



August 15, 2024

Meeting Agenda – Concrete Technical Committee

Location: State Patrol Conference Room, Truax Office, Madison and MS Teams
Date: August 15, 2024
Time: 9:00 AM to 12:00 PM

Attendance

Committee Members:

WisDOT Members –

Bureau of Technical Services (BTS):

- ☐ Barry Paye – Director
- ☒ Erik Lyngdal – Chief Materials and Pavements Engineer
- ☒ Tirupan Mandal – Concrete Materials Unit Supervisor
- ☒ Peter Kemp – Pavement Unit Supervisor
- ☒ Aleksandra Graff – Concrete Engineer
- ☒ Adam Albers – Concrete Materials Lab Engineer
- ☐ *Vacant* – Pavement Policy and Research Engineer
- ☒ Adam Johnson – Independent Assurance Program Coordinator
- ☒ Etienne Nkongolo – Concrete Engineer Consultant (Behnke Materials)

Bureau of Project Development (BPD):

- ☒ Mark Zander – Construction Standards Engineer
- ☒ Craig Pringle – Construction Oversight Engineer

Bureau of Structures (BOS):

- ☐ Aaron Bonk – Chief Structures Design Engineer

Bureau of Aeronautics (BOA):

- ☒ Lucas Ward – Chief Airport Construction Standards

Regional Representatives:

- ☐ Alan Rommel – NE Region TSS Chief – Management Liaison
- ☒ Travis Mikshowsky – SW TSS Supervisor – TSS Liaison
- ☐ Matt Smith – SW Region Independent Assurance
- ☒ Bryton Meyer – SW Region Soils and Materials Engineer
- ☒ Nicole Roberts – SE Region Materials Engineer
- ☐ Eric D Hanson – SE Freeways Project Manager
- ☒ Jeff Bruesewitz – SE Freeways IA Specialist/Mega Material Engineer
- ☒ Brent Ferguson – NC Region Independent Assurance
- ☐ Devin Harings – NW Region Pavement Engineer
- ☐ Matt Bertucci – NE Region Pavement Engineer

FHWA Members –

- ☒ James Pforr – Pavement & Materials/Asset Management Engineer



Industry Members –

- ☐ *Vacant* – American Council of Engineering Companies Liaison
- ☒ Ed Anastas – A.W. Oakes
- ☐ Brian Luchene – BARD Materials
- ☒ Signe Reichelt – Behnke Materials
- ☒ Paul Mathe – Carew Concrete
- ☒ Barry Bohman – Chippewa Concrete Services
- ☐ David Meyer – Continental Cement Company
- ☒ Nicholas Bowers – Continental Cement Company
- ☐ Dave Stanke – Kraemer North America
- ☐ Brian Borowski – Lafarge/Holcim
- ☐ Mark LaLonde – LaLonde Contractors
- ☒ Brad Diener – Lunda Construction
- ☐ John McConahy – Mapei
- ☐ Scott Grams – Michels Road & Stone
- ☐ Tom Ptaschinski – Ptaschinski Construction Company
- ☐ Anna Romenesko – Sommers Construction
- ☒ James Palmer – St. Mary's Cement Company
- ☒ Benny Walker – Todds Redi-Mix Concrete
- ☒ Matt Trierweiler – Trierweiler Construction Company
- ☐ Heath Schopf – Vinton Construction Company
- ☒ Jackie Spoor – Wisconsin Concrete Pavement Association
- ☐ Leslie Ashauer – Wisconsin Concrete Pavement Association
- ☒ Cherish Schwenn – Wisconsin Ready Mixed Concrete Association
- ☐ Matt Grove – Wisconsin Transportation Builders Association
- ☐ David Burt – Zenith Tech
- ☐ Andrea Breen – Zignego Ready Mix
- ☐ Tony Zignego – Zignego Company

Resource Members (as needed) –

- ☐ Brian Boothby – BPD Construction Oversight and Automation Chief
- ☒ Laura Shadewald – BOS Structures Development Chief
- ☒ Myungook (MK) Kang – BTS Quality Assurance Supervisor
- ☒ Linette Rizos – BTS Quality Assurance and Sustainability Engineer
- ☒ Chad Hayes – BPD Construction Oversight Engineer
- ☐ Zach Dittberner – Michels Road & Stone
- ☒ Tom Sand – Vinton Concrete Construction

Guests –

- ☒ Michael Dickey – New Products Engineer

Agenda Items

1. Welcome and Introductions – T. Mandal (5 min)
 - Outgoings:
 - Kevin McMullen
 - Next Meeting: November 7, 2024



2. Review of Action Items – T. Mandal (10 min)
3. Charter Update – All (5 min)
 - No new goals sent for the charter.
4. MOTP Update – A. Albers (5 min)
 - No updates currently. The publishing will align with the CMM.
5. WHRP Research Updates – P. Kemp/ T. Mandal (10 min)
 - Field Investigation of Dowel and Tie Bar Placement
 - This project has been completed. Closeout presentation is on September 11th. Draft report under review.
 - Timely and Uniform Application of Curing Materials
 - This project has been completed. Closeout presentation is on August 19th. Draft report under review.
 - Chemistry and Performance of SCMs for Wisconsin Concrete Pavement
 - Researchers have requested an extension. The project is now expected to be completed in January 2025.
 - Alternative Conditioning Method to Calculate Formation Factor for Wisconsin Concrete Pavement
 - No updates currently. Project is on track.
 - Proactive Prevention of Pavement Buckling
 - No updates currently. Project is on track.
 - Optimization of Dowel Bars in Concrete Pavements
 - Project is set to start in October. The POC has requested the use of a paving contractor instead of a building contractor to construction of the field test pavement.
6. Specification Re-org – All
 - Review of Action Items from the CTC Spec Re-org Meeting on 07/29/2024
 1. BTS will check mix design AV requirements to make sure that grades or categories are not needed as an input.
 - AWP does not require input of grades or categories in the sample record or the mix design agency view.
 2. BTS will check cold weather temperature for barriers – Table 706.1.8-2
 - The standard specification 603.3.1.1(3) references 502 and 501.3.8.2, which allows for the application of this temperature spec to be used with barriers; the footnote referencing barrier will remain in Table 706.1.8-2.
 3. BTS will discuss the price adjustments and get back to the team – 706.1.7.2.1.1

- Non-conforming air content and temperature pay adjustment will be applied per subplot and not the entire lot.
- BTS discussed possibility to remove CMM guidance for slump pay adjustment in the future specification revision.
- Temperature QC Plan – 706.1.4.2.2.4(3)
 - For Categories I, VII, and VIII, new language was developed which requires contractor to submit a quality control plan that outlines the actions to control concrete temperature if the temperature at the point of placement exceeds 90F.
 - FHWA believes the threshold for implementing quality control temperature plan should be below 90F as it would be more effective. WCPA prefers 90F to remain as the starting point.
 - BTS is considering forming a task force to address the temperature QC plan after the spec reorg is complete that will address hot and cold weather concrete and rained on concrete.
 - BTS plans to draft guidance for field staff to begin planning for hot weather concreting when temperatures reach 80-85F.
- Concrete Disincentive Bid Items – Table 706.1.7-7
 - Bid item numbers for the disincentives were added to Items Table 706.1.7-7 from the administrative bid items in the CMM.
- Aggregate Gradation – Table 706.3-3
 - CMM guidance will be developed to clarify number of tests needed for overnight pours.

7. APL Process – T. Mandal/ J. Spoor (20 min)

- Our spec allows pre let source approval, but also project level source approval – but both options use the same APL process. The issue to clarify is if a project level approval can be used for other projects, as if it went through the pre let source approval since it's the same process.
- BTS is considering moving the APL process on the website from the pre-qualified products area to the quality acceptance area.
- WCPAs concern is that contractors secure the materials prior to bidding, previous APL lists are not available, and someone reviewing materials would not know if the material was on APL at the time of let.
- BTS should consider drafting guidance to clarify the modification and trial batching requirements for situations when a blended CF ash changes the blend ration but staying within the same class.



- Consider listing dates for when products fall off the list so that it's clearly documented when they can be used and not.
8. Plan for Pilot Specs – E. Lyngdal (10 min)
- BPD and FHWA will review the specs once the CTC are complete with its review.
 - There will be a new spec book that includes the reorganized sections that will be used on pilot projects. BTS expects May or June as the timeline for when that is complete.
 - Begin with one pilot project and then scale up from there with more pilots. Full implementation targeted for 2027.
9. Lucky Strike: Rise in workmanship issues on 2024 projects.
- Incorrect sawing location, rained on pavement, joint issues, etc.
 - BTS plans to assemble a document with all the issues that were seen this year for CTC to discuss on how this can be improved and potentially include them in the annual inspector training.

Review of Action Items

1. BTS to follow-up on sawcut depth standard drawing (d/3)
 - BTS and WCPA is still working on the drawing and have come to an initial agreement on how the drawing would represent the sawcut depth.
 - Add a note on 13C11 to reference 415.3.7.3 (2) which shows $\frac{1}{2}$ in construction tolerance for placement (changed from 1in) in addition to $\frac{1}{4}$ in tolerance from the bottom that is already on SDD 13C11 to avoid confusion when ordering dowel baskets.
2. Adjustment to Pay for Crack Repair - WCPA to send proposed revisions to WisDOT. WisDOT will review the proposed revisions and respond to WCPA.
 - No updates currently.
3. Send any proposed new goals for the charter to T. Mandal by August 1, 2024, so that the charter can be finalized by the CTC meeting in August.
 - No new goals proposed yet.

Upcoming Meetings

2024		
August 15, 2024	9:00 am to 12:00 pm	CTC
November 7, 2024	9:00 am to 12:00 pm	CTC