

Commissioning Update

7/24/13

M. Drury

C100's

- 1L22 – SRF Commissioning Complete
 - Eight Cavity Run Complete at 118.4 MV
- 1L24 – High Power Testing Started 5/17.
 - Eight Cavity Run Complete at 108.4 MV/m
- 1L23 SRF Commissioning Complete
 - Eight Cavity Run Complete at 108.2 MV/m
- 1L25 – SRF Commissioning Started 7/8
- 1L26, 2L26 at 4K – Pump down Scheduled for 7/24

1L25

- 1L25 has an Non-functioning RT Valve
 - Not yet clear how or if it can be repaired
 - Cannot complete Qo measurements until repaired.
 - Waiting on Cryo Group to make a Determination
- Eight Cavity Run Attempted Anyway
 - Successful Run Completed at 115.5 MV
 - RF Heat Load at these Gradients not known

C50's

- 1L04 (C50-09) Complete 52 MV
- 1L05 (C50-01) Complete 45 MV
- 1L06 (C50-04) Complete Except for Eight Cavity run
- 1L11 (C50-06) Complete Except for Eight Cavity Run
- 2L16 (C50-02) Complete 34 MV
- 2L07 (C50-08) Complete 51 MV
- 2L04 (C50-03) Complete 53 MV
- 2L09 (C50-05) Complete Except for Eight Cavity run

C50's

- **Preliminary:**
- 1L11 (C50-06) 48.0 MV
- 2L09 (C50-05) 48.6 MV
- **Final:**
- 1L04 (C50-09) 52.3 MV
- 1L05 (C50-01) 46.0 MV (Helium Process)
- 1L06 (C50-04) 47.9 MV
- 2L04 (C50-03) 52.8 MV
- 2L07 (C50-08) 51.3 MV
- 2L16 (C50-02) 34.2 MV (Helium Process)

- **1L12 and 2L15 Scheduled for Cool Down 7/25**
- **Average for C50's - 47.2 MV**

C20's

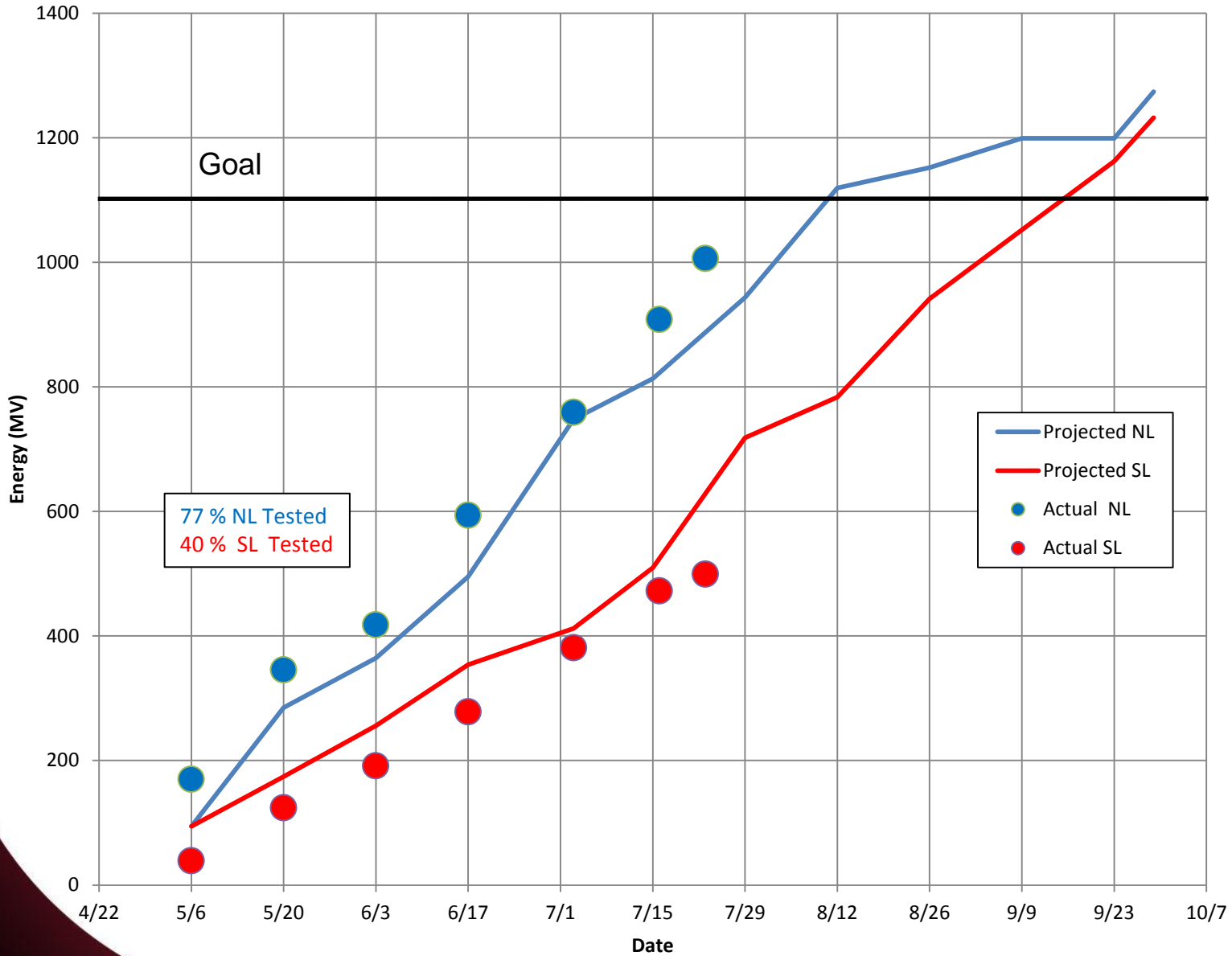
- 1L02 : Complete Except for Eight Cavity Run
- 1L03 : In Progress (10% Complete)
- 1L07 : 1L10 – Complete Except for Eight Cavity Runs
- 1L13 : 1L18 Complete Except for Eight Cavity Runs
- 1L19 : In Progress (10% Complete)
- 2L02 : Complete
- 2L03 : In Progress
- 2L03, 2L05, 2L08 : Complete Except for Eight Cavity run
- 2L12 – 2L13 : Complete Except for Eight Cavity Run
- 2L14 : In Progress (20% Complete)
- 2L17 –2L20 : Complete Except for Eight Cavity Run
- **Average for C20's : 32.6 MV**

What's Left

Task Name	Duration	Start	Finish
NL1	15.38 days	Tue 7/23/13	Tue 8/13/13
Commission 0L02	4 days	Wed 7/31/13	Sun 8/4/13
Commission 0L03	9 days	Mon 8/5/13	Tue 8/13/13
Commission 1L03 (In Progress)	9 days	Tue 7/23/13	Tue 7/30/13
NL2	27.38 days	Wed 7/23/13	Fri 8/29/13
Commission 1L12	11 days	Fri 8/2/13	Mon 8/12/13
Commission 1L19 (In Progress)	9 days	Wed 7/23/13	Wed 7/30/13
Commission 1L20	9 days	Tue 8/12/13	Wed 8/20/13
Commission 1L21	9 days	Thu 8/21/13	Fri 8/29/13
SL1	12.88 days	Tue 7/22/13	Thu 8/7/13
Commission 2L03 (In Progress)	9 days	Tue 7/22/13	Tue 7/30/13
Commission 2L06	9 days	Wed 7/30/13	Thu 8/7/13
SL2	13.63 days	Sun 7/21/13	Thu 8/8/13
Commission 2L14 (In Progress)	9 days	Sun 7/21/13	Sun 7/28/13
Commission 2L15	11 days	Mon 7/29/13	Thu 8/8/13
Commission 2L21 (Not yet ready to cool down)	9 days	??	??
C100 Recom	21.25 days	Sat 8/9/13	Tue 9/10/13
Commission 2L22	13 days	Sat 8/9/13	Thu 8/21/13
Commission 2L23	13 days	Wed 8/14/13	Sun 8/25/13
Commission 2L24	13 days	Mon 8/26/13	Tue 9/10/13
Commission 2L25	13 days	Sat 8/23/13	Sat 9/6/13
C100 Initial	28.13 days	Mon 7/22/13	Thu 8/29/13
Commission 1L25 (In Progress)	7 days	Mon 7/22/13	Sun 7/28/13
Commission 1L26	21 days	Mon 8/5/13	Fri 8/23/13
Commission 2L26	21 days	Sat 8/10/13	Thu 8/29/13

Does Not Include C50-11 or R100

Commissioning Progress and Projected Results



In Summary

- C100 Testing ahead of schedule
 - 1L25 Valve Problem will eat up some time
- Recommission is Roughly on Schedule
- Mandatory Vacations may add some delay
- Overall about 62% of Installed Cryomodules Tested