

# Machine Studies

## Schedule for Run03-5, 2004

November 1st, 0800 - November 3rd, 0800

<b>Time</b>	<b>Descriptions</b>	<b>Studios</b>	<b>SRStatus</b>
<b>Monday, 11/1/04</b>			
<b>0800-0805</b>	<b>Record XBPM data for user orbit with TopUp running</b>	<b>OPS</b>	<b>Stored Beam</b>
<b>0805-1100</b>	<b>To determine errors in RF5's klystron forward readback.</b>	<b>Cherbak</b>	<b>No Inj</b>
<b>0805-0900</b>	<b>Replace noisy fan assembly in IOCS25FB VME chassis.</b>	<b>Gold</b>	<b>No Beam</b>
<b>0805-1100</b>	<b>Test the SR Dipole Vesda interface to the Gespac.</b>	<b>Hillman Varotto</b>	<b>No Beam</b>
<b>0805-1200</b>	<b>Look into a faulty status/relay board on L1RG2 LFA TRIM.</b>	<b>Puttkammer</b>	<b>No Inj</b>
<b>0830-1230</b>	<b>Inject signals into L2 BPM cables to verify position accuracy.</b>	<b>Erwin</b>	<b>Access Linac</b>
<b>0830-1030</b>	<b>The strobe lamp, replaced on 10/18/04, is not flashing (see RMD#04328). The output module along with the associated fuse will be checked. If both are found to be working, the strobe base unit will be replaced with the same type.</b>	<b>Hogrefe</b>	<b>Access Linac</b>
<b>0830-1230</b>	<b>Modify EPICS database in LINAC ioclic1 and reboot ioclic1. Next, perform tests on RF Switching Control in the LINAC to confirm correct implementation of this database by switching through all five operation modes.</b>	<b>Quock</b>	<b>No Inj</b>

<b>Time</b>	<b>Descriptions</b>	<b>Studiers</b>	<b>SRStatus</b>
0830-1030	Connect and test PAR gated camera and streak camera timing signal from injection system, possibly interrupt inj. timing briefly.	Yang, Lenk-szus	No Inj
0830-1030	PAR bunch cleaning setup, beam is not required.	Grelick, Yao	No Inj
0830-1230	swap the L2 Trigger/ Interlock module as part of the ongoing L2 investigation.	Grelick	No Inj
0830-1030	Diagnose and repair Sector 18 horizontal corrector magnet S18B:H1 thermal switch ground fault.	Putnam, Puttkammer	Access Zone C
0900-1030	Dosimeter replacement S3-4	Petra	Access Zone A
0900-1100	Run full BPM system test from tunnel for 3BP5(x has -3mm raw), 3BP4 (x&y had 100 micron shift in both planes), 3BP2 (had 200 micron drift)	Erwin	Access Zone A
0900-1100	SRPS script testing zones E	Fors	No Beam
0900-1100	Replace DAC Cards for Canted Undulator Dipoles	Puttkamer	No Beam
0900-1000	Add new PVs for RFGUN phase detector prototype testing PVs to IOCLIBPM2.	Norum, Erwin	
1030-1130	Reset xbpn limit for 16IDP2X(-)	Hahne	Access Zone B
1130-1230	Set-up to measure SR Gap Voltage noise	Horan/ Trento	No Beam
1230-1300	Recover equipment & refill the Ring	OPS	Stored Beam & Injection
1300-1500	Measure SR Gap Voltage noise	Horan/ Trento	Stored Beam
1300-1400	Test new Linac P.S. conditioning status records	Borland	Lim. Inj.
1500-1800	ID2/3/14/17 xbpn & id26 P0 nbbpn tests	Singh/ Hahne	Stored Beam

<b>Time</b>	<b>Descriptions</b>	<b>Studiers</b>	<b>SRStatus</b>
1800-2000	Booster Automatic Ramp correction (parasitic)	Sereno	Top-up
1800-2000	Collect ID feedforward data	Decker/ Singh	Stored Beam & Top-Up
2000-2200	Recheck Coupling correction of CPU	Emery	Stored Beam
2300-2400	Injection Transient Characterization	Emery	Stored Beam & Inj.
<b>Tuesday, 11/2/04</b>			
0000-0100	Injection transient characterization	Emery	Stored Beam & Inj.
0100-0500	Injection efficiency investigation	Emery/ Sajaev	Stored Beam & Inj.
0500-0700	Operator training-SR 2300-0700	Forth	Stored Beam & Injection
0700-1300	HOM Studies	Nassiri/ Harkay	Stored Beam & Inj.
0700-1100	Linac Phase Detector Studies (parasitic)	Sereno/ Pasky/Lill/ Erwin	Injection Possible
1100-1300	Operator training-Booster 0800-1500	Glenn/ Grodecki	Limited Inj
1100-1500	PAR instability study (parasitic)	Chae/Yang/ Yao	Injection Possible
1300-1500	Lifetime measurements with sextupoles set to zero	Borland	Stored Beam & Inj
Contact MCR to schedule	Investigate loss of communication to storage ring sector 40 vacuum valve PV VM:40:2IP5. Check communication link from multiple pump controller (MPC) to bitbus bug.	Quock	No Impact
1500-1900	Par Bunch Cleaning Study	Sereno/Yao	Stored Beam & Inj.

<b>Time</b>	<b>Descriptions</b>	<b>Studiers</b>	<b>SRStatus</b>
<b>1900-2400</b>	<b>Orbit Stability Baseline Measurement</b>	<b>Decker</b>	<b>Stored Beam &amp; Top-up</b>
<b>1900-2300</b>	<b>Test Run of bunch cleaning with Top-Up</b>	<b>Yao/Ops</b>	<b>Stored Beam &amp; Top-up</b>
<b>Wednesday, 11/3/04</b>			
<b>2400-0100</b>	<b>Orbit Stability Baseline Measurement</b>	<b>Decker</b>	<b>Stored Beam &amp; Top-Up</b>
<b>0100-0200</b>	<b>Measure bpm gains in hybrid mode</b>	<b>OPS/Sajaev</b>	<b>Stored beam</b>
<b>0200-0400</b>	<b>PAR Training</b>	<b>Gagliano</b>	<b>Lim. Inj.</b>
<b>0400-0500</b>	<b>SR Training</b>	<b>Forth</b>	<b>Stored beam &amp; Inj.</b>
<b>0400-0700</b>	<b>Optimize bunch purity (not using SR for 1st hour)</b>	<b>Sereno</b>	<b>Stored beam &amp; inj.</b>
<b>0700-0800</b>	<b>Ready for 0+24X1 fill pattern, low emittance, TopUp</b>	<b>OPS</b>	<b>Stored Beam &amp; Injection</b>