

# Long Shutdown Schedule Development Status

5 April 2012

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**COUNTDOWN TO START OF DOWN:**

**44 days**

- Overall Timeline to Baseline
- Outstanding Action Items

# Overall Timeline to Baseline

- Schedule Validation Process – Mid Feb to End of March '12 (need all revisions by April 02...)
- Resource Leveling Process – starts April 9<sup>th</sup>
- Baseline & Start of Change Control Process - End of April '12

# Schedule Validation Reviews

## Outstanding Actions

- Hall A 16 Feb
- FML 28 Feb
- Hall B 9 March
- FEL 14 March
- Hall D 20 March
- Hall C 21 March
- PEPPo & Acc 23 March
- 12GeV Acc 28 March
- -----→ baseline
- 12 GeV Hall C 10 April
- 12 GeV Hall B 29 May

# Hall A

## (Revised Schedule done 9 March)

1. Compton design “mini-review” (Ed Folts)
  - Compton can fiducialization
  - Compton alignment task (beamline) adjustments
  - Compton BPM special can (I&C review)

**No effect on schedule per email received 27 March.**

**Complete**

# FML

## (Revised Schedule done 7 March)

- Tunnel Dehumidifier replacements – locations & durations (possible beamline impacts for some locations). (B. Sperlazza)
- Tunnel penetration repair – location/WG prototype & duration. (B. Sperlazza)

**New schedule received 27 March. These changes are not needed for resource leveling effort to start.**

# Hall B

## (Revised Schedule sent 19 March)

- Identify Hot work permit needs (D. Tilles/Pat Collins)
- Add safety system group (SSG) work (D. Tilles/K. Mahoney)
- Call out Jan 2013 survey network work in the schedule (line item). (D. Tilles)
- Add electrical techs for the cable removal. (D. Tilles)
- Add RadCon resources (D. Tilles/K. Welch)
- Remove 12GeV items (D. Tilles/W. Akers)

**New schedule received, Primavera updated 21 March.  
Complete.**

# FEL

## (Revised Schedule done 27 March)

Deleted Dark Light, new schedule update received 28 March. Schedule needs to be reviewed.



# Hall D

## (New Schedule sent to Akers 27 March)

- Validate Survey & Alignment estimates/durations throughout the schedule. (T. Carstens/C. Curtis)
- Add fiducializations throughout schedule (T. Carstens/C. Curtis)
- Add alignment of tagger stands (T. Carstens/C. Curtis)
- Add Control network surveys (in Hall & Tagger to Hall D) (T. Carstens/C. Curtis)
- Coordinate power outages. (T. Carstens/B. Merz)
- Break out explicitly non-Hall D labor. (P. Collins/H. Derby)
- Correctly bound the schedule for float calculations. (T. Carstens, T. Whitlatch, P. Collins)
- Remove all cryo labor but not activities. (T. Carstens)
- Remove mech vac tech labor from activities 26, 50, 52, 55 though 58, and 60. (T. Carstens)
- Identify FML labor & activity 29 from elec tech to FML. (T. Carstens)
- Coordinate beam dump activities. (T. Carstens, L. Harwood, T. Whitlatch)

**New Schedule sent to Akers 27 March & being revised.**

# Hall C

(New Schedule done 22 March)

1. MSINST work?

**Original validation items completed.**

# Accelerator/Peppo (revision in process)

- May 18<sup>th</sup> maintenance activities are placeholders for now (for the date) – will be scheduled by Steve (S. Suhring)
- Folding cryogenic plan in one it is ready from the cryo group (W. Oren/PMI/S. Suhring)
- Cryomodule removal tasks – S&A should not be there for removal tasks. (S. Suhring)
- OL03 and OL04 installation – breakout S&A activities for a separate line item. (S. Suhring)
- PEPPo – May 21 & 22 – S&A support needed as a separate line item (S. Suhring)
- Network survey is covered in 12GeV acc for the racetrack so can be removed (S. Suhring)
- Waveguide as founds – C. Curtis to discuss with A. Kimber for how to do this, then break out with S&A activities. (this is currently summed up with the three weeks of installation). (S. Suhring/C. Curtis)
- Mech tech – mech inst tech classifications (S. Suhring/N. Wilson)
- Emptying penetrations (?) what is needed. (S. Suhring/N. Wilson)
- WBS needed for (example): (S. Suhring)
  - Linac maintenance
  - Cryomodule work
- Need to break elec tech into DC/ RF/ I&C etc (S. Suhring/R. Lauze)
- Correct mech vac tech (Heckman) and SRF tech for ion pumps (etc) (S. Suhring)
- Injector segmentation wall (S. Suhring)
  - Need PSS support? (not listed on the activity)
  - This is still being worked as a plan – but get the resources right in the meantime
- NL PSS system must be operational for PEPPo running – logic associated for other tasks need to be linked (S. Suhring)
- Add EES support for PEPPo running (this is operational support/on-call) – but denote so we can capture the labor (S. Suhring)

# 12GeV Accelerator (Action list 28 March)

- Known Items being worked
  - Stone drops for 1.3.2
  - A few items for 1.3.4 (BT), e.g. LCW lines for arc 10
  - Machine shop hrs for 1.3.4
  - RadCon support
- Surprise: ODH for NL-tagger gas line (I&C/S) Recently identified scope. Scale not yet defined.
- Profile
  - 1.3.3 (Cryo)
  - 1.3.6.4 (Safety)
- Add detail to resource types (ME/MT/MD) in 1.3.5 (Extr)
- Check logic ties of OL/OR 12GeV work with respect to OL04/OL03 swap in “Accelerator” Schedule
- Check “Accelerator” schedule for details on OL04/OL03 swap – alignments particularly
- Is ODH monitoring needed for NL to Tagger area?
- Hall A& C energy spectrometer resurvey (open green door).
- NL & SL fix alignment estimates
- PSS Configuration Control (Continuity)
- Final Beam pipe alignment needs to be added
- Penetration Repairs Coordination
- Inter-WBS links once everything is in LSD schedule



**Resource Leveling  
starts April 9<sup>th</sup>!**