Electrical

Proposed Code Modifications

This document created by the Florida Department of Community Affairs - 850-487-1824

TAC: Electrical

Sub Code: Building

Total Mods for Electrical: 2

E3853

Date Submitted	3/24/2010	**Section**	916	**Proponent**	Steven Bassett
Chapter	9	**Affects HVHZ**	No	**Attachments**	Yes

TAC Recommendation Approved as Modified
Commission Action Pending Review

Related Modifications

Summary of Modification

Changes to Carbon Monoxide Protection

Rationale

It is the work of the Carbon Monoxide work group to clairify the language.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

Clairifies language to make it easier to enforce.

Impact to building and property owners relative to cost of compliance with code

Will reduce cost to owners

Impact to industry relative to the cost of compliance with code

Make it easier since it is more understandable

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

It will improve the health, safety and welfare of the public.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

It will strengthen the code because it will be more understandable

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

It opens the code to more products.

Does not degrade the effectiveness of the code

It improves the effectiveness of the code by making it easier to enforce

~~Addition. An extension or increase in floor area, number of stories or height of a building or structure.~~

916 Carbon monoxide protection

916.1 Carbon monoxide protection. Every separate building or an addition to an existing building for which a permit for new construction is issued and having a fossil-fuel-burning heater or appliance, a fireplace, ~~or~~ an attached garage, or other feature, fixture, or element that emits carbon monoxide as a byproduct of combustion shall have an operational carbon monoxide alarm installed within 10 feet of each room used for sleeping purposes in the new building or addition, or at such other locations as required by this Code..

916.1.1 Carbon monoxide alarm ~~Power Source.~~ ~~In new construction, alarms shall breceive their primary power from the building wiring when such wiring is served from the local power utility. Such alarms shall have battery back up.~~ The requirements of Section 916.1 shall be satisfied by providing for one of the following alarm installation:

(1) A hard-wired carbon monoxide alarm.

(2) A battery-powered carbon monoxide alarm.

(3) A hard-wired combination carbon monoxide and smoke alarm.

(4) A battery-powered combination carbon monoxide and smoke alarm.

916.1.2 Combination alarms. Combination smoke/carbon monoxide alarms shall be listed and ~~or~~ labeled by a Nationally Recognized Testing Laboratory.

Exceptions:

(1) An approved operational carbon monoxide detector shall be installed inside or directly outside of each room or area within a hospital, inpatient hospice facility or nursing home facility licensed by the Agency for Health Care Administration, or a new state correctional institution where a fossil-fuel burning heater, engine, or appliance is located. The carbon monoxide detector shall be connected to the fire-alarm system of the hospital, inpatient hospice facility, or nursing home facility as a supervisory signal.

(2) This section shall not apply to existing buildings that are undergoing alterations or repair unless the alteration is an addition as defined in Section 916.1.3.

916.1.3 Addition shall mean an extension or increase in floor area, number of stories or height of a building or structure.

2nd Comment Period 09/03/2010 - 10/18/2010

E3853-G2

Proponent Thomas Allen **Submitted** 10/18/2010 **Attachments** No

Comment:

Support Mod 3853 Carbon Monoxide Detectors as Modified (the Electrical TAC modified the proposal and the Fire TAC and Mechanical TAC agreed on one modification, the BOAF representatives at the TAC meetings helped craft the modification)

1st Comment Period History 04/15/2010 - 06/01/2010

E3853-G1

Proponent Jack Glenn **Submitted** 6/1/2010 **Attachments** No

Comment:

This change may conflict with the provisions of HB-663 if signed by the Governor.

916.1 Carbon monoxide protection. Every separate building or an addition to an existing building ~~for which a permit for new construction is issued~~ having a fossil-fuel-burning heater or appliance, a fireplace or an attached garage, or other feature, fixture, or element that emits carbon monoxide as a product as a byproduct of combustion shall have an operational carbon monoxide alarm installed within 10 feet (3048 mm) of each room used for sleeping purposes in the new building or addition, or at such other location as required by the Florida Building Code. The requirements for this subsection may be satisfied with a battery-powered carbon monoxide alarm or a battery-powered carbon monoxide and smoke alarm. This subsection does not apply to existing buildings that are undergoing alterations or repairs unless the alteration is an addition as defined in Section 202 Defination.

Addition. An extension or increase in floor area, number of stories or height of a building or structure.

916 Carbon monoxide protection

916.1 Carbon monoxide protection. Every separate building or an addition to an existing building for which a permit for new construction is issued and having a fossil-fuel-burning heater or appliance, a fireplace, ~~or~~ an attached garage, or other feature, fixture, or element that emits carbon monoxide as a byproduct of combustion shall have an operational carbon monoxide alarm installed within 10 feet of each room used for sleeping purposes in the new building or addition, or at such other locations as required by this Code..

916.1.1 Carbon monoxide alarm ~~Power Source.~~ ~~In new construction, alarms shall breceive their primary power from the building wiring when such wiring is served from the local power utility. Such alarms shall have battery back up.~~ The requirements of Section 916.1 shall be satisfied by providing for one of the following alarm installation:

(1) A hard-wired carbon monoxide alarm.

(2) A battery-powered carbon monoxide alarm.

(3) A hard-wired combination carbon monoxide and smoke alarm.

(4) A battery-powered combination carbon monoxide and smoke alarm.

916.1.2 Combination alarms. Combination smoke/carbon monoxide alarms shall be listed or labeled by a Nationally Recognized Testing Laboratory.

Exceptions:

(1) An approved operational carbon monoxide detector shall be installed inside or directly outside of each room or area within a hospital, inpatient hospice facility or nursing home facility licensed by the Agency for Health Care Administration, or a new state correctional institution where a fossil-fuel burning heater, engine, or appliance is located. The carbon monoxide detector shall be connected to the fire-alarm system of the hospital, inpatient hospice facility, or nursing home facility as a supervisory signal.

(2) This section shall not apply to existing buildings that are undergoing alterations or repair unless the alteration is an addition as defined in this Code.

Sub Code: Building

E4391

Date Submitted	4/2/2010	**Section**	New appendix	**Proponent**	Doug Harvey
Chapter	2711	**Affects HVHZ**	No	**Attachments**	Yes

TAC Recommendation No Affirmative Recommendation with a Second
Commission Action Pending Review

Related Modifications

Add code reference to chapter 35 including the edition date.

Summary of Modification

Add a new Appendix “XX” (Designation to be assigned)

Rationale

Please see support document for rationale.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

This proposed change does not impact local enforcement, it merely provides an alternate path for design that adhere to the Florida Building Code

Impact to building and property owners relative to cost of compliance with code

No fiscal impact to the building owner is anticipated

Impact to industry relative to the cost of compliance with code

No fiscal impact to the industry is anticipated

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

This proposed change protects the health, safety and welfare by allowing the code compliant use of “green” ideas and technologies

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

This proposed change improves the code for design consistency

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This proposed code change does not discriminate

Does not degrade the effectiveness of the code

This proposed change does not degrade the effectiveness of the code.

2nd Comment Period 09/03/2010 - 10/18/2010

E4391-G3

Proponent Arlene Stewart **Submitted** 10/18/2010 **Attachments** No

Comment:

TAC action should be reconsidered. Reason for disapproval was that the code was not yet final. However, the IGCC is available at http://www.iccsafe.org/cs/IGCC/Pages/default.aspx?r=IGCC. It is listed as the public version and not listed as a draft.

2nd Comment Period 09/03/2010 - 10/18/2010

E4391-G4

Proponent Thomas Allen **Submitted** 10/18/2010 **Attachments** No

Comment:

Support: IGCC to be included in the Florida Building Code in an appendix.
An appendix is adopted locally
This would provide an easily adopted green code that is designed to work with the building code

1st Comment Period History 04/15/2010 - 06/01/2010

E4391-G1

Proponent	Doug Harvey	Submitted	6/1/2010	Attachments	No

Comment:

BOAF has suggested the International Green Construction Code (IGCC) be included as an adoptable appendix. While many ideas for “green” and green construction are present in the marketplace today, no other document has been through the process the IgCC has. This document has been compared to the base codes for Building, Mechanical, Plumbing, Fuel Gas and Energy. The code has been scrutinized so as to prevent conflicts between building code requirements and green/sustainable requirements. The IgCC has been evaluated and endorsed by the USGBC and ASHRAE as well through the national consensus process. Many areas are in the process of trying to adopt “green” standards for their communities. This will provide a method for jurisdictions looking to mandate greener and more sustainable requirements. In addition, this document was created in conjunction with ASHRAE, ICC and others, including public meetings, to ensure compatibility with many of the existing requirements in existence today and with a forward looking approach. While this is a relatively new document, inclusion as an adoptable appendix will offer an option that will help with code compliance, not code violation or putting different standards at odds with each other.

1st Comment Period History 04/15/2010 - 06/01/2010

E4391-G2

Proponent	Jack Glenn	Submitted	6/1/2010	Attachments	No

Comment:

The new appendix is based on a proposed standard that is not yet approved.

APPENDIX 'XX' (Designation to be assigned)

International Green Construction Code (IGCC)

The provisions in this appendix are not mandatory unless specifically referenced in the adopting ordinance

SECTION (XX) 101

GENERAL

(XX) 101.1 Scope. The provisions of this appendix are applicable to all occupancies covered by the International Green Construction Code (IGCC).

(XX) 101.2 Intent. The intent of this appendix is to provide direction for communities having a desire to preserve natural resources, especially water, and lessen the impact of construction on the built environment. Adoption of this standard is to safeguard the environment, public health, safety and general welfare through the establishment of requirements to reduce the negative potential impacts and increase the potential positive impacts of the built environment and building occupants, by means of minimum requirements to: conservation of natural resources, materials and energy; the employment of renewable energy technologies, indoor and outdoor air quality; and building operations and maintenance.

(XX) 101.3 Requirements. The design of buildings shall be in accordance with the International Green Construction Code (IGCC).

Add the Following to Chapter 35 – references:

ICC

International Code Council, Inc.

500 New Jersey Avenue, NW

6th Floor

Washington, DC 20001

Standard Referenced: IGCC

Title: **International Green Construction Code (IGCC)**

Reference in code section number: Appendix L

Date Submitted	April 2, 2010
Mod Number	
Code Version	2010
Code Change Cycle	2010 Triennial Original Modifications 03/01/2010/-/04/02/2010
Sub-code	Building
Chapter Topic	Appendix, International Green Construction Code
Section	Appendix
Related Modification	Add code reference to chapter 35 including the edition date.
Affects HVHZ	No
Summary of modification	Add a new Appendix "XX" (Designation to be assigned)
Text of Modification	APPENDIX 'XX' (Designation to be assigned) International Green Construction Code (IGCC) The provisions in this appendix are not mandatory unless specifically referenced in the adopting ordinance SECTION (XX) 101 GENERAL (XX) 101.1 Scope. The provisions of this appendix are applicable to all occupancies covered by the International Green Construction Code (IGCC). (XX) 101.2 Intent. The intent of this appendix is to provide direction for communities having a desire to preserve natural resources, especially water, and lessen the impact of construction on the built environment. Adoption of this standard is to safeguard the environment, public health, safety and general welfare through the establishment of requirements to reduce the negative potential impacts and increase the potential positive impacts of the built environment and building occupants, by means of minimum requirements to: conservation of natural resources, materials and energy; the employment of renewable energy technologies, indoor and outdoor air quality; and building operations and maintenance. (XX) 101.3 Requirements. The design of buildings shall be in accordance with the International Green Construction Code (IGCC). Add the Following to Chapter 35 – references: ICC International Code Council, Inc.

	500 New Jersey Avenue, NW 6th Floor Washington, DC 20001 Standard Referenced: IGCC Title: International Green Construction Code (IGCC) Reference in code section number: Appendix L
Rational	1. The purpose of this proposed change is to add a new optional appendix to the FBC. 2. The proposed appendix will reference the International Green Construction Code (IGCC). This newly-developed, consensus-based standard may be used in conjunction with local code requirements specific to green buildings covered in the scope. 3. Green buildings are currently being designed and constructed nationwide using different programs guidelines, rating systems, and standards. The IGCC was developed under the direction of ICC, in conjunction with representatives from other nationally-recognized organizations with experience and expertise in this field, including ASHRAE members. In many cases, limited guidance is given as to the criteria to be used to determine if the building project meets the expectations. The IGCC provides a path using a publicly-reviewed resource for local jurisdictions to adopt and use in the administration of green residential building design.
Fiscal Impact statement	
Impact to Local Enforcement	This proposed change does not impact local enforcement, it merely provides an alternate path for design that adhere to the Florida Building Code
Impact to Building owner	No fiscal impact to the building owner is anticipated
Impact to Industry	No fiscal impact to the industry is anticipated
Requirements	
Has connection to health safety and Welfare	This proposed change protects the health, safety and welfare by allowing the code compliant use of “green” ideas and technologies
Strengths or improves Code	This proposed change improves the code for design consistency
Does not discriminate	This proposed change does not discriminate
Does not degrade effectiveness of code	This proposed change does not degrade the effectiveness of the code.