

**State of Oregon**  
**Final**

**Residential Structures Board**

**Special teleconference board meeting minutes**

**November 6, 2008**

**Members present:** Ray Miller, Chairman  
David DeHarpport, Vice-chair  
Scott Caufield *teleconference*  
Phil Damiano  
Mike Goodrich *teleconference*  
Kathryn Gray *teleconference*  
Douglas Lethin

**Members absent:** None

**Staff present:** Andrea Simmons, green building services and legislative affairs manager  
Chris Huntington, policy and technical services interim manager  
Richard Rogers, structural program chief  
Terry Swisher, chief plumbing inspector  
Matthew Barber, policy analyst  
Aeron Teverbaugh, policy analyst  
Gabrielle Schiffer, green building services coordinator  
Shauna Parker, rules coordinator  
Debi Barnes-Woods, division boards coordinator

**Guest present:** Jerry Henderson, Luxurious Plumbing and Heating

**I. Board business**

**A. Call to order**

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

**B. Roll call**

Scott Caufield, Mike Goodrich, and Kathryn Gray were connected by teleconference. Chairman Ray Miller, Vice-chair David DeHarpport, Phil Damiano, and Douglas Lethin were present in Conference Room A.

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

Chair Miller **RULED** the agenda and order of business approved.

**E. Date of the next meeting**

January 7, 2009

## II. New business

### **Board review and approve technical and scientific facts relating to the Statewide Alternate Method Ruling No. OPSC 08-05 for domestic hot water systems**

Chief Plumbing Inspector Terry Swisher explained that the division, in cooperation with Energy Trust of Oregon, requests that single-wall heat exchangers be allowed for solar hot water installations. He noted that the code provisions require a 30 psi relief valve to limit the solar heating loop pressure to no more than 30 psi when using a single-wall heat exchanger.

The Oregon State Plumbing Board approved the technical and scientific facts related to single-wall heat exchangers at its October 17, 2008 meeting. The plumbing board also recognized Standard SRCC OG 100-2006 and Standard SRCC OG 300-2008 for solar panels and solar hot water system listing. Because these are being proposed for residential structures, the division is asking the Residential Structures Board to approve the technical and scientific facts for the proposed alternate method.

Vice-chair DeHarpport clarified the recommendation in the memo for pressure relief valves used for solar hot water systems using single-wall heat exchangers and containing nontoxic heat transfer fluids or distilled water may be set above 30 psi but not to exceed 150 psi.

Jerry Henderson, Luxurious Plumbing and Heating, currently is on contract with Energy Trust of Oregon and was present and available to answer any questions.

**Motion by Scott Caufield** to approve the technical and scientific facts as listed in the board memo for this item relating to the Statewide Alternate Method No. OPSC 08-05.

Vice-chair DeHarpport asked to amend the motion to include that the single-wall heat exchangers be set above 30 psi and not to exceed 150 psi.

**Original motion amended by Scott Caufield accepting the amendment made by Vice-chair DeHarpport** to approve following technical and scientific facts relating to the Statewide Alternate Method Ruling No. OPSC 08-05:

- The use of nontoxic heat transfer fluids or distilled water, which provides adequate protection of the potable water with a single-wall heat exchanger; and
- Maintaining the operating pressure within the heat exchanger below the normal minimum operating pressure of the potable water system in the building provides an additional level of protection of the potable water system.

- Pressure relief valves used for solar hot water systems using single-wall heat exchangers and containing nontoxic heat transfer fluids or distilled water may be set above 30 psi ***and not to exceed 150 psi.***
- Many states allow single-wall heat exchangers for solar hot water systems including: Utah, Colorado, Idaho, Florida, North Carolina, Michigan, Alabama, Georgia, New York and Minnesota.

**Motion carried unanimously**

**VIII. Announcements - None**

**IX. Adjournment**

Chairman Miller adjourned the board meeting at 9:45 a.m.

Respectfully submitted by,  
Debi Barnes-Woods

Division Boards Coordinator