

# SSRL - Accelerator Maintenance Day Tasks

3/8/2010

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
Access	Conditions:	1. SPEAR access: 6:15 to 14:00 11 - 12 am Contractor Access requires 10-12 keys					
Access	Conditions:	2. SPEAR - Power Supply Checks - 2 hrs after power restored					
Access	Conditions:	3. OUTAGES: There will be a compressed air outage on Monday from 07:00 to 13:00. The following buildings will be affected, B006, B060, B050, B031, and the vacuum pump stations will be without compressed air. SSRL will need to valve on their back up 3/4 supply. Any questions please give me a call.	W. Harrison				
Access	Conditions:	4. RSWCF Open: -- Tune-Up Dump - concrete shielding installation -- TOSOIC					
Beam Line	Vacuum	5. Walk through	Neal	Vacuum	Bach / Jacobson		1
Beam Line	Vacuum Out Alcove	6. 9-3 Mono	Neal	Vacuum	Hollenbeck / Grunow		
Beam Line	Vacuum Out	7. 4-3 IG3 trip set point tests	Neal	Vacuum	Jackobson		1

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Beam Line	BL - Mech/Elec/C	8 . May need to install lead in alcove on BL12 for top off. Bauer to define info by Th pm.	Rabedeau				
Beam Line	BL - Mech/Elec/C	9 . Mirror lcv TCs inspection	Johnson		Borzenets, Johnson		
Injector	Power Conversion	10 . Identify unlabeled 110VAC outlets in B140 that are adjacent to the LINAC Klystron's. Label the outlets once each source is identified.  Evaluate before switching any breakers off to determine affected equipment powered from the same source - notify owner of equipment before de-powering beforehand	Ortiz		Ortiz		
Injector	RF - Booster	11 . Characterize the RF cables connecting "Booster RF Generator" at B117-12-32 and "Master Oscillator" at B140-320.	Park				
SPEAR	Computer Control	12 . Reboot SPEAR RF IOC with minor database change to correct a temp alarm problem.	Allison				
SPEAR	Computer Control	13 . Reboot all PS IOCs with reorganization of software to share database and standardization logic by both SPEAR and injector power supplies.	Allison				

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SPEAR	Computer Control	14 . Reboot B117 multi-use IOC with change to buckomat to add an option to fill only one pattern and stop	Allison				
SPEAR	Computer Control	15 . Reboot iocrp to take TOSOIC spares out of database Reboot b116-iocmotor to update ID trim tables	Rarback				
SPEAR	Power Conversion	16 . Check AUX PS inside MS1-SD power supply Estimated 3 hours	de Lira	PCD			3
SPEAR	Power Conversion	17 . Replace fans inside CEBAF bulk supplies in B140 (we won't be able to replace them all during this maintenance day)	de Lira	PCD			4
SPEAR	Power Conversion	18 . Sign off ELPs for intermediate and large magnet supplies in B118 Estimated 2 hours (after closing SPEAR3 accelerator housing and restoring ac power to supplies)	de Lira	PCD			
SPEAR	Power Conversion	19 . Tentative: Install Ethernet PS Controller on LTB-B1 supply, rack 103 in B140 Estimated 4 hours for installation + 2 hours for tests and checkout	de Lira	PCD			4
SPEAR	Power Conve	20 . MS1-SD aux. supply - troubleshoot	de Lira	PCD			4

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SPEAR	Power Conve	21 . SPEAR kickers - fix board	Beukers	PCD			
SPEAR	BCS	22 . Radiation Safety - BSOIC trip checks - complete tests started in January	Guerra		Morris		2
SPEAR	BCS	23 . TOSOIC's wiring repair - recrimp cable connector and re-certify (BL4, BL11, BL13 and BL14.).	Lessard			RSWCF	
SPEAR	BCS	24 . Install BL12 Top-Off interlock (Power Supply interlock on 10G-QFX).	Martin		Martin, Wallters, Theobald, Taylor (PCD), de Lira (PCD)		
SPEAR	BCS	25 . Check/test BL12 Top-Off interlock	Martin	PCD	de Lira		4
SPEAR	RF - SPEAR	26 . Wiring checks - tunner and TC	Sebek				
SPEAR	Mechanical	27 . SPEAR mechanical inspections	Ernst	MSG	1 MSG tech		1
SPEAR	Mechanical	28 . Remove and clean SPEAR RF HCW heat exchanger strainer.	Ernst	MSG	1 MSG tech		2

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SPEAR	Mechanical	29 . Replace SPEAR outer BTS cinder block shielding with (1) EX-4 and add (3) EX-3 concrete shielding blocks on top of EX-4, requires RSWCF, Hot work permit, Penetration permit, Lift Plan	Ernst	MSG	3 - MSG techs	RSWCF , Hot Work, Penetration permit	4
SPEAR	Mechanical	30 . Add (6) EX-3 concrete shielding blocks on top of SPEAR outer BTS EX-4 shielding blocks to add 1 foot thickness to shielding in this area, requires RSWCF, Lift Plan	Ernst	MSG	3 - MSG techs		1
SPEAR	Insertion Device	31 . Install radiation monitors on BL13 ID. The purpose is to monitor the radiation dose at the location of the row phase encoders (which failed early in the run - due to radiation?)	Trautwein		Bauer, Trautwein		
SPEAR	Vacuum In A	32 . Troubleshoot 12S-IG1.	Neal	Vacuum	Pak, Ortiz		
SPEAR	Vacuum	33 . Walk through	Neal	Vacuum	Pak		0.5
SPEAR	Vacuum	34 . 12S-IG1 trouble shoot flat line	Neal	Vacuum	Ortiz/Pak		2
SPEAR	Vacuum	35 . Verify 03S-IP nomenclatures and cables	Neal	Vacuum	Pak		0.5
SPEAR	Vacuum	36 . 3S supports installed	Neal	Vacuum	Pak/Bach		2
SPEAR	Vacuum Out	37 . Install Spare IG and IP controllers	Neal	Vacuum	Pak		1

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SPEAR	Vacuum Out	38 . RGA Scans	Neal	Vacuum	Pak		1
SPEAR	Facilities	39 . SPEAR shielding blocks - Facility Assessment of Condition	Mann	FAC Support Group			
SPEAR	Facilities	40 . 2nd Seismic Upgrade Subcontractor site visit and access into SPEAR. The Subcontractors will need access into the SPEAR Ring starting at about 11:00 am until about 11:30 am. They will go in the area of old BL4 and the BTS.	Cadapan		Subcontractors, Cadapan, Choi		1