

MEETING MINUTES FROM JUNE 2, 2008 PCEF MEETING HELD AT THE DAVID L. LAWRENCE CONVENTION CENTER; PITTSBURGH, PA.

ITEM 1 - INTRODUCTIONS OF PCEF MEMBERS PRESENT @ 6:00 PM

This meeting was held in conjunction with the International Bridge Conference.

ITEM 2 – APPROVAL OF MINUTES OF AUGUST 28, 2007 MEETING

Heinrich Bonstedt motioned to approve the minutes of the August 28, 2007 meeting.

Claude Napier 2nd the motion. Motion passed.

ITEM 3- UPDATE ON CENTRAL ATLANTIC BRIDGE ASSOCIATES (CABA) FROM Heinrich Bonstedt, PCAP.

Mr. Bonstedt gave a presentation outline of a 1936 bridge replacement project. This was an old bascule bridge being replaced with a fixed high level structure. There was limited time available in the water due to environmental reasons. Precast concrete beams were the solution. The contractor and fabricator were allowed to modify the design and time savings were significant.

Mr. Bonstedt also noted that PCAP will eventually take the name of CABA. If there are any questions Mr. Bonstedt will be the contact.

ITEM 4- NATIONAL PERSPECTIVE ON ACCELERATED BRIDGE CONSTRUCTION BY Lou Triandafilou of FHWA.

This session was given by Lou Triandafilou who was substituting for Vasant Mistry to discuss the use of precast decks, piers etc. The State of Utah is a Lead State efficiently using an Accelerated Bridge Construction/Prefabricated Bridge Elements & Systems Program. Copy of a presentation will be posted on the FHWA FTP website.

ITEM 5- DESIGN PARAMETERS & STANDARDIZATION SUBCOMMITTEE REPORT BY Claude Napier of FHWA.

Mr. Napier discussed the following items being addressed by the group:

- New England has agreed to allow the use of PCEF Bulb-T's (bearing adjustment cautions were noted when substituting PCEF beams for New England bulb-Ts)
- Draped vs. debonded strands
- Recommendations are needed for checking cracking at ends of Bulb-T's
- Rebar projection from beams

- Clipping beams for skew
- Closure diaphragms for spans continuous for live load
- Standard splice details (lessons learned)
- Investigate use of lightweight concrete for longer spans
- Producer alternates
- Evaluate connection details, in particular, side-by-side Bulb-T's with full deck slab
- Look at bridge precast deck panels for accelerated bridge construction
- Need design recommendations for shear reinforcement
- Virginia DOT is still investigating excessive camber growth problems they are having on Bulb-T's.
- A CD-ROM of bulb-T shapes has been converted to a Word document
- The group plans to meet late July

In response to a question received from another region of the country, all states ship beams to projects after they achieve their 28-day strengths. MD requires 30-60 days storage prior to shipment, for continuous spans. The AASHTO LRFD bridge specifications require a 90-day curing period prior to shipment for continuous spans.

The group will also address various cylinder pile fabrication issues that can be standardized, as suggested by Bayshore Concrete Products.

ITEM 6- UPDATE ON FHWA HPC TECHNOLOGY DELIVERY TEAM BY Lou Triandafilou of FHWA.

The FHWA Team will continue to maintain a HPC website which contains such products as a guide for designers; surveys on HPC implementation; reference section, question and answer section and a calendar of events. This group also conducts seminars for State DOTs.

ITEM 7- RESULTS OF SURVEY ON STATE DOT PRACTICES FOR COATING P/S CONCRETE BEAMS & SLABS BY Joe Navarra of MDSHA.

Joe Navarra gave a short summary of type of coatings applications by a few State DOT's.

Coating of P/S Concrete Beams:

Pennsylvania	-	Epoxy resin on ends
Virginia	-	Epoxy resin on ends
West Virginia	-	Silicone sealer on ends

There was also mention of slipping problems with elastomeric bearings. Joe was unsure of reasons for slipping but did mention that several states were vulcanizing bearing pads to sole plates.

ITEM 8- FHWA TECHNICAL WORKING GROUP FOR HPC RESEARCH PROGRAM BY Lou Triandafilou of FHWA.

Mr. Triandafilou gave a research report on the “Bridge of the Future” which included:

- Use of light weight structural concrete
- Investigation of HPC deck behavior
- NDE for determination of strand and tendon corrosion
- Shear design of non-prestressed concrete members

Copy of the presentation will be posted on the FHWA FTP site.

ITEM 9- ACCELERATED/MODULAR BRIDGE CONSTRUCTION CONCEPTS IN WV BY Ben Beerman of WVDOT.

Mr. Beerman gave three examples of the use of Accelerated/Modular Bridge Construction techniques used by West Virginia DOT. A copy of his presentation will be posted on the FHWA FTP website.

ITEM 10- MATERIALS & CONSTRUCTION QC/QA SUBCOMMITTEE BY Robert Horwhat of PennDOT.

Mr. Horwhat discussed several items his group is working on, including:

- Prestressed concrete QC plan guidelines have been developed
- Precast concrete QC plan guidelines have been sent to 17 producers
- SCC testing suggestions are included in the recently adopted matrix.
- Repair procedures used by New England producers
- Prestressed concrete cylinder pile issues, to be coordinated with the Design Parameters and Standardization Subcommittee
- Totally precast, modular concrete bridge solutions

ITEM 11- QC/QA TESTING REQUIREMENTS FOR P/S CONCRETE BEAMS BY Calvin Karper of FHWA – Oklahoma Division.

Mr. Karper was concerned about some states’ independent assurance (IA) sampling programs for manufactured concrete products, and wanted to know more about other states’ programs. He found that some states are doing nothing in regard to IA sampling. IA beams were sampled for verification and accepted based on Contractor test results. He was interested in IA programs that the PCEF states were conducting.

Robert Horwhat noted that Penn DOT monitors all P/S and P/C concrete elements for the state. They allow the manufacturers to produce cylinders which are tested by 3rd party IA. MDSHA has no IA person in the plant, but does QA witnessing of tests run by the producers.

A copy of regulations regarding materials acceptance and independent assurance sampling is attached. This issue will be followed up for future resolution.

ITEM 12- RESULTS OF AASHTO BALLOTING ON P/S CONCRETE RELATED ISSUES

Lou Triandafilou noted that 4 or 5 items were balloted and that all were passed.

ITEM 13- COMMENTS ON RECENT CONCRETE CONFERENCES BY Lou Triandafilou of FHWA

Mr. Triandafilou mentions three conferences with the following comments:

- Virginia – excellent attendance with over 300 people
- Maryland – also well attended, by close to 300 people
- National Concrete Bridge Conference (St. Louis) – over 300 in attendance

ITEM 14- REVIEW OF PCEF ADOPTED STANDARDS

Mr. Triandafilou distributed a list of adopted standards and solicited comments on revisions. The list will be attached to the distribution of these minutes.

ITEM 15- OTHER ISSUES

Mr. Triandafilou noted that HPCBridge Views is now being distributed electronically, and encouraged attendees to subscribe by logging on to www.hpcbridgeviews.org. There were no complaints or comments regarding the newsletter.

ITEM 16- MEETING ADJOURNED

Meeting was adjourned at 10:00 pm.

Next meeting will be held in Ocean City, Maryland on Monday February 9, 2009, from 1-5 pm, preceding the Mid-Atlantic Quality Assurance Workshop.

PREPARED BY:

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