



Long Shut Down Directors Review

Test Lab and TLA

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SRF Fabrication, Processing, and Assembly (TLA)

- **Cavity processing**

- No new cavities can be processed, water rinsing only available
 - No chemistry available for cavities, unsure of expected date, maybe mid December if things go reasonably well (Horizontal EP and BCP are the priorities)
 - High Pressure Rinse – operational on temporary UPW system, not a problem

- **Fabrication**

- We can build things
 - Electron beam welder - operational
 - Brazing and heat treatment furnaces – operational
 - Temporary Weld Shop setup and functional, more to come in the spring
 - Tech and machine shop – operational
 - Cavity tuning – operational
 - Inspection & CMM - All standard equipment is functional and in use

- **Cryomodule Assembly**

- We can assemble cryomodules
 - Assembly rails are functional and supporting 12 GeV, more to come in the spring

SRF Chemistry and Clean Room Operations

In Progress

- **Ultrapure Water System**

- Leaks found today (15 November), scheduled to be completed and commissioned ~end of November but we need to evaluate after today for better estimate
- Jlab needs to develop a startup and commissioning plan (not our scope but we need to get it done) for the hot UPW system, experience to date has not left me with confidence in the quality of the vendor's work, date for operations middle of December ???

- **Acid System, Supply and Return**

- Jlab needs to develop a startup and commissioning plan, experience to date has not left me with confidence in the quality of the vendor's work, middle of December ???

- **Horizontal EP and Buffed Chemical Polish**

- Installed, gated by ultrapure water (UPW) and acid chilled water systems
- Planned to be in operation by ~ mid December contingent on UPW system

- **High Pressure Rinse Tool**

- Installed, running on temporary UPW system

- **Acid Etch and Parts Clean Hoods**

- Installed, gated by UPW system and Vendor rework
- Planned to be in operation by mid-December contingent on UPW system and Vendor repairs

Test Lab – CTF, CMTF, VTA

- Recovery operations ongoing
 - FM/construction critical systems close
 - Finalize some AC power by klystron, ~today
 - CMTF concrete work complete and drying
 - CMTF and VTA systems close to ready, Personnel Safety System (PSS), High Power RF, ODH will finalize when AC power by klystron is complete, ~1 week or less
- Conduct of Operations (COO) is pacing getting back to operations in the Test Lab
 - ~~– Documents in Mortenson hands for review and approval~~
 - **Signed 15 November, 2012 17:15**
- JLAB operations
 - Start up CTF 19 November, maybe a day slip?, 2 weeks support TL ops
 - Install C100 cryomodule in the CMTF 26 November
 - Cooldown CM in CMTF 5 December, HP RF 14 December, on track for 12 GeV and LSD needs

Test Lab – CTF, CMTF, VTA

- VTA
 - On track to be ready for cavity operations ~ mid December, let the CMTF and cryomodule get going and then VTA ops
 - Ready for F100 (Admiral rework) cavities when they are processed and ready for testing.

Test Lab Addition and Test Lab Summary

- Processing cavities by mid December
 - Turns on F100 and WFO cavity activities (Assuming F100 funding)
 - Waiting for UPW and acid infrastructure in TLA
- Fabrication and assembly up and going in TLA
 - June gets us back into the Test Lab and finish our assembly infrastructure but no critical items here
- Test Lab recovery has been ongoing and is on track to have our facilities ready for when we have access to them
 - Just finalized paper work to get us in the Test Lab
 - CTF gets going
 - We all plan on being ready to use the CTF when it is ready for use
- 12 GeV and LSD are not delayed
 - Tightest schedule is the F100 cryomodule build as we are still unsure of when we get to process cavities