UITF QCM Meeting 2/8/18

Agenda:

1. Get everyone on the same page…
   1. 80K shield
   2. Shield line stays at 80K for foreseeable future
   3. LHe, hope to get it three times per year, for week-long duration but understand LCLS2 and CEBAF take priority
   4. Circle seal relief piped out of cave, Bubba added a low pressure circle seal relief at end of line, should still provide safe means to vent, and vacuum during transition from 4 to 2K…
2. Tasks that remain
   1. Cryo: shield line LN2 flow, test thermosiphon, LHe, controls, what else?
   2. RF: klystrons, controls, test into dummy load, connect to QCM
   3. RadCon: remaining carm installation, guidance on keep out areas above Cave1, approve OSP
   4. SSG: PSS interlocks to klystrons, other interlocks?
   5. EHS&Q: ODH assessment, review preliminary write-up, approve it
   6. Installation: sand into waveguide penetration, chimney over penetration
   7. SRF to mentor CIS in QCM commissioning procedure: radiation monitoring?
   8. Appreciation for hand-off of responsibilities…
3. Time table:
   1. Spring 2018: commission cold QCM with RF, no beam acceleration, compare achieved gradients to CMTF values. FE? 80K shield line ok? Commission lots of new hardware and software
   2. Still hoping to make MeV beam before end of FY18, 100nA max current, with PSS BCM, “one BCM mode”
   3. Windows of opportunity re: LCLS CM testing
4. Estimates to complete, time and money
   1. Cryo
   2. RF group
   3. Software
   4. SRF staff availability for initial test and hand holding
   5. EHS&Q OSP review QCM no beam acceleration, ODH formal approval
   6. SCMB approval of PSS BCM methodology, EES completes engineering documentation
   7. ACC/COO
5. Assorted
   1. 200kV gun is functional, but the photocathode chamber is now broken
   2. Beam from gun through entire 200kV beamline. Aside from the photocathode chamber, no hardware issues. keV beamline looks good
   3. Close to having BPMs?
   4. Mark and Larry have commissioned the 1497 MHz chopper cavities, big gas load but improving with time
   5. Mark is ready to commission the buncher with XkW SSA. Poelker to write the OSP, hope to test buncher by end of February
   6. Adderley is beginning the construction of the MeV beamline downstream of QCM, does the idea of more 80/20 bother anyone, Cryo?
   7. CIS will be focused on CEBAF work starting April (when SAD begins), installing new gun at CEBAF. Then will need to install another gun at UITF….
6. Look at the QCM OSP draft, discuss the “comments”