Participants

Provisions Update Committee
Anindya Dutta, SGH (Chair)
Jim Malley, Degenkolb Engineers
Rafael Sabelli, Walter P. Moore
Kevin Aswegan, MKA
Jay Harris, NIST (Via Teleconference)
Rob Tovani, CSI Inc. (Via Teleconference)
Jason Collins, PCS Structural Solutions (Via Teleconference)
JQ Yuan, NIBS/BSSC (Via Teleconference)

1. CALL TO ORDER:

Anindya Dutta started the meeting at 9:00 a.m. with member introductions and a review of the Issue Group Topics that have been finalized in the last BSSC meeting in July, 2016.

2. APPROVAL OF MINUTES

Not Applicable.

3. REVIEW AND ISSUE GROUP ITEMS AND TASKS PRIOR TO NOVEMBER MEETING

It was decided that members will split into smaller groups and start reviewing available literature and research that may exist on the particular topic. Group to prepare a Powerpoint presentation that will touch on the various items and discuss the general direction that we are headed. Relevant discussions for the various issue items are as follows:
Issue Item #1: Possible adjustment of $C_S$ in the short period range by the square root of $(2R/\Omega_0 - 1)$

- Jim Malley provided a brief background of the origin of this issue
- Jay Harris mentioned that the ATC 84 document had presented a significant volume of work on seismic effects on short period structures
- Jim mentioned that Finley Charney was one of the prime contributors
- Jim to do a preliminary review of the document and create a few slides on this topic summarizing our intended action.

Issue Item #2 & #4: Reduction by $R$ only in the first mode and Application of a multi-degree-of-freedom factor

- Anindya led the discussion on this topic
- Since it felt that there is a considerable overlap between the two topics, they were discussed concurrently
- Anindya had earlier circulated three research papers on this topic. He summarized the findings from Dawn Lehman’s paper and briefly reviewed the thesis written by Priestley’s student
- There was a general consensus that the group should summarize the various recommendations such as reduction of modal response only in the first mode, only in the mode with the highest participation etc. before deciding on any particular direction.
- Anindya proposed to contact Dawn Lehman and Marvin Kowalsky. Rafael suggested that we also contact Eric Kalkan since he had earlier done some work in the same topic.
- Anindya and Kevin to conduct the literature review and summarize the findings in a Powerpoint presentation

Issue Item #3: Consideration (or reconsideration) of the appropriateness of current approaches for scaling to the results of an equivalent lateral force (ELF) analysis

- Members were not aware of any existing work on this topic
- Team to shortlist buildings (various types, height etc.) and check the ratio of Modal OTM to Equiv Static OTM to identify trends. Others items of interest are comparison of COM displacement and IS Drift.
- Anindya to identify models from the NIST moment frame study as well as the BRBF model from the PEER TBI study performed earlier. Kevin to look at shear wall models while Rafael to shorlist braced frame models
- Anindya to write up brief summary of effort in the Powerpoint presentation.

Issue Item #5: Modification of MRSA to better target a probability of collapse of 1 % in 50 years

- No specific action items at the current time
- Jim suggested that we could bring the topic up in the meeting and solicit recommendations from other committee members
Issue Item #6: Revisit triggers for Dynamic RSA in ASCE7 and realign with efforts of ATC 123

- Rafael who is a member of the ATC 123 team provided a brief overview of the efforts to date. Team is studying buildings with and without irregularities and quantifying effects in terms of collapse probabilities
- Rafael to circulate in-progress documents (submitted to Project Review Panel) amongst the group members
- Rafael to summarize possible course of action in a few Powerpoint slides.

General Topics

- Anindya to circulate Issue Item list amongst members and seek active cooperation by contributing in one or several group items

4. ADJOURNMENT

Meeting was adjourned around 11.15 a.m. Anindya to issue final assembled Powerpoint by 8 November and schedule a follow-up conference call on 11 November prior to the 30 November main BSSC meeting.