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Brignano/D04/Caltrans/CAGov**  
06/29/2009 11:14 AM

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Subject Dacromet Testing - Day 3

A little late, but this is a summary of the third day of Dacromet testing on Thursday 6/25/09.

Tuesday we did 97 signature curve tests. Wednesday 6/24/09, we did another 152. On Thursday, we did another 199. This completes most of the signature curve testing.

On Thursday, we did a couple of re-tests on samples we had done at the end of Wednesday 6/24/09. After looking at that data, we decided to do 20 additional tests on samples we had done at the end of Wednesday 6/24/09. At the end of the day, we also did a few more tests on assemblies with 0.012" overtapped nuts.

There is one series of samples for which we will probably have some more signature curve tests this week. We did not test the M30x85 assemblies because they were too short to work in the Skidmore. However, there is a different bushing that we did not use that will accept these shorter bolts. At the end of the day on Thursday, we left this for Daniel Hester to do sometime this week. Also, if Salim feels that he needs more signature curve data, we told him to let us know so we can get that data this week with Daniel Hester.

Basically, we did all the signature curves for the 0.018" overtapped material. We also did signature curves for the 0.012" overtapped material for the long, middle, and short bolts. We did testing with just a few assemblies with 0.008" overtapped material, which was enough to know that those options would not work.

We still have to do rocap testing. Because we took all of these assemblies well beyond 360 degrees almost to failure and had very few assemblies with threading issues after testing, we are confident that we will pass the later rocap testing. There were about 10 assemblies with threading issues and that works out to about 2%. Since we took them well past the stop point of the rocap test, they may not have had threading problems if we had stopped where the rocap test ends.

For this Tuesday's Dacromet meeting, Salim will not have much in the way of conclusions. For next week, he will have some rough relationships and ideas. With almost 450 data curves, he will have a lot of work to do. I asked him if the data would backup doing installation rotation and rocap testing per the contract. We may be able to get an early conclusion from him that doing things per the contract works. Later he can come up with the optimum solution on installation rotation and rocap testing, and we probably will not use that because it would deviate from the contract.



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----- Forwarded by Bob Brignano/D04/Caltrans/CAGov on 06/29/2009 09:41 AM -----

**Bob  
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v  
06/24/2009 06:30 PM

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