**CEBAF 6 Month Summer SAD 2017**

**Week #4: April 10-April 16 – Prep beam tests for coming weeks…**

* Wed – Lock-up, check for 1mA to FC1 w/ choppers OFF
  + => Made ~450uA
* Thu – PQB check : Hall A @ 499 MHz for 100uA to FC1
  + => Done

**Week #5: April 17-April 23 – position differences vs. laser size at PC w/ GaAs/GaAsP**

* Mon-Wed – Laser room work and INJ=BP on Day/Swing for beam to FC1
  + Laser room + 4 beam setups tests, about 25uA to fc#1
* Thu-Fri – Laser room work and INJ/NL=BP on Day/Swing for beam to FC2
  + => Did not need beam to fc#2
* #11: 1146-4: GaAsSb/AlGaAsP: blow off arsenic cap?
  + => Successful on 4/24
* HighP 75104/DBR 75105: prepare in Suitcase
  + => Deferred to Docking bakeout later on

**Week #6: April 24-April 30 – Baseline GaAs/GaAsP in Gun2**

* Mon: Heat/activate GaAs/GaAsP
  + => Successful 1.4% QE @ 130keV, uniform QE
* Tue-Wed: Characterize – Measure (QE, SCL, Pol, AP) vs. Charge at high current
  + => Successful checkout of 1mA to FC#1 (no SCL, POL, AP)
* Thu: Activate 1146-4: GaAsSb/AlGaAsP, and if not successful return to GaAs/GaAsP
  + => 500C for ~10min, no photocathode QE after 35 min Cs
* Fri: Measure QE and Pol, plan to use for next week’s test
  + Did not lock-up, but removed Gun HV Switch Software + Tested OK

**Week #7: May 1-May 7 – Radio-isotope measurement 18.5 MeV @ 50uA to 4D**

* Mon – setup beam and calibrate new diagnostics
  + => Checkout of 4D line, 18.5 MeV @ 4K, B/C tune mode issues
* Tue – Open for installation
  + => Needed another ~12h setup, align to viewers + spot
* Wed-Sat – Radiate Ga target
  + => Install Ga target, set P w/ HMIN=2, Sx=Sy=1.2mm, 50uA good tune
* Sun – while tunnel locked up, Measure 1146-4: GaAsSb/AlGaAsP QE and Pol
  + => Run extended to Monday 8am, + no puck#11 test

**Week #8: May 8-May 14 – Gun3 Removal + PSS Certification (HVPS locked out)**

* Mon – Radio-isotope run ends
* Mon – Mott (0-1000uA) + Mott vs. QE
* Tue-Fri
  + PSS Lockups on Swing shift
  + Gun3 : remove gun, add vacuum diagnostics chamber
  + Co-align ABCD, 4 tune generators, B RTP?
  + LLRF: firmware, board component swap, UPS

**Week #9: May 15-May 21 – Gun2 Photocathodes + PSS Certification (HVPS locked out)**

* Mon-Fri : Lock-up on Swing shift
* Mon-Tue-Wed : Add’l U Va PQB laser profile measurements
* Gun2: **Remove**: Bad-DBR, Bad-GaAsSb; **Add**: HighP+75104, DBR+75105
* Gun3: Vacuum check, remove VBV3I02 from valve anti-collision interlock inhibit

**Week #10: May 22-May 28 –TBD**

* Gun2 photocathode?
* Labor Day weekend (likely no staffing)

**Week #11: May 29-June 4 –TBD**

* Gun2 photocathode?
* Gun2 @ 150kV

**Week #12: June 5-June 11 – TBD (Joe off)**

* Early opportunity: TOSP + Spellman Install/Test

**Week #13: June 12-June 18 – TBD (Joe off)**

* TOSP + Spellman Install/Test

**Week #14: June 19-June 25 –TBD**

* Functional TOSP + Spellman @ CEBAF
* As-found survey of HV + NEG

**Week #15: June 26-July 2 – 200kV Gun Installation**

* Move HV chamber to CEBAF, Replace HV + NEG + 2A alignment
* Early bake opportunity

**Week #16: July 3-July 9 – 200kV Gun Bakeout**

* Bake, leak check
* Early 2B + laser alignment

**Week #17: July 10-July 16 – 200kV Gun Conditioning**

* 2B + laser alignment
* HV conditioning

**Week #18: July 17-July 23 – 200kV Gun Testing**

**Week #19: July 24-July 30 – 200kV Gun Testing**

* Bubble Installation TBD (Swing)

**Week #20: July 31-August 6 – Bubble Installation**

* Bubble Installation

**Week #21-22: August 7-August 20 – Two weeks of Bubble Eng. Run**

**Week #23-24: August 21-Sepember 3 – Two weeks of PSS Certification**