

SUBCOMMITTEE ON MATERIALS
Monday August 3, 2015 - 1:00 – 3:00 PM EST

TECHNICAL SECTION 4a
Rigid Pipe

I. Call to Order and Opening Remarks

II. Roll Call

- The following TC members were present: MO, PPI (friend of TS), AASHTO, OK, SC, AL, AMRL, PA, NV, VA, GA, WI, KS, FHWA, AK, NC, ME, RI, FL.

III. Approval of Technical Section Minutes

- Discussion:
 - o Page 3, editorial change needing to be made for PennDOT
- Motion made to approve minutes: KS, seconded by NC. All were in favor of approving minutes.

IV. Old Business

A. SOM Ballot Items

i. Mid-Year – Review

- 6 items were balloted. Very few negatives. There were a couple of negatives for criteria for water in a couple standards. This will be discussed in new business. There is a new standard, which will be discussed in the new task force report.

B. TS letter ballots

- This is a tech section ballot. There are some tech section ballots needing to be put out. This will be discussed under new business.

C. Task Force Reports

- RS 15. Tim Ruelke will give an update on this in new business.

V. New Business

A. Research Proposals

i. 20-7 Design Life Impacts Repairs of Cracks RCP - Status

- Rick Kreider: one submitted in spring, this was not selected. There is an option to resubmit this fall. If this TS feels strong about this research, this can be discussed further. PennDOT is doing inspections of 100 year concrete pipe. When cracks in pipe are found, they are challenged with what type of repair should be done. This will be discussed further on the mid-year call since we may not have enough time to get something together before Aug. 28th.

B. AMRL/CCRL Issues

- None

C. NCHRP Issues

- Amir: They have not received many problem statements from this TS. Make sure you review any research needing to be completed and bring those needs forward.
- D. Correspondence, calls, meetings
- i. Interim meeting discussion on the RXX-15 Standard and revisions
 - Tim Ruelke (FL) - received a lot of comments on RS-15. During the mid-year meeting, it was decided to work out these comments through the TS. This was started in 2013. Went out for fall ballot last year. Had several conference calls to work through the comments. Developed a revised version to address the comments and negatives. Had a lot of participation from industry. Worked up the last version for a TS ballot. Sent out to Tech Section ballot recently and closed two weeks ago. The chair was able to resolve one negative submitted by Louisiana prior to the meeting (retracted). Their comment was similar to a comment from NY where the State would have stricter acceptance limits but could apply the stricter limits within the State's specifications or policies. As a result, the standard is ready to go out for full ballot this fall. VA made a motion to move this standard to a full committee balloted, seconded by NC. All were in favor.
- E. Joint Industry - TS Chair Presentation: Weld Pull Test
- 1. SIDD vs AASHTO – PennDOT data review
 - 2. Informal test of pipe with tack welds
 - PennDOT: Review the current standards and the requirements included in them. PennDOT talked to ACPA offline. He was interested in validating whether the 0.50 Ft pull test strength requirement was sufficient to pass the proof load test. PennDOT had already conducted some testing (pull tests) from all approved manufacturers who weld their circumferential WWR on their QPL to validate that their weld procedures can meet the SIDD requirements with a 90PWL minimum. Initial tests failed to meet the requirements with the exception of one manufacturer. In working with their electrode consumable manufacturer, the manufacturers modified their weld procedures and eventually all producers met the 90PWL limit PennDOT implemented. Periodic verifications were made thereafter however Bob indicated that most manufacturers were not conducting their own testing. Bob Horwhat (PennDOT) and Kim Spahn (ACPA) did a presentation during this session regarding this. Testing performed to date (not all participating plants have conducted testing yet), would indicate that the 0.50Ft requirement is sufficient.
 - Bob Horwhat (PA) believes a test procedure is needed to ensure that the pull tests are conducted consistently. PennDOT can use their current test procedure to draft a draft AASHTO test procedure. There was discussion on this proposal.
 - AK DOT: To reduce variation, it is important to have test procedures.
 - A task force was put together to draft this standard, **2015-01**: PA, FL, AK, NC, ACPA (Kim Spahn, Erik Carleton, George Hahn. They will be tasked with developing a standard method for conducting the pull test across the welded circumferential wires.
- F. Proposed New Standards
- i. Standard Practice for Evaluation of Precast Concrete Drainage Products (V11.1)
 - 1. Ballot comments- Status
- G. Ballot comments – Impacted Standards
- i. Pull test criteria
 - ii. Water- Quality
 - The document titled TS 4a-Table of old business ballot items and proposed new items were discussed
 - o AR had a negative for mix water. Bob found his negative to be persuasive. PennDOT believes water quality requirements need to be established for concrete pipe and that these should, if possible, reference AASHTO standards rather than ASTM standards. The AASHTO T-26 (1979 – reconfirmed in 2008) standard is dated with several other dated references. A second task force was established to review and provide recommendations for updating the standard at which point it could be referenced in all appropriate TS 4a standards.
 - o This TS will be refer this concern to TS 3b. Mark Felag (RI) will take this to TS 3b. Task force, **2015-02** will consist of PA, ACPA (Josh Beakley), AR, FHWA (Dennis Divorak), and WV (Mike Mance).
- H. Carryover Queries
- These were able to be resolved prior to the meeting. All were very minor editorial revisions.

- I. Proposed New Task Forces
 - See above
- J. Standards Requiring Reconfirmation
 - None.
- K. SOM Ballot Items (including any ASTM changes)
 - None

VI. Open Discussion

- Josh Beakley: presented Rick Kreider with an award of appreciation.

VII. Adjourn

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