

**DRAFT**  
**State of Oregon**

<b>Agenda Item I.D.</b>
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**Building Codes Structures Board**

**Rescheduled meeting minutes**

**February 3, 2010**

**Members present:** Martin Brown, acting Chairman  
Chris Davis  
Terry Dieter  
Rene Gonzalez *(teleconference)*  
Eric McMullen  
Thomas Sjostrom  
Steven Wood

**Members absent:** Bruce Dobbs  
Bill Wellard

**Staff present:** Patrick Allen, administrator  
Chris Huntington, policy and technical services manager  
Richard Rogers, structural program chief  
Shane Sumption, code specialist  
Andrea Fogue, legislative and green building manager  
Jim Hanson, policy analyst  
Gabrielle Schiffer, Sustainability Coordinator  
Aeron Teverbaugh, green building policy analyst  
Dana Fischer, para technical specialist  
Debi Barnes-Woods, boards coordinator

**Guests Present:** John Caul, Oregon State Fire Marshal's Office  
James Bela, Oregon Earthquake Awareness  
Norm Nomie, City of Gresham  
Dan Carlson, City of Corvallis  
Elin Sheppard, Department of Administrative Services  
David Cohan, Northwest Energy Efficiency Alliance  
Reid Hart, Portland Energy Conservation Inc.  
Steve Hubbard, sales manager with Mutual Material Inc  
Mac Sheldon, Demilec USA

**I. Board business**

**A. Call to order**

Acting Chairman Martin Brown called the Building Codes Structures Board meeting to order at 9:30 a.m. The meeting was held at Building Codes Division, Conference Room "A," 1535 Edgewater Street NW, Salem, Oregon.

**B. Roll call**

Bruce Dobbs was absent excused. Bill Willard was absent unexcused.

**C. Approval of agenda and order of business**

Acting Chair Brown **RULED** the agenda approved.

**D. Approval of the December 9, 2009 regular board meeting minutes**  
Acting Chair Brown **RULED** the December 9, 2009 board meeting minutes approved.

**E. Date of the next regularly scheduled meeting**  
May 5, 2010

## **II. Public comment**

James Bela, president and founder of Earthquake Awareness, stated his confusion about the board appointment process and the election of Chair and Vice-chair.

Mr. Bela briefly discussed the rise and run of stairs code change at the national level.

## **III. Reports**

### **A. Building Codes Division report**

Manager of Policy and Technical Services Chris Huntington briefly discussed the content of the BCD Update packet of material.

HB 3462 has two major components related to inspector certification:

- The first Phase, (Phase 1) included establishing renewal periods and fees for certifications. The rule is expected to go into effect July 1, 2010 with the first renewal cycle beginning November 2010, then every 3 years.
- The second Phase (Phase II) authorizes the division to create a pilot program to develop specialized inspector certifications and training. A committee is currently being established.

House Bill 2950 relates to the membership of the new Construction Industry Energy Board. The first meeting is scheduled for Tuesday, February 23, 2010. The board packet will be posted to the division Web site two weeks prior to the meeting.

<http://www.cbs.state.or.us/external/bcd/boards/energy/energy.html#members>

Manager Huntington noted that SB 79 accomplishes three things:

- Creates a task force on energy performance scores
- Requires an increase in the energy efficiency of 10-25 percent in commercial structures and 10-15 percent in residential structures by 2012
- Authorizes the development of a voluntary “reach code” containing construction methods for achieving higher levels of energy efficiency than under the statewide codes, A reach code committee is being formed and will begin the code development process shortly.

Manager Huntington noted that the Solar Energy Code committee encountered some issues in its review. He added that the committee is only addressing the most common type of photovoltaic solar installations. Once the committee is through with its work, the Construction Industry Energy Board will be the board that will be reviewing and making recommendation on the code.

**IV. Communications**

**Update for Statewide Alternate Method OSSC/ORSC No. 09-01, Western Juniper – Naturally Durable Wood**

Structural Program Chief Richard Rogers explained that this is an informational item only.

**V. Appeals – None**

**VI. Unfinished business - None**

**VII. New business**

**A. Board review and provide recommendations for Oregon amendment relative to anchorage of bolts in concrete supporting wood plate sills/walls**

Structural Program Chief Rogers noted that Mr. Vandehey of the Structural Engineers Association of Oregon (SEAO) spoke at the public hearing in considering adoption of the 2010 Oregon Structural Specialty Code about recent research and testing conducted by the Structural Engineers Association of California (SEAOC) on the anchorage of bolts in concrete supporting wood plate sills/walls. Mr. Vandehey, in support of the hearings officer, asked the board to adopt the code requirements specific to anchorage of bolts in concrete supporting wood plate sills/walls.

Structural Program Chief Rogers said that in application, a fairly heavily loaded shear wall that would have traditionally required two anchors per stud bay now requires eight anchors per stud bay, which physically do not fit. The SEAOC test data shows that the yield strength of the wood sill plate connection governs over the strength of the concrete in the subject connections.

***Public comment:***

James Bela, president and founder of Oregon Earthquake Awareness, noted that the board should have a copy of the hearings officer's report. He also noted that he was on the hearing panel for this issue. Mr. Bela noted that this should have been an errata in the ACI Code instead of an amendment to the 2010 Oregon Structural Specialty Code.

**Motion by Terry Dieter** to concur with the hearings officer's recommendation, with the finding that the added cost, if any, is necessary to the health and safety of the occupants or the public or necessary to conserve scarce resources.

**Motion carried unanimously**

*(This item was amended, with a new memo posted to the division's Web site and mailed to board members prior to the meeting.)*

**B. Board review and provide recommendations for Oregon amendment relative to wineries**

Eric McMullen, representing the fire service industry noted that he had spoken to others in the fire service industry and concurs that wineries processing wine with more than a 16 percent alcohol by volume are properly classified as an "F-1" occupancy, but noted some concerns with an occupant load of 299 or less for the F-2 occupancy.

Acting Chair Brown asked if language could be added that any fire protection system be installed in accordance with Chapter 9 of the 2010 Oregon Structural Specialty Code to be sure that it is supervised and installed correctly.

**Motion by Terry Dieter** to concur with the hearings officer's recommendation in the amended memo, with the finding that the added cost, if any, is necessary to the health and safety of the occupants or the public or necessary to conserve scarce resources.

**Motion carried**

*Eric Mullen did not vote for the motion or against the motion*

**C. Board review and provide recommendations for Oregon amendment relative to Vapor Barriers**

Structural Program Chief Rogers noted that Jim Denno of the Oregon Office of Energy spoke at the public hearing for considering adoption of the 2010 Oregon Structural Specialty Code noting his concerns that the installation of the vapor barrier can easily be installed in the wrong location as current code language does not properly address the emerging technology of moving all or a portion of the insulation to the exterior of the building and the subsequent tightening of the exterior envelope. Mr. Denno, in support of the hearings officer, asked at the hearing that the board adopt the proposed code amendment.

***Public comment:***

Mac Sheldon, Demilec USA, spoke in opposition of the proposed code change submitting [documentation](#). Mr. Sheldon believes that the vapor retarders should be 70-percent and not proposed 50-percent in Zones 5 and 6.

***Board and staff comment:***

Manager Huntington noted that the proposal in the board packet has the support of the committee and the Oregon Department of Energy. The division is recommending going forward with what has been reviewed and supported.

Chair Brown noted that the information proposed by Mr. Sheldon is not enough information to support and put through to public hearing as a code change. The committee has not reviewed the new information submitted. Chair Brown is comfortable with supporting the staff recommendation.

Terry Dieter noted that his recommendation is also to move forward with the staff recommendation, although he thanked Mr. Sheldon for the documentation. Mr. Dieter advised Mr. Sheldon to bring his issue forward during the Mid-cycle code review process.

**Motion by Terry Dieter** to concur with the hearings officer's recommendations, with the findings that the added cost, if any, is necessary to the health and safety of the occupants or the public or necessary to conserve scarce resources.

**Motion carried unanimously**

**D. Board review and provide recommendations for adoption of the 2010 Oregon Energy Efficiency Specialty Code as well as proposed editorial modifications**

Manager Huntington noted that through last Legislative Session, the division was directed to adopt codes that result in a 15 to 25-percent increase in the energy efficiency of commercial buildings over current requirements. Because of that, the division worked with various stakeholders in the development of the 2010 Oregon Energy Efficiency Specialty Code.

Shane Sumption, code specialist, reviewed the proposed document chapter by chapter noting that additional editorial modifications were made, which resulted in sending an amended agenda and material to members prior to sending the document to ICC for publishing.

Additional editorial modifications:

- Section 202 Demising Element.
- Section 502.1.1 Insulation and fenestration criteria.
- Section 503.2.4.1 Thermostatic controls.
- Section 503.2.4.7 Zone isolation controls.
- Section 503.4.3.4 Part load controls.
- Section 503.4.5.4 Heat recovery for reheat and service water heating.
- Section 504.7.4 Heat Recovery.
- Section 505.2.4 Exterior lighting controls.

***Public comment:***

Steve Hubbard, sales manager with Mutual Material Inc., was opposed to the commercial mass wall envelop requirements found in table 502.1.2. of the proposed 2010 Oregon Energy Efficiency Specialty Code. If the code is adopted, Mr. Hubbard notes that it would drastically increase the insulation requirements

of masonry walls by about 200-percent. Mr. Hubbard noted that this would increase construction costs and further burden industry.

James Bela, Earthquake Awareness, noted that the demising element in Section 202 General Definitions is unclear and confusing. In Section 503.4.5, Requirements for complex mechanical systems serving multiple zones, Mr. Bela said there is no justification for the percent change. He also believed that building commissioning should be included in this code. Mr. Bela noted that Section 506, the Total Building Performance should not be deleted and replaced with one paragraph. He added that there has been no evidence that the “Whole Building Approach (WBA)” works.

David Cohan, Northwest Energy Efficiency Alliance, manager of codes and standards, is in support of the proposed energy code and the modifications. He noted that the division has done a tremendous job of retaining the Oregon amendments in the proposed code and meeting the energy efficiency savings.

Reid Hart, Portland Energy Conservation Inc., a member of the code committee who worked on the development of the code, spoke in support of the document. He noted that the proposed code does not burden building owners, developers or builders with excess expense and will provide energy savings for the State of Oregon.

***Board and staff comments:***

Terry Dieter was in favor of the proposed code.

Rene Gonzalez questioned whether the commercial mass wall envelop requirements are being addressed.

Mr. Sumption noted that the model code language was retained for that section and has been vetted at the National level.

**Motion by Terry Dieter** to approve the proposed code and editorial modifications as recommended by staff to be sent to public hearing with the finding that the added cost, if any, is necessary to the health and safety of the occupants or the public or necessary to conserve scarce resources.

**Motion carried unanimously**

**VII. Announcements – None**

**VIII. Adjournment**

Acting Chair Brown adjourned the meeting at 12:15. p.m.

Respectfully transcribed and submitted by,

Debi Barnes-Woods

Division Boards Coordinator