

RE: Meeting Invitation: LCLS-II CM Assembly Meeting

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Sent: Thursday, July 17, 2014 13:21

To: Tug T Arkan; Camille M Ginsburg

Hi Camille and Tug,

here some comments from my view from the couplers and RF measurements side:

- As Alexey mentioned already: do not underestimate the time needed for the RF measurements and HOM filter tuning. Before the VT and after string assembly. It cannot be done with the RF cables installed in the module, higher quality cables have to be used. I think 0.25d might be short.
- After filter tuning there are many steps in the assembly at the string and big care has to be taken not to hit the HOM couplers by accident and detune it again.
- Between the final acceptance of the coupler parts in the company and the string assembly to the cold mass are many handling steps: cleaning, test stand assembly, conditioning, disassembly, cleaning for the clean room again, assembly to the string, moving string out of the clean room, assemble tuner....(in our case even at different labs and companies). During this steps we faced many defects which have not been seen at the companies acceptance and are only noticed at the warm assembly step. Then it is late to change something on the cold part... That means extremely care has to be taken during all this handling steps.
- The above is probably true for other components.
- Advantage at Fermi is: the experienced core team is in place and will be part of the final team. A direct learning from the experienced people is possible.
- I agree with Tug: high turnover rate of techs is a risk
- Documentation is underestimated in Tugs presentation. When it is done by hand and later put into an electronic system manpower is needed. If typing directly into electronic system it distracts the people (my experience).
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So far for now

Best regards

Wolf-Dietrich

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