

*1:00 P.M. to 3:00 P.M. EST, Tuesday, November 14th, 2023
Delta Hotel by Marriott, Waterloo, ON*

Committee Attendance:

Paul Proctor (Chair)	Atlantic	Jim Evans	Cleveland Cliffs
Terry Dunn	Atlantic	Ian Berry (abs)	Warner
Pat Mayne	Atlantic	Mike Mounts	Valgroup
Scott MacRae	Armtec	Todd Gray	ACI
Darren Bauman (abs)	Armtec	Derek Niezen (abs)	Ironside
Bruce Matheson	Frontier	Mike Hook (abs)	MarMac
Jaclyn Pittman (abs)	Hubb-Cap	Jamie Martin (abs)	MarMac
Kamran Derayeh	AMD	Mike McGough (abs)	NCSPA
Byron Nelson	Leland	Ray Wilcock	CSPI
Dave Watson	Leland		

Members in Attendance:

Sam Mitra	Armtec	Greg Wilkinson	Atlantic
Jason Johnston	Armtec	Marcia Stinson	AMD
Roger Leger	Armtec	Lucas Cooper	AMD
Liz Bouchard	Armtec		

1. Welcome and Opening Remarks

Paul opened the meeting at 1:00 p.m. EST and welcomed everyone. Attendance was taken and is recorded above.

2. Review Minutes from October 4th, 2023, and Approve

Minutes were reviewed and a motion for approval was made by **Scott MacRae**, second by **Dave Watson** and was carried unanimously.

3. Project List Update

1) CSA G401

- Meeting held on June 19th with quorum of members attending.
- 93 comments were received. Dispositioned, last meeting held on August 22nd with 15 members attending.

- Format was changed to product / profiles (CSP & SPCS) from current functions (Materials, Fabrication).
- Posted for public review on October 11th – December 10th
- Last step – break SPCS into SP, DC, TLP

2) Environmental Product Declaration

- EPD meeting held with Stan Lipkowski (AMD) on July 5th.
- Meeting held with AGEKO who will be performing the review. CSA will be the program operator.
- EPD manufacturer's data compiled and submitted to Stan Lipkowski (AMD) on August 31st.
- LCA report completed and sent to AGEKO for critical review.
- Publication will be done by CSA.
- Signed agreement with Groupe AGEKO on October 13th. They indicated 4 – 6 weeks to complete.

EPD's when published will not be posted to the public website, will be for members only until the next discussion takes place in March.

3) DOT's CSP & Structural Plate Standards Advancement

Covered in the Strategic Planning session. Nothing to add for the Technical Committee.

4) Green Handbook

Commence after CSA G401 is complete.

- a) 2 Year Project
- b) Member participation
- c) Chapter by chapter

Discussion:

- Next steps end of 1st Q 2024, divide & conquer
- Paul suggested a series of teams to look after a few chapters simultaneously based upon knowledge and experience.
- Outsource the hydrology / hydraulics section
- Update, but have pull-outs that are referenced on an ongoing basis
- Survey DOT's / Consultants – what's important to them
- Follow G401 format? By product versus characteristic
- By June, have a map / plan
- Prior to, put together a sub committee of Paul, Terry, Pat, Scott, Darren, Bruce, Hubb-Cap, Kamran – hold meeting in April, Scott to share format
- Find PW of original word document, check with Dave Penny, Printers
- Plan for end of 2026 – to be discussed in June

5) SWM Committee discussion – from last TAC Meeting

Members to include thus far Paul, Terry, Scott, Bruce, Kamran, Pat, (Hubb-Cap?) Darren Bauman & Doug Leitch (Armtec).

Look at mastic being used for watertight joints as per Francois.

Discussion:

- Engage a local consultant to review the calculator from NCSPA
- Education on SWM for members is required
- Focus on capping tanks
- Consultants use calculators from manufacturers
- Put together a webinar for the task group by mid-January
- Terry to send Ray the CD
- Target Consultants

4. Member / Ongoing Items update

a) AMD – (Kamran)

No update.

b) Cleveland Cliffs – (Jim)

- Type II for SWM (Detention)
- Perforated Pipes – percolate on a stone base
- Overt issues (chlorides) – contamination of soil from salt above on pipes that were never protected is being looked at
- Solution is an easy one by using a membrane or plastic over the overt
- For SWM, design should include moving manholes off the lot onto grass where there is no salting

c) Valgroup – Lighter polymer laminate (Mike)

- Lighter polymer 5 mil, lighter galvanized 90G 100-year coatings to compete with small diameter concrete are now in ASTM A742. A929 to follow by end of 1st Q for 90G coating.
- Next step is to set up test sites in low abrasion areas.
- NCSPA will be putting together a promotional piece by April 2024

d) Leland - Bolt & Nut Research update (Byron / Dave)

No update.

e) Warner – alternative polymer coating update (Ian)

No update.

f) Ironside – machinery update (Derek)

No update.

g) ACI update (Todd)

- ACI has run the 5mil 90G material with good results
- Updating stenciling to differential the coating
- Limit to 600, 750, and 900mm

h) MarMac Joint Testing (10.8 psi) of non-rerolled ends (Mike)

- Lab testing shows good results on CSP only.
- No testing yet on SRP
- Mike Hook to hold a webinar for members in 1st Q of 2024

5. Other Associations - Updates

a) NCSPA update

Attended meeting on November 8th:

1. Visiting polymer sites – 50-year study to be published in 2024.
2. Visiting ALT2 sites – field data collection (original installation 1953)
 - a. Would like to look at our “Seeing is Believing Map”.
3. Testing of joining systems & couplers, flat band couplers with gaskets, seams & bulkhead welded.
4. Technical bulletin plans:
 - a. Slip Liner Guide
 - b. Large diameter caisson
5. Alternative coatings for galvanized bolts for SP
 - a. Buy America – can’t buy from Leland (license to USA Manufacturers')
 - b. New testing with Pete Ault
6. No studies on sound – Buried bridges versus traditional bridges

b) ASTM update

Attended meetings on November 6 - 7th:

A05-17 CSP

1. A742 – Lighter polymer and galvanize material (Valgroup)
 - a. G90, 5mil spiral rib polymer coating in low abrasion environments
2. A760 – Bolts - updating D series on fasteners (Contech)
3. A762 – Polymer up for 5-year review (NCSPA)
4. A807 – Installing SPCS 5-year review (Contech)
5. A929 – Adding lighter zinc coating (Worthington Steel)
6. A979 – Concrete paving & Linings (rehab) review (Lane)

A05-13 Hardware

1. Repair specs to be monitored annually.

c) TAC update / 2024 / Fall Conference & Meetings

TAC Conference in Vancouver BC (Sept 22nd – 25th)
Abstract submission opens in December – Any ideas?

Resiliency - write in accordance with the theme.

d) AASHTO / TRB / AREMA / AISI

AASHTO	ASTM harmonization Bridge, seismic update
TRB	Resiliency & Sustainability Webinar on Buried Bridges (Contech)
AREMA	Nil report
AISI	New director Dan Snyder

6. Discussion / Old / New Business

- a) Gorilla water tape or Flex Seal tape versus Denso Tape

Remove from next agenda.

- b) Bolt issue identified in Newfoundland and Labrador with salt seepage. This will be addressed in 2023.

Byron recommended to take photos of the head markings if visible. Will be visiting site on November 24th.

New Business

Alberta Transportation - Open Bottom Structures

- Cookie cutter design, headwalls, cross sectional drawings, standard drawings, this many boxes, arches, etc.
- Put together a package for consultants / DOT's.
- Mimic concrete
- L/T project
- Agenda item for next meeting

7. Adjourn & next meeting within 3 months, at the call of the Chair

The meeting was adjourned at **3:00pm** motioned by **Byron Nelson** and second by **Scott MacRae** and was carried unanimously. Next meeting will be early April 2024 via WEBEX.



Paul Proctor
Chair



Ray Wilcock
Executive Director