

# Machine Studies

## Schedule for Run03-1, 2008

September 24<sup>th</sup> 0800 – October 1<sup>st</sup> 0800

Time	Descriptions	Studiers	SR Status
Tuesday, 9/23/08 (pre-studies)			
1000-1400	Initial Setup of 35-BM Pinhole camera image	Yang	Stored Beam & Top-up
Wednesday, 9/24/08			
0600-0800	BM Xbpm checkout	Hahne	Stored Beam
0800-1200	BPLD validations	Bui	Stored Beam & Inj.
1200-1400	Booster training	Karl	Occ. Inj.
1200-1500	X-ray BPM checkout	Hahne	Stored Beam & Occ. Inj.
1500-1900	RF BPM checkout	Decker/Sun	Stored Beam & Inj.
1900-2300	CPU multipole alignment measurement (324 singlets)	Emery	Stored Beam & Occ. Inj.
2300-2400	CPU dipole correction (324 singlets)	Emery	Stored Beam & Inj.
Thursday, 9/25/08			
0000-0300	CPU dipole correction (324 singlets)	Emery	Stored beam & inj.
0300-0500	Booster training	Fystro	Occ. Inj.
<b>0500-0700</b>	<b>OPEN</b>		
0700-0800	Shut down equipment in preparation for Booster Studies	OPS	No beam
0800-1400	Booster Dipole study	Yao, Guang	No beam
0800-1000	Update SCRs for different LINAC modes	Pasky	No beam
0900-1300	Verify changes on setting ID gaps to minimum scripts	Shang, Schroeder	No beam
1400-2000	Unexpected repairs to Booster kicker and S24A:H3	PS Group	No beam
2000-2200	Determine RF power needed for closing gaps to minimum values	Schroeder, RF Group	Stored beam & top-up

2200-2400	Orbit Recovery	Decker/Sun	Stored beam & Inj.
<b>Friday, 9/26/08</b>			
1600-2200	Orbit Recovery	Decker/Sun	Stored beam & injection
0200-0400	Booster training	Fystro	Occ. Inj.
0200-0900	Beta function correction and model measurement (stored beam only for 1 <sup>st</sup> two hours)	Sajaev	Stored beam & injection
0900-1300	Test P0 feedback electronics and FPGA firmware (single bunch)	Yao, DiMonte	Stored beam & Inj.
1300-1500	Booster training	Karl	Occ. Injection
1300-1500	Shielding verification 16-ID-E (requires shutters open) Max 50mA	Ramanathan / UES	Stored Beam
1300-1700	Calibrate and align new setup for 30-ID beamline optimization (shutters open), Max 50mA	Ramanathan	Stored Beam
1700-2000	Initial calibration of Cerenkov detectors	Yang	Stored Beam & Injection
2000-2400	CPU testing + initial test of corrector punch down software	Emery	Stored Beam & injection
<b>Saturday, 9/27/08</b>			
0000-0300	Test S24A:H3 in operations mode	P.S. Group	No beam
0300-0600	OPEN		
0600-1000	LCLS-BLM prototype studies	Yang, Dooling	Stored beam & injection
1000-1200	Set-up bunch purity	Yang	Stored beam & injection
1200-1800	X-bpm database work	Decker	Stored beam & injection
1800-2400	Instability study with all RHB lattice (24 singlets)	Harkay	Stored beam & inj.
<b>Sunday, 9/28/08</b>			
<b>0000-0900</b>	<b>OPEN</b>		
0900-1700	PC Gun Studies	Sereno, Lumpkin	No injection
1700-2100	300MeV top up test	Sereno, Emery	Stored beam & inj.

2100-2400	Cerenkov Detector Studies	Yang, Emery	Stored beam & inj.
<b>Monday 9/29/08</b>			
<b>0000-0400</b>	<b>OPEN</b>		
0400-0800	Beam loss for unstable beams (24 singlets and maybe 324 singlets)	Harkay, Dooling	Occ. Injection
0800-0900	Trace fiber signal in Linac timing	Pietryla	No Injection
0800-0830	Prepare for Access	Ops	No Access
0800-1200	PSS shutter checkouts	SI Group	No Beam
0900-1100	Booster training (booster beam needed)	Fystro	No Beam
0830-1130	Install radiation shielding on S9&12 IDs	Merritt/ Grimmer	Zone B Access
1000-1200	Restore booster tune measurement after equipment change (booster beam needed)	Yao	No beam
1000-1200	Test ID optimization intensity script	Shang, Schroeder	No beam
1200-1500	Possible Zone A Access to move S4 CPU	Merritt/ Grimmer	No beam
1500-2300	Final Orbit recovery	Decker	Stored Beam, Top-Up
2300-2400	Top-up verification (gaps closed to user values)	OPS	Stored Beam, Top-Up
<b>Tuesday 9/30/08</b>			
2400-0600	Top-up verification (gaps closed to user values)	OPS	Stored beam, Top-up
0600-1000	Test P0 feedback electronics and FPGA firmware (single bunch)	Yao, DiMonte	Stored beam & Inj.
1000-1300	Test new version of corrector punchdown with datapool only	Yao, Shang	Stored beam & Injection
1300-1500	Steering optimization with 30-ID, max. 50mA (shutters open required)	Ramanathan, Ops	Stored beam
1500-1900	Final set-up of pinhole camera	Yang	Stored beam & injection
1900-2300	Optimize injection	Emery	Stored beam & injection
<b>2300-2400</b>	<b>OPEN</b>		

Wednesday 10/01/08

**0000-0600** **OPEN**

0600-0800 Prepare for User Operations (24 singlets – Top-up)

Ops

Stored Beam & Injection

