Machine Studies
Draft Schedule for Run01-1, 2012

January 24th 0800 – January 31st 0800

Time	Descriptions	Studiers	SR Status
Monday, Jan. 23 (pre-studies)			
0700-0800	HP check of RF at Zone E/F door	Vacca	Access Zone E
0800-0815	Switch back to Pump 525 from 526 (P.S. set to 0 -- not off) WRQ #30007	Theres	No beam
0900-2400	Set-up SR and RF conditioning with beam	OPS/Xiao/ Schroeder	Stored beam & injection
1600-1800	35BM pinhole camera setup for machine start up	Yang	Stored beam & injection
Tuesday, January 24, 2012			
0000-0800	RF conditioning with beam (continued)	OPS	Stored beam & injection
0800-1200	BPLD validations	Bui	Stored beam & injection
1200-1400	~~x-ray bpm checkout~~	Hahne	Stored beam & occ. injection
1200-1400	~~Check booster beam after B:IK and B:SD changes, and establish new booster ramp timing to allow more tuning range~~ Moved to Thursday	Yao	Occ. Injection possible
1400-2200	Initial bpm system checkout / commissioning (impacted by SR cond).	Decker	Stored beam & occ. injection
2200-2400	Orbit Recovery(impacted by SR cond)	Xiao	Stored beam & injection
Wednesday, January 25, 2012			
0000-0400	Orbit recovery	Xiao	Stored beam & injection
0400-1600	RF Conditioning with beam (continued)	OPS	
1400-2100	Continue orbit recovery/Lattice set-up for 24 singlets	Sajaev	Stored beam & inj.

2100-2200	Steer 13-ID and orbit in moved sectors 6 and 29	Sajaev	Stored beam & injection
2200-2300	Scraper operating position determination (low current)	Sajaev/ Harkay/Boon	Stored beam & inj.
2300-2400	S37 scraper conditioning to 100mA, 24 bunches	Harkay/Boon	Stored beam & injection
~~2200-2400~~	~~Intermediate bpm checkout~~	Decker	Stored beam & inj.
Thursday, January 26, 2012			
~~0000-0500~~	~~Intermediate bpm checkout~~	Decker	Stored beam & inj.
0000-0500	S37 scraper conditioning to 100mA, 24 bunches (continued)	Harkay/Boon	Stored beam & injection
0500-0600	Prepare for PAR access	OPS	No injection
0600-1330	Replace PAR P2IK thyratron	Hillman	No Injector
0800-1000	Calibrate bypass valve positioner for system P-SR-12	Swetin	No Beam
0800-1000	Measure PAR RF-12 cavity tuning characteristics	Yao, Smith	Limited Injection
0830-1030	redress cables that are restricting access to phase read-back calibration adjustments at L2, L3, and L4	Jefferson	No Linac beam
0800-1200	PSS shutter checkouts	SI group	No Beam
0800-1400	Swap klystron for RF test stand	RF group	No Beam
1400-1800	~~29-ID radiation shield verification/ Conditioning~~ Moved to Friday @10:00	Yang/Decker/ Ramanathan	Stored beam & occ. Inj.
1400-1600	Check booster beam after B:IK and B:SD changes, and establish new booster ramp timing to allow more tuning range	Yao	Occ. inj. possible
1700-1800	Setup P0 feedback system for 24 singlet	Yao	Stored beam &

	lattice		injection
1800-2400	Develop and test tune slope measurement script (tune vs. I)	Sajaev/Harkay /Boon	Stored beam & Inj.
	Friday, January 27, 2012		
0000-0600	OPEN		
0600-0800	Swap out the SR Converter Interface board in sector 32 cabinet 3	Puttkammer	No SR beam
0700-0800	Swap out SR converter S11AQ1	Puttkammer	No SR beam
0800-1000	Measure chromaticity of Booster 132nm lattice (SR RF frequency scan)	Yao	No SR beam
1000-1400	Store 100mA, 324 singlets-- 29-ID radiation shield verification/conditioning	Yang/Decker/ Ramanathan	Stored beam
1000-1400	Booster 92nm lattice study (will inject into SR for verification)	Yao/Sereno	Stored beam & injection
1400-1800	29-ID hard bpm studies	Yang/Decker	Stored beam & inj.
1800-2200	BPM data acquisition test	Decker/Hahne/ Bui/Vendor	Stored beam & inj.
2200-2400	XBPM data collection	Hahne	Stored beam & inj.
	Saturday, January 28, 2012		
0000-0200	XBPM data collection (continued)	Hahne	Stored beam & inj.
0200-0700	Open		
0700-1300	SCU0 aperature scan studies (low current – few mA) scan 4-ID & 6-ID	Harkay/Boon	Stored beam & inj.
1300-1700	29-ID hard xbpm studies	Yang Decker	Stored beam & inj.
~~1700-2300~~	~~CPU set-upCancelled~~	~~Xaio~~	
~~2300-2400~~	~~Top up verification~~	~~OPS~~	~~Stored beam &~~

			injection
1700-2400	**Orbit recovery**	**Xiao**	**Stored beam & inj.**
Sunday, January 29, 2012			
~~0000-0700~~	~~Top-up verification~~ Moved to Monday	~~OPS~~	~~Stored beam & inj.~~
0000-0800	**Orbit recovery**	**Xiao**	**Stored beam & inj.**
0800-1200	**37-BM steering and vertical pinger vs. S37 scraper scrubbing with synchrotron radiation**	**Harkay/Boon**	**Stored beam & inj.**
1200-2000	**29-ID hard xbpm studies**	**Yang/Decker**	**Stored beam & inj.**
2000-2400	**CPU set-up**	**Xaio**	**Stored beam & inj.**
Monday, January 30, 2012			
0000-0200	**CPU set-up (continued)**	**Xaio**	**Stored beam & inj.**
0200-0600	**4NLSS lattice setup (continued)**	**Sajaev**	**Stored beam & inj.**
0600-1000	**Collect XBPM data**	**Hahne**	**Stored beam & inj.**
~~1000-1400~~	~~Test SR accumulation limit with different fill patterns (will not exceed 100mA)~~Canceled	~~Yao~~	~~Stored beam & inj.~~
1000-1400	**Top-up Verification**	**OPS**	**Stored beam & inj.**
1400-1600	**S35BM pinhole camera setup for user run**	**Yang**	**Stored beam & inj.**
1600-1800	**35-ID bunch purity monitor set-up**	**Yang**	**Stored beam & inj.**
1800-2200	**Final BPM checkout**	**Decker**	**Stored beam & inj.**
2200-2400	**SR injection studies**	**Sajaev**	**Stored beam & inj.**
Tuesday, January 31, 2012			

0000-0200	SR injection studies (continued)	Sajaev	Stored beam & inj.
0200-0600	Final SR setup	Sajaev	Stored beam & inj.
0630-0800	Prepare for user Operations (24 singlets – Top-Up)	Ops	Stored Beam & Injection