Meeting notes – July 12

- Meetings every Monday and Thursday at 2 pm in bdg 30 conf room.

- RTV material property from various batches used - we have CTE and some modulus info. We need tests on batch used for initial qual of new design where we passed 9 tubes. Can we back out an implied change in Poissons ration from modulus info? Pilar

- Create table showing tube, test it saw, whether it failed or not, what RTV batch, properties of that batch (we can add predicted stress from model eventually). Table should be ordered in chronologically or by test. Steve

- Check partial life test PMTs for more failures and resume test. Note cycle number. Dewey?

- Charles has not yet been able to pull a newly failed tube successfully to try and determine origin. One attempt cause PMT to crack further. Charles

- Get order of 20 additional improved flight PMTs past hurdles and request more NG PMTs fro Ham. Dave, Bob

- We think we are ready to lay out new failure and path charts. Michael A

- Attempt strain test glass potted in housing. For FEM model correlation Mike V, Kevin, Ryan, Steve

- Find out if curing RTV shrinkage could be causing additional or initial stress. Via curing test - maybe strain gauge test also shows that Steve

- Test 5 to 10 bare tubes to +45 to 40C. Ideally should be tubes we have rated and have pictures of. Pilar?

- Determine max delta T rate in orbit Carlton

- Start to pursue redesign options just in case. Meeting will happen this week. In the mean time Glenn and Carlton have been assign pursuit of Heater option. Kevin and Ryan will start to look at grooved housing with release agent so potting only adheres to glass. Mike A, many others

- Try to again rule out procedure handling as possible cause of new damage and failures. Ken

- 200-300 micron bubbles discovered in potting. Unlikely this causes stress concentration but check. Also make sure Ryan can run and modify all models as needed while Kevin is gone Kevin, Ryan
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