

ACEC/Caltrans Division of Engineering Services Structures Liaison Committee

MEETING MINUTES

DATE: January 23, 2015
TIME: 10:00 AM – 12:00 PM
MAIN LOCATION: California Department of Transportation
Division of Engineering Services
1801 30th Street, Room 102 (Farmers Market 1 Building, 1st Floor)
Sacramento, CA 95816
VIDEO CONFERENCE LOCATION: District 12 Office, Room 333
3337 Michelson Drive, Irvine

I. Call to Order

A. Self-introductions / Rotation of ACEC Representatives – See sign in sheets

Co-Chair: Mark Ashley

Co-Chair: Shira Rajendra (Richard Hartzell)

Secretary: Gary Antonucci

B. Changes to Agenda - None

C. Review Previous Meeting Minutes (10/24/2014)

Comments received.

II. Old Business

A. Technical Workshops:

1. Follow Up on PCI West Conference (November 2014) – (Sue Hida)

Mark Reno explained that Doug Mooradian may have overcommitted available number of seats so the setting was a little tight for people who wanted to attend. Richard Hartzell explained the workshop felt a little more like a presentation. ***Sue Hida will try to drive the 'workshop' aspect more so for next year.*** Jack Abcarius found that the presentations/seminars are on the PCI website.

2. Steel Bridge Forum February 4, 2015 (Lian Duan/Mark Reno)

Mark R estimates that total attendees are 40 CT/40 Consultant. Hold at 80 for now but will probably need to open up for more consultants (currently at 20). ***Richard to coordinate CT attendees. Mark R to submit final seat count to Dolores Valls by Jan 30.***

3. 2010 Specifications Training – Update (Jack Abcarius)

Jack submitted outline for training and received comments from previous attendees. Needs to coordinate the venue. To be webinar format. Looking for two locations (N CA and S CA). In addition, Jack suggests that local agencies also want the training. ***Mark R will work on setting up conference call to get input for meeting agenda and outline.*** Shawn Cullers will review again and provide additional feedback if necessary. Mark R said winter training to be set up in April, will Spec training goal to be in May? ***Mark R will follow up. Jack to coordinate support from Caltrans (Ruth Fernandez, Mike Keever).*** Karen Doll and Sharon (?) had done training previously. Ruth could be technical representative for the webinar.

4. Structures Design Build Seminars – Update (Nien Wang/Paul Chung)

Nien Wang gave update on status and asked for Paul Chung to provide updates. Paul has secured facilitator for Workshop. Several conference calls have been conducted with the team. Rob Stott and Paul suggest workshop format to be in form of two half day sessions. Hoping to have some time in March to have workshop, which will also allow for prep time. Location not yet set, potentially several State facilities in Sacramento (TransLab, Room 102, etc.) or D7 HQ or Southern Regional Lab. Internally, workshop participants have been nominated. 30 max participants (15 ACEC & 15 CT) to stay productive. Facilitator to send out survey to ACEC members only to learn the significance of certain topics and time allocated. **Nien to work with both Mark A and Mark R for selection of people.** Initial workshop focused on CT projects, second workshop could be geared towards procedures. Consider adding Design Build aspect to winter training workshop.

B. Caltrans Education Committee Presentation – (Richard Hartzell)

Richard said that ACEC will provide a topic and discuss dates (July 1 and beyond). If Mike/Sue/Dolores approve, Education committee can move forward with topics and presentations at educational meetings. Presentation is not to be a point of advertisement or services, only for interesting topics for presentation to engineers, basically info sharing. Presentations are set up as one hour, total three presentations per day and could vary in different locations. **Richard to provide Mark A with info on moving forward on a topic and meeting ideas.**

C. Structures Construction Winter Training – (Mark Ashley/Richard Hartzell)

Set for April 14 at Translab. **Mark R to send Mark A last year's flier as go-by. Mark R to contact regional staff to make sure April 14 is good for timing and space. Richard to work with Dave Keim to discuss whether workshop vs presentation format is best.**

III. Recurring Business

A. DES Updates (Shira Rajendra)

Shira informed group that budget was released on Jan 10. COS program workload will be flat statewide. CT workloads very flat for 15/16 year. Engineering services could go slightly below last year's budget. Reasoning is heavy staffing on toll bridge program and projects are winding down. Bridge/structure work are mainly CMIA and last 2/3 of projects are roadway type work which also contributes to slightly lower structure workload. Shira thinking that several projects will hit this year to help balance workload.

B. DES Updates: Memo to Designers (Sue Hida), Feedback on ACEC Review/Comments (Tom Ostrom), Technical Research (Tom Ostrom), IQA (Dolores Valls)

Sue discussed MTD 6-5 (Reinforced Concrete Pier Walls) and mentioned the memo will include seismic hook detail. Memo 20-7 (Seismic Design of Slab Bridges) posted. MTD 20-15 (Soil Liquefaction and Lateral Spreading Analysis Guidelines) posted. BDA 12-01 (Standard Details and Structural Design Information for CIDH Piles) posted in August (not mentioned at last meeting).

Tom Ostrom provided summary of: MTD 20-7 Seismic Design of Widening issued Oct 2014. MTD 20-18 (Seismic Design of Pier Walls and Short Columns) has received comments and is waiting to be released. MTD 20-18 to be re-written to separate and clarify Pier Walls and Short Columns. Mark Mahan leading re-write effort. Looking to send out in a month or two. Mark R found that lots of challenges from local projects led to need of being rewritten. Next memo is 20-20 (Seismic Design of Precast Girders).

Tom said the big issue for technical research is that the NEES program has been reworked (funding to support research – Shake Tables, Large Labs, etc.) to focus on new emphasis which is wind and multiple hazard. Steve Mahan has stepped down as chair of PEER. Several projects are already in the pipeline and cover all structural elements (seismic and non-seismic of structural components, ret walls, etc.) Annual research report is out and Tom will provide link to Richard for circulation.

Dolores mentioned that there is a dedicated IQA unit to review and QA guidelines for consistency. Quality Management plans will be required for future contracts.

C. CT Abut Update (Tom Ostrom)

Tom stated that CT Abut is not ready but several hurdles have been cleared. Due to Java security, several additional steps need to take place to secure software. Will be delayed an additional approx. 3 months. Several options for abutment design software but most everyone is anxiously waiting to get software. Final layout will be similar to CTBridge.

D. Caltrans New Seismic Screening Method (Tom Ostrom)

Tom summarized that project is moving forward but not able to be released until reviewed by Chief Engineer and Program Manager of Maintenance. Results delayed until their review is complete.

Tom also noted that liquefaction documentation is still in pipeline and waiting to be released. Currently liquefaction is handled case by case. Not enough guidance internally to provide process and support. Role is to be reevaluated and discuss what guidance is to be used. Liquefaction section in Geotech Manual is complete and available for review. Richard suggests Nien incorporate this issue and their case by case data in the Design/Build ACEC survey.

E. Project Development Oversight/Updates/Contracting Opportunities (Steve Altman, Vong Toan)

Shira (now a co-chair) covering for Vong. Several contracts should be out in next couple of months for building structures. New A&E contract on cost estimating support for bridge and other structures – should be out in next couple of months. During spring/early summer – in planning phases for statewide A&E contract for bridge design. Current contracts expiring in Fall. Also in planning stages for Professional and Technical services to maintain standard details, plans, and manuals and working on scope of services. Current contract in place but expiring in summer. Looking for advertisement in spring time. 10 D/B projects are already accounted for and on-going but a second round of projects has not been proposed. Mike expects call for projects in June. Candidates should be known around June for 2nd round of D/B Projects. Districts propose projects but want a mix of different types, HQ will work through and filter the list. Results should be known by next meeting.

F. Statewide ACEC Committee Update (Jack Abcarius)

Jack said meeting was supposed to be last week but was rescheduled for next week. Will report at next meeting.

IV. New Business

A. Caltrans-ACEC Structure Liaison Committee End of Year Report - (Mark Reno)

Mark R has not yet completed but is expected to be completed soon and incorporate comments from Mark A. Draft will be sent to Richard for CT to review, and ACEC to review. Mark A will continue to coordinate with co-chair.

B. Committee Goals for 2015 - (Mark Ashley/Richard Hartzell)

Continue to meet on quarterly basis. Continue with technical component and focus on educational and information dialogue. Continue to collaborate and increase roles of support. Continue with MTD

reviews, but partner more on two-way information sharing. Mike included that engineering community support would help improve addressing issues and continue to look at other issues which makes sense to collaborate. Mark R suggested CMGC could be another avenue and topic. Richard added a goal for next year would be to have consultants prepare and perform presentations as well as inviting consultants to presentations sessions when held at Translab. Mike posed a question to the committee, asking if anyone (consultants) is doing any BRiM/BIM modeling for structures. Jack had done this for SDGE but it was very specific and necessary for this case. Syed worked on a project for San Diego Airport. Mark A added that there is additional liability when providing 3D plans to contractor for a D/B project. Mike said that BIM is being looked into for the building side and less so for bridge. Shira mentioned that strategic plan for bridges and structures, when rolled out, will need input from consultants and engineering community of CA on some items. Shira expects a lot more collaboration to happen this upcoming year. Also a possibility is to develop the information sharing and collaboration through UC Bridge classes. Richard added that a goal could be to identify something in the strategic plan to work on objectives on the strategic direction. Dolores may have something ready to present by next meeting.

Richard reviewed ACEC Charter and noted the goal of the agency, being the ultimate deliverable, is a quality construction project. Suggests that we identify a goal to support the mission statement which is delivering a quality project. Nien added his support on BIM and reiterated its significance in delivering a quality project.

Mike added MTD updates: 1-8 recently posted (Advanced Planning Studies). Updates primarily to consider risk and ABC. MTD 1-29 (Structure Type Selection) should be posted soon (next week) on Type Selection and process. First pilot project selected using multi span ABC type project.

Majid Saraaf added some info on conferences: ABC conference Dec 2015. Abstracts due April 30 8th world conference on Joints Bearings. Conference in 2016 abstracts due April 16.

V. 2015 Meeting Schedule

~~January 23, 2015 (Friday)~~

~~April 24, 2015 (Friday)~~ Changed to May 1, 2015

July 24, 2015 (Friday)

October 23, 2015 (Friday)

Distribution:

Note: Names in Bold text indicate the attendees at this meeting.

Robert Pieplow, Caltrans, DES
Rob Stott, Caltrans, SC
Mike Keever, Caltrans, SD
Tom Ostrom, Caltrans, EQE
Sue Hida, Caltrans, SPI
Dolores Valls, Caltrans, SPI
Kevin Keady, Caltrans, SMI
Michael Johnson, Caltrans, SMI
Vong Toan, Caltrans, OSCM
Phil Stolarski, Caltrans, GS/METS
Richard Hartzell, Caltrans, OSFP
Sudhakar Vatti, Caltrans, OSFP
Shira Rajendra, Caltrans PPRM
Ruth Fernandez, Caltrans, SOE
John Babcock, Caltrans, SC
Esther Morris, Caltrans, A&E Office
Paul Chung, Caltrans, SD

Mark Reno, Quincy Engineering
Mark Ashley, TY Lin International
Jay Holombo, TY Lin International
Nien Wang, HNTB
Jim Frost, Kleinfelder/Simon Wong
Wei Koo, WKE
Jack Abcarius, NV5
Moe Amini, Hatch Mott MacDonald
Chandu Shenoy, NV5
John Woelfel, HNTB
Steve Tayanipour
Todd Goolkasian, Cornerstone Struct. Eng.
Shawn M. Cullers, Cornerstone Struct. Eng.
Matt Burgard, Drake Hagland
Majid Sarraf, TTG
Ayman Salama, TranSystems
Todd Lambert, TRC
Syed Kazmi, AECOM
Mike Bianucci, Mark Thomas & Company
Kevin Thompson, AECOM
Patricia Preston, Apex Civil Engineering
Walt LaFranchi, AECOM
Gary Antonucci, Moffatt & Nichol
Arash Monsefan, Moffatt & Nichol
Bob Consolacion, PB