BSSC Annual Meeting

Burlingame, CA

March 8, 2016

Minutes

Participants

_BSSC Board of Direction_
Jim Sealy, Chair
Jim Cagley, Vice-Chair, Cagley & Associates
Susan Dowty, Secretary, ICC
Charlie Carter, At-Large, AISC (by telephone)
Jennifer Goupil, At-Large, ASCE
Fred Turner, At-Large, SSC

_BSSC Members and Guests_
Victor Azzi, Rack Manufacturers Institute
James Bela, Oregon Earthquake Awareness
David Bonneville, Degenkolb Engineers
Philip Caldwell, Schneider Electric
Pete Carrato, Bechtel Corporation
Kelly Cobeen, WJE
Jason Collins, PCS Structural Solutions
C.B. Crouse, AECOM
Sarah Deyhimi, 4Leaf
Dan Dolan, Washington State University
John Egan, SAGE Engineers (by telephone)
Gary Ehrlich, NAHB (by telephone)
Ron Hamburger, Simpson Gumpertz & Heger
Jim Harris, James Harris & Associates
Perry Haviland, AIA
John Hooper, Magnusson Klemencic Associates
Jason Krohn, PCI
Bret Lizundia, Rutherford & Chekene
Bonnie Manley, American Iron and Steel Institute
Opening

Jim Sealy convened the meeting at 8:00 a.m. PST, reviewed the agenda (see Attachment No. 1), conducted introductions and read the Institute anti-trust statement. Jim announced the inauguration of the 2020 Provisions cycle and extended thanks to David Bonneville, the 2015 cycle Provisions Update Committee Chair (PUC), and Ron Hamburger, the Project 17 Planning Committee Chair, for their efforts during the last cycle.

David Bonneville, reappointed as the new 2020 cycle PUC Chair, provided a presentation (see Attachment No. 2) on the new PUC, which consists of 23 members also appointed by the BSS Board to cover all seismic-related sub specialties. At the March 9 PUC meeting the next day, the Committee will finalize the procedures for developing the 2020 Provisions, including Parts 1, 2 and 3, and assemble at least eight Issue Teams. The teams will be based on the report Issues and Research Needs Identified During the Development of the NEHRP Recommended Seismic Provisions for New Buildings and Other Structures, recommendations from the BSSC Board Issues and Research Recommendations Advisory Committee, and input on issues solicited at the BSSC Colloquium in the afternoon. The 2020 cycle schedule will parallel the 2015 cycle schedule with the last member organization ballot to occur in 2019.

Ron Hamburger, appointed as the Project 17 Committee (P17C) Chair, provided a presentation (see Attachment No. 3) on Project 17, a two-year effort that is the third such project in a ten year cycle (‘97, ‘07 and ‘17) for planning design maps that will coordinate with the USGS hazard maps. Since the hazard map values have gone up and down during these cycles, issues with precision and uncertainty have been created. In balloting for their inclusion in ASCE 7-16, the USGS maps were initially rejected, before acceptance. With the slide presentation, Ron outlined the Project 17 objectives, planning phases, and four issues to be considered by four work groups under the P17C:

- Precision and Uncertainty: USGS provides precise map values that inappropriately correspond to design maps based on the weighted opinions by engineers with
uncertainties as high as 60 to 70%. The P17C work group needs to portray design values that bring about an appropriate level of precision.

- **Acceptable Risk:** The 1% collapse risk in 50 years is unsupportable, and collapse fragilities to get to the 1% are not realistic, off by an order of magnitude. The P17C work group needs to identify the real level of risk, especially, in high-risk areas on the country.

- **Multi-Point Spectra:** The Newmark spectra with short/long period responses do not work well, especially, in large earthquakes. The P17C work group will consider multiple periods based on work conducted in the PUC in the last cycle, while avoiding unwarranted high levels of precision.

- **Deterministic Caps:** Because the 1% collapse risk in 50 years is considered less safe in high risk areas, engineers design with caps based on deterministic earthquake scenarios. The P17C work group might need to determine new caps.

These issues apply to both new and existing buildings. Other significant issues that were identified in the report *Project 17 Preliminary Planning Report* during last cycle’s Project 17 planning phase, but will not be considered during Project 17, are earthquake duration, currently calibrated to a Mag. 6-7 event, and basin effects for Los Angeles, the Puget Sound and other regions. Other identified issues in the report will need further research by others.

Philip Schneider provided a presentation (See Attachment No. 4) on the CRSC (Code Research Support Committee) during which he described six proposals submitted to the International Code Council for consideration at the code hearings to be held April 17-26 in Louisville, KY.

Philip Schneider described four BSSC Board advisory committees to solicit BSSC member input on major 2020 cycle activities. Members were sought toward the end of 2015 and early this year. The committees are:

- **Procedural Advisory Committee:** Currently, in formation, this committee will advise the BSSC Board during reviews of ballots for adherence to procedures.

- **Issues and Research Recommendations Advisory Committee:** Jim Cagley, the Committee Chair, described four recommendations (see Attachment No. 5) developed with committee efforts that will be considered at the BSSC Colloquium and the PUC meeting the next day. The committee will likely sunset having accomplished its mission.

- **Project 17 Advisory Committee:** In a presentation (see Attachment No. 6) Jennifer Goupil, the Committee Chair, described that this is an ongoing effort to develop feedback to be provided to the P17C Chair.

- **BSSC Outreach Advisory Committee:** Perry Haviland, the Committee Chair, is working with Institute staffer Stephanie Stubbs on outreach initiatives including the recent workshop at the ASCE Structures Congress in Phoenix, advertising the BSSC Colloquium, and developing the BSSC webinar series, the first of which will occur on March 22 on site factors. The Committee will use these efforts and others to be developed to inform the public and make all structural engineers aware of BSSC efforts and products. David Bonneville added that BSSC-related presentations were delivered at major earthquake conferences during the last cycle, and will continue in this cycle. Mike Mahoney requested that the committee Coordinate with the FEMA Earthquake Technical Assistance Program.
By telephone and presentation (see Attachment No. 7), Steve McCabe, the new PUC NIST Liaison, described the new Executive Order 13717 (see Attachment No. 8), developed over an 18 month period, with the purpose of encouraging federal agencies to more seriously consider earthquake resistant requirements and create an improved environment for model building codes. However, no new funding has been appropriated to support the Executive Order. Philip Schneider described a letter sent by the Institute to the White House offering the services of the BSSC to assist the agencies in going beyond code requirements as encouraged by the Executive Order. Steve McCabe will influence the ICSSC (Interagency Committee on Seismic Safety in Construction) to conform to the Provisions based on Ron Hamburger’s comment that the International Building Code (IBC) might fall short of the Provisions, if the CRSC is not able to achieve full compliance at the International Code Council code hearings.

At 9:40 a.m., Jim Sealy adjourned the meeting.