

# Long Shutdown Integration Meeting

April 25, 2013

**F224-225, 10 am**

## MINUTES

**For presentations, please visit:**

[https://www.jlab.org/div\\_dept/directorate/proj\\_mgmt/lsd/index.html](https://www.jlab.org/div_dept/directorate/proj_mgmt/lsd/index.html)

### • **Intro**

F. Pilat

- LSD end of March progress completed
- C100 into tunnel today
- Cryomodule commissioning going well along with RF commissioning
- Scope contingency in LSD/Accelerator
- HD solenoid testing started
- Cryogenics plan to include 2K coldbox not in schedule
- Preparation for commissioning
  - Hot Checkout review today 1:30
  - Director Review in early June, charges being defined (Dry run May 23<sup>rd</sup>)

### • **LSD March progress**

D. Napier

- 11gev: Design changes done and tech note to purchase amplifiers, moving forward. Descoping cavities (big part of scope no longer have to do) – mark to send changes
- Deferred 6GeV maintenance – not mission critical items deferred (HCO and RF re-commissioning)
- Dogleg – specification delay not engineering delay
- SSG – Hall C ok with starting back up
- ICD elec tech – hall c flood recovery (hours?), can move out to next FY
- 12GeV ETC implement – progressed 3<sup>rd</sup> week in the month
- Cryogenics schedule (no resources) – restart, re-fridgeator dance

### • **LSDD Report**

M. Bickley

- See presentation for full details
- Daily coordination going well
- No safety issues
- First tunnel task scheduling meeting last week
- Making extra work for ourselves:
  - Field installation of Klaxons for 20A quads
  - Fiducialization of YRs not yet resolved
- CHL cooldown to 2K successful
- Daily linac lockups at 1600 (sweeps at 1530)
- Commissioning C100 in 1L22 began
- Finished cabling magnets in west arc (except interfering stacks)
- Hall D dewar filled with He

- ODH testing in South Linac
- Floor cutting and grouting at base of HD ramp complete
- Inst. Crew tunnel clean up – very effective!
  - Service buildings need clean up
- S&A, inst, RF work – lots of work
- B85 construction moving along and completion soon – moving back late June/early July
  - Windows being changed out now (mod to schedule), only adding a few days to the schedule
- Coming up...
  - C100-9 into 1L25 installation today
  - Ongoing work as usual, and commissioning swing shifts
- Randy is the upcoming LSDD
- Other discussions:
  - Service buildings need clean up
  - Uniformed labeling of equipment in the tunnel being looked into

- **Update on TLA milestones**

R. Yasky

- No update

- **Initial cryomodule test results**

M. Drury

- J. Preble presenting for M. Drury
- See presentation for full details
- 1L22 –Emax and Field emission measurements 95% done. Qo's start this evening
- HOM survey completed
- As of now – ahead of schedule by a week
- 1L24 - should be ready for testing next week
- 2L26 – installed and waiting for cooldown
- 1L25 – to be delivered Thursday
- 1L23 RF testing into shorts next week, circulators being installed this week
- See presentation for testing information on CMs
- NOTE: add operational EMax would be beneficial for those with administrative limits

- **Cryogenics update**

W. Oren

- HD solenoid testing (current in the magnet)
  - Fridge is holding the load for now
  - If not, then dewar transfers ready (takes ~2hours)
- CHL2 transfer line going along. Chasing vacuum right now. LN2 cooldown starting tomorrow and spinning turbines Monday. Moving along well
- Big concern: 2K coldbox controls for the older 2K coldbox (upgraded but not re-commissioned but will be during this downtime).
- ESR re-start plan being looked at – Oct 1<sup>st</sup> 4K Hall A and will review timeline next summer
- Hall C PS testing early July and will use the CHL1 to do this

- IF CM commissioning goes as planned and ends in Aug, then between that time and mid Nov – coldbox recommissioning. Working this schedule with Operations
- 5 refrigerator dance: CTF is one of them and needs maintenance, LN2 dewar at CTF is close to failure and need to replace Dec/January 2014. This is major work.
- CHL1 major maintenance and long down in FY14 to complete. This is maintenance that has been deferred and needs to get done

- **Accelerator scope contingency**

L. Harwood

- Shifted BT installation priorities (race track is #1, then Hall A beamline, then Hall D beamline, Tagger, Hall B&C beamlines are the last priority. All work on B&C beamlines has been suspended. This shifts work around, but affects S&A to give us potential work to defer.
- Adjusting scale of alignment was looked at (S/R and finishing final alignment of west arc). East arc is essentially done. West arc is what S&A is using as their fly wheel and this has been authorized to proceed with this work 2B. S/R – risk is higher so full 2B moving forward.
- Schedule Contingency is in Hall B &C beamline work deferred to FY14
- Lambertson still planned for FY13
- Beamlines to 1C, 2C, 3C04 girders, lambertson (beam stoppers, dumplets, PSS items) needed for accelerator and still planned for FY13

- **Around the room**

- 12 GeV accelerator L. Harwood
- 12 GeV physics G. Young
- Physics R. Ent, J. Gomez, W. Akers
- FEL G. Neil, R. Walker
- Operability S. Suhring, A. Freyberger
- Commissioning, CASA M. Spata
  - B-Team meetings start Tuesday, weekly meetings
  - With CASA work completed on horizontal extraction dipoles and final beamlines released to ME this week
  - Dogleg specification – being finalized for power supply ripple
- Engineering, Cryogenic W. Oren
  - B. Merz: smoke alarm in NLinac – FML looking at sensitivity settings,
  - Wiring for east and west arc is close to 100% completion, 1R done, 2R being wrapped up, transport recombiner still to be done
- Facilities (CHL pipe) B. Sperlazza
- ESH&Q M. Logue, D. Owen
  - While things generally are going well – the past week weeks (RAM material being moved without contacting RadCon, flooding in SRF), take the time to stay focused and don't want to lead to anything major
- PMI P. Collins, K. Krug