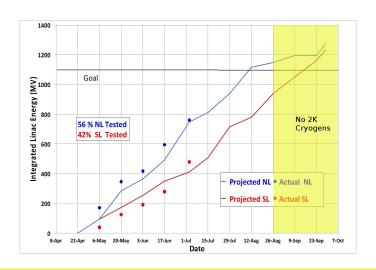
SRF Chart Shown at the July S&T Visit

as of: 2013-07-09 Tue



Busted Play



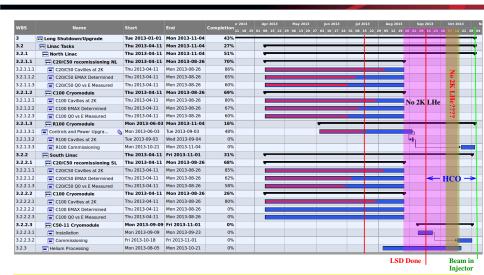




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SRF Status and Schedule

as of: 2013-07-17 Wed



Busted Play

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Critical Paths

- SRF End Game meeting on 2013-Aug-01
 - ► Cryo schedule
 - ► SRF Commissioning
 - Circulators
 - ► C50-11
 - ► R100





- Shift start of 2K cold box commissioning effort from Aug-26 to Sep-30.
- Shift start of beam operations from Nov-04 to Nov-09.
- Shift **HCO** start to **Sep-28** (was Sep-16).
- One Linac (South) will remain cold at 2K during the cold box commissioning effort.
- Run over Thanksgiving, adds 5 days to the beam schedule.
- Try to collect LEM Fault data before Sep-30(Nov-4) if SRF commissioning finishes before that date in North(South). If needed move LEM Fault collection data to 2014-Jan. Will make the LEM gradient setup a bit trickier than we'd like.
- Defer R100 commissioning to 2014-Jan. Coast through R100, inject beam at 35MeV during the Nov/Dec run.

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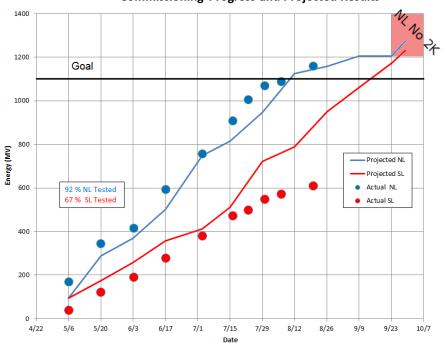


| | - Long Shutdown/Upgrade | Tue 2013-01-01 | Mon 2013-11-11 | 44.9 | 46% | | | | | |
|---------|--|----------------|----------------|------|------|---|---|---|---|----------|
| 2 | - Linac Tasks | Thu 2013-04-11 | Mon 2013-11-04 | 29.6 | 34% | - | | | | - |
| 2.1 | North Linac | Thu 2013-04-11 | Mon 2013-09-30 | 24.6 | 67% | - | | _ | | → - |
| 2.1.1 | C20/C50 recomissioning NL | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 91% | - | | | - | |
| 2.1.1.1 | C20/C50 Cavities at 2K | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 95% | | | | | |
| 2.1.1.2 | C20/C50 EMAX Determined | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 90% | | | | | |
| 2.1.1.3 | C20/C50 Q0 vs E Measured | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 89% | | | | | |
| 2.1.2 | C100 Cryomodule | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 80% | - | | _ | - | |
| 2.1.2.1 | C100 Cavities at 2K | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 100% | | | | | |
| 2.1.2.2 | Circulator Status | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 60% | | _ | | | |
| 2.1.2.3 | C100 EMAX Determined | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 82% | | | | | |
| 2.1.2.4 | C100 Q0 vs E Measured | Thu 2013-04-11 | Mon 2013-09-23 | 23.6 | 80% | | | _ | | |
| 2.1.3 | R100 Cryomodule | Sun 2013-06-30 | Mon 2013-09-30 | 13.0 | 28% | | | _ | | - |
| 2.1.3.1 | Controls and Power Upgra | Sun 2013-06-30 | Mon 2013-09-30 | 13.0 | 57% | | | | | |
| 2.1.3.2 | R100 Cavities at 2K | Thu 2013-08-22 | Fri 2013-08-23 | 0.1 | 0% | | | | | |
| 2.2 | South Linac | Thu 2013-04-11 | Mon 2013-11-04 | 29.6 | 37% | | | _ | | - |
| 2.2.1 | C20/C50 recomissioning SL | Thu 2013-04-11 | Mon 2013-10-21 | 27.6 | 83% | | | _ | | |
| 2.2.1.1 | C20/C50 Cavities at 2K | Thu 2013-04-11 | Mon 2013-10-21 | 27.6 | 90% | | | | | |
| 2.2.1.2 | C20/C50 EMAX Determined | Thu 2013-04-11 | Mon 2013-10-21 | 27.6 | 80% | | | | | |
| 2.2.1.3 | C20/C50 Q0 vs E Measured | Thu 2013-04-11 | Mon 2013-10-21 | 27.6 | 80% | | | | | |
| 2.2.2 | C100 Cryomodule | Thu 2013-04-11 | Mon 2013-11-04 | 29.6 | 30% | | | | | |
| 2.2.2.1 | C100 Cavities at 2K | Thu 2013-04-11 | Mon 2013-11-04 | 29.6 | 100% | | | _ | | |
| 2.2.2.2 | Circulator Status | Thu 2013-04-11 | Mon 2013-11-04 | 29.6 | 20% | | | | | |
| 2.2.2.3 | C100 EMAX Determined | Thu 2013-04-11 | Mon 2013-11-04 | 29.6 | 0% | | | | | |
| 2.2.2.4 | C100 Q0 vs E Measured | Thu 2013-04-11 | Mon 2013-11-04 | 29.6 | 0% | | | | | |
| 2.2.3 | C50-11 Cryomodule | | Mon 2013-10-07 | 4.0 | 0% | | | | | |
| 2.2.3.1 | Installation | | Mon 2013-09-23 | 2.0 | 0% | | | | | |
| 2.2.3.2 | Commissioning | Mon 2013-09-23 | | 2.0 | 0% | | | | | |
| 2.3 | Helium Processing | Mon 2013-10-07 | | 2.0 | 0% | | | | | |
| 1 | Cryogenic Tasks | | Mon 2013-11-11 | | 55% | | | | | |
| 1.5 | Break CEBAF Cryo into two | Mon 2013-09-23 | | 1.0 | 0% | | | | | _ |
| 1.6 | SK Cold Box Commissioning | Mon 2013-09-30 | | 5.0 | 0% | | | | | l. |
| 1.7 | Stabilize Linacs to 2K for | Mon 2013-11-04 | | 1.0 | 0% | | | | | |
| | Hot Check Out | | Sat 2013-11-09 | | 0% | | | _ | | |
| 2 | Hot Check Out (All Systems) | Sat 2013-09-28 | Sat 2013-11-09 | 6.0 | 0% | | | | | |
| 3 | LEM Data Collection | | Mon 2013-11-04 | 2.0 | 0% | | | | | |
| 3.1 | South Linac | | Mon 2013-11-04 | 2.0 | 0% | | | | | |
| | PSS Certification 2013-II | | Wed 2013-09-18 | | 0% | | | | | - |
| 1 | PSS pre-checks | | Wed 2013-09-11 | 0.2 | 0% | | | | h | |
| 2 | PSS pre-checks PSS Certification | Fri 2013-09-13 | Wed 2013-09-18 | 0.6 | 0% | | | | | |
| ۷ | ■ PSS Certification ■ 12GeV CEBAF Commissioning | Sat 2013-11-09 | | 79.9 | 0% | | | | | |
| 1 | | Sat 2013-11-09 | | 5.9 | 0% | | | | | |
| | Recover: Beam up to 5MeV | | Sat 2013-11-16 | 1.0 | 0% | | | | | |

Apr 2013 May 2013 Jun 2013 Jul 2013 Aug 2013 5ep 2013 Oct 2013 Nov 2013

Duration Completion 10 815 22 29 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09 16 23 30 07 14 21 28 04 11 18 25

Commissioning Progress and Projected Results



A Slide on Circulators

Need 80 circulators for the 80 C100 cavities.

- four zones (3 north, 1 south) have circulators installed: 32
- have 5 good circulators ready to install
- have 43 circulators that need to be tuned.
- Sums to 80 (no spares?)

Circulator Tuning:

- Vendor representative on-site to perform work
- Hopefully 6 to 8 circulators tuned per day.
- Could be done with tuning by end of next week
- Testing and installation will be another one to two weeks.

Expected date for 100% C100s with circulators: Sept. 12. About 6 weeks of remaining 2K cryogens in the South Linac to recommission the 4 C100 zones (previously commissioned).

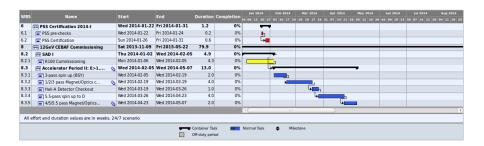
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Jefferson Lab

Looking Ahead to Acc-II







Strains and Stresses

Shift in the start of HCO from Sep-16 to Sep-28, provides a little more time to complete work. All groups benefit:

- Installation
- Alignment
- Software, completing HCO tool (which needs a complete CED) one of the more strained efforts
- HCO checklists in preparation for HCO

Cryo schedule/changes:

- South Linac remains cold, more time to work SRF in the South Linac.
- North Linac stays at 2K longer, allowing completion of the SRF commissioning in the North.
- Better alignment for the Cryogenic resources

More strain on the 2014 Winter SAD by deferring the R100 commissioning.

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