

Long Shutdown Integration Meeting

August 30, 2012

F224-225, 10:00 a.m.

MINUTES

- **Intro, Risk analysis** F. Pilat
 - Progress will be sent out today
 - LSDD rotations until end of year are scheduled
 - Risk registry has been updated. Steve Smith will report on it during this meeting (once a month) to this team. 3 major risks to track: (1) overall budget and restart of machine – Pilat; (2) machine warmup/cooldown – Oren/Suhring; (3) CHL header to cooldown – B.Sperlazza
 - 7 Sept to 5 Oct: Pilat will be on travel & D. Napier will be taking over as LSD coordinator

- **LSDD Report** R. Lauze
 - See presentation for full details
 - CHL transfer line seal PM progressing nicely
 - Arc 3 dipole installation going well
 - S&A 2B Slinac, 1R stands all going well
 - Tunnel penetration repair contractor on site
 - SRF vacuum recover going well
 - Chiller pump variable speed died & some water damage
 - Major rain event & flooding

- **Schedule, 3 months look-ahead** D. Napier
 - **Changes from 3 month look ahead**
 - FML:
 - Counting house kick off meeting next week – mobilization 2nd week of September
 - CHL cooling tower on track
 - 40MVA tie line completed and closed out today
 - Tunnel penetration starts today
 - B68 extension bid walk next week

- Hall A
 - Moeller 4th quad is a few weeks late
 - Hall B
 - Delay cables are wet and additional time to dry and test/clean them – still assessing work
 - Contract awarded for clamshell removal
 - CC done as planned
 - Moving Panel 2&3 today
 - CRs/NTFs:
 - All new ones added are just issues to be worked out – don't know if they are upcoming changes yet – D. Napier will remove and track separately

- **Halls, post-flood assessment and plans** W. Akers
 - Hall A: a few inches of water; minimal damage but still assessing
 - Hall B: ~7 inches of water; minimal damage, but still unknown damage still being assessed. Need to add manpower to retest delay cables. Pumping out tagger dump now and
 - Hall C: ~3 ft of water; large amount of damage – largest cost is the material handling equipment and power supplies.
 - Hall D: ~1/2 inches of water; no damage
 - Engineering systems in the halls (A&C)
 - 1 month impact in Hall C due to SOS shift (need JLG to do work and it was damaged).

- **Updates**
 - **Cryomodule maintenance/commissioning** M. Drury
 - He cannot make meeting today, but will report at next LSD. Not commissioning as the effort is not as large as commissioning
 - **Klystrons maintenance** B. Merz
 - See presentation for full details
 - Concerns for recovery is tube failure or other startup problems
 - ~338 tubes installed with ~15 crippled units
 - ~16 spare tubes (not including FEL).

- ~1 year to receive a new tube after award @40K each and @20K for repair
- Last shutdown – tubes were left unpowered for 4 months (LCW was off). Only a few tubes failed at startup.
- LSD: PSS system will become operational ~1 dec 2012.
- LSD Options: (1) early turn on HV to the tubes, with cathode current for pumping. No RF output. Issues listed. Option (2): wait for PSS system to be completed in Dec 2012. Issues listed
- Recommendations (for early checks): (1) test klystron spares on test stand – but need to coordinate with SRF as they are using the stand for HP. (2) spot check tubes in situ for vacuum problems with hipotter (does not pump). (3) remove a sample of tubes for testing on test stand
 - Start with (2) as this is the least invasive, then (1), then (3).
 - Wait until pss system is completed in dec 2012, doing any of these earlier doesn't buy you much
- **TLA operational** J. Preble
 - Update at next meeting
- **CTF/TLA/CMTF operational** E. Akers
 - Working with FML for a schedule. Limited access to bldg and coordination with contractor is needed.
 - Still planning for 15 Oct for CM testing to start
- **Cool-down planning** W. Oren
 - Meeting with cryo group early next week, then with broader audience 7 Sept.
- **Around the room**
- 12 GeV accelerator L. Harwood/C. Rode
 - 12geV rebaselining meeting next week. Not changing the schedules
- 12 GeV physics G. Young
- Physics R. Ent, J. Gomez, W. Akers
- FEL R. Legg
- Operability S. Suhring, A. Freyberger
- Commissioning, CASA M. Spata
- Engineering W. Oren
 - First 2 quarters – electrical manpower is low. Last quarter is tight as well as busy with work.

- Facilities
- ESH&Q
- PMI
- Integration

B. Sperlazza
M. Logue, D. Owen
P. Collins, K. Krug
D. Napier

- **Next meeting**

(F. Pilat)