

MINUTES:

DRAFT

When: Wednesday, May 4, 2022

11:00 – 12:00 PM (PDT)

Where: Web-conference

I. There were 47 attendees to the WBPP regional web meeting. Attendees included:

Andrew Blower – Oregon DOT
Andrew Pack – Idaho DOT
Becky Nix – Utah DOT
Ben Reeve – Structural Technologies/VSL
Benoit Cordoba – Wyoming DOT
Bob Sward
Brandon Henning – Nevada DOT
Brent Toller – DS Brown
Brian Mintz – Phoscrete
Brian Pailes – Vector Corrosion Services
Carl Hendricks – Watcom County Washington
Catherine Johnson – Utah DOT
Chris Davis – Structural Technologies
Chris Higgins – Oregon State University
Chris Keegan – NCPP
Cody Parker – Utah DOT
Darlene Lane – NCPP
David Chase
Diana Hellman - Fujifilm
Dick Dunne – GPI
Earl Franks – New Mexico DOT
Eri Vokshi – Sika
Eric Buell – Utah DOT
Frank Dressman – Structural Technologies
Greg Heilman – Jet Filter System
Gregg Freeman - Kwikbond
Herb McDowell – Idaho DOT
Hooman Parvardeh – Bridge Intelligence
Jarrod Plummer – Montana DOT
Lorella Angelini – Angelini Consulting Services, LLC
Marisol Tsui-Chang – Olson Engineering
Mark Libby – HDR
Matt Harlan – David Evans and Associates
Nancy Huether - NCPP
Natallia Shanahan - VCS
Natasha Butler – Colorado DOT
Paul Jensen - JEC

Peter Seibert – UHPC Solutions
Remy Stern – Engineering Operations
Roman Peralta – Washington DOT
Sameer Telang – VCS
Sarah Sondag – Minnesota DOT
Scott Tyson – Structural Technologies
Thad Pinkerton – Utah DOT
Thomas Brady
Tim Woolery – Advanced Chemical Technologies
Travis Kinney – David Evans and Associates, Inc

II. Welcome/Introductions

Andrew welcomes everyone, takes roll call, and moves to accept minutes from the March meeting. There are no objections and minutes are accepted.

III. Working Group Updates

Local Agency Outreach – Travis Kinney

Still moving along with introduction to bridge preservation training for local agencies. The group has a lot of interest in what's happening with the new federal funding from the Bridge Formula Program (BFP). If any DOTs have information regarding how local agencies are being included and how the funds are being used for preservation, please reach out.

Bridge Deck Preservation – Sarah Sondag



BridgeDeckPresWG
_Update-Partnership

The group sent out a National Survey on Bridge Deck Sealer Practices and is hoping for an 80% response rate. The group is also looking for volunteer agencies for participation in the Bridge Deck Preservation Peer Exchange.

Bridge Inspection – Brandon Henning

At the most recent meeting, the group discussed inspection of local agency bridges as well as what inspection programs agencies are currently using.

Next meeting will be Wednesday May 11 at 10am Pacific. If you couldn't get on the previous call, please contact Brandon for the correct meeting link.

ITD Program – Brian Mintz

Presented at the Pacific Northwest Bridge conference and discussed 8 of 9 programs that are underway with ITD. Brian offered to break the presentation into two 15-minute segments for the

monthly meeting if WBPP is interested. Always looking for more participation from owners to demonstrate products.

Meeting is monthly on the second Thursday at 11AM Eastern. Contact Brian or Andrew Blower to be added to the meeting.

IV. Technical Presentation – Rehabilitation of Post Tensioning in Bridge Infrastructure - Brian Pailes, Vector Corrosion Services

Brian Pailes, the Principal Engineer for Vector Corrosion Services (VCS), gave a presentation on the deterioration and rehabilitation of post tensioning (PT) implemented in bridge infrastructure. Issues like grout voids, soft grout and corrosion have been a source of significant issues for bridge owners throughout North America. VCS has worked on many structures to assess these PT issues and develop effective repairs to stop and prevent further deterioration. Brian introduced the kinds of issues owners are facing with regards to PT durability and presented several rehabilitation strategies that can be used to extend the service life of PT tendons in an efficient and effective manner.

Brian Pailes, Ph.D., P.E., NACE CP Specialist
Principal Engineer

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We Save Structures™

Q&A

Matt Harlan: How do you calculate the pressure at which you're going to pump the material through?

Brian: Because we're utilizing the capillary force, the pressure is just a starting pressure, so we don't need to calculate it. It's only about 15-20 psi to get the product started and then the tendon draws the product along.

Chris Keegan: You mention bad grout. Is this the same grout that had high chlorides that we've seen previously?

Brian: That is one of the issues that we've seen, but we've also seen other issues separate from that including voiding and soft grout. A lot of the issues we see are contractor practice and materials.

Ben Reeve: I've heard that water will always find the way in, and the key is to let it out. Is there anything type of drain or other ideas to get the water out?

Brian: It's rare that you see standing water in the tendons. Mostly, we're seeing the moisture come from the grout. Keeping water out is very difficult, and draining water out is difficult. This impregnation material is durable against moisture exposure, in the event that moisture gets back in.

Andrew Blower: Can you speak to the risks of opening the ducts and how you mitigate those risks?

Brian: You don't want to disturb PT if you don't have to. We use a lot of NDT such as impact echo to identify issues before we open the ducts. If we do find an anomaly with NDT, we send in a borescope in first to be minimally invasive to verify voids. We try to limit openings and repair every opening with high quality epoxy. Once you do the impregnation, it can be verified at the opposite end. You typically see visual indication of staining as the product is impregnated.

V. **New Business:**

N/A

VI. **Administrative items/ New Business/ Current Budget/ Travel/ Future Meeting Locations**

Registration is now open for the August WBPP meeting (August 9-11th in Boise, ID). Please register as soon as possible, especially if your travel is being reimbursed.

Presentations are looking pretty good, but if there are any agencies or academics who would like to present, you are encouraged to reach out to Andrew, Chris, and Nancy.

If any directors are interested in traveling to an adjacent conference, please reach out to Andrew.

The updated treasury should be available this week.

Nancy is working on bringing the Bridge Management Systems Work Group back to life. She got a good response back from an earlier e-mail but would like to see if there are other states who would have interest in being a member or just listening in on the meeting.

The Bridge Preservation Outreach and Communications National Working Group wants to remind bridge practitioners to follow TSP-2 on LinkedIn.

<https://www.linkedin.com/company/tsp2-bridgepreservationpartnership>

WBPP Directorship:

- Steering Committee Directors (per the By-Laws):
 - Current
 - (4) State: Andrew Blower, Brandon Henning, Natasha Butler, Cody Parker
 - (1) Local: Carl Hendricks
 - (1) Academia: Chris Higgins
 - (2) Industry: Matt Harlan, Josh Sletten

- (1) At-Large: Andrew Pack (fill with State Agency)
 - (1) FHWA: Chris Long
- Officers:
 - Chair: Andrew Blower
 - State Vice Chair: Brandon Henning
 - Industry Vice Chair: Matt Harlan (3 year term)
 - Sec/Tres: Natasha Butler

(per the By-Laws: State Agency Officers move up after serving 1 year term in that position)

Adjourn

June 1st will be the next web meeting. 11:00 – 12:00 PM (PDT)