

Long Shutdown Integration Meeting

May 23, 2013

F224-225, 10 am

MINUTES

https://www.jlab.org/div_dept/directorate/proj_mgmt/lsd/index.html
Issues/Actions Noted in Red Font

• Intro

- Commissioning review (2 weeks from now)

F. Pilat

• LSDD Schedule “re-baseline”

- See presentation for full details
- Overall – 1 month behind schedule, but maintaining end date for end of down
- 12GeV beam transport and non-12GeV Hall ahead of schedule
- Behind schedule:
 - Acc maintenance – delays due to conflicts with labor resources with 12GeV
 - IC&S and Safety system group supported work behind schedule
 - Other work:
 - 12GeV DC power & 100weeks of errors to be corrected next month (known delays to be corrected in schedule)
- **Resource issues:**
 - Safety system group and IC&S group – overutilized due to acc maintenance planned work and 12GeV supported work,
 - **Dianne to review this workload, information in schedule, estimates for the two groups to validate the data first**
 - S&A, and MSINST/VAC techs are within 12GeV beam transport and can be worked out
 - 2 RF techs are gone and with the new number, this group is now overutilized.
- Changes implemented:
 - 12GeV ETC (not Hall B, C or Beam Transport)
 - **Dianne to check labor increase in July 2013 from new baseline for LSD – what is it**
 - Hall B and C will be done next month
 - Beam transport already had updated schedule in LSD

D. Napier

- **Beam transport – Dianne to check as additional scope added in ETC that needs to be pulled into LSD**
 - 11GeV Separator – descope of cavities
 - Hall C flood recovery – schedule shift for IC&S group supported work
 - Safety system group & DC power group supported activities shifted (Acc maintenance)
 - FEL admiral re-plan and buncher cavity work re-plan (VA funded work)
- Changes still needed:
 - Physics outside labor needed – W Akers:
 - Hall C schedule – H. Fenker reviewing and will send info for W. Oren to review
 - Hall A schedule is up next
 - Cryogenics Schedule (milestones) – W. Oren
 - 12GeV Hall B, C, and additional Beam transport scope ETC information
- End of May progress:
 - **Progress sheets go out to PMs May 30th and due back to PMI by 4 June**
 - LSD progress will be completed by COB June 10th pending 12GeV progress completion (planned for 30 May and 3 June with finalization a few days later)
- **LSDD report and status of accelerator maintenance S. Suhring**
 - See presentation for full details
 - PEPPo dismantling well underway
 - R100 upgrade work continuing. Much remains
 - CM name labels
 - SRF commissioning ongoing
 - Vacuum rebuild in 1S+ and 1R+ (including BE)
 - Cont. cable terminations and LCW pipe runs
 - Major MCC power outage completed
 - Mike Bevins is the LSDD now
 - Acc maintenance discussed during LSD schedule status presentation (D. Napier) – see notes above

- **Cryogenics schedule update & Manpower** **W. Oren**
 - CHL1 running and doing well. LN2 usage up (known problem)
 - CHL2 is shutdown and punchlist working with vendor (Linde), then will need to do a second run of 2 weeks to check that problems are fixed
 - Hall C cryo distribution review by engineering – engineering waiting on this from physics (drawings)
 - Hall D – started cooldown, insulation on He dewar (at plant) was spoiled and has to be warmed up. HD not ready for testing, so this is not a delay. Planning for cooldown 24 may
 - **Manpower – jan/feb S&A had problems. No staff added, hiring meetings in progress – concern for approval to hire. Instruments being repaired as well. OK b/c Hall C & D work delayed to the right. Concerns when HD will need S&A if it ramps up July/Aug as it conflicts with 12geV beam transport peaks for S&A.**
 - **RF techs down two people.**

- **Update on Commissioning** **A. Freyberger**
 - Matt Bickley presented for Arne: see presentation for full details
 - Pre-Commissioning Tasks presented with hotcheckout window highlighted (red window in presentation).
 - Right now all fits, but little float and a few concerns being reviewed:
 - C50-11 and R100 commissioning (2 weeks in plan – is this enough for a new hybrid system?)
 - Both currently planned for after hot checkout – does this fly? Can we move prior to hot checkout?
 - B. Merz comment: R100 RF system can be rung out prior to CM commissioning/cold. Once it is cold, 2 weeks is an optimistic estimate
 - Need to be devoted to hot checkout period and reduce other work going on during this time period (8/27 to 9/17)
 - Do we have enough time for He processing (might not be able to do this while plant is being worked on (no 2K LHe at this time))
 - First meeting with commissioning advisory board this afternoon.
 - Director's commissioning review June 6th and 7th. Close out after lunch on the 7th
 - June starts the weekly occurrence of system readiness reviews (readiness orientation is on wed May 29th after the 8am). Starting with facilities

- **TLA milestones** **R. Yasky**
 - No update

- **Cryomodule commissioning status M. Drury (or designee)**
 - Suhring presented for Drury: see presentation for full details
 - C100s
 - 1L22 SRF commissioning complete (except for microphonics)
 - 8 cavity run complete at 118.4MV
 - 1L24 – high power testing started 5/17.
 - Emax's in progress – 45MV from 1st 3 cavities
 - 2L26 installed and waiting for cooldown
 - 1L25 installed
 - C100-10 acceptance testing 75% complete
 - 1L26 in test cave now
 - Transfer line (done end of June)
 - C50s
 - 1L04 (C50-9) complete 52MV
 - 1L11 (C50-06) Complete Except for Eight Cavity Run
 - 2L16 (C50-02) Complete 34 MV
 - 2L07 (C50-05) Complete Except for Eight Cavity Run
 - 1L05 (C50-01) Complete Except for Eight Cavity Run
 - Preliminary:
 - 1L05 (C50-01) 46.0 MV
 - 1L06 (C50-04) 47.9 MV
 - 1L11 (C50-06) 48.0 MV
 - 2L07 (C50-05) 51.3 MV
 - Final:
 - 1L04 (C50-09) 52.3 MV
 - 2L16 (C50-02) 40.1 MV (Helium Process)
 - C20s
 - 1L07 started 5/21
 - 1L13 complete except for 8 cavity run
 - 1L14 starting Qo's
 - 2L02 complete – waiting data check
 - 2L17 complete except for 8 cavity run
 - 2L18 finishing up EMax's
 - Preliminary:
 - 1L13 31.3 MV
 - 2L02 33.3 MV
 - 2L17 37.9 MV
 - **Summary**
 - C100 testing on schedule
 - Recommissioning is on schedule
 - Overall about 30% complete
 - Overall about 500MV identified (in hand right now and continue to climb until we get to the 11GeV number)

- **Around the room**

- 12 GeV Accelerator L. Harwood
 - Mike Bevins – Beam Transport is on track & on schedule
 - Bill Merz
 - hooking up in the tunnel, progressing well and keeping up with Beam Transport
 - 2 contract electricians on board now
 - Two RF techs gone and looking for help in the meantime until posting can be done
 - HCO and PM work could be delayed, 11GeV & R100 also utilizes RF group
 - Spares being used as items are being identified. So broken items aren't getting benchtime. Running through spares
- 12 GeV Physics G. Young
 - Walt Akers:
 - Hall B waiting for contract selection for frame work
 - Hall A beam dumpet discussions in progress
- Physics R. Ent, J. Gomez, W. Akers
- FEL G. Neil, R. Walker
- Operability S. Suhring, A. Freyberger
- Commissioning, CASA M. Spata
- Engineering, Cryogenic W. Oren
- Facilities B. Sperlazza
 - MCC reno completion planned for 18 June
 - Counting House Renovation completion planned for end of June
 - Linac cooling project (12GeV zones only in service building) – mobilization next week and FM presenting at 8am meeting next Tuesday
 - TLA move in delayed
- ESH&Q M. Logue, D. Owen
 - Rick registry updated – Smith will coordinate
- PMI P. Collins, K. Krug
 - Will have continuing resolution for FY14