

Long Shutdown Status Meeting

Thursday, August 22, 2013

B207, 11:30 am

MINUTES

Presentations can be found at:

https://www.jlab.org/div_dept/directorate/proj_mgmt/lsd/presentations.html

(hyperlinks also provided below)

• Introduction

5'

F. Pilat

- [See presentation for full details](#)
- Status meeting today to present to Mont:
 - End of LSD
 - Hot Checkout
 - Start of beam commissioning
- Proposing to delay beginning of HCO to Sept 28 instead of Sept 18, start beam commissioning Nov 9th (originally Nov 4th). We would run through Thanksgiving to make up the lost days
- Decision drivers:
 - Cryogenics (2K cold box)
 - Systems on critical path (Cryomodules, RF, beam transport)
 - Use of pre-ops 12eV funding in 1QFY14
- Schedule risks:
 - FY13 budget, limited procurements, vacations
 - CY14 CR
- Mitigation:
 - Move non-critical (to Run-1) installation to January and/or summer 2014
 - Move start of CEBAF beam commissioning to January while starting the injector in December (plan b, but not preferred)
- Question:
 - If we agree to move HCO start up to Sep 28, should ARR part 2 be delayed?
- Plan:
 - Revisit status at the Sept 19th LSD meeting
 - Decide on Sept schedule progress
 - Process of lessons learned for LSD has started with PMI group
 - I am working on a proposal to develop high-level tools for lab wide coordination
 - Present a proposal to Lab leadership on Oct 15th
- Questions from group:
 - High-level tools for lab wide coordination – any additional information?
 - Other labs, Argonne, has a system that allows individuals schedules to feed a hub and information can be derived (bottoms up, top down), etc. Is this feasible here at the lab? Scheduling tools mostly
 - This has to be balanced against existing org chart and fit to the lab.
 - Take success stories from 6MSD and LSD efforts

- \$2M savings if commissioning is delayed to January (~\$160K per week), but 12GeV Pre-ops funding is available Oct 2013 (1QFY14).

- **August Progress, Systems on critical path**

10'

- **D. Napier**

- [See presentation for full details](#)
 - Discussion during meeting: Progress end of Sept – not a priority for PMI, but a close out. Do not implement 12gev re-baseline into this closeout.

- **Status of Cryogenics, Cryomodules, RF, Beam Transport and Remaining Scope**

15'

- **L. Harwood**

- [See presentation for full details](#)
 - SRF & RF:
 - NL: SRF & LLRF completes 9/12
 - SL: SRF completes (except 2L21) by 9/27
 - Discussion notes:
 - 2L21 has to be reconfigured. This is not a C100. CM that is being re-built is also not on schedule 2L10- 10/12th Sept. Not testing in TLab – taking straight to SL
 - Problems with cutler hammer controls for CHL2 4K cold box. Having shutdowns and error messages. Cutler hammer coming down to assist and can't reliably run. Will continue testing to identify any other issues
 - Beamlines
 - Race track complete 9/21. DC power will not have completed all checks, but many are part of HCO
 - Installation after 9/28 (parasitic to HCO or later):
 - Final alignment of transport channel and hall lines
 - HD tagger dump installation
 - HD beamline stoppers (will be installed end of Sept) – not needed before Run 1
 - Discussion note: can we do work in the tagger area with beam in the accelerator? – YES
 - Upstairs
 - DC power: trims ready for checks for run 1, units for higher passes still coming in.
 - Shunts are ready to go for run 1, need to complete
 - Box: arc 1 and 2 are here and being installed/tested/hooked-up.
 - Discussion notes:
 - arc 1 arrived 1st of July, interlock checks almost completed, now ready for power testing to dummy load, then load checks, then power up magnets
 - arc 2 box supply needs all tests
 - I&C: ready now for run 1
 - Safety: ready now

- **Proposed Schedule for HCO and Beam**

15'

- **A. Freyberger**

- [See presentation for full details \(SRF status and schedule \(as of mid-July\), Proposed path forward, Schedule, Circulators](#)
 - Expected date for C100 Circulators is mid Sept – tight schedule
 - Discussion notes:
 - All zones in north have been installed and commissioned, but need to be reinstalled.
 - Can start installing circulators in the south – next week
 - spares – 4 units spares available (maybe end of Sept)
 - OL04 must be done by Nov 1st (RF) and if Cryo 2K work is less than 6 weeks, then Drury can start on R100 opportunistically (needs 4 weeks)
 - Strains and stresses
 - Shifting to Sept 28th provides more time for: installation, alignment, software (completing HCO tools – needs a complete CED), HCO checklists in preparation for HCO
 - Cryo schedule/changes:
 - SL remain cold, more time to work SRF in the SLinac
 - NL stays at 2K longer, allowing SRF commissioning in the north to be completed
 - Better alignment for cryogenic resources
 - More strain on the 2014 winter SAD by deferring R100 commissioning

- **Discussion**

All

- **Conclusion**

5'

- **F. Pilat**

- Discussion/Note from Mont: Given the amount of scope and length of down, even delaying by days is an accomplishment. 18th of Sept is not a concrete date and shifting is not a problem. Beam operations has shown that they have taken charge/ownership of the schedule.