

Schedule Assessment

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

New information on all the above tasks has been gathered.

SRF Status and Schedule

as of: 2013-07-17 Wed

WBS	Name	Start	End	Completion	Apr 2013		May 2013			Jun 2013			Jul 2013			Aug 2013			Sep 2013			Oct 2013					
					11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	04	11
3	Long Shutdown/Upgrade	Tue 2013-01-01	Mon 2013-11-04	43%																							
3.2	Linac Tasks	Thu 2013-04-11	Mon 2013-11-04	27%																							
3.2.1	North Linac	Thu 2013-04-11	Mon 2013-11-04	51%																							
3.2.1.1	C20/C50 recomissioning NL	Thu 2013-04-11	Mon 2013-08-26	70%																							
3.2.1.1.1	C20/C50 Cavities at 2K	Thu 2013-04-11	Mon 2013-08-26	86%																							
3.2.1.1.2	C20/C50 EMAX Determined	Thu 2013-04-11	Mon 2013-08-26	65%																							
3.2.1.1.3	C20/C50 Q0 vs E Measured	Thu 2013-04-11	Mon 2013-08-26	60%																							
3.2.1.2	C100 Cryomodule	Thu 2013-04-11	Mon 2013-08-26	69%																							
3.2.1.2.1	C100 Cavities at 2K	Thu 2013-04-11	Mon 2013-08-26	80%																							
3.2.1.2.2	C100 EMAX Determined	Thu 2013-04-11	Mon 2013-08-26	67%																							
3.2.1.2.3	C100 Q0 vs E Measured	Thu 2013-04-11	Mon 2013-08-26	60%																							
3.2.1.3	R100 Cryomodule	Mon 2013-06-03	Mon 2013-11-04	16%																							
3.2.1.3.1	Controls and Power Upgra...	Mon 2013-06-03	Tue 2013-09-03	48%																							
3.2.1.3.2	R100 Cavities at 2K	Tue 2013-09-03	Wed 2013-09-04	0%																							
3.2.1.3.3	R100 Commissioning	Mon 2013-10-21	Mon 2013-11-04	0%																							
3.2.2	South Linac	Thu 2013-04-11	Fri 2013-11-01	31%																							
3.2.2.1	C20/C50 recomissioning SL	Thu 2013-04-11	Mon 2013-08-26	68%																							
3.2.2.1.1	C20/C50 Cavities at 2K	Thu 2013-04-11	Mon 2013-08-26	85%																							
3.2.2.1.2	C20/C50 EMAX Determined	Thu 2013-04-11	Mon 2013-08-26	62%																							
3.2.2.1.3	C20/C50 Q0 vs E Measured	Thu 2013-04-11	Mon 2013-08-26	58%																							
3.2.2.2	C100 Cryomodule	Thu 2013-04-11	Mon 2013-08-26	26%																							
3.2.2.2.1	C100 Cavities at 2K	Thu 2013-04-11	Mon 2013-08-26	80%																							
3.2.2.2.2	C100 EMAX Determined	Thu 2013-04-11	Mon 2013-08-26	0%																							
3.2.2.2.3	C100 Q0 vs E Measured	Thu 2013-04-11	Mon 2013-08-26	0%																							
3.2.2.3	C50-11 Cryomodule	Mon 2013-09-09	Fri 2013-11-01	0%																							
3.2.2.3.1	Installation	Mon 2013-09-09	Mon 2013-09-23	0%																							
3.2.2.3.2	Commissioning	Fri 2013-10-18	Fri 2013-11-01	0%																							
3.2.3	Helium Processing	Mon 2013-08-05	Mon 2013-10-21	0%																							

LSD Done

Beam in Injector

CEBAF Priorities: Accelerator Run I

- 1 Thorough and methodical Hot Check Out of CEBAF.
 - ▶ An incident like the YR event of the 6MSD will demonstrate that we have not learned from that event.
 - ▶ An incident with safety implications will call into question the entire ARR process, causing a re-evaluation of the ARR process (NSLS-II has been down for over a year).
- 2 One-pass CEBAF with 2.2GeV of energy gain in the North and South Linac. Tune-mode beam to the 2R dumplette.

Critical Paths

Cryo group Was heavily involved with HDR/Hall-D solenoid effort and impacted by the mandatory vacations. Need to shift the start of the 2K coldbox commissioning from Aug-26 to Sep-30.

- This shift is beneficial to the SRF efforts/circulators in the North Linac as the North Linac will remain at 2K until Sep-30, providing enough time for circulators to arrive and finish SRF commissioning.
- Shift beneficial for FY13 budget as it pushed CHL2 ops out to FY14.

Circulators Scheduled to arrive by the Aug-19 (credible?). If this schedule is met, circulators no longer critical path.

C50-11 Will be installed in the South Linac which will remain at 2K throughout the cold box commissioning effort. No longer critical path.

R100 Will need to be ready for commissioning by the first week in Sept in order for commissioning to be completed by Sep-30. Resource limitations make achieving this goal unlikely.

Proposed Path:

Retains Nov/Dev 2013 beam operations

- Delay start of beam operations from Nov-04 to Nov-09. Shift in HCO start to Sep-28 (was Sep-16).
- Run over Thanksgiving, adds 5 days to the beam schedule.
- Defer North Linac LEM Fault collection data to 2014-Jan. Will make the LEM gradient setup a bit trickier than we'd like. In addition try to collect data before Sep-30 if SRF commissioning finishes in North and South.
- Defer R100 commissioning to 2014-Jan. Coast through R100, inject beam at 35MeV during the Nov/Dec run.

