

# **Commissioning Update**

**8/07/13**

**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 – Eight Cavity Run Complete at 115 MV
- 1L26, 2L26 at 2K – Waiting on HPRF Checkout

# 1L25

- 1L25 has an Non-functioning RT Valve
  - We were able to thaw it out temporarily
  - Completed Qo Measurements on two cavities
  - Valve froze up again
  - May need a 300 K cycle to fix properly
- Eight Cavity Run Attempted Anyway
  - Successful Run Completed at 115.5 MV

# C50's

- **Final:**
- 1L04 (C50-09) 52.3 MV
- 1L05 (C50-01) 46.0 MV (Helium Process)
- 1L06 (C50-04) 47.9 MV
- 1L11 (C50-06) 43.0 MV (Helium Process)
- 2L04 (C50-03) 52.8 MV
- 2L07 (C50-08) 51.3 MV
- 2L09 (C50-05) 48.6 MV
- 2L16 (C50-02) 34.2 MV (Helium Process)
  
- **1L12 and 2L15 are at 2K**
- **Average for C50's - 47.2 MV**

# C20's

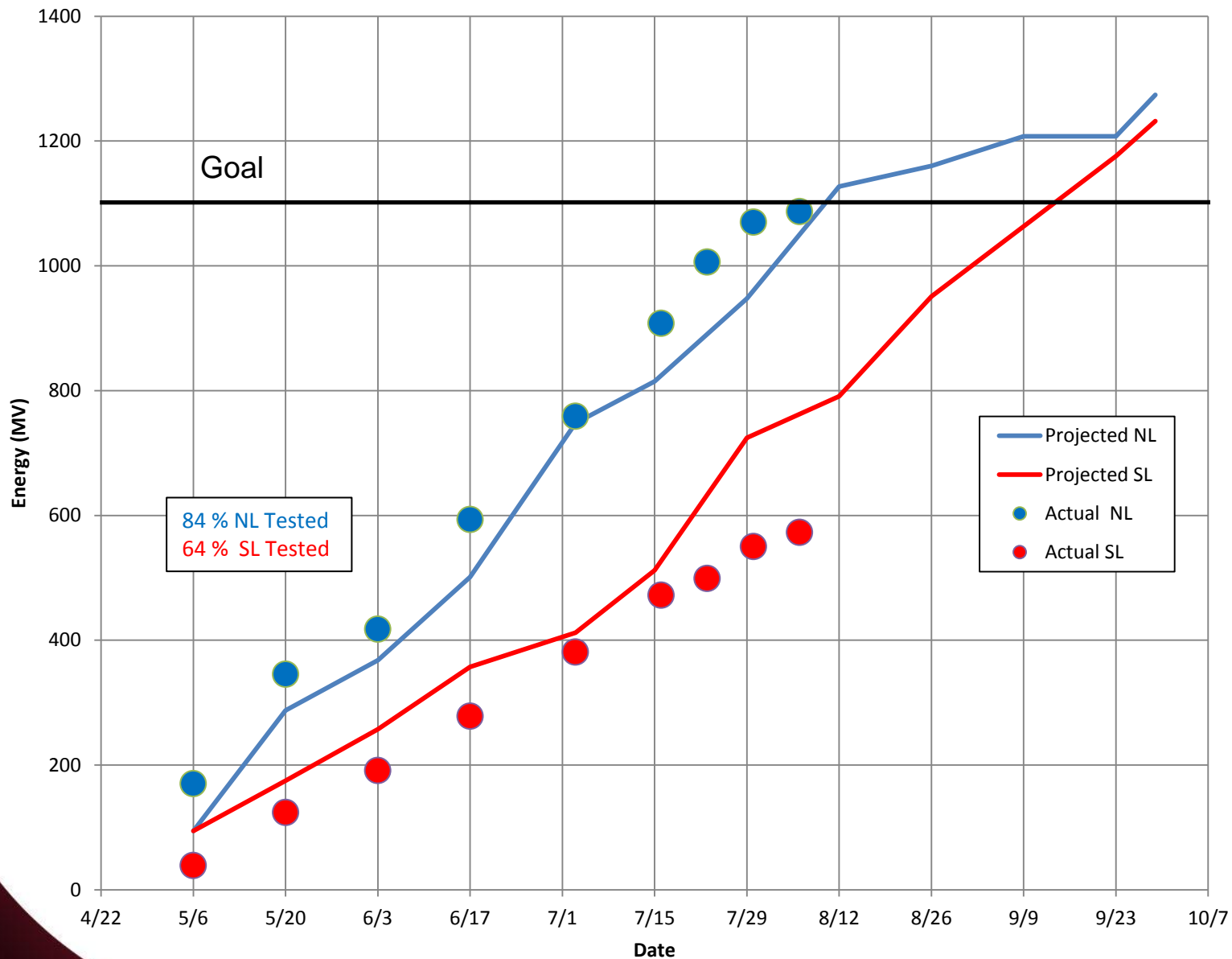
- 0L02 : Started 8/05
- 1L02 – 1L03 : Complete Except for Eight Cavity Runs
- 1L08 : Complete
- 1L07, 1L09, 1L10 – Complete Except for Eight Cavity Runs
- 1L13 – 1L19 Complete Except for Eight Cavity Runs
- 1L20 : Started 8/05
- 2L02 : Complete
- 2L03, 2L05, 2L08 : Complete Except for Eight Cavity run
- 2L12 – 2L14 : Complete Except for Eight Cavity Run
- 2L15 : Start 8/06
- 2L17 –2L20 : Complete Except for Eight Cavity Run
- **Average for C20's : 33.3 MV**

# What's Left

Task Name	Duration	Start	Finish
<b>NL1</b>	<b>21 days</b>	<b>Tue 7/23/13</b>	<b>Tue 8/20/13</b>
Commission 0L02	5 days	Mon 8/5/13	Fri 8/9/13
Commission 0L03	12 days	Sat 8/10/13	Tue 8/20/13
<b>NL2</b>	<b>24 days</b>	<b>Tue 7/23/13</b>	<b>Mon 8/26/13</b>
Commission 1L12	12 days	Tue 8/6/13	Sat 8/17/13
Commission 1L20	12 days	Mon 8/5/13	Thu 8/15/13
Commission 1L21	12 days	Thu 8/15/13	Mon 8/26/13
<b>SL1</b>	<b>28 days</b>	<b>Mon 7/22/13</b>	<b>Thu 8/29/13</b>
Commission 2L06	12 days	Sun 8/18/13	Thu 8/29/13
<b>SL2</b>	<b>33 days</b>	<b>Mon 7/22/13</b>	<b>Wed 9/4/13</b>
Commission 2L11	12 days	Tue 8/6/13	Wed 8/21/13
Commission 2L15	12 days	Thu 8/22/13	Wed 9/4/13
Commission 2L21	12 days	Mon 7/22/13	Thu 8/1/13
<b>C100 Recom</b>	<b>22 days</b>	<b>Tue 8/27/13</b>	<b>Wed 9/25/13</b>
Commission 2L22	15 days	Tue 8/27/13	Thu 9/12/13
Commission 2L23	15 days	Thu 9/5/13	Wed 9/18/13
Commission 2L24	15 days	Thu 8/29/13	Sat 9/14/13
Commission 2L25	15 days	Thu 9/12/13	Wed 9/25/13
<b>C100 Initial</b>	<b>32 days</b>	<b>Tue 7/30/13</b>	<b>Thu 9/12/13</b>
Commission 1L25	7 days	Tue 7/30/13	Mon 8/5/13
Commission 1L26	21 days	Wed 8/7/13	Mon 8/26/13
Commission 2L26	21 days	Wed 8/28/13	Thu 9/18/13

Does Not Include C50-11 or R100

# Commissioning Progress and Projected Results



# In Summary

- C100 Testing ahead of schedule
  - Unable to complete 1L25
  - Moving to 1L26
- We are moving resources from SL to NL to finish by 8/26
- Mandatory Vacations may add minor delays
- Overall about 67% of Installed Cryomodules Tested