ~\$9000 over 30 years. Of course there is a cost associated with installing the R18, but the amortized cost over 30 years is going to be much less than \$25/month. As an assumption, if the improvement costs \$3000, the amortized cost is \$12.65/month at 3% interest over 30 years. After 30 years the monthly benefit accrues 100% to the homeowner, tax-free. And this simple analysis assumes no inflation increases in fuel costs in the future, which make the savings even larger to the homeowner.

Submittal Information

Date Submitted: 2/20/13

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)
600 East Main Street
Suite 300
Richmond, VA 23219

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Mike Toalson-Randy Melvin Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com Telephone Number: 804 643 2797
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Proposal Information

Code(s) and Section(s): IRC Section Number: Table N1102.1.1 and Table N1102.1.3

Proposed Change (including all relevant section numbers, if multiple sections):
Modify the section as shown below:

**TABLE N1102.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a**

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ⁱ	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE ^c WALL R-VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13+5 ^h	8/13	19	5/13 ^f	0	5/13
4 except Marine	0.35	0.55	0.40	49 38	20 or 13+5 ^h	8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13+5 ^h	13/17	30 ^g	15/19	10, 2 ft	15/19
6	0.32	0.55	NR	49	20+5 or 13+10 ^h	15/20	30 ^g	15/19	10, 4 ft	15/19
7 and 8	0.32	0.55	NR	49	20+5 or 13+10 ^h	19/21	38 ^g	15/19	10, 4 ft	15/19

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

**TABLE N1102.1.3
EQUIVALENT U-FACTORS***

Climate Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling U-Factor	Frame Wall U-Factor	Mass Wall U-Factor ^b	Floor U-Factor	Basement Wall U-Factor	Crawl Space Wall U-Factor
1	0.50	0.75	0.035	0.082	0.197	0.064	0.360	0.477
2	0.40	0.65	0.030	0.082	0.165	0.064	0.360	0.477
3	0.35	0.55	0.030	0.057	0.098	0.047	0.091 ^c	0.136
4 except Marine	0.35	0.55	0.0260.030	0.057	0.098	0.047	0.059	0.065
5 and Marine 4	0.32	0.55	0.026	0.057	0.082	0.033	0.059	0.055
6	0.32	0.55	0.026	0.048	0.060	0.033	0.050	0.055
7 and 8	0.32	0.55	0.026	0.048	0.057	0.028	0.050	0.055

All Footnotes remain unchanged

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

Increasing ceiling R-value requirements, in the 2012 IECC, from R-38 to R-49, in climate zone 4, is not cost effective. It results in a 92 year payback period which creates a negative cash flow for the consumer. Excessive levels of attic insulation are more prone to condensation occurring within the insulation potentially resulting in moisture related damage to the home.

Climate Zone	Representative City	Change	Energy Savings	Incremental Cost	Simple Payback
4	Richmond, VA	R-38 > R-49-	\$15/yr	\$1,379	92 years

The energy modeling was done using the Energy Plus simulation engine and BEopt version 1.4, Cost figures came from ASHRAE RP-1481.

Submittal Information

Date Submitted: February 18, 2013

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Mike Toalson-Randy Melvin Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com Telephone Number: 804 643 2797
randy.melvin@whihomes.com 410 365 7781

Proposal Information

Code(s) and Section(s): IRC Section Number: N1102.4, N1102.4.1, N1102.4.1.1, N1102.4.1.2, N1102.4.1.2.1 (New) or N1102.4.1.2.2 (New), N1102.4.1.3 (New) and TABLE N1105.5.2(1)

Proposed Change (including all relevant section numbers, if multiple sections):
Modify the section as shown below:

~~N1102.4 Air leakage (Mandatory).~~ The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections N1102.4.1 through N1102.4.4

~~N1102.4.1 Building thermal envelope.~~ The *building thermal envelope* shall comply with Sections N1102.4.1.1 and N1102.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

~~N1102.4.1.1 Installation (Mandatory).~~ The components of the *building thermal envelope* as listed in Table N1102.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table N1102.4.1.1, as applicable to the method of construction. Where required by the *code official*, an *approved* third party shall inspect all components and verify compliance.

N1102.4.1.2 Testing Air Sealing Verification

Air sealing. Building envelope air tightness shall be demonstrated to comply with one of the following options given by section N1102.4.1.2.1 or N1102.4.1.2.2

~~Testing option. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Zones 1 and 2 and 3 air changes per hour in Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the building official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the building official. Testing shall be performed at any time after creations of all penetrations of the building thermal envelope~~

During testing:

~~1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;~~

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

2. ~~Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;~~
3. ~~Interior doors, if installed at the time of the test, shall be open;~~
4. ~~Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;~~
5. ~~Heating and cooling systems, if installed at the time of the test, shall be turned off; and~~
6. ~~Supply and return registers, if installed at the time of the test, shall be fully open.~~

(New) N1102.4.1.2.1 Testing option.

The building or dwelling unit shall be tested for air leakage. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the building official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the building official. Testing shall be performed at any time after creations of all penetrations of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
3. Interior doors, if installed at the time of the test, shall be open;
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
6. Supply and return registers, if installed at the time of the test, shall be fully open.

(New) N1102.4.1.2.2 Visual inspection option.

Building envelope tightness shall be considered acceptable when the items listed in Table N1102.4.1.1, applicable to the method of construction, are field verified. Where required by the code official, an approved party independent from the installer shall inspect the air barrier.

(New) N1102.4.1.3 Leakage rate (Prescriptive). The building or dwelling unit shall have an air leakage rate not exceeding 5 air changes per hour as verified in accordance with Section N1102.4.1.2

TABLE N1105.5.2(1) SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS

BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN
Air Exchange Rate	Air leakage rate of 5 air changes per hour in Zones 1 and 2 and 3 air changes per hour in zones 3 through 8 at a pressure of 0.2 inches w.g. (50 pa). The mechanical ventilation rate shall be in addition to the air leakage rate and the same as in the proposed design, but no greater than $0.01 \times \text{CFA} + 7.5 \times (\text{N}_{br} + 1)$ where: CFA= conditioned floor area N_{br} =number of bedrooms Energy recovery shall not be assumed for mechanical ventilation	For residences that are not tested, the same air leakage rate as the standard reference design. For tested residences, the measured air exchange rate ^c . The mechanical ventilation rate ^d shall be in addition to the air leakage and shall be as proposed.

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

Mandatory 3 ACH 50 Pa , in climate zone 4, even under ideal circumstances, is very difficult to achieve and even more so for more affordable smaller and slab on grade homes. A reduction from 7ACH 50 PA, allowed under the 2009 energy code, to 3 ACH 50 Pa is an excessive order of magnitude change for a single code cycle. Even the latest version of

Energy Star for homes (3.0), allows up to 5 ACH 50 PA. Changing the prescriptive requirement to 5 ACH 50 Pa provides a significant step forward in energy efficiency relative to the 2009 energy code, but without introducing excessive risk of experiencing significant unintended consequences. Overly tight houses are less forgiving and can be problematic by causing potential back drafting of appliance and adversely impacting indoor air quality, especially when added means of electro mechanical outdoor air ventilation fail. In addition, overly tight homes are subject to increased humidity levels and increase the risk of potential condensation within walls or other building components. These modifications provide designers and builders the flexibility to trade-off building tightness with other performance path measures when using the performance path by removing the mandatory maximum air tightness requirement. This proposal does not change the stringency of the performance path relative to the prescriptive path it only increases the flexibility.

In addition, this modification provides a needed choice of air sealing verification methods. In addition to a blower door testing option, an alternative air sealing inspection option, is provided for. Field verified, systematically employed air sealing has been demonstrated to provide predictable results. A blower door test cannot be assumed to be more reliable than visual inspection. It has been shown multiple third party raters can produce significantly different testing outcomes for the same dwelling, at time in part, because of errors or inconsistencies in building volume calculations. There are apt to be times, given variable market conditions and locations, where the timely availability of cost effective blower door testing services may not be available within the state.

These modifications remove the mandatory maximum air tightness requirement and provide designers and builders the flexibility to trade-off building tightness with other performance path measures when using the performance path. This will provide energy neutral trade-offs for expensive and sometimes unattainable requirements with other building improvements. This proposal does not change the stringency of the code it only increases the flexibility.

TABLE N1105.5.2(1), which is applicable to simulated performance path calculations, has been modified to be in alignment and consistent with the changes in the other related section numbers.

Submittal Information

Date Submitted: February 18, 2013

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

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

Name: Bryan Deem and Stephen Turchen Representing: VBCOA

Mailing Address: 359 Laurel Drive, Aylett, Virginia 23009

Email Address: bdeem@co.stafford.va.us Telephone Number: 540-658-4504

Proposal Information

Code(s) and Section(s): VCC, IECC R402

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

Add a new subsection to Section R402 to read as follows:

R402.2.13 Mechanical rooms. If a room contains combustion equipment, and outside air is admitted directly into the room to provide combustion air for the equipment, then the walls, doors, ceilings, and floors of that room bound unconditioned space and must be insulated as part of the *building thermal envelope*.

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

Reason:

AHJs have disagreed regarding how to apply the energy code to "mechanical rooms" with permanently installed air ducts directly connecting the room to the outdoor environment. This proposal attempts to apply the code requirements to these rooms in a feasible and enforceable manner. Note that by identifying the enclosure of the mechanical room as part of the thermal envelope, these surfaces will be sealed as well as insulated, thereby preventing unwanted and energy-consuming air intrusion into the conditioned living space adjacent to the mechanical room. This provision has been submitted to ICC for review to be incorporated into the 2015 IRC, IECC.

Cost Impact:

To the extent that mechanical rooms have previously been considered unconditioned space and were enforced as such, this clarifying proposal has no cost impact. If these rooms were previously uninsulated, there will be some costs associated with insulating the customary framed walls and ceiling of the room, as well as sealing potential avenues of air infiltration to the conditioned living space beyond.

Submittal Information

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

Date Submitted: 6/13/12

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)
600 East Main Street
Suite 300
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Email Address: taso@dhcd.virginia.gov
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VIRGINIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
DIVISION OF BUILDING AND FIRE REGULATION

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Matt Westheimer

Representing: VBCOA Energy Conservation Committee

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Email Address: mwest@williamsburgva.gov

Telephone Number: 757-220-6135

Proposal Information

Code(s) and Section(s): Table R402.4.1.1

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

Add footnote b. to the shower/tub on exterior wall

Air barriers used behind shower and tubs on exterior walls shall be of a permeable material that does not cause the entrapment of moisture in the stud cavity.

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

Putting this reference in will eliminate the use of plastic and other products that are installed behind tubs and showers on exterior walls that cause the unwanted buildup of moisture in the stud cavity.

Submittal Information

Date Submitted: 9-24-12

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)

600 East Main Street

Suite 300

Richmond, VA 23219

Email Address: taso@dhcd.virginia.gov

Fax Number: (804) 371-7092

Phone Numbers: (804) 371-7140 or (804) 371-7150

___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Mike Toalson

Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mtoalson@hbav.com

Telephone Number: 804-643-2797

Proposal Information

Code(s) and Section(s): 403.2.2 Duct Testing

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

See Attached: 1. Post Construction Test: Change total leakage from less or equal to 4 cfm per 100 square feet to 6 cfm per 100 square feet.

See Attached: 2. Rough-in Test: Change total leakage shall be less than or equal to 4 cfm per 100 square feet to 6cfm per square feet.

Supporting Statement (including intent, need, and cost impact of the proposal):
The additional limit on air leakage in Zone 4 in the current housing economy does not justify the additional expense.

Submittal Information

Date Submitted: 12-28-12

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 SBCO (State Building Codes Office)
600 East Main Street
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Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
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___ As Submitted ___ As Amended ___ Disapproved ___ Carry over ___ Other (specify)

R403.2.2 Sealing (Mandatory). Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with either the *International Mechanical Code* or *International Residential Code*, as applicable.

Exceptions:

1. Air-impermeable spray foam products shall be permitted to be applied without additional joint seals.
2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
3. Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.

Duct tightness shall be verified by either of the following:

1. **Postconstruction test:** Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
2. **Rough-in test:** Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m²) of conditioned floor area.

Exception: The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Mike Toalson-Randy Melvin Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com Telephone Number: 804 643 2797
randy.melvin@whihomes.com 410 365 7781

Proposal Information

Code(s) and Section(s): IRC Section Number: N1103.4.2 Hot water pipe insulation (Prescriptive)

Proposed Change (including all relevant section numbers, if multiple sections):
Modify the section as shown below:

N1103.4.2 Hot water pipe insulation (Prescriptive). Insulation for hot water pipe with a minimum thermal resistance (R-value) of R-3 shall be applied to the following:

1. Piping larger than 3/4 inch nominal diameter.
2. Piping serving more than one dwelling unit.
- ~~3. Piping from the water heater to kitchen outlets.~~
43. Piping located outside the conditioned space.
- ~~54. Piping from the water heater to a distribution manifold.~~
- ~~65. Piping located under a floor slab.~~
- ~~76. Buried piping.~~
- ~~87. Supply and return piping in recirculation systems other than demand recirculation systems.~~
- ~~9. Piping with run lengths greater than the maximum run lengths for the nominal pipe diameter given in Table N1103.4.2~~

~~All remaining piping shall be insulated to at least R-3 or meet the run length requirements of Table N1103.4.2~~

Delete Table N1103.4.2

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

Research has been performed by a two different sources that indicate insulating hot water piping in a residential home is not cost effective. The NAHB Research Center performed a study in 2010 (copy attached) that concluded, based on a low cost estimate that the simple payback for insulating hot water piping was in the 60 to 100 year range based on the piping material. Additionally, a 2009 study presented by the National Renewable Energy Lab at the ASME 3rd International Conference of Energy Sustainability estimated paybacks between 72 and 183 years for various insulation configurations. EPA WaterSense has also removed the requirement for insulation of indoor hot water pipes, stating in a May 8, 2009 letter to Interested Party (copy attached): "Therefore due to the limited water savings and high cost associated with pipe insulation, EPA has eliminated the criterion that all hot water pipes be insulated from the revised draft specification." Measuring maximum run lengths of various diameter pipes sizes to determine the applicability of need to add insulation is impractical and inefficient from both an implementation and enforcement standpoint. Furthermore where pipes have to run perpendicular through traditional wall framing members, the whole sizes which would be needed to allow the diameter of the pipe and surrounding R-3 pipe insulation to pass through the framing

____ As Submitted ____ As Amended ____ Disapproved ____ Carry over ____ Other (specify)

members are frequently sufficiently large enough to be prohibitive. E.G. you cannot cut a 3" diameter hole through at 3-1/2" framing member without severely compromising the integrity of the framing member. First cost, as determined in the NAHB Research Center report varied between \$500 and \$1,200. The NREL report had a slightly smaller house with an estimated installation cost of \$366.

The simulations demonstrate that the benefit of insulation is greatest when all of the hot water uses are spaced apart from 10 to 30 minutes; however, this is not typically how hot water is consumed in a home. The benefit of insulation is diminished with shorter and longer time between uses.

It was shown in the study that pipes located in colder locations such as an unconditioned crawl space, benefit more from pipe insulation than pipes located in more conditioned spaces. This is why the insulation requirement was not changed for hot water pipes outside conditioned space.

Plastic pipe was shown to have less loss than copper pipe and commensurately insulation is more beneficial on metal pipe than on plastic pipe. However, copper pipe is losing market share and currently is only being installed in 14% of new homes.

Sources:

NAHB Research Center (2010), *Domestic Hot Water System Piping Insulation: Analysis of Benefits and Cost*
Hendron, R. Burch, J. Hoeschele, M. Rainer, L. (2009), *Potential for Energy Savings Through Residential Hot Water Distribution System Improvements*, Proceedings of the 3rd International Conference on Energy Sustainability

Submittal Information

Date Submitted: February 18, 2013

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Guy Tomberlin

Representing: Fairfax County and VPMIA/VBCOA Code Committees

Mailing Address: 12055 Government Center Parkway Fairfax, Virginia 22030

Email Address: guy.tomberlin@fairfaxcounty.gov

Telephone Number: 703-324-1611

Proposal Information

Code(s) and Section(s): VECC Section 403.6

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

Add new exception. VECC Section 403.6 add new text and Exception with text as follows:

VECC - R403.6

Revise as follows:

R403.6 Equipment/appliance Sizing (Mandatory). Heating and cooling equipment and appliances shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.

Exception: Heating and cooling equipment and appliances shall not be limited to the capacities determined in accordance with Manual S where any of the following conditions apply:

- 1- The specified equipment or appliance utilizes multi-stage technology or variable refrigerant flow technology and the loads calculated in accordance with Manual J fall within the range of the manufacturer's published capacities for that equipment or appliance.
- 2- The specified equipment or appliance manufacturer's published capacities cannot satisfy both the total and sensible heat gains calculated in accordance with Manual J and the manufacturer's next larger standard size unit is specified.
- 3- The specified equipment or appliance is the lowest capacity unit available from the specified manufacturer.

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

Item 1 - Current technology is widely available that incorporates multi-stage or VRF systems for increased efficiency. Some of these appliances have such a wide span of functionality that they extend beyond the allowable requirements outlined in Manual S. However, this technology allows the appliance to operate between minimum and maximum capacities, based on loads imposed, thus eliminating the problems associated with single-stage, oversized appliances. Additionally, the appliance will operate efficiently during times where outdoor air temperatures exceed those used to calculate the loads in Manual J.

Item 2 - Often times, the appliance manufacturer's published total and sensible capacities are at odds with the requirements of Manual S. There are many cases where the total capacity of the appliance will fall within the parameters of Manual S in relation to the calculated total gain, however the sensible capacity of the appliance may fall short of the calculated sensible gain, thus unable to provide efficient sensible cooling for the space. When the

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manufacturer's next standard size larger is chosen to meet the sensible gain, the total capacity of the appliance may then exceed the requirements of Manual S. Choosing the larger appliance will enable a more efficient and effective system.

Item 3 - The current code language does not have provisions for sizing appliances for minimal dwelling unit or dwelling addition loads, other than forcing owners and contractors to change appliances to less desirable systems. For example; a 2 story townhouse, in climate zone 4, with 600 square feet per floor wants to utilize a two-zone system, or a separate heat pump system for each floor. A 1.5 ton unit per floor would exceed the requirements of Manual S, however a 1.5 ton unit is the smallest available appliance by the desired manufacturer. Current language would require a complete design change, such as utilizing a single appliance to serve the entire dwelling rather than the more desirable two-zone system, or requiring a system that utilizes electric baseboard heating and window-mounted air conditioning units. This is absurd, and an injustice to an owner that desires to reduce energy costs.

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Guy Tomberlin

Representing: Fairfax County and VPMIA/VBCOA Code Committees

Mailing Address: 12055 Government Center Parkway Fairfax, Virginia 22030

Email Address: guy.tomberlin@fairfaxcounty.gov

Telephone Number: 703-324-1611

Proposal Information

Code(s) and Section(s): VRC Section M1401.3

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

Add new exception. VIRC Section M1401.3 add new text and Exception with text as follows:

VRC M1401.3

Revise as follows:

M1401.3 Equipment/appliance Sizing. Heating and cooling equipment and appliances shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.

Exception: Heating and cooling equipment and appliances shall not be limited to the capacities determined in accordance with Manual S where any of the following conditions apply:

- 1- The specified equipment or appliance utilizes multi-stage technology or variable refrigerant flow technology and the loads calculated in accordance with Manual J fall within the range of the manufacturer's published capacities for that equipment or appliance.
- 2- The specified equipment or appliance manufacturer's published capacities cannot satisfy both the total and sensible heat gains calculated in accordance with Manual J and the manufacturer's next larger standard size unit is specified.
- 3- The specified equipment or appliance is the lowest capacity unit available from the specified manufacturer.

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

Item 1 - Current technology is widely available that incorporates multi-stage or VRF systems for increased efficiency. Some of these appliances have such a wide span of functionality that they extend beyond the allowable requirements outlined in Manual S. However, this technology allows the appliance to operate between minimum and maximum capacities, based on loads imposed, thus eliminating the problems associated with single-stage, oversized appliances. Additionally, the appliance will operate efficiently during times where outdoor air temperatures exceed those used to calculate the loads in Manual J.

Item 2 - Often times, the appliance manufacturer's published total and sensible capacities are at odds with the requirements of Manual S. There are many cases where the total capacity of the appliance will fall within the parameters of Manual S in relation to the calculated total gain, however the sensible capacity of the appliance may fall short of the calculated sensible gain, thus unable to provide efficient sensible cooling for the space. When the manufacturer's next standard size larger is chosen to meet the sensible gain, the total capacity of the appliance may

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then exceed the requirements of Manual S. Choosing the larger appliance will enable a more efficient and effective system.

Item 3 - The current code language does not have provisions for sizing appliances for minimal dwelling unit or dwelling addition loads, other than forcing owners and contractors to change appliances to less desirable systems. For example; a 2 story townhouse, in climate zone 4, with 600 square feet per floor wants to utilize a two-zone system, or a separate heat pump system for each floor. A 1.5 ton unit per floor would exceed the requirements of Manual S, however a 1.5 ton unit is the smallest available appliance by the desired manufacturer. Current language would require a complete design change, such as utilizing a single appliance to serve the entire dwelling rather than the more desirable two-zone system, or requiring a system that utilizes electric baseboard heating and window-mounted air conditioning units. This is absurd, and an injustice to an owner that desires to reduce energy costs.

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 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Mike Toalson

Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com

Telephone Number: 804-643-2797

Proposal Information

Code(s) and Section(s): Table 405.5.2(1) Window Glazing

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

See Attached

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

Windows have been artificially constrained by the 2012 IECC to not allow an energy neutral Tradeoff for new homes with with reduced window area. This proposed change merely returns the ability to the home designer to receive credit for improved energy efficiency associated with reduced window area ad gives the home owner an equally efficient home.

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Mike Toalson-Randy Melvin Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com Telephone Number: 804 643 2797
randy.melvin@whihomes.com 410 365 7781

Proposal Information

Code(s) and Section(s): IRC Section Number: M1501.2 Transfer Air (new)

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

Modify the section as shown below:

M1501.2 Transfer air (new). Air transferred from occupiable spaces other than kitchens, baths and toilet rooms shall not be prohibited from serving as makeup air for exhaust systems. Transfer openings between spaces shall be of the same cross-sectional area as the free area of the makeup air openings. Where louvers and grilles are installed, the required size of openings shall be based on the net free area of each opening. Where the design and free area of louvers and grilles are not known, it shall be assumed that wood louvers will have 25-percent free area and metal louvers and grilles will have 75-percent free area.

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

The IMC contains language allowing makeup air to be provided from areas other than the room where the exhaust system is located (transfer air). It is just as important to clarify the allowable use of transfer air for exhaust systems in the IRC as it is in the IMC. Without this provision, Section M1503.4 can be interpreted that the total amount of makeup air is required to be introduced in the direct vicinity of the exhaust. This is not required in commercial construction, and so the IRC should be brought into alignment with the IMC in this area.

Most of the language is taken from existing sections of the code. They include: Transfer air: IMC Section 403; Transfer openings: Section M1602 Item 6; and Louvers and grilles: Section G2407.10.

Submittal Information

Date Submitted: February 18, 2013

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150

As Submitted As Amended Disapproved Carry over Other (specify)

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information (Check one): Individual Government Entity Company

Name: Mike Toalson-Randy Melvin Representing: HBA of Virginia

Mailing Address: 707 East Franklin Street, Richmond, VA 23219

Email Address: mltoalson@hbav.com Telephone Number: 804 643 2797
randy.melvin@whihomes.com 410 365 7781

Proposal Information

Code(s) and Section(s): IRC Section Number: M1503.4 Makeup Air Required

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

Modify the section as shown below:

M1503.4 Makeup air required. Exhaust hood systems capable of exhausting in excess of 400 cubic feet per minute (0.19 m³/s) shall be mechanically or naturally provided with makeup air at a rate approximately equal to the difference between the exhaust air rate and 400 cubic feet per minute. Such makeup air systems shall be equipped with a not less than one damper. Each damper shall be a gravity damper or electrically operated damper that automatically opens when the exhaust system operates ~~means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system.~~

Exception: Where all appliances in the house are of sealed combustion, power-vent, unvented, or electric, the exhaust hood system shall be permitted to exhaust up to 600 cubic feet per minute (0.28 m³/s) without providing makeup air. Exhaust hood systems capable of exhausting in excess of 600 cubic feet per minute (0.28 m³/s) shall be provided with a makeup air at a rate approximately equal to the difference between the exhaust air rate and 600 cubic feet per minute.

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

As originally written in the 2012 IRC, this section allows range hoods up to 400 cfm to be installed without makeup air. It would be consistent to require makeup air equaling the amount above and beyond 400 cfm for larger fans. Essentially, there would be no difference between the effect a 400 cfm fan has on a house and a 600 cfm fan with 200 cfm of makeup air. This would also improve the feasibility and acceptance of this code section as well as cut down on the amount of wasted energy and potential occupant discomfort caused by needlessly introducing excessive amounts of unconditioned air.

Currently this section of the code does not take into effect the difference between homes where all appliances in the home are of sealed combustion, power-vent, unvented or electric, power and those which contain one or more naturally vented appliances. Because the potential for appliance back drafting is greatly reduced where naturally vented appliances are not present, the 400 cfm threshold can be raised to 600 cfm where only sealed combustion, power-vent, unvented, or electric, power appliances are used in the dwelling. This would allow for the use of more effective, common residential, 500 to 600 cfm cooktop down-draft exhaust fans without the need to unnecessarily add makeup air.

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Adding the words, “mechanically or naturally” clarify either means of providing the required quantity of make-up air, including transfer air, and the added words “electrical or gravity” clarify either type of damper is allowed. A gravity damper has the added benefit of equalizing depressurization in the house for any other reason such as the use of bath fans and clothes dryers.

Submittal Information

Date Submitted: February 18, 2013

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 SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Kenneth R. Martin

Proposal Information

Code(s) and Section(s): VCC

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

Change VCC Section 102.3 as shown:

102.3 Exemptions. The following are exempt from this code:

(no change to Items 1-6)

7. Generators used with amusement devices, carnivals or fairs.

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

This proposal is to recognize that generators used for amusement devices and at carnivals and fairs are regulated by the VADR, not the USBC.

Date Submitted: February 15, 2013

Please submit the proposal to:

DHCD DBFR SBCO (State Building Codes Office)
600 East Main Street
Suite 300
Richmond, VA 23219

Email Address: Vernon.hodge@dhcd.virginia.gov
Fax Number: (804) 371-7092
Phone Numbers: (804) 371-7150



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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Robby Dawson

Representing: Fire Services Board Code Committee

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov

Telephone Number: 804-748-1426

Proposal Information

Code(s) and Section(s): SFPC Section 107.11

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

~~107.11 Revocation of permit. The fire official may revoke a permit or approval issued under the SFPC if conditions of the permit have been violated, or if the approved application, data or plans contain misrepresentation as to material fact.~~

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

This section is effectively redundant to SFPC Section 108.4 which is the more comprehensive section.

108.4 replicated here for reference:

108.4 Revocation. The fire official is authorized to revoke an operational permit issued under the provisions of this code when it is found by inspection or otherwise that the has been a false statement or misrepresentation as to the material facts in the application or document on which the permit or approval was based including but not limited to, any of the following:

1. The permit is sued for a location or establishment other than that for which it was issued.
2. The permit is sued for a condition or activity other than that listed on the permit.
3. Conditions and limitations set forth in the permit have been violated.
4. Inclusion of any false statement or misrepresentation as to the material fact in the application for permit or plans submitted or a condition of the permit.
5. The permit is used by a different person or firm than the person or firm for which it was issued.
6. The permittee failed, refused or neglected to comply with orders or notices duly served in accordance with the provisions of this code within the time provided therein.
7. The permit was issued in error or in violation of an ordinance, regulation or this code.

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual 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: 804-371-0220

Proposal Information

Code(s) and Section(s): SFPC Sections 107.6, 107.13 and 107.14

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

107.13. State explosives, blasting agents, theatrical flame effects and firework permit fees: Except as modified herein. 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. \$125 per year per magazine to store explosives and blasting agents.
2. \$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. \$350 the first day of fireworks, pyrotechnics or proximate audience displays conducted in any state-owned building and \$150 per day for each 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\$550 the first 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\$650 the first day and \$150 per day for each consecutive day for identical multi-day events.
6. \$250 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 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\$550 the first 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\$650 the first day and \$150 per day for each consecutive day for identical multi-day events.
7. \$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\$550 the first day and \$150 per day for each consecutive day for identical multi-day events or, if conducted as part of a firework (pyrotechnic) display, \$200 the

2012 SFPC change to Section 107 13 and 170 14 for CURRENT SFMO permit fees.doc

first day and \$100 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 650 the first day and \$150 per day for each consecutive day for identical multi-day events or, if conducted as part of a firework (pyrotechnic) display, \$300 the first day and \$125 per day for each consecutive day for identical multi-day events..

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

The increases for Section 107.13, Items 5, 6 and 8 are to strengthen the incentive for submitting applications at least 15 days prior to planned events.

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 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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Robby Dawson

Representing: Fire Services Board Code Committee

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov

Telephone Number: 804-748-1426

Proposal Information

Code(s) and Section(s): Statewide Fire Prevention Code Section 108.1.2

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

108.1.2 Types of permits. There shall be two types of permits as follows:

1. Operational permit. An operational permit allows the applicant to conduct an operation or a business for which a permit is required by Section 108.1.1 for either:

- 1.1. A prescribed period.
- 1.2. Until renewed, suspended, or revoked.

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

The ability to suspend a permit currently exists in 107.10. This change is in coordination with Section 107.10.

Submittal Information

Date Submitted: 12/7/12

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

Code Change Form for the 2012 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: Robby Dawson

Representing: Fire Services Board Code Committee

Mailing Address: 1005 Technology Park Drive, Glen Allen, VA 23059

Email Address: dawsonj@chesterfield.gov

Telephone Number: 804-748-1426

Proposal Information

Code(s) and Section(s): SFPC Section 108.3.7

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

108.3.7 Information on the permit. The *fire official* shall issue all operational permits required by this code on an *approved* form furnished for that purpose. The operational permit shall contain a general description of the operation or occupancy and its location and any other information required by the *fire official*. Issued permits shall bear the original or electronic signature of the fire official or other designee approved by the fire official.

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

This change provides the means by which a fire official may approve permits using electronic signatures or other technologies for conveying approval. This also allows those technical assistants under the direction of a fire official to issue permits if designated by the fire official.

Submittal Information

Date Submitted: 12/7/12

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

Code Change Form for the 2009 Code Change Cycle

Code Change Number: _____

Proponent Information

(Check one): Individual Government Entity Company

Name: James Dawson

Representing: Virginia Fire Services Board Code Committee

Mailing Address: PO Box 40, Chesterfield, VA 23832

Email Address: dawsonj@chesterfield.gov

Telephone Number: 804-717-6838

Proposal Information

Code(s) and Section(s): SFPC New 111.1.1

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

Add new section 111.1.1

111.1.1 Right of Appeal. Notices of Violation issued under 111.1 shall indicate the right of appeal by referencing the appeals section of this code.

Exceptions:

1. Summons issued in lieu of a notice of violation in accordance with 111.5 of this code.
2. Documents reflecting un-corrected violations in subsequent inspections to verify compliance.

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

There has been much debate over the inclusion of such language on notices of violation issued by fire officials. Presently, a number of local fire officials and the State Fire Marshals' notices include language meeting this requirement, and this is consistent with the USBC language for notices of violation.

When fire code violations are of such a risk, or violations have gone uncorrected and the fire official issues a summons to the property owner or responsible party, the immediate course of appeal is with the general district court in the jurisdiction served at the time of adjudication of the charge. Additional appeals within the scope of the courts is also available, but outside the scope of the SFPC and are subsequent to the findings of the initial hearing of the summons.

Re-inspection documents that reflect the original and on-going violation where the right of appeal has been provided does not require the explicit documentation of the appeals process as noted in the original notice of violation.

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: James Dawson

Representing: Virginia Fire Services Board Code Committee

Mailing Address: PO Box 40, Chesterfield, VA 23832

Email Address: dawsonj@chesterfield.gov

Telephone Number: 804-717-6838

Proposal Information

Code(s) and Section(s): SFPC 311.5.6 (New)

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

Add the following

311.5.6 Removal. Removal of placards posted in accordance with this section without the approval of the fire official shall be a violation of this code.

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

Section 311.5 allows the placarding of unsafe structures, however there are not provisions that prohibit the removal of these placards.

Without this provision, the removal of the placards can be done without violation of the fire prevention code.

This new provision prohibits the removal of properly applied placards and will improve the ability of the fire code official to properly communicate the hazardous nature of the property to responders.

Submittal Information

Date Submitted: 10/20/12

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)

Workgroups 2 and 4 Agenda

Meeting Date and Time: February 28, 2013 9:30 a.m. to 3:30 p.m.

Location: Virginia Housing Center, 4224 Cox Road, Glen Allen, Virginia 23060

Lunch provided by reservation only. Please email Monica Cousins (Monica.Cousins@dhcd.virginia.gov) by February 22, 2013 if you would like to have a lunch ordered for you.

AGENDA

1. VCC 408.9 Windowless buildings (Handout p. 1)
2. VCC 427 I-3 Lockup areas (Handout p. 3)
3. VCC 508.2.3 Allowable building area and height (Handout p. 6)
4. VCC 509 Incidental uses (Handout p. 7)
5. VCC 703.7 Marking of fire-rated assemblies (Handout p. 8)
6. VCC 806.1.2 Combustible decorative materials (Handout p. 9)
7. VCC 903.2.7 M occupancy sprinklers (Handout p. 11)
8. VCC 908.7 E occupancies carbon monoxide detectors (Handout p. 12)
9. VCC 1009.1 Stairways (Handout p. 14)
10. VCC 1022.5 Penetrations (Handout p. 15)
11. VCC 1106.1 Accessible parking table (Handout p. 16)
12. VCC 1106.3 Outpatient clinics accessible parking (Handout p. 17)
13. VCC 1403.5 Exterior wall flame test (two proposals) (Handout p. 18)
14. VCC 2308.3.2.2 Light-frame construction (Handout p. 21)
15. VCC 2603.5.5 Exterior wall assembly fire test (Handout p. 22)
16. VCC 2701.1.3 Generators in assisted living facilities (Handout p. 24)
17. VCC 3006.4 Elevator control room ratings (Handout p. 27)
18. VCC 3006.7 Machine-room-less elevator work platform (Handout p. 28)
19. VCC IPC 405.3.2 Lavatory location in schools (Handout p. 29)
20. VCC IECC C402.1.1 Vertical fenestration (Handout p. 30)
21. VCC IECC C402.4.8 Recessed lighting (Handout p. 31)
22. VRC 912.4.1 Stairways (Handout p. 32)
23. VMC 606.1 Semi-annual elevator inspections (Handout p. 33)
24. SFPC 308.1 Use of open flames for cooking (Handout p. 34)
25. SFPC 308.1.4 Grills on decks (Handout p. 36)
26. SFPC 404.3.2 Fire safety plan (Handout p. 41)
27. SFPC 506.1 Fire service keys (includes VCC 3003.3) (Handout p. 42)
28. SFPC 607.1 References to existing buildings (Handout p. 44)
29. SFPC 703.1 Owner inspection of fire-rated elements (Handout p. 46)
30. SFPC 5601.2.4.1 Blasting and fireworks insurance (Handout p. 47)
31. SFPC 5607.16 Blast records (Handout p. 49)
32. SFPC 5608.4.1 Comets and mines (Handout p. 54)

(continued next page)

Sub-workgroup proposals

- Tanker truck parking (**Handout p. 56**)
- Assisted living facilities (**Handout p. 59**)
- Exhaust hoods for domestic appliances in commercial buildings (**Handout p. 65**)

New Business

Adjournment

State Building Code & Fire Regulations
Codes and Standards Committee
Workgroups 2 & 4 Meeting Notes

Meeting held: Thursday, February 28, 2013
Location: Virginia Housing Center
Time: 9:30am

1. VCC 408.9 Windowless Buildings

Proposed by: Kenney Payne

Comments/Concerns

- One of the intents for this proposed change is to better clarify how this section should be interpreted; currently, there are various interpretations of this section
- Working with Department of Corrections on this code change
- "Tenable environment" is not defined in current code; need to look at NFPA 130 and its use of the term 'tenable'
- Brooks Ballard gave an overview of her reasons for support for the proposed changes; she will make discussed changes and send to Emory to be included along with summary hand-outs

Action: Move forward to BHCD's CSC 03/25/13 meeting with consensus to approve as amended in the substitute proposal.

2. VCC 427 I-3 Lock-up Areas

Proposed by: Kenney Payne

Comments/Concerns

- Creates new definition in 202 and a new section 427 called "Lockup areas".
- Proposal language changes "Lockup areas" to "Temporary Holding Areas" (temporary - not intended for overnight accommodations)
- Suggestion to eliminate "temporary" and replace with "short-term", due to other BOC standards that must be adhered to

Action: Move forward to BHCD's CSC 03/25/13 meeting with consensus to approve as amended in the substitute proposal.

3. VCC 508.2.3 Allowable Building Area and Height

Proposed by: Kenney Payne

Comments/Concerns

- Clarifies how to treat accessory occupancies as approved for the 2015 IBC
- The term 'storage' was taken out because it would pose difficulties at B level use

Action: Move forward to BHCD's CSC 03/25/13 meeting with consensus as submitted

4. VCC 509 Incidental Uses

Proposed by: Kenney Payne

Comments/Concerns

- This proposal is not the vehicle for doing what the bill intends
- Language appears to be broken, cannot put 2006 language into 2012 amendment

Action: Withdrawal by proponent

5. VCC 703.7 Marking of Fire-Rated Assemblies

Proposed by: Kenney Payne

Comments/Concerns

- This was approved in Portland for the 2015 cycle

Action: Move forward to BHCD's CSC 03/25/13 meeting with consensus to approve, with amendment to remove the word "accessible"

6. VCC 806.1.2 Combustible Decorative Materials

Proposed by: Kenney Payne

Comments/Concerns

- Scope needs to be re-defined by some other mechanism, to clearly show the purpose/intent of this proposal.
- Remove the term "partition"
- Proponent will amend per comments from attendees to include in new exception 2, to put a distance such as 12 inches and not use the term "partition."

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve with amendments

7. VCC 903.2.7 M Occupancy Sprinklers

Proposed by: Frank Castelvechi

Comments/Concerns

- This proposal eliminates the Virginia amendment leaving 12,000 sq. ft. threshold for upholstered furniture, in order to correlate with the language in the 2012 IFC for upholstered furniture and mattresses in retail settings
- Amend supporting statement to say requirements only applicable when the upholstery furniture or mattresses actually covers the entire 5,000 s. f.
- Emory suggests those who would be impacted by this change to take a close look at language, as they will be directly affected. There are enforcement issues and Virginia fire data is extremely good

Action: Move forward to BHCD's CSC 03/25/13 meeting with consensus to approve, with staff comments

8. VCC 908.7 E Occupancies Carbon Monoxide Detectors

Proposed by: Workgroups 2 & 4 meeting attendees

Comments/Concerns

- Proposal is on behalf of a delegate who wants to require CO detectors in K-12 public schools
- HB 2201 was tabled to allow the USBC regulatory process to review mandating CO alarms in K-12 public schools only.
- Per Emory, if someone wants to put in a change to require CO detectors for all E groups, it would be considered in a separate bill
- Much back and forth discussion on details
 - 2015 IBC has code change that outlines the technical provisions for CO alarms in all E occupancies, which includes public and private schools, E occupancies on college campuses
 - CO alarms should be tied into a notification system
 - Summary will have the 2015 E CO code change
 - Staff will amend draft code change to provide technical provisions and be the vehicle to move forward
 - Most of the discussion wasn't in opposition, but the need to provide adequate technical requirements for approval

Action: Based on legislation and no proposal submitted at this time, deferring to next workgroup meeting this summer to refine a code change.

9. VCC 1009.1 Stairways

Proposed by: Kenney Payne

Comments/Concerns

- Adds an exception for stairways that do not serve as an exit or provide access

Action: Withdrawal by proponent

10. VCC 1022.5 Penetrations

Proposed by: Kenney Payne

Comments/Concerns

- Attendees oppose new exception 2; egress interior stairs have to be protected thus should not allow through-penetrations
- See no problems for designer to comply with current IBC

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

11. VCC 1106.1 Accessible Parking Table

Proposed by: Ken Fredgren

Back-up proposed by: John Catlett

Comments/Concerns

- Discussions on differences between change and alternate proposed change
 - 1st Proposed Change reduces the increased accessible parking spaces
 - Change accessible parking from 3 to 2.5% for parking lots over 500
 - Change 30 to 25 at the 1001 threshold shown on the table
 - Proponents provided demographic statistics on the aging and increases in issuance of accessible parking stickers
 - 2nd Proposed Change further reduces the increased accessible parking spaces
 - Change accessible parking from 3 to 2.33% for parking lots over 500
 - Change 30 to 23 at the 1001 threshold shown on the table
 - Would better enforcement make increases unnecessary
 - Proponent will remove footnote to decrease accessible parking spaces for S, F, H and U

Action: Move forward to BHCD's CSC 03/25/13 as consensus to approve with amendments; back-up amendment also consensus to approve and move forward

12. VCC 1106.3 Outpatient Clinics Accessible Parking

Proposed by: 2011HJR 648 Workgroup

Comments/Concerns

- IBC's Outpatient clinics definition currently includes doctors' and dentists' offices
- This proposal adds outpatient clinics to the 10% category
- With the increases proposed and if approved for T1106.2, why wouldn't these additional accessible parking spaces be ok for doctors and dentists offices? Should IBC definition be changed to not include doctors and dentists offices?
- It would take code changes to move any of the questions posed into the 2012 regulatory process

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve, with comments

13. VCC 1403.5 Exterior Wall Flame Test

Proposed by: Kenney Payne
2nd Proposal by: Keith Nelson

Comments/Concerns

- Proposed to delete section in its entirety, so that it can comply with the IECC requirement for water-resistive barriers
- Currently no data to suggest that this is a problem
- Change at national level was based on test data of a large wall that already had a large fuel load and then added the barrier
- Discussion that engineering judgment would be problematic
- Exceptions will cause even more confusion
- Proposal by Keith Nelson was withdrawn in support of proposal by Kenney Payne

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve

14. VCC 2308.3.2.2 Light-frame Construction

Proposed by: Chris Snidow

Comments/Concerns

- Submitted to correlate with the IRC
- American Wood Council and building officials did not agree with the proposal.

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to deny

15. VCC 2603.5.5 Exterior Wall Assembly Fire Test

Proposed by: Kenney Payne

Comments/Concerns

- Exterior wall assembly adds new exception where sprinkled can be substituted for use of materials complying with UL285 for vertical and lateral propagation
- New NFPA 285 includes a diagram that would incorporate a typical brick constructed wall, which would require all walls to be tested and would be very costly
- This proposal allows a sprinkler system to be used as an exception to requiring the test

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve

16. VCC 2701.1.3 Generators in Assisted Living Facilities

Proposed by:

Comments/Concerns

- This is no code change, but the subject was brought forth at the 2013 General Assembly
- ALF need to work with DSS to see if code change to 2701.1.3 is necessary including what is to be on emergency power for these R and I-1 occupancies.
- USBC requires generators and allows them to be optional standby systems that can be brought on site by a vendor.
- Currently ALFs have to have an installed connection
- Item to be discussed at DHCD workgroup meeting August and/or October 2013.
- The VDH study group is required to have a report to the General Assembly by October 2013
- HB1511 was tabled to allow for the 2012 USBC regulatory process to review this matter

Action: VDH will chair a study group to include the VBCOA, VIAEI and DHCD

17. VCC 3006.4 Elevator Control Room Ratings

Proposed by: Michael Redifer

Comments/Concerns

- Proposal aligns USBC with the ASME A17.1 standard terminology and making the 2009 USBC technical amendments no longer necessary
- Staff comment: This change will now require a fire-resistance rating that previously was not required in buildings four stories or less
- Building official agree with proposal
- Emory did question why we are deleting exception 2 that allows no rating under 4 stories?

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve with possible opposing comments forth coming from building owners

18. VCC 3006.7 Machine-room-less Elevator Work

Proposed by: Michael Redifer

Comments/Concerns

- Proposal eliminates the use of collapsible guard rails
 - Elevator inspectors feel the collapsible designs are unsafe for mechanics and inspectors
 - Some manufacturers have collapsible designs that they ask building officials to approve
- Proposal disallows use of folding work platforms
- Permanent platforms in new buildings can account for the clearances, but in existing buildings installations this could be a problem; building official would have to grant modifications
- VMFA has developed a removal platform to use in place of collapsible guard rail
- In the 2009 USBC the current text on guard rails complies with the IBC guard rail requirement
- The ASME A17.1 contains more flexible guard rail requirements
- Staff comment: This proposal may need further review for the 2nd half of the 2012 USBC regulatory cycle

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus, with comments

19. VCC IPC 405.3.2 Lavatory Location in Schools

Proposed by: Kenney Payne

Comments/Concerns

- Proposal adds an exception that is needed but wasn't successful at the national level

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve

20. VCC IECC C402.1.1 Vertical Fenestration

Proposed by: Stephen Turchen

Comments/Concerns

- Proposal eliminates reference to ASHRAE 90.1 and requires the compliance path to be in conformance with the IECC
- Proponent believes there are conflicts and would direct designers and builders to the IECC 407 total building performance.
- Designers and building officials not supportive of the change as proposed.
- Instead of the fear of mixing-matching for the less stringent provisions, there may be a clearer way than deleting the A90.1 reference
- No representative from Energy Committee was present to expound on the subject-matter

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

21. VCC IECC C402.4.8 Recessed Lighting

Proposed by: Matt Westheimer

Comments/Concerns

- Some discussion on proposal being redundant, but not necessarily wrong
- Clarification only on when a thermal envelope is required for recessed luminaries

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve

22. VCC 912.4.1 Stairways

Proposed by: Kenney Payne

Comments/Concerns

- Proposal adds language to the existing exception for stairways not otherwise address in §912.7.2

Action: Withdrawal by proponent

23. VCC 606.1 Semi-Annual Elevator Inspections

Proposed by: Michael Redifer

Comments/Concerns

- Proposal would mandate 2 annual inspections
- Standard recommends 2, some localities require 2 while others don't
- State law requires an annual inspection
- Elevator inspectors and building officials concerned over the need and cost associated with making this a statewide mandate

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

24. SFPC 308.1 Use of Open flames for Cooking

Proposed by: Workgroups 1 & 3 meeting attendees

Comments/Concerns

- No code change has been officially submitted, topic for discussion only based on DHCD draft
- Immediate issue resolved over fees charged in Alexandria
- One fire official issues no permits but performs inspections of the canisters during restaurant inspections
- One attendee suggested amendment be considered to state the size of the canister and delete the use of Sterno, as it is a trade name

Action: Building owners, Bed & Breakfasts, Churches, along with groups such as VHTA, C&C, VRMA and NFIB can review; they have until 07/01/13 to submit an official code change

25. SFPC 308.1.4 Grills on Decks

Proposed by: Andrea Pitts

Comments/Concerns

- Proposal would prohibit use of open flames for grilling within 10 feet of a combustible building for one and two family dwellings
- Fire Officials generally support this proposal. Most of the attendees opposed and supported leaving the exception as is
- Much discussion and numerous concerns over enforcement issues
 - Proposal has merit and would create a law that enables the fire service to issue summons and/or determine liability
 - Where is the fire data to support this as a statewide mandate? It is usually discarded ashes that start exterior fires.
 - A home can be 5 feet from the property line so why 10 feet
 - Concern that people would be in violation of a law that they have no idea about
 - Can be done now by local ordinances

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

26. SFPC 404.3.2 Fire Safety Plan

Proposed by: Zack Adams

Comments/Concerns

- Proposal deletes fire extinguisher from Fire Safety Plan

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to deny

27. SFPC 506.1 Fire Service Keys

Proposed by: Michael Redifer

Comments/Concerns

- Proposal coordinates IBC and IFC
- Current code requires that key be different for each district/locality; need change in language to allow for using standardized key
- Enables lock boxes to be used for non-standardized keys

Action: Move forward to BHCD's CSC and the BHCD/FSB meeting 03/25/13 as consensus to approve

28. SFPC 607.1 References to Existing Buildings

Proposed by: Robby Dawson

Comments/Concerns by staff

- §607.1
 - this would be a retro-fit provision for elevators standardized keys and conflict with previously approve code change in #27
 - does not need to reference Virginia Maintenance Code as it is stand-alone locally adopted regulation
- §704.1
 - If 1st sentence is struck, the 2nd one needs to be struck as well
 - Change "shall comply" to "shall be subject to"
- §907.1
 - Strike in its entirety
- §1029.4
 - Strike in its entirety

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus, to approve with staff comments for further amendments

29. SFPC 703.1 Owner Inspection of Fire-resistance components

Proposed by: Workgroups 2 & 4 meeting attendees

Comments/Concerns

- No code change has been officially submitted, topic for discussion only by draft DHCD code change
- STRB has a pending decision that say the provision isn't enforceable upholding a decision by the fire official in Alexandria. Deleting the requirement in the IFC would then allow enforcement only by local fire prevention ordinances. Otherwise, if it remains would mandate enforcement statewide. In Workgroup 1&3 meeting, there is a code change that impacts this section
- Building owners will review for impact, cost and enforcement issues as it cover all existing buildings with any type of fire-resistance rating

Action: Will have discussion at Workgroups 1 & 3 meeting. Staff will carry-over for summer workgroup meeting.

30. SFPC 5601.2.4.1 Blasting and Fireworks Insurance

Proposed by: Robby Dawson

Comments/Concerns by staff

- Proponent may want to indicate who was contacted for the supporting statement to document support by the industry and others who do blasting or firework displays

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve with staff comments

31. SFPC 5607.16 Blast Records

Proposed by: Robby Dawson

Comments/Concerns by staff

- Proponent needs to make a clear distinction between using a table or prescribing a form
 - Make it a form and enforce its use
 - Or further enumerate requirements shown on the existing table
 - Generally, the Codes Commission wouldn't allow us to publish forms in regulations
 - Should have in supporting statement who in industry contacted

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve with staff comments

32. SFPC 5608.4.1 Comets and Mines

Proposed by: Robby Dawson

Comments/Concerns

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve

SUB-WORKGROUP PROPOSALS

Tanker Truck Parking in residential areas

- Discussion on possible code changes forth coming based on TRB decision
- Meeting scheduled for April 10th.
- Staff will carry-over to summer workgroup meeting
- Propane vehicles already have different standard in the SFPC

Assisted Living Facilities

- Language already been approved at national level. Draft code changes revised to fit into the USBC regulatory scheme and correlate with DSS regulations
- Concerns over not yet knowing what changes may be forthcoming to the Fire Code, that may be necessary to correlate with this change. Such IFC changes for fire drills and evacuation planning will be out March 11th and fire officials can submit any code changes up to July 1st.
- Much discussion on the differences between Virginia's Amendments and national changes
- Will discuss further in another sub-workgroup meeting March 13th. Can there be defined better what is limited or may require physical assistance will be the task of the sub-group meeting
- Building officials and operators support concept and moving forward to the BHCD's CSC March 25th meeting

Action: Will move forward to BHCD's CSC 03/25/13 meeting either as consensus to approve or non-consensus

Exhausted Hoods for Domestic Appliances in Commercial Buildings

- Sub-workgroup meeting held, started with M76 and came up with this proposal

Action: Will move forward to BHCD's CSC 03/25/13 meeting as consensus to approve

Workgroups 1 and 3 Agenda

Meeting Date and Time: March 12, 2013 9:30 a.m. to 3:30 p.m.

Location: Virginia Housing Center, 4224 Cox Road, Glen Allen, Virginia 23060

Lunch provided by reservation only. Please email Monica Cousins (Monica.Cousins@dhcd.virginia.gov) by March 5, 2013 if you would like to have a lunch ordered for you.

AGENDA

1. VRC 101.2 Referenced standard (Handout p. 1)
2. VCC 101.6 and VRC 101.6 Order of precedence (Handout p. 2)
3. VCC 102.3 Shipping containers (Handout p. 4)
4. VCC 102.3.1 and 202 Automotive lifts (2 proposals) (Handout p. 5)
5. VCC 103.4 Additions (Handout p. 9)
6. VCC 103.10 Alterations and scope, energy conservation (Handout p. 11)
7. VCC 108.1 Restriping accessible parking spaces (Handout p. 15)
8. VCC 108.2 Deck permit exemption (Handout p. 17)
9. VCC 113.6 Electronic notice of inspection (Handout p. 19)
10. VCC 113.8 Energizing electrical service for final inspection (Handout p. 20)
11. VCC 202 Definition of night club (Handout p. 21)
12. VRC 202 Definition of existing building (Handout p. 22)
13. VCC IRC R202 Definition of habitable attic (Handout p. 23)
14. VCC IRC R302.5.1 Garage door (Handout p. 24)
15. VCC IRC R311.2.1 Accessible interior doors (Handout p. 26)
16. VCC IRC R502.5 Porch headers (Handout p. 27)
17. VCC IRC R507 Decks (3 proposals) (Handout p. 29)
18. VCC IRC R602.3.1 Tall walls (Handout p. 44)
19. VCC IRC R602.7.4 King studs (Handout p. 46)
20. VCC IRC R806 Roof ventilation (Handout p. 49)
21. VCC IRC R807 Attic access (Handout p. 51)
22. VCC IRC R905.2.8.5 Drip edge (Handout p. 52)
23. VCC IRC N1102.1.1 (Table) Wall and ceiling insulation (2 proposals) (Handout p. 54)
24. VCC IRC N1102.4 Whole house testing (Handout p. 59)
25. VCC IRC IECC R402.2.13 Mechanical rooms (Handout p. 62)
26. VCC IRC IECC R402.4.1.1 (Table) Air barriers (4 proposals) (Handout p. 63)
27. VCC IRC IECC R403.2.1 Attic supply duct insulation (Handout p. 67)
28. VCC IRC IECC R403.2.2 Duct testing (Handout p. 68)
29. VCC IRC IECC R403.4.2 Hot water pipe insulation (Handout p. 70)
30. VCC IRC IECC R403.6 and M1401.3 Equipment sizing (2 proposals) (Handout p. 72)
31. VCC IRC IECC R405.5.2(1) (Table) Window glazing (Handout p. 76)
32. VCC IRC M1501.2 Transfer air (Handout p. 78)
33. VCC IRC M1503.4 Makeup air (Handout p. 79)
34. VCC IRC G2411.1 CSST arc-resistant jacket (Handout p. 81)

(continued next page)

- 35. SFPC 103.2 Amendments (**Handout p. 101**)
- 36. SFPC 106.3 Third party inspections (**Handout p. 107**)
- 37. VADR § 20 Definition of amusement device (**Handout p. 109**)
- 38. VADR § 20 Small mechanical rides and inflatables (**Handout p. 110**)
- 39. VADR § 30 Devices covered and not covered (**Handout p. 112**)
- 40. VADR § 75 Fees (**Handout p. 113**)
- 41. VADR/VCC 102.3 Generators (**Handout p. 114**)
- 42. VCS – DHCD/BCAAC proposed revisions (**Handout p. 115**)
- 43. Code Academy Standards – DHCD/BCAAC proposed revisions (**Handout p. 120**)

New Business

Adjournment

VA DHCD
Workgroup #1 and #3 Summary (03-12-13)

Meeting held: Tuesday, March 12th 2013
Location: Virginia Housing Center
Time: 9:30am

Emory Rodgers opened the meeting with an overview and explanation of the 2012 Code Change process and schedule, followed by introductions of those present. Review of proposed changes commenced.

1. VRC 101.2 REFERENCED STANDARD

Proposed by: Kenney Payne

Comments/Concerns

- Discussion on the deletion of Chapter 34 makes this change unnecessary

Action: Proposal withdrawn by proponent

2. VCC 101.6 AND VRC 101.6 ORDER OF PRECEDENCE

Proposed by: Kenney Payne

Comments/Concerns

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve

3. VCC 102.3 SHIPPING CONTAINERS

Proposed by: VBCOA Administrative Committee and STRB

Comments/Concerns

- Exceptions clarifies that shipping containers are exempted from these code requirements

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

4. VCC 102.3.1 AND 202 AUTOMOTIVE LIFTS (3 PROPOSALS)

Proposed by: Lynn Underwood and DHCD Staff

Comments/Concerns

- If passed as written, would make automotive lifts subject to annual elevator inspections
- Elevator representatives support this proposal
- Automotive lifts pose no greater hazard than any other industrial processes equipment
- must determine how to differentiate between processing equipments and any other equipment that requires structural support
- 2 separate issues too look at in this proposal: initial installation and maintenance
- Proponents can decide if they want to seek further interpretation from the Technical Review Board (TRB)

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

5. VCC 103.4 ADDITIONS

Proposed by: Kenney Payne

Comments/Concerns

- Current code allows one the option of using the IBC OR IEBC

- Once changes are correlated, it will get rid of reference to §3403.3
- Replace “shall comply” with “shall be permitted to comply”
- Clarity on 5% cap vs. increase by 5% , to existing structures

Action: Move forward to BHCD’s CSC 03/25/13 meeting with consensus as amended

6. VCC 103.10 ALTERATIONS AND SCOPE, ENERGY CONSERVATION

Proposed by: Michael Redifer

Comments/Concerns

- Proposal is not intended to affect requirements of ASHRAE
- Change allows the use of Low-E Building exemption
- Proponent noted that historic and Low-E Buildings are exempt from the requirements of this proposal
- Emory Rodgers suggested that proposal should be further scrutinized for conflicts, problems or concerns
- Need to determine whether this language needs to be put in the IEBC or IECC

Action: Move forward to BHCD’s CSC 03/25/13 meeting as non-consensus; Staff will recommend it be carried over to the 2nd half of the cycle

7. VCC 108.1 RESTRIPIING ACCESSIBLE PARKING SPACES

Proposed by: Ken Fredgren

Comments/Concerns

- Does the last sentence apply if there is not an accessible entrance; if so, would it then require the addition of an accessible entrance
- Confusion over what the 20% includes and when and where does it come in
- Suggested to eliminate the reference to accessible entrance from §3411.6
- Staff would correlate language with IBC; probably in Chapter 3 (prescriptive)
- Board may want clarification on whether or not this code change will trigger the requirement for a permit

Action: Move forward to BHCD’s CSC 03/25/13 meeting as consensus with amendment deleting the word “accessible” from the last sentence of 3411.6.

8. VCC 108.2 DECK PERMIT EXEMPTION

Proposed by: Chuck Bajnai

Comments/Concerns

Action: Move forward to BHCD’s CSC 03/25/13 meeting as non-consensus

9. VCC 113.6 ELECTRONIC NOTICE OF INSPECTION

Proposed by: STRB

Comments/Concerns

Action: Move forward to BHCD’s CSC 03/25/13 meeting as consensus

10. VCC 113.8 ENERGIZING ELECTRICAL SERVICE FOR FINAL INSPECTION

Proposed by: STRB

Comments/Concerns

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus to approve

11. VCC 202 DEFINITION OF NIGHT CLUB

Proposed by:

Comments/Concerns

- Main use can be taken out, but would make law more astringent
- No code change, proposal won't go anywhere, but wanted to put it on the table

Action: No Code Change (discussion item only)

12. VRC 202 DEFINITION OF EXISTING BUILDING

Proposed by: Kenney Payne

Comments/Concerns

- SFM recommends keeping "initial edition" language; each locality would have their own initial edition
- Some posed that using a specific date may create problems
- DHCD staff explained that the date is not "official", rather it should be used to establish a starting point
- Emory Rodgers would like to hear from building officials how this may have posed a problem in the past

Action: Proposal withdrawn by proponent

13. VCC IRC R202 DEFINITION OF HABITABLE ATTIC

Proposed by: VBCOA IRC Committee

Comments/Concerns

- Proposal not intended to change the compliance requirements of the IRC
- From industry standpoint, will not support
- HBAV does not support change
- SFMO finds proposal problematic from an enforcement viewpoint; what code section would be referenced
- This is the easiest way to state one cannot have a 4-story building; habitable attics may only be added to 1st and 2nd story buildings
- Remove the definition of habitable attic altogether

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

14. VCC IRC R302.5.1 GARAGE DOOR

Proposed by: Mike Toalson

Comments/Concerns

- VAMMHA supports proposal
- Building official believes this is a fairly minor cost that gains some protection to the inside of the house

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

15. VCC IRC R311.2.1 ACCESSIBLE INTERIOR DOORS

Proposed by: HBAV

Comments/Concerns

- Some voiced that proposal was poorly crafted
- Suggestion to add the word “nominal”
- DHCD staff to make technical corrections to proposal
- Emory Rodgers request VAMMHA to provide floor plan information

Action: Move forward to BHCD’s CSC 03/25/13 meeting with consensus as amended

16. VCC IRC R502.5 PORCH HEADERS

Proposed by: Lynn Underwood, Brian Foley

Comments/Concerns

Action: Move forward to BHCD’s CSC 03/25/13 meeting with consensus to approve

17. VCC IRC R507 DECKS (4 PROPOSALS)

Proposed by: Chuck Banjai

Comments/Concerns

- Proposal takes out non-consensus types of issue
- Language used taken out of DC-A6; lots of states are using it
- Lateral support requirement currently in IRC is broken, this document covers the requirements that are NOT in the IRC language.
- Perhaps if this language is too much, we can go with some similar to what NADRA has
- 80% of the Commonwealth welcomes some guidance on this issue
- Proposal initially sponsored by American Wood Council, who has no interest in maintaining it
- If this proposal goes through, 2 deck proposals will be withdrawn (Bryan Deem and John Trenary); must wait to see if initial proposal goes through.

Action: Move forward to BHCD’s CSC 03/25/13 meeting as consensus

18. VCC IRC R602.3.1 TALL WALLS

Proposed by: Chuck Bajnai

Comments/Concerns

- Proposal clarifies that 20-foot high walls cannot be stacked in threes

Action: Move forward to BHCD’s CSC 03/25/13 meeting as consensus

19. VCC IRC R602.7.4 KING STUDS

Proposed by: Chuck Bajnai

Comments/Concerns

- Will this proposal negate other acceptable methods?
- Language in proposal refers to NDS; in order for it to correlate with IRC, language must be added to the IRC
- Perhaps another code change is needed

Action: Move forward to BHCD’s CSC 03/25/13 meeting as consensus

20. VCC IRC R806 ROOF VENTILATION

Proposed by: Chuck Bajnai

Comments/Concerns

- Proposal takes out apparent contradiction; clarifies that one can have vented or un-vented attics
- Requires at least 50% of venting, if provided, comes from eaves

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

21. VCC IRC R807 ATTIC ACCESS

Proposed by: Chuck Bajnai

Comments/Concerns

- Proposal is less restrictive, building officials do not like it

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

22. VCC IRC R905.2.8.5 DRIP EDGE

Proposed by: Mike Toalson

Comments/Concerns

- Suggestion made to make an exception where drip edges interfere with gutters or leaf protections systems
- Emory Rodgers suggested to proponents that some tweaking could be done to this proposal

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

23. VCC IRC N1102.1.1 (TABLE WALL AND CEILING INSULATION (2 PROPOSALS))

Proposed by: HBAV

Comments/Concerns

- Proposal offers too much change, too quickly; please advance as non-consensus
- Proposal addresses 2x4 vs. 2x6 construction; many areas across the country are now going to 2x6 construction
- Increased costs of construction included in analyses
- Arlington County reps would support this proposal as written
 - good compromise
 - addresses energy efficiency
- SFM asked how this proposal would affect energy savings?
- SFM supports reducing the %

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

24. VCC IRC N1102.4 WHOLE HOUSE TESTING

Proposed by: Mike Toalson, Randy Melvin

Comments/Concerns

- In VA we currently have visual or mechanical testing

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

25. VCC IRC IECC R402.2.13 MECHANICAL ROOMS

Proposed by: Bryan Deem, Stephen Turchen, Guy Tomberlin

Comments/Concerns

- Discussions relating to when this would be applicable
 - Only applicable to the building thermal envelope, would not apply to a water heater in a shed
- Proposal only references appliances that are not direct vent.
- Suggested for proponent to clean up language

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

26. VCC IRC IECC R402.4.1.1 (TABLE AIR BARRIERS (4 PROPOSALS))

Proposed by: Stephen Turchen

Comments/Concerns

- Some officials believe that current requirement is being overlooked; language already in code
- Not adding anything that isn't already there, just want to emphasize it in bold narrative, rather than having to look at a table.

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

27. VCC IRC IECC R403.2.1 ATTIC SUPPLY DUCT INSULATION

Proposed by: Bryan Deem

Comments/Concerns

- This is a code change at national level

Action: Withdrawal by proponent

28. VCC IRC IECC R403.2.2 DUCT TESTING

Proposed by: Mike Toalson

Comments/Concerns

- Testing is not required/mandated in current code
- Some would like to see duct testing on every home, code at this point gives you an option
- Suggested to revisit this topic in next cycle

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

29. VCC IRC IECC R403.4.2 HOT WATER PIPE INSULATION

Proposed by: Mike Toalson

Comments/Concerns

- VBCOA Energy Committee does not support this proposal

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

30. VCC IRC IECC R403.6 AND M1401.3 EQUIPMENT SIZING (2 PROPOSALS)

Proposed by: Guy Tomberlin

Comments/Concerns

- New standard (Manual S update) will alleviate some of the over-sizing issues
- Emory Rodgers suggests that this proposal may be worth carrying over to second half pending outcome of Standards committee meeting

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

31. VCC IRC IECC R405.5.2(1 (TABLE WINDOW GLAZING)

Proposed by: Mike Toalson

Comments/Concerns

- Change would be a backwards step; Virginia currently enforces the way the 2012 code is written
- Proponent wants credit for less glazing as compared to the standard reference design
- This proposal revises only one piece of the performance method

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

32. VCC IRC M1501.2 TRANSFER AIR

Proposed by:

Comments/Concerns

- Issue is in balancing (design)
- These will be vetted at the next VPMIA committee meeting

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus (carry over 2nd half of cycle)

33. VCC IRC M1503.4 MAKEUP AIR

Proposed by: Mike Toalson, Randy Melvin

Comments/Concerns

- Current requirement is irrational 400 is okay but if you go to 401 then you have to make up all 401 not just the one; most downdrafts are in excess of this.
- Currently doing it in Maryland and it is causing a lot of problems.
- SS against, VPMIA would like to vet.

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus (carry over 2nd half of cycle)

34. VCC IRC G2411.1 CSST ARC-RESISTANT JACKET

Proposed by: Robert Torbin

Comments/Concerns

- At this time no national standard; process to continue

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

35. SFPC 103.2 AMENDMENTS

Proposed by: Robby Dawson

Comments/Concerns

- Discussion on deletion of scope of enforcement maybe problematic to allow scope of enforcement from model codes and reference standards to be enforceable without review for impact on the law and SFPC regulations sections 101.2, 102.4, 103 to 106.
- In §901.2 staff noted this was something the VCC and SFPC need to be coordinated as USBC 109 establishes details and sets o be submitted.

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

36. SFPC 106.3 THIRD PARTY INSPECTIONS

Proposed by: John Catlett

Comments/Concerns

- Discussion on conflicting language "may" vs. "shall"

Action: Move forward to BHCD's CSC 03/25/13 meeting with consensus as amended

37. VADR § 20 DEFINITION OF AMUSEMENT DEVICE

Proposed by: ADTAC

Comments/Concerns

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

38. VADR § 20 SMALL MECHANICAL RIDES AND INFLATABLES

Proposed by: ADTAC

Comments/Concerns

- Discussion on why these should be inspected

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

39. VADR § 30 DEVICES COVERED AND NOT COVERED

Proposed by: ADTAC

Comments/Concerns

- Language adds zip lines and inflatables but removed mechanical bulls

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

40. VADR § 75 FEES

Proposed by: ADTAC

Comments/Concerns

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

41. VADR/VCC 102.3 GENERATORS

Proposed by: Kenneth Martin

Comments/Concerns

Action: Move forward to BHCD's CSC 03/25/13 meeting as non-consensus

42. VCS – DHCD/BCAAC PROPOSED REVISIONS

Proposed by: Michael Redifer

Comments/Concerns

Action: Proposal being carried over to second half of cycle

43. CODE ACADEMY STANDARDS – DHCD/BCAAC PROPOSED REVISIONS

Proposed by: DHCD, BCAAC

Comments/Concerns

- DHCD staff member reviewed proposed changes

Action: Move forward to BHCD's CSC 03/25/13 meeting as consensus

**BOARD OF HOUSING AND COMMUNITY DEVELOPMENT
CODES AND STANDARDS COMMITTEE
MEETING**

**December 20, 2012
Glen Allen, Virginia**

Members Present

Mr. Anthony Clatterbuck
Mr. Robert Kaplan
Mr. Rick Witt
Ms. Elaine Gall
Mr. Bill Darden
Mr. Jim Hyland
Mr. John Ainslie
Mr. Jim Petrine

Members Absent

Mr. Steve Semones
Mr. Tito Munoz
Mr. Ron Boothe
Mr. Roger McLellon
Mr. J. P. Carr

Call to Order

Mr. Anthony Clatterbuck, Chairman of the Codes and Standards Committee, called the meeting of the Committee to order.

Opening Comments

Mr. Emory Rodgers, Deputy Director of the Division of Building and Fire Regulations, provided introductory comments and an overview of the regulation base documents.

USBC

Tab 2 of the Committee notebook. The Committee considered 26 USBC issues. A motion was made to adopt the proposed changes as a block, with five exceptions presented below. The motion was seconded and agreed to unanimously.

The five issues that were pulled from Tab 2 were:

1. Restriping of parking lots for accessible parking spaces (page 14). The Committee had concerns with ownership and deed issues regarding condominium parking spaces and agreed that this issue needed additional research and consideration.
2. Require minimum number of required accessible parking spaces (page 15). The Committee expressed concern with the large increase in required spaces for larger lots. The Committee agreed that additional consideration of this issue was needed.
3. Accessible parking at clinics and ambulatory health care facilities(page 16). The Committee agreed that more consideration was needed for a definition of terms including "outpatient clinics".
4. Access hatches and doors (page 18). The Committee

agreed to strike proposed language #2 for insulation values. The proposal was then approved as modified.

5. Swimming pools (page 33). The Committee approved Section 3109 language and agreed to further consider definitions.

Virginia Rehabilitation Code and Virginia Maintenance Code

Tab 3 of the Committee notebook. All proposals were accepted in a block vote.

Manufactured Home Safety Regulations

Tab 4 of the Committee notebook. All proposals were accepted in a block vote with understanding that staff will bring back additional language regarding utility connections for consideration.

Industrialized Building Safety Regulations

Tab 5 of the Committee notebook. All proposals were accepted in a block vote.

Virginia Amusement Device Regulations

Tab 6 of the Committee notebook was the base document for the regulation. Tab 7 of the Notebook provided proposed amendments for this regulation. Page 1 on certificates was unanimously approved. Page 2 on covered devices was tabled for additional consideration and legal advice. Page 4 on local government fees was tabled for additional consideration. Page 5 on certificates of inspection was unanimously approved. Page 7 on amusement devices on state-owned property was tabled for additional consideration and consultation with legal counsel. Page 8 on violations was unanimously approved.

MOA

Mr. Emory Rodgers reviewed the memorandum of agreement between DHCD and the Department of Health

Adjournment

Upon motion duly made and seconded, the meeting was adjourned.