

# SSRL - Accelerator Maintenance Day Tasks

1/11/2010

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
Access	Conditions:	1. SPEAR access: 6:30 to 14:00					
Access	Conditions:	2. SPEAR - Power Supply Checks - 2 hrs after power restored					
Access	Conditions:	3. OUTAGES:					
Access	Conditions:	4. RSWCF Open: BL10 Stopper, B118 08G-QF1 and 13G-QF1 fan replacement.					
Beam Line	BL - Mech/Elec/Checks	5. Checking water circuits and hardware for agreement with documentation at BL12, BL14, and BL1.	Harrington				
Beam Line	MPS	6. Reflash SSRL MPS Beam Lines CPU's. Inspect BL4 PPS hutch door switches, add cables for BL9 IG analog.	Lessard				
Beam Line	Vacuum In A	7. Walk through	Neal	Vacuum	Bach, Spector		0.5
Beam Line	Vacuum Out Alcove	8. Long IP cable inspections for cracking etc, BLs 1, 2, 5, 6, 9 and 11.	Neal	Vacuum	Bach, Spector		2

# SSRL - Accelerator Maintenance Day Tasks

1/11/2010

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
Beam Line	Injection Stoppers	9. Lubricate the BL10 stoppers and assess their operation. Close time > 7-second BCS timeout. If lubrication solves the problem, we'd finish in 0.5 hours. If pneumatic line and/or junction box need to be rebuilt, it could take 6 hours (for which case we will have RSWCF approved in advance).	Johnson		Kerr	RSWCF	6
LINAC	Power Conversion	10. LINAC K3 modulator tuning.  LINAC - no access Booster - no access or other activity that would disable the linac system	Gierman		PCD		
SPEAR	Computer C	11. Fix mcor05 terminal server connection.	Allison				
SPEAR	Computer Control	12. Reboot RF IOC with EPICS databases built using more modern methods.	Allison				
SPEAR	Computer Control	13. Move ethernet PS control from RTEMS to linux IOC (b118-iocps to soft-iocps).	Allison				
SPEAR	Computer Control	14. Reboot IOCs to add PVs and logic for magnet PS current readback vs. DESIMON check.	Allison				

# SSRL - Accelerator Maintenance Day Tasks

1/11/2010

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
SPEAR	Computer Control	15 . Reboot linux servers (connie and beldar) for a kernel security patch.	Allison				
SPEAR	BCS	16 . Install cables for BL12 BCS Interlock.  PCD Job Order, DJM039, for B118 cable work. (Add Beam Line 12 to the Top-Off BCS Interlock.)	Martin		PCD	JSA, LOTO	
SPEAR	BCS	17 . Test BL12 Interlock.	Martin		Martin		
SPEAR	MPS	18 . will need 1 hour the add new B117 MPS audio warning features.  Thanks	Lessard				1
SPEAR	RF - SPEAR	19 . Klystron window blower inspection: On Wednesday, January 6, the RF system tripped due to low air flow in the system that cools the klystron output window. We would like to perform inspection/maintenance on this system. The work involves checking/cleaning/replacing a filter, cleaning and inspection of the blower unit and associated air passages. All work will be done in B132-101. The estimated time for this task is 2 hours.	Sebek				2

# SSRL - Accelerator Maintenance Day Tasks

1/11/2010

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
SPEAR	RF - SPEAR	20 . RF Cavity tuner drive inspection During the last week of delivered beam in December the control system reported some errors during tuner motion. We will move the tuners while observing their behavior in the ring to see if these errors still exist. Estimated time to inspect the tuners is 30 minutes. If a motor needs to be replaced, the estimated time is two hours.	Sebek				2
SPEAR	Magnets	21 . 1) Inspect bus to yoke connections screws (10 x 3/8"-16) and verify they are torqued at 15 ft-lb. 2) Inspect 1/4"-20 HHCS on the coil to coil connector plates and verify they are torqued at 30 in-lb (start from center). 3) Inspect temperature gages on all dipoles (coils and bus).  4) Inspect chicane dipole power leads and select hardware needed to replace bad hardware installed on those connections (washers extruded through power lug holes). The new hardware will be installed on the next maintenance day.  5) Inspect ECD magnets.	Dellorco	MSG			

# SSRL - Accelerator Maintenance Day Tasks

1/11/2010

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
SPEAR	Mechanical	22 . Tune-Up Dump - measure relative z-location of shielding and TD	Scott	AEG	Imfeld, et al		
SPEAR	Mechanical	23 . General mechanical inspections	Ernst	MSG	1 techs		1
SPEAR	Mechanical	24 . Inspect dipole magnet leads (system manager request)	Ernst	MSG	2 techs		2
SPEAR	Mechanical	25 . Inspect chicane raft dipole hardware (system manager request),	Ernst	MSG	2 techs		2
SPEAR	Mechanical	26 . Remove two lower EPU encoders for BL13 ID	Ernst	MSG	DiMattia		1
SPEAR	Power Conversion	27 . Replace internal fans - 2 power supplies (rack mount) in B118: 08G-QF1 and 13G-QF1. Both power supplies require a RSWCF to do this.	Rafael		Taylor	RSWCF	
SPEAR	Insertion Device	28 . Check the position of the BL13 EPU 9:30-10am. (This is necessary because of the failure of all the encoders that had been installed on the EPU.)	Rarback				0.5
SPEAR	Insertion Device	29 . Remove two lower EPU encoders for BL13 ID (Encoders not functioning repeatably)	Dao	MSG	DiMattia & Dao		
SPEAR	Vacuum In A	30 . Walk through	Neal	Vacuum	Pak		0.5

# SSRL - Accelerator Maintenance Day Tasks

1/11/2010

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
SPEAR	Vacuum In A 31 .	9S-IG1 troubleshoot	Neal	Vacuum	Pak		1
SPEAR	Vacuum In A 32 .	12S-IG1 Long cable trouble shoot	Neal	Vacuum	Ortiz, Pak		3
SPEAR	Vacuum In A 33 .	BTS redline updates	Neal	Vacuum	Jacobson		2
SPEAR	Facilities 34 .	Seismic Upgrade - inspect BTS and BL4 areas.	Cadapan	Facilities	Machi Chen, Cadapan		
SPEAR	Facilities 35 .	Seismic Upgade - coordinate survey of BTS and BL4 areas	Cadapan	AEG	Imfeld, et al		