

**WSDOT/ACEC Structures Team  
Minutes  
ACEC/WSDOT Bridge and Structures Committee  
10:00AM to 2:00PM  
1/09/2015  
Bridge and Structures Office  
7345 Linderson Way SW  
Tumwater**

**Attendance:**

WSDOT	Geoff Swett, P.E.,S.E.	WSDOT - Bridge Design (Co-Chair)	Yes
	Eric Schultz, P.E.	WSDOT - Bridge Design	Yes
	Jeri Bernstein, P.E., S.E.	Washington State Ferries	Yes
	Glen Scroggins, P.E, S.E.	WSDOT - Bridge Preservation	No
	Eric Ferluga, P.E.	WSDOT - Bridge Design	Yes
	Jed Bingle, P.E., S.E.	WSDOT - Bridge Design	Yes
	Mark Gaines, P.E	WSDOT - HQ Bridge Construction	Yes
ACEC	Jim Schettler, P.E.,S.E.	Jacobs Engineering (Co-Chair)	Yes
	Bill Elkey, P.E.,S.E.	Parsons	Yes
	Richard Patterson, P.E.,S.E.	Buckland & Taylor	No
	Chester Werts, P.E., S.E.	HDR	Yes
	Paul Guenther, P.E., S.E.	Ben Gerwick	Yes
	Paul Brallier, P.E.,S.E.	HNTB Corp.	Tel
	Matthew Lengyel, P.E.,S.E.	David Evans and Associates	Yes

**Meeting Began at 10 AM**

- **Reviewed and Approved 11/21/2014 Meeting Minutes**
  - Comment: Change#5 “ACEC” to “WSDOT/ACEC”
- **Introductions of Members**
  - Geoff had everyone introduce themselves to the team
- **Technical Presentation – Jed Bingle, PE, SE**
  - *“Incorporating Innovative Materials for Seismic Resilient Bridge Columns”*
    - Current Primary Seismic Performance Objective
    - Improve Seismic Design
    - Innovative Materials
    - Innovative Materials Bridge Research
    - SR 99 South Access – NB Off-Ramp

- Presentation will be posted to the WSDOT / ACEC Structures Committee Website by Geoff
- **Review Comments on Coleman Dock Draft GC / CM RFP Project Submitted by the Team**
  - See attached comments provided.
- **Review and Finalize Design Review Services Memo**
  - Request a Project Review link that leads to the “WSDOT / ACEC Structures Team Design Review Services” in pdf form
    - Few changes made to edited document during the meeting
    - Geoff will post the Design Review Services Memo to the WSDOT / ACEC Structures Committee Website
  - Develop Website to include “Ask a Question” Link.
  - Geoff will work off to Stephanie Williams to modify the WSDOT / ACEC website
  - All – how to communicate this services.
- **Durability of Structures Discussion (75 vs 100 year life)**
  - Team members to present findings from literature search on how durability, design life is addressed currently:
    - Durability Reports are one way
    - AASHTO is 75 year design life - load factors, concrete cover, permeability
    - 100 year design life: a number of issues need to be addressed, including Load Factors adjustments
    - A technical document was shared, SHRP 2 Project R19B, “Bridges for Service Life beyond 100 Years: Service Limit State Design, SHRP 2 & TRB, by Modjeski – Masters. Geoff Swett will e-mail the document link to the team. (COWI – 100 Year Service Life – Integrating Durability and Structural Design)
    - “International Federation for Structural Concrete Model Code for Service Life” is a resource.
    - “NCHRP 483 – Bridge Life-Cycle Cost Analysis” is a resource.
  - What aspect(s) of this subject does the committee want to take on?
    - The design elements that should be included in a 100 year design life criteria should be provided by the Owner as well as what considerations to take into account (i.e. load factors, concrete permeability, etc.)
    - A statement for the BDM could be created by this committee on how to address a longer design life (e.g. 100 year design life).
      - Bill Elkey, will create a draft paragraph for consideration of the committee.
      - Geoff Swett, will contact Bijan to confirm agreement to this action by the committee.
      - All – review BDM for an appropriate section to place this guidance.

➤ **Update on BDM ABC Chapter**

- Pat Gallagher, WSDOT, is championing the chapter. Once the section is draft, Geoff will distribute to the committee for review and comment.
- Goal is to review the next meeting.

● **Assign Action Items**

- Geoff Swett - Post the technical presentation by Jed Bingle, *"Incorporating Innovative Materials for Seismic Resilient Bridge Columns"* to the WSDOT / ACEC Structures Committee website.
- Geoff Swett – Post the *"WSDOT / ACEC Structures Team Design Review Services"* to the WSDOT / ACEC Structures Committee website.
- Geoff will work with Stephanie Williams to modify the WSDOT / ACEC website
- ALL – Think of how to better communicate the committee's Design Review Services
- Geoff Swett will e-mail the SHRP 2 Project R19B, "Bridges for Service Life beyond 100 Years: Service Limit State Design" link to the team.
- Bill Elkey, will create a draft paragraph for consideration of the committee for adding to the BDM regarding how to handle increased design life.
- Geoff Swett, will contact Bijan to confirm agreement to the action by the committee to address how to handle an increased design life.
- All – review BDM for an appropriate section to place the guidance on Design Life that will be developed by the committee.
- Jim Schettler will send the ABC memo to the new ACEC president Van Collins for distribution to ACEC members
- Geoff Swett to talk with the WSDOT Local Agency Program Contact for the Design Review services offered by the committee.
- Mark Gaines will provide a spec agenda item(s) for the committee to consider prior to the next meeting.
- Geoff Swett will distribute to the committee the BDM Chapter on ABC Construction if it is ready for review before the next meeting.
- Geoff Swett to select a chapter of the D/B BDM for the committee to review (Concrete, Steel or Substructure Chapter)

● **Next meeting agenda – new items**

- Post-earthquake evaluation discussion
- Special Provisions discussion
- ABC Chapter review
- D/B BDM – Review of either the Concrete, Steel, or Substructure chapter

The meeting adjourned at 2:00 pm