

State Building Code Council (SBCC) Meeting
Tuesday, September 19, 2017
9:00 a.m.

Department of Accounting and General Services
Comptroller's Conference Room 410
Kalanimoku Building
1151 Punchbowl Street
Honolulu, Hawaii 96813

West Hawaii Civic Center
Building "E", First Floor
74-5044 Ane Keohokalole Highway
Kailua-Kona, Hawaii 96740

Telephone Call-In - 800-910-8278 then 6547519

Minutes

1. Call to Order: The meeting was called to Order 9:04 a.m.
2. Introductions and Public Comments

Member Wiig reported that Erik Kolderup, PE, of Kolderup Consulting and Insynergy Engineering of Honolulu, have been contracted by the Hawaii State Energy Office, DBEDT, to conduct a study of energy code compliance with focus on commissioning. This study will expand a 2015 compliance report that Kolderup performed for Hawaii Energy.

Aki Marceau of Elemental Excelerator, reported meeting with Honolulu's Department of Planning and Permitting (DPP) to discuss amending the NEC 2014 edition, with Article 706 from the National Electrical Code (NEC) 2017 edition. This article identifies current requirements for energy storage. The counties are currently in the process of adopting the NEC 2014 edition, which does not have Article 706. California added Article 706 to its adopted code and can be viewed at:

http://osfm.fire.ca.gov/codedevelopment/pdf/2016_CBSC/20161120-Part3-ISOR.pdf
http://osfm.fire.ca.gov/codedevelopment/pdf/2016_CBSC/20161120-Part3-ET.pdf

National Fire Protection Association's Tim McClintock, responded affirmatively to a request that there were no conflicts between the NEC 2014 edition and Article 706. Mr. McClintock provided a written request to the DPP to allow the adoption of Article 706.

Assistant Chief Socrates Bratakos reported that as a result of the Marco Polo fire Honolulu City Council has proposed Bill 69 that would retrofit all existing high-

rises with automatic fire sprinklers. They formed an advisory committee to study costs, financing, building codes, etc. Codes for existing buildings provide for an evaluation of an existing building based on 19 safety parameters, including height, automatic fire detection, smoke control, elevators, exits, etc. These parameters can be used to provide a comparison of buildings and their relative level of safety.

Member Wiig presented a transformational achievement award to the SBCC that recognizes organizations that have advanced the use of clean energy in Hawaii. The award recognized the adoption of the International Energy Conservation Code 2015 edition by the SBCC.

3. Review and approval of minutes of the August 15, 2017 meeting.

Motion: Member Haigh motioned to approve the August 15, 2017 meeting minutes. The minutes were unanimously approved.

4. Scheduling of Future Adoption of Codes Listed in HRS 107-25

Chair provided an updated handout for the process and discussed the steps. The DAGS will be requested to provide a final review before finalization. It will be used as a checklist for the process and ensure that an open forum for the code adoption process is maintained. The Federal Emergency Management Agency grant funding will be used to adopt 2012 IBC/IRC and the process will be followed and revised as needed. The DAGS will be requested to support the adoption and is the grant administering State agency. A consultant will be used facilitate the process.

5. Discussion of Future Administrative Support.

There was no update.

6. Discussion of 2018 Legislation

There was no update.

7. Public Proposal to Amend the Proposed Amendment to the Uniform Plumbing Code 2012 Edition

Dwight Perkins, Senior Vice President, Field Operations of the International Association of Plumbing and Mechanical Engineers, explained a submitted Code Amendment Proposal to the Uniform Plumbing Code (UPC) 2012 edition to delete an amendment to allow the use of the International Plumbing Code (IPC) in lieu of the UPC with requirements. The submitted Code Amendment Proposal will be made a part of the approved meeting minutes.

The Chair provided comments on technical advantages in both codes. Both use a consensus adoption process and explained the use of alternative materials and methods. Member Haigh discussed a submitted document on the advantages and disadvantages that he had researched when this issue was debated on Kauai and pointed out that restrictions would be applied to the use of the IPC. Member Serikaku presented reasons to not allow the IPC to be in the State Plumbing Code. Chair requested the attorney general to research the legal appropriateness of this issue. If the research can be provided before the next meeting the SBCC will place the proposal on the agenda for discussion and possible decision making.

8. Updates from the investigative committees:

- a. Investigative committee for the structural provisions for the International Building Code (IBC) and the International Residential Code (IRC)

The Subcommittee of Building Officials completed its review and approved the IRC 2012 edition with amendments, which merged the structural and non-structural provisions. The requirement for sprinklers in one- and two-family dwellings was removed with no added requirements. The document will be forwarded to the SBCC for review prior to the next meeting and placed on the agenda for decision making.

- b. Investigative committee for the non-structural provisions of the IBC and the IRC. See #8a above.

- c. Investigative committee for the International Energy Conservation Code (IECC)

Member Wiig solicited support for the county adoption of the IECC 2015 edition. Hawaii's amendments to the 2015 IECC will actually reduce construction costs. Erik Kolderup's recent code compliance study revealed that an almost zero rate of compliance with the commissioning measure. This will be addressed during code training. Another issue was lack of information on fenestration compliance. The National Fenestration Rating Council (NFRC) establishes objective window, door, and skylight energy performance ratings. A label helps compare energy performance ratings in multiple categories. This shows whether a product is in compliance which in turn affects HVAC sizing by the American Society of Heating, Refrigerating and Air-Conditioning standards found in the IECC. He stated that the 2018 edition does not have many changes from the 2015.

- d. Investigative committee for the Uniform Plumbing Code

The UPC 2018 edition will be published in January, 2018.

- e. Investigative committee for the Mechanical Code

Kevin Luoma, of WSP stated he will present some ideas on the value of adopting a State Mechanical Code. The State Department of Health has requirements for air conditioning and ventilation that follow the mechanical code. Presently, no county adopts a mechanical code.

f. Investigative committee for the Green Code

Brent Tokita provided handouts that had information about other jurisdictions' adoption of the International Green Construction Code (IgCC). Oregon's program was voluntary, Washington D.C.'s mandatory and Arizona's was a voluntary/mandatory hybrid. Mr. Tokita had to leave the meeting before a full report could be delivered. The SBCC will add the Investigative Committee on the Green Code and a full report will be added to the front-end of the next meeting.

g. Investigative committee for the State Fire Code

Assistant Chief Socrates Bratakos reported that the committee had its final meeting to finalize the amendments for the National Fire Protection Association Fire Code 2015 edition. The State Fire Council (SFC) will decide on approving the amendments at their next meeting in December, 2017. The committee's review process took longer than expected and the SFC plans to streamline the process for the 2018 fire code. The support from NFPA has been outstanding. Unlike the other State building codes, the SBCC's review and approval timeline of the State Fire Code starts when SFC approves the new code and not when the national code is first published.

h. Investigative committee for the 2017 National Electrical Code (NEC)

Member Haigh reviewed the SBO's approved NEC 2017. The SBCC will be asked to review the approved document prior to the next meeting and proceed with decision making. Hard copies of the NEC 2017 edition were distributed to the three county building officials who were present.

i. Investigative committee for the energy efficiency code coordination

Committee is working to coordinate the IECC with the IgCC

j. Investigative committee on communication and training

A consultant inquired about commissioning work in Hawaii and if any training may be needed. The IECC requires commissioning, but currently not much is being done to gain compliance.

- k. Investigative committee for SBCC membership with the International Code Council (ICC)

The annual membership fee is due to the ICC

- l. Investigative committee for residential fire sprinklers in the State Residential Code

The committee has completed its purpose and will be removed as an agenda item.

9. Approval of the IBC/IRC 2012 Editions Amendment Package

See item 8 (a) above.

10. Update on county and state adoption of building codes

Kauai will begin proceeding with the adoption of the IECC 2015 edition. The NEC 2014 and the UPC 2012 editions are being deferred to January 2018.

11. Discussion of possible agenda item(s) for next Council meeting

The SBCC discussed the non-attendance of the elevator representative from the Department of Labor and Industrial Relations. Member Rogers will contact the Director to find out the situation.

12. Announcements

No announcements were presented.

13. Next meeting: October 17, 2017, at 9:00 a.m.

Chair will attend the next meeting via telephone call-in and will have the Vice Chair conduct the meeting.

14. Adjournment

Motion: Member Wiig motioned to adjourn the meeting at 11:15 a.m. The motion was unanimously approved.



STATE OF HAWAII CODE AMENDMENT PROPOSAL
FORM FOR PUBLIC PROPOSALS TO
AMEND THE HAWAII STATE BUILDING CODES
 (Form Version 1.0 May 2010)

1)

Name: Dwight Perkins, Sr. VP. Field Operations		Date: August 23, 2017	
Department/Company: The International Association of Plumbing and Mechanical Officials			
Submitted on Behalf of: The International Association of Plumbing and Mechanical Officials			
Address: 53014 Alba Street			
City: Lake Elsinore		State: CA	Zip Code: 92532
Phone: 503-307-9944	Ext.:	Fax:	
E-mail address: Dwight.perkins@iapmo.org			

2) Indicate appropriate Model Code(s) and Sections to be amended in Hawaii by this Proposal –

CODE AMENDMENT PROPOSAL INSTRUCTIONS

Please provide all of the following items in your code change proposal.

REQUIRED INFORMATION:

The following items are required to be included in your proposal:

1. The proponent shall clearly state the purpose of the proposed code amendment (e.g., clarify the Code; revise outdated material; substitute new or revised material for current provision of the Code; add new Hawaii requirements to the adopted Code; delete current requirements, etc.). Any proposed revisions or additions to tables or figures must be included.
2. The proponent shall justify amending the current code provisions, stating why the proposal is superior to the current provisions of the Model Code. Proposals that add or delete requirements shall be supported by a logical explanation which clearly shows why the current Code provisions are inadequate or overly restrictive, specifies the shortcomings of the current Code provisions in Hawaii, and explains how such proposals will improve the Hawaii State Code.
3. The proponent shall substantiate the proposed code change based on technical information and substantiation. Substantiation provided which is determined as not germane to the technical issues addressed in the proposed code change shall be identified as such, and the proponent shall be notified that the proposal is considered an incomplete proposal and may be held until the deficiencies are corrected.
4. The proponent shall submit a bibliography of any substantiating material submitted with the code change proposal. The proponent shall make the substantiating materials available for review.
5. Per Hawaii Revised Statutes §107-26, the State Building Code Council shall not adopt provisions that relate to administrative, permitting, or enforcement and inspection procedures of each county. Any such code amendments shall be proposed instead to the individual county building officials during the code adoption process of each county.

PROPOSAL FORMATTING:

Show the proposal (see form on page 2) using strikeout, underline format. At the beginning of each section, one of the following instruction lines are also needed:

- Revise as follows
- Add new text as follows
- Delete and substitute as follows
- Delete without substitution

The only formatting that is needed is **BOLDING**, **STRIKEOUT** AND **UNDERLINING**. Please do not provide additional formatting such as tabs, columns etc. **DO NOT USE THE TRACKING CHANGES OPTION, AUTOMATIC NUMBERING, OR ANY OTHER ADVANCED FORMATTING TOOLS PROVIDED BY WORD.**

*This
Section
For
Official
Use
Only*

Date Considered by Building Official Sub-Committee: _____

Sub-Committee Action on Proposal: _____

Reason for Sub-Committee Action: _____

Action by State Building Code Council: _____

Date: _____

PUBLIC PROPOSAL FORM TO AMEND THE HAWAII STATE BUILDING CODES

HAWAII CODE AMENDMENT PROPOSAL FORM

(See instructions on page 1)

Model Code: 2012 UPC –(IBC-09, IEBC, IECC, UFC, IMC, UPC, IRC, etc)

Code Sections/Tables/Figures/Standard Proposed for Revision; If the proposal is for a new section, indicate proposed section #.

Proponent: Name/Company/Representing: (DO NOT USE ACRONYMS FOR YOUR COMPANY OR ORGANIZATIONAL NAME)
Dwight Perkins, Senior Vice President, Field Operations, The International Association of Plumbing and Mechanical Officials (IAPMO)

Revise as follows (include deletion in ~~strikeout~~, with modified text/proposed addition underlined, affected Code Section(s) in **Bold**):

§3-183-8 General Regulations.

Reason:

- **No other discipline in the state is simultaneously regulated by two different codes; rules; sets of practice**
- **In the code development process and the adoptions of codes at the “local level” stakeholders demand an open, transparent process by the adopting agencies. Adopting a second plumbing code by fiat legislation defies this concept.**
- **Technical Advisory Groups (TAG) are comprised of a broad spectrum of SME’s (Subject Matter Expert) who can vet provisions – these committees and their members are completely excluded since the International Plumbing Code (IPC) will be adopted without any review or amendments as has been done to the 2012 Uniform Plumbing Code.**
- **The public is disenfranchised by not being permitted to speak on their perspectives regarding the IPC.**
- **The UPC as used in Hawaii since the early 1970’s and requires ONE book.**
- **Journeyman Plumbers and Contractor licensing certify competency by taking exams based on the Uniform Plumbing Code.**
- **Plumbing Inspectors are certified to the Uniform Plumbing Code.**

PUBLIC PROPOSAL FORM TO AMEND THE HAWAII STATE BUILDING CODES

- **Apprenticeship and Journeyman classes are instructed on the plumbing installations based on the UPC.**
- **The County building department staff will have to become knowledgeable with the inspections required by the IPC and the differences between the IPC and the UPC.**
- **Any gain sought by the supposed “flexibility” of the IPC is already available by using UPC section 301.3 “Alternate Materials & Methods of Construction Equivalency”. Here a Building Official or Plumbing Inspector have broad discretionary latitude.**
- **This proposal requires acquisition of six (6) additional volumes in order to have the full set of books required to perform all plumbing applications,**
 - **IPC**
 - **IRC**
 - **IBC**
 - **IECC**
 - **IFGC**
 - **IMC**
 - **Plus NFPA 99 for Medical Gas systems**
- **“nobody” wants this change – the plumbing industry at large does not want a new or additional code regulating their work. This will cause an undo and unnecessary “unfunded mandate” to the industry**
- **one, namely the UPC which has served the industry and consumers very well is sufficient**
 - **Journeyman plumbers**
 - **Contractors**
 - **Engineers & designers of plumbing systems**
 - **MCA**
 - **PHCC**
 - **Trainers of apprentices & journeyman**
- **Cost – it is prohibitively expensive to have two (2) codes in play for all parties noted above. Bottom line, consumers will pay more...**
- **Hawaii State Statute mandates the use of the Uniform Plumbing Code. The Statute doesn't allow for adopting another code (IPC). Adopting two codes doesn't meet the intent of the Hawaii State Statute.**

As a reference, the International Code Council (ICC) recently proposed similar language in Washington State and it was soundly defeated by both the Washington State Building Code Council and the Washington State Legislature because the State Statute mandates the adoption of the Uniform Plumbing Code. To adopt the IPC as an alternate code, it would not comply with the Washington State Statute.

List of Supporting Information References (attached):

PUBLIC PROPOSAL FORM TO AMEND THE HAWAII STATE BUILDING CODES

Proposals must be submitted using this form and are to be submitted electronically to Council at state.bcc@hawaii.gov or mailed to the Department of Accounting & General Services, Administrative Services Office, 1151 Punchbowl Street, Room 414, Honolulu, Hawaii 96813