

Long Shutdown Integration Meeting

THURSDAY September 12, 2013
F224-225, 10 am

MINUTES

- **LSD Status Report to Mont (Aug 22nd) Summary** **D. Owens**
 - **LSD Schedule & End Game**
 - Presentation to Mont on end game for the long shutdown
 - Schedule presented as of end of July
 - What's left to do – Leigh presented 12gev acc work remaining
 - 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.
 - Major decision drivers:
 - Cryogenics (2K cold box)
 - Systems on critical path (Cryomodules, RF, beam transport)
 - Use of pre-ops 12eV funding in 1QFY14
 - Move non-critical (to Run-1) installation to January and/or summer 2014
 - Mont's conclusion: 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.
 - End of LSD
 - Handoff to accelerator operations – Mont was impressed that Acc has taken ownership of schedule
 - Link to Arne's Commissioning Schedule & SAD Calendar:
 - SAD calendar: (<https://accweb.acc.jlab.org/calendar/>)
 - Commission plan : (http://opsweb.acc.jlab.org/TJ3/12GeV_CEBAF/HCO.html)
 - Will close out LSD schedule (end of Sept progress) in Oct for a clean handoff to engineering/acc, etc
 - Will not have 12gev re-baseline in handoff schedule
 - Jan and summer 2014 downs and work
 - Lessons learned and final presentation of work accomplished, etc?
 - Fulvia working lab-wide coordination tool for the future and planning party for LSD team and our efforts
 - Keep small subset group of LSD through...for continued work
 - 12GeV physics work, FEL, SRF work
 - Jan and Summer 2014 downs
 - Regroup with Mont end of Sept on where we are at
- **LSDD report** **E.Stallworth**
 - See presentation for full details
 - **Upcoming LSDD – Brian Freeman**

UPDATES

• Cryogenics, Staffing

W. Oren

- Arne presenting information for cryogenics/W. Oren
- Splitting linacs - cryogenics Sept 23rd
- Having issues with 2K cold box cold compressors – but believe it has been resolved as of last night (has been spun up)
- CHL2 signed off? No more tests or measurements to be made on cryo
 - 12GeV finalizing vendor contract, but CHL2 is ready
- Middle of PSS certification and done by this weekend
- SRF commissioning on hold during PSS certifications
- Sept 23rd to split cebaf is a good date b/c
 - 1/4CM fix (warmed up and now cool to 2K and still to commission)
 - Some more CMs (1L26 and ¼) to commission – then to cryogenics
 - 2L26 will be done after split
 - Critical path items – circulators – now resolved. Retuning went much faster and done!

• Cryomodules - update

M. Drury, J. Preble

- Almost done in NL – next week will be done
- Have hit the mark with almost 1300MV in NL
- Can provide 1.1GeV for NL without He Processing
- In the SL – more work to do
 - Finished up everything except the 5 C100s and 2L21 (not ready to cooldown yet – maybe soon) and C50 that will be installed next week
 - Will do SL C100s once RF guys are ready to hand over to SRF
 - C50 will be ready for testing in 2 to 2 1/2 weeks.
- He Processing – will do this when it fits in the schedule
- R100 commissioning to be done later as well

• RF, DC Power, Beam Transport

L. Harwood

- Power
 - RF: 2L26 testing into shorts – finished waveguide yesterday/day before
 - Magnet power:
 - trims coming in and getting installed
 - 1A ready for HCO in ~2 weeks; 2A in ~3 weeks; HA box is on the boat
 - Shunts essentially done
- Beam Transport
 - Left to do
 - Racetrack: E03 girders, LCW and beampipes in extraction, final align of SW matching and extraction, “45MeV” dump branch, arc 10 dumplet
 - After 9/28: complete transport channel, 2C & 3C dipole installation, HD tagger install, rad spoiler wall in NE corner
 - Discussion from team: Transport recombiner region – water system needs to be completed. Being installed by stacks, but PS are connected to strings of magnets. Merz is coordinating with installation group for this work.

- **Around the room**

- 12 GeV accelerator L. Harwood
 - Claus: 12GeV has an approved re-baseline and will be busy with rebaselining process
 - End of project is end of Sept 2017 with 18 months of schedule contingency
 - TPC is \$338, 28M increase.
 - 1 Sept is the implementation date
 - Bill Merz: All PS for run 1 are on site (trims , box supplies, etc). Software limits are in place for power consumption/demand. Hardware configuration so higher passes (quads, ps) not turned on. Would like to be in position to turn all on for checks.
- 12 GeV physics G. Young
- Physics R. Ent, J. Gomez, W. Akers
- FEL G. Neil, R. Walker
- Operability S. Suhring, A. Freyberger
 - Ron Lauze leading a team to check for jumpers/buggers in the system – spreadsheet with items and system owners are working on documentation and status of jumpers. Less than 25 and can be resolved before HCO
 - Started process of geographic reviews and looking at segments of the machine. Started with injector (Y. Wang). Information being reviewed
 - Next region is the North Linac (C. Hovater).
- Commissioning, CASA M. Spata
 - To complete lattice – approved final elevation of Hall B target system (discussion of raising it and have to change transport). We are currently at the lowest point. . Emails are circulating – just need to finalize
 - Javier will follow up with Latifa/Volker
- Engineering, Cryogenic W. Oren
- Facilities B. Sperlazza
 - CARMS/RBMS – meeting in Oct with FML & Radcon to coordinate and review work
 - Water in the injector area. Coming from malfunctioning sump pump. Changed out parts and changed the switch and electrical. Seems like lower unit. Parts on order and will change out in a day or two.
 - With dehumidifier working now – it is pumping more water.
 - FML is checking this daily and in the afternoon
 - Hall D Tagger smoke exhaust system – on and off during rain storms – rain is coming in. Pipe is about 14ft length by 14in diameter. About mid point there is a connection and water comes in when ground is saturated and it's raining. Putting sleeve in pipe and grout to create a new seal. Today putting bottom plates in and tomorrow – crane from sleeve and grout.
 - B87 renovation – working on award.
 - A/C linac finished, counting house done (1st floor doors not part of renovation – but FML shop is reviewing it). Looking at renovating 2nd floor. Wall in place to segregate technical and user space. No plans yet and no funding go forward yet, just working plans.
 - Hurricane season coming up – there is a package to put in water tight doors and automatic flood gates – funding rejected. Only thing able to do is a monitoring system in place. W Akers is the lead on this. Halls changed Hall B, A, and C flood gates – they created ones that are half the size and only one

person with a fork truck can put this in. B and C gaskets around pedestrian doors were replaced.

- ESH&Q M. Logue, D. Owen, S. Smith
 - LCW injury – installing filters on last set. Reached to turn water on, seal turned loose and hit elbow. Sore elbow, stitches, surgery. On restricted work now. Could have been worse.
- PMI P. Collins, K. Krug