

# SSRL - Accelerator Maintenance Day Tasks

2/7/2011

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
Access	Conditions:	<p>1 . Booster: run to 7:00 am                      access: 7:15 am                      SPEAR; run to 6:10 am (for kicker board tests)                      access: 6:30 to 14:00 hrs</p> <p>Booster ZVV 7:00 to 7:15 am                      - White circuit                      SPEAR ZVV 7:30 to 8:00 am                      - Dipole PS</p> <p>Set BL13 gap to 100mm and row phases to ZERO before access to SPEAR.</p> <p>Access Keys:                      09:30 to 10:15 am 10 keys from East Pit (Seismic Upgrade Tour)</p>					
Access	Conditions:	<p>2 . Recovery:                      Injector - White Circuit checks and testing - 2 hrs                      SPEAR - Power Supply Checks - 2 hrs after power restored</p>					
Access	Conditions:	<p>3 . OUTAGES: none</p>					

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Access	Conditions:	4 . RSWCF Open: Jobs 8, 20, 21, 23, 25  Linac and Booster roof deposited 8:00 to 12:00 noon					
SPEAR	Computer Control	5 . SPEAR server outage (no history data available).	Wermels kirchen				0.5
Injector	Beam Monitoring and Diagnostics	6 . Install cable for LTB Toroid. Linac access required.	Martin		Martin, Wallters		
Injector	Beam Monitoring and Diagnostics	7 . Install 1/2 of cable stabilization components. Adjust 358 MHz phase.	Martin		Martin, Wallters		
Injector	Beam Monitoring and Diagnostics	8 . Clean up BCS cabling in 140-102. Requires RSWCF, SAPE-077.	Martin		Martin, Wallters	RSWCF	
Injector	Beam Monitoring and Diagnostics	9 . Install extra trigger inhibit circuit on BTS ACMS	Ortiz				

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SPEAR	Power Conversion	10 . Check and repair bad SPEAR3 kicker boards. This will again require a brief 6:00 run before opening the main breaker.	Rafael	PCD	(PP1: Beukers /Krzaszczak)		
SPEAR	Power Conversion	11 . Reroute booster kicker fire wires to make them more likely to trip in the event of a fire.	Rafael	PCD	(PP1: Beukers /Krzaszczak)		2
SPEAR	Power Conversion	12 . PCD to ZVV SPEAR 6:30 to 7:00 - Booster ZVV 7:00 to 7:30	Rafael	PCD	DC3: Antonio de Lira / PEM		1
Injector	Power Conversion	13 . Install PS sliding rails for two supplies. B140 Rack 103	Rafael		DC3: Antonio de Lira / PEM		4
Injector	Power Conversion	14 . Installation of newly designed White circuit capacitor cells into banks Cx and Cy. After installation will need 2 Hrs of White circuit testing time.			F. Raphael, A. deLira, P. Seward, G. Johnson, PEM		5+
SPEAR	Safety	15 . Conduct an activation survey of SPEAR inside around 14S (old BL3 & 4).	Allan		Healy, RPFO		1

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SPEAR	Protection Systems	16 . Repair two outdoor power outlets for SLAC BSOICs. Repair one SLAC BSOIC power plug. Start installing GFCIs on BSOIC outlets Safety - task #1 requires circuit breaker for the SLAC BSOICs be powered off before the repair work starts.	Ortiz		Facilities, Ortiz	No RSWCF	
SPEAR	MPS	17 . Check BL12ID T/C system and for the LINAC check the analog PLC module for the injector I&C.	Lessard				
LINAC	RF - Linac	18 . Linac RF rack - install additional monitor points for the rack and recalibrate the system. Starting at 6am. This work does not, in itself, prohibit beam generation, in the linac or booster, but it does interfere with the linac feedbacks.	Sebek		Wachter		4
Injector	LCW & Pneumatics	19 . Commission SF6 Gas Recovery Cart  Connect cart to linac waveguide in bldg 140, simulate and/or implement SF6 transfer from waveguide to storage bottle, refill waveguide. Document procedure.	Gierman	MSG	DiMattia, Gierman		2
Injector	Mechanical	20 . Crane 85 inspection, SLAC FAC	Ernst	MSG	SLAC Fac	RSWCF	3

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Injector	Mechanical	21 . Replace leaking pneumatic valve in LINAC, (RSWCF required) (stoppers) and coordinate with Vac. Group (IV-1)	Ernst	MSG	1-MSG tech	RSWCF	1
Injector	Mechanical	22 . Mechanical inspections Booster ring	Ernst	MSG	1-MSG tech		1
Injector	Mechanical	23 . Inspect TCW system, add to RSWCF open for crane roof access	Ernst	MSG	1-MSG tech	RSWCF	1
Injector	Mechanical	24 . G49 screen troubleshoot	Ernst	MSG	1-MSG tech		1
Injector	Mechanical	25 . Fall restraint anchor point inspections, Booster ring roof (RSWCF required).	Ernst	MSG	1-MSG tech, Behzad	RSWCF	1
SPEAR	Mechanical	26 . Fall restraint anchor point inspections; SPEAR east & west,	Ernst	MSG	1-MSG tech, Behzad		1
SPEAR	Mechanical	27 . Mechanical inspections SPEAR ring	Ernst	MSG	1-MSG tech		1
SPEAR	Mechanical	28 . Review cable run for SPEAR LCW 02, ph, conductivity monitoring SPEAR history connection - No access required	Ernst	MSG	1-MSG tech, Lessard		1
SPEAR	HLS	29 . Check non working HLS sensors at BL 13 and BL 11.	Gassner				

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SPEAR	Insertion Device	30 . 1) Replace damaged Al plates for the lower left EPU row (mech hardware holding encoder and limit swiches) and verify operation of encoder and limit switches for that row. 2) Align the 4 EPU rows with the Alignment crew and reset the row phase encoder zeros. 3) Reinstall 1/4"-28 missing screws that were holding the old harware.	Dell'Orco	MSG, AEG	1-MSG tech, AEG, Dell'Orco		4
SPEAR	Insertion Device	31 . BL13 ID 1) Replace the broken hasp on the Gap motor driver chassis. 2) Re-configure the Upper Right and Lower Left EPU encoders. 3) Labeling & dressing the cables.	Dao				4
Injector	Vacuum	32 . Walk thru	Pak	Vacuum	Vargas		0.5
Injector	Vacuum	33 . Assist troubleshoot of G-49 and Diagnostic room Camera's;	Pak	Vacuum	Vargas, MSG		1.5
Injector	Vacuum	34 . Install IP PS to the RF Klyst4Tm2 1ach	Pak	Vacuum	Vargas, Ortiz, Park		1
Injector	Vacuum	35 . Lubricate LTB and BTS Stoppers; (dry lube)	Pak	Vacuum			0.5

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SPEAR	Vacuum	36 . Walk thru	Pak	Vacuum	Pak		0.5
SPEAR	Vacuum	37 . 12S-IG1 troubleshoot	Pak	Vacuum	Pak, Ortiz		2
SPEAR	Vacuum	38 . Change Zone 5 IP PS's back to original configuration	Pak	Vacuum	Pak		1
Beam Line	Vacuum	39 . Walk thru	Pak	Vacuum	Bach, Jacobson		0.5
Beam Line	Vacuum	40 . BL09 BPM Air Guard Leak vac system; Install copper coil with low service bend and tee to bleed off small LCW leak of pumping line	Pak	Vacuum	Vargas		1
Beam Line	BL - Mech/Elec/Checks	41 . Investigate issue with apparent iron contamination of the BL13-0 M1 mirror. Vent/inspect/pump down/ leak check	Brehmer	Vacuum	Brehmer, Bach, Jacobson, Pak, Vargas		7
Beam Line	Vacuum	42 . -BL03 and old BL04 front ends salvage clean rt angle valves, IG's and IP's. Also to designate components to save; (RB and MJ) ongoing task for Maintenance Day/s	Pak	Vacuum	Bach, Jacobson		
SPEAR	Vacuum	43 . Re-Inspect RF Cavity IP feed thru's, HV cables short and long for abnormalities	Pak	Vacuum	RP, JV, MN		2
Injector	Vacuum	44 . Booster Ion gauges - replace existing trunk cable for History Plot read backs	Pak	Vacuum	Ray O, Clemens, JV		2

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Beam Line	Vacuum	45 . Inspect location for replacement BL9 MO tank	Busse				
SPEAR	Facilities	46 . Seismic Tour - cover exposed leads near crossover points for the tour with insulating blankets, ie. SPEAR girder 14 girder 3 Booster girder 15	Scott	MSG			
Accelerator	Facilities	47 . Seismic Upgrade - Vendor Site Tour Starting 9:30 in SPEAR CR Split into two groups Route: SPEAR - tunnel old BL4 tunnel, BTS, and BL4 roof Booster - tunnel to barrier D B140 - booster roof W. side - linac roof B131 to old BL4 Back to SP CR over BTS	Stetson		Stetson, Scott, et al		