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11/21/2002 08:34 PM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http://www11.myflorida.com/specificationsoffice/IndustryReview.htm

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File: D9380000 - Post-Tensioning Grout
Username: Mark Eicholtz
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Comments:

I had two comments for D938. The second comment actually deals more with DB460 where it references D938.

1. In 938-4.2, what is the purpose of the Density Tests if no test values are given?

2. In 938-4.2,Fluidity Test maximum of 30 seconds is okay immediately after mixing and probably okay for after 30 minutes of mixing in the laboratory test, but at the discharge end as referenced in Spec B460-11.4 for field tests the maximum really is not valid. If the fluidity test at the discharge end exceeds 30 seconds, what can be done to get it below 30 seconds. I recently had to deal with this issue on a PT project just south of Jacksonville. If you would like to discuss in more detail please give me a call. Also, DB460-11.3 should be more specific about when the fluidity test should be done "prior to beginning the injection process". Is the intent prior to each batch, each tendon, or each day? On the Jacksonville project the Contractor interpreted it to be each day. After much discussion we finally were able to get the Contractor to do it three times, first thing in the morning, at noon and in the early afternoon.

Thanks for your time.

"jeff" <jeff@royalparkbridge.com>

11/14/2002 10:17 AM

To: "Duane Brautigam" <duane.brautigam@dot.state.fl.us>
cc: "Clara Scott" <clara.scott@dot.state.fl.us>, <thomas.driscoll@dot.state.fl.us>, <raj@royalparkbridge.com>
Subject: Proposed specifications change- D938- Post-Tensioning Grout

Duane, I had a look at the proposed section 938 grout spec and have the following comments:

1. Section 938-4.2 Laboratory Test, Hardened Height Change @ 24 hours and 28 days; Do you want to add the 24 hour requirement of 0.0% to 0.1% as per PTI?
2. Section 938-5 Simulated Field High Temperature Fluidity Test, Section (d); Should this read "Record the time to circulate the grout through the duct. Then start the one hour test period after the duct is completely filled with grout. Constantly pump and recirculate the grout into the commercial grout mixer storage tank."?
3. Section 938-6 Accelerated Corrosion Test Method (ACTM), last sentence; Do you want to add the 1,000 hours @ 0.2 v potential (200 mv SCE) as per PTI?
4. Section 938-7.2 Vertical Applications; It says to test grout at the specified pressure of 100 psi (689 kPa). Usually the test pressure is variable so that you can simulate different vertical heights. The maximum pressure of the test is 100 psi. Do you want to make this pressure variable or fixed? PTI says 50 psi for a height of 6 to 100 feet and 0% bleed and that a vertical rise over 100 feet needs special consideration.
5. Section 938-7.3 Repair Applications; Don't you want to use the sanded grout (same grout approved for use in the tendon) on a larger void and the non-sanded grout for the lesser void?

Hope these comments help.

Jeff Carpenter, PE

URS Construction Services

Segmental Project Engineer

Royal Park Bridge Project