

Monthly L2 Status Report -

WBS: 3.5 – MuCool Test Area

10 May 2013

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Milestone Status (Progress)

- 201-MHz vacuum RF: cavity horizontal stand built, actuators shipped (R. Schultz, A. DeMello)
- Infrastructure – on track: beamline upgrade, RF switch re-commissioning, station-2 vacuum system
- Data analysis: HPRF beam test PRL draft under revision (B. Freemire, K. Yonehara, A. Tollestrup, M. Chung); beam spot analysis RSI accepted (M. Jana)

Summary of Previous Month

- Solenoid: training started (J. Volk, M. Leonova, J. Makara)
- Dielectric loaded HPRF: electrodes trimmed/reinstalled, first run complete (K. Yonehara, L. Nash, G. Flanagan, A. Moretti)
- Surface inspection: pillbox button microscopy complete (D. Bowring); ASC initial inspection complete (D. Bowring, G. Flanagan, M. Jana)
- 201-MHz Single-Cavity Module: tuner response tested (L. Somaschini, D. Peterson, R. Pasquinelli), instrumentation
- Modular cavity: quench force calculation complete (Z. Tang)
- Beamline: technical documentation complete (J. Volk)

Upcoming Work (Next Month)

- 805-MHz all-season cavity: operation in $B > 3T$, surface analysis
- DL-HPRF cavity: disassembly/inspection
- Old pillbox cavity: install grid windows
- 201-MHz Single-Cavity module: RF control system upgrade, tuner instrumentation tests, mount/dress cavity in Lab-6, start LLRF measurements
- Complete solenoid training
- Beamline commissioning safety documentation

Resource Conflicts, Plan Changes and Issues

- Mechanical help for single-cavity module assy
- Access to machine shop
- Help for beamline upgrade commissioning

Late Items

- Single-Cavity Module assembly, installation
- Pillbox with grid windows

Quarterly Plans

- Data analysis/publication
 - magnetic insulation
 - Be-Cu buttons
 - HPRF beam test
- Current program
 - All-season cavity in magnetic field
 - Inspection
 - $B > 3T$
 - Dielectric-loaded HPRF
- Next on the list
 - Grid windows on pillbox cavity
 - 201-MHz Single-Cavity Module
 - New 805-MHz modular cavity
- Other
 - Beamline commissioning