

10:00 A.M. Wednesday April 10<sup>th</sup>, 2019 – Cambridge Office

**Present:**

Kevin Williams (Chair)	Atlantic	Byron Nelson	Leland
Jason Sherwood	Atlantic	Kamran Derayeh	ArcelorMittal
Nick Spence	Atlantic	Dave Watson	Leland
Phil Carroll	Atlantic	Jim Evans	AK Steel
Scott MacRae	Armtec C.C.	Mike McGough	NCSPA
Ian Berry	Warner	Ray Wilcock	CSPI

**Absent:**

Riley Wilson	Atlantic	Mike Mounts	Valfilm
Randy McDonald	Atlantic	Derek Niezen	Ironside
Heba Ahmed	Armtec C.C.	Marc Warden	Hubbell
Bruce Matheson	Frontier		

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**1. Welcome and Opening Remarks**

Kevin Williams opened the meeting at 10:00 a.m. and welcomed everyone. Go-to-meeting was used for this meeting. Attendance was taken and is recorded above.

**2. Review Minutes from November 29<sup>th</sup>, 2018**

Minutes were reviewed and a motion for approval was made by **Kamran Derayeh**, second by **Dave Watson**.

**3. Outstanding Items to Complete**

**a) Bolt & Nut Research -MTQ (Ray)**

Meeting needs to be scheduled with David Bastien who is the Director of Structures. Met David in Ottawa at the TAC meetings on April 6<sup>th</sup>. Will email David and set up a session in summer / fall time frame.

Leland – ongoing development of the NZF3000. In the near future, Byron will introduce an insert to mitigate the spinning issue discussed previously.

#### **b) Rehabilitation Gap Analysis Literature Review update (Kevin)**

Both Ray & Kevin have completed edits on the first draft. Robert is in the process of working on the 2<sup>nd</sup> draft which will be reviewed by Kevin, Scott & Randy.

#### **c) MTO – Structural Plate Standards Advancement (Ray)**

Discussed briefly with Tony Merlo at the Ottawa TAC meeting. Will follow up and visit Tony and Magdy in May. Scott brought up the issue with errors and discrepancies with MTO tenders. Ray will address with Tony and Art Groenveld during the St. Catharines visit.

#### **d) Municipalities Standards Submission – move to PPC**

Done. For details, see PPC minutes.

#### **e) Galvalume – outstanding issues (Kamran)**

Issues outstanding are as follows:

- Finish up white paper with Pete Ault
- Update Technical Bulletin #1 adding Galvalume
- AMD – has all the necessary water chemistries for lab tests
- Get Pete Ault to sign off on water chemistries
- Once Pete signs off, lab tests will commence
- Ray to obtain 30 litres of water from Algonquin site in May

#### **f) Environmental: technical bulletin 8 (Kevin)**

Final draft to be reviewed by PPC and Kevin before publication.

#### **g) Environmental: steel versus concrete comparison – postpone (Kevin)**

Funding is the issue as quotes are in the \$50,000 US range. Postponed for now.

#### **h) Installed cost vs. span MITACS project – initiate (Kevin)**

The idea is to look at the increase in installed cost when moving from a 10 to 15-meter span. Cost of project would be \$7,500. Kevin will lead and look for a student / teacher at University of Waterloo.

#### **i) Coquihalla Highway buried bridge vs traditional bridge LCC study – initiate (Phil)**

Ray & Phil met with BCMOT & UBC. Both parties were positive, however determined that the scope was too broad and information (original costs & maintenance expense) may not be available. Phil suggested we limit the study to underpasses comparing buried to beam bridges. There is no maintenance on buried bridges, however there is resurfacing decks on beam bridges. A conference call will be set up in May with Gary Farnden (BCMOT), to determine if this makes sense and are in a position to provide the information. Phil to lead.

#### **j) MTO Kingston Polymer Laminated Site (Ray lead)**

Met with MTO Kingston who are satisfied with the results. Will present to Art Groenveld during the St. Catharines meeting.

#### **k) Green Handbook update (need Lead)**

Nick stated that he may be interested in taking the lead on this one, given future approval, etc. Jason suggested a retiree – Steve MacKinnon? Mike McGough was asked how the NCSPA handled their update. Mike lead and it took 2.5 years. They had over 50 changes including editorial, new products and deletions. They compiled a list, kept a repository on a spreadsheet and updated after each meeting. Kevin suggested we revisit this in the fall and move it to L/T items.

### **4. Long Term Items**

#### **a) ASTM A742 ballot (Ray)**

The updated specification has been published. Mike Mounts still needs to update the abrasion test method. Mike is planning to mirror the same abrasion test that has been proposed for the polymer coated structural plate specification, but wanted that specification to get approved first. In the meantime, Mike has initiated some testing to make sure some standard TRENCHCOAT coated steel samples meet the performance requirement that has been proposed in that specification.

#### **b) Thermopolymer plate in brackish/salt water – (Ray)**

There are three sites requiring a review (1 in BC, PQ & NS). MTQ are extremely interested in these sites as this is their number one concern. Ian stated that the plate placed in the St. Lawrence, PQ (placed between 2 rocks) showed abrasion at the corners, however thickness was intact. He suggested building a box, placing plate samples and NZF3000 bolts inside, which would eliminate abrasion and test water chemistries only. This will take place in September. BC and NS visits in August & September.

#### **c) Bolt & Nut Research – Higher abrasion resistant coatings (Leland lead)**

Dave stated there are a few top coating alternatives at the research stage.

## **5. Ongoing Items**

### **a) Kleskun Hills report – last year of 5-year project**

Discussed with Alberta Transport in March.

➤ [Next site visit in August 2019](#)

### **b) ASTM**

Mike McGough commented on the new Polymer Coated standard as follows:

- Repair language needs to be reworked
- Plate & Bolts – Jerry Silagyi is addressing the concerns and issues that were brought up at our meeting prior to proceeding with the main ballot

### **c) NCSPA update – Mike McGough**

1. Certification program - NCSPA vs NTPEP (AASHTO) competing programs. 52 of 63 NCSPA member plants are participating. 10 states want certification with 40 on the fence (NY is the key).
2. Seismic design project – AASHTO recommendation for the bridge code will be balloted in June
3. RFP has been sent out for Standard Designs of CSP Headwalls
4. Slip line project ongoing
5. College video is on the website – promoted to the universities

### **d) TRB – Long Span Buried Bridge Webinar (Q4 2019)**

Scheduled for 4<sup>th</sup> Q. Date TBD

### **e) CSA G401 update**

Next meeting is scheduled for May 21<sup>st</sup>. For details, please see word document containing updates. Publication in late 2019, early 2020.

### **f) AREMA**

Nothing to report.

### **g) CSCC (Canadian Steel Construction Council)**

Meeting held to discuss AISI decisions on funding.

#### **h) AISI News**

AMD has withdrawn from AISI due to the tariff issue. In turn AISI has withdrawn funding to all Canadian associations. To be discussed by the CSPI board in June.

#### **6. Discussion / New Business**

- a) University of Guelph project review – Transport of contaminated sediments. Committee reviewed and decided there was little benefit. Ray will respond to the university.
- b) Bay of Fundy & Cabot Trail Polymer coated sites – abrasion? To be discussed at the next meeting. Ray to provide pictures.

Past Issues:

- 1. Bruce brought up an issue with regards to Alberta Transportation. AT performs bridge inspections on all culverts / bridges >1500mm. The system does not appear to be uniform or standard and reports are not shared with manufacturers. Ray will discuss with AT during his next trip to Alberta, most likely in March 2019.
- 2. Bruce suggested we go to the colour Gray for all polymer laminated material as Black shows everything. Mike Mounts stated that in order to make a change 20 to 30 thousand lbs. would have to be run. Mike McGough stated that discussions have been held, however no consensus was achieved. Future discussion.

#### **7. Adjourn & Next Meeting**

The meeting was adjourned at **11:35 a.m.** Next meeting in PEI in June at the annual meeting.

Secretary  
Ray Wilcock