



**Technical Committee SAPL  
Technical Committee Meeting Agenda  
Working Session 13  
Wednesday, April 25, 2018 12:30PM – 2:00PM**

- 1) 12:30PM-12:40PM: Call to Order and Introductions**
- 2) 12:40PM-12:45PM: Review of Current Technical Committee Members (Insert membership list from NTPEP website)**
- 3) 12:45PM-1:00PM: Brief summary of the technical committee (for those states who do not participate in quarterly calls or who are new to NTPEP)**

Evaluation of trenchless technology for rehabilitation of storm water conveyance conduits. Material may be resinous or cementitious.

The NTPEP testing lab is TEC services from Georgia  
The SAPL program started accepting products in Oct 2017. Some work plan modifications were suggested by testing lab

- 4) 1:00PM-1:10PM: Update-Program Status**  
Mostly cementitious, 2 resinous products.

Only one vendor has submitted product as of Wednesday 4/18/18.

Milliken indicated they were waiting for the workplan to become final before sending material for testing.



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## **5) 1:10PM-1:30PM: Discussion of Proposed Work Plan changes**

ASTM D 695, Compression properties of rigid plastics. This test is being added.

Change C78 to C1609 for cementitious products was discussed. This will hopefully provide a stress/strain curve.

New York DOT indicated that this test was performed for cementitious SAPL per their request at the same testing lab that the SAPL NTPEP is using. Resulting graph did not create the desired outcome. The residual strength was not present as anticipated. Material does not have a residual strength. Testing lab suggested that a notched specimen may yield desirable curve.

Discussion about notching the specimen at the center point was discussed. Industry was concerned that this would create a modified test of C1609 and would yield lower values.

Testing lab recommended using C1609 testing apparatus with C78 test because C1609 testing apparatus eliminates effects of friction. C78 permits the use of C1609 testing apparatus. Decision was made to revert to C78 with use of testing apparatus from C1609. C78 test is lower cost to complete than C1609.

ASTM changed C 403 to C266 because of concerns from testing lab being able to test the sample prior to set-up time.

Changed submittal cycle from quarterly to continuously open.

Some test reporting changes were added to accommodate pooled fund research

C695 sample size input is needed from industry. Sprayroq will supply sample size suggestion.

Baseline test of concrete pipe is described in section 10 of the SAPL work plan was discussed.

Three-edge bearing test of 6-48" concrete pipes loaded to determine d load strength of the conduit. Then SAPL added at thicknesses as specified in the work plan. Three-edge bearing test is again applied to coated pipes. Sprayroq requested that thicknesses be reduced for resin material. Resin material is applied at a thinner thickness in practice than cementitious.

Discussion on proposed revised parallel plate testing under 10.4.3.



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**Norfolk Waterside Marriott**  
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Virginia DOT explained proposed testing revisions and why they desired the changes. Sprayroq requested a reduction in the SAPL thicknesses. Milliken indicated that cementitious materials will not be using the parallel plate test.

Industry expressed concern that a horizontal orientation of the sono-tube would be difficult because the tube may not support the product until it is cured for the parallel plate structural test. They felt a vertical application would be more practical given the low strength of the sonotube.

Discussion about how resulting data could be used for design methodology.

Question of what length the specimen needed to be was discussed.

Recommendation was to make the thicknesses from the D-load test the same as the parallel plate test for the resin SAPL material.

Virginia DOT indicated that more than one diameter and more than one thickness is required for interpolation for design. Proposing to design the liner as a fiberglass pipe.

Propose 36 and 48-inch specimens.

Draft work plan w/changes will be sent out after this meeting to committee. Comments will be due 30 days and final revised work plan will go to AASHTO ballot.

#### **6) 1:30PM-1:50PM: Industry and Testing Lab Concerns**

All vendor/lab communications through AASHTO, not lab.

Testing is for final product only. No modifying mix during testing.

#### **7) 1:50PM-1:55PM: Update on SAPL pooled funded research**

Brief description of the research was discussed.

Vendors participating in research will be required to have NTPEP material testing of their product.

Researcher has requested several curves from the material testing.

#### **8) 1:55PM-2:00PM: Review of Action Items for 2018**



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