

# SSRL - Accelerator Maintenance Day Tasks

5/2/2011

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
Access	Conditions:	1. 6am to 2pm SPEAR Down 6:00 -6:10 Run SPEAR kicker board tests. 6:15 PEM to ZVV SPEAR Di-pole PS 6:30 PEM to ZVV Booster White Circuit 7:00 to 7:15 ZVV SPEAR 17G Quads (MSG buss covers)  09:00 - 12:00 Restricted access in Linac for Laser Alignment 1) Power off the linac TCW heater & system and secure 1 MSG tech, 30min.			PP1: Beukers Krzaszczak DC3: deLira Gjohnson-PEM		
Access	Conditions:	2. OUTAGES: 6:30 am -12:30 pm SLAC LCW Down					

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Access	Conditions:	3 . Recovery: SPEAR - Power Supply Checks - 2 hrs after power restored 1) Power up TCW system and stabilize - 1 MSG tech, 1hr 2) Clear all SPEAR and Injector flow switch MPS faults - 1 MSG tech, 1hr 3) Review & adjust operating pressures as necessary, SPEAR RF klystron, cavities and injector regulated systems - 1 MSG tech, 2hrs. 4) SPEAR & Injector system inspections for leaks etc. - 1 MSG tech, 1hr 5) Repair any accelerator flow problems as necessary - 2 MSG tech, 2hrs.			DC3: deLira, Johnson-PEM		
Access	Conditions:	4 . RSWCF Open:					
SPEAR	Beam Monitoring and Diagnostics	5 . Complete EEIP Survey B116-101, B132-102	Martin		Martin, Wallters		
SPEAR	Beam Monitoring and Diagnostics	6 . Test Bucket Select chassis & BuckoMat B117	Martin		Martin, Wallters		

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Booster	Power Conversion	7 . EEIP survey & inventory Cells 1-16, Cx & Cy inspections PCD numbers to WC Cap banks	Rafael	PCD	DC3: deLira - Gjohnson-PEM		
Booster	Power Conversion	8 . EEIP survey & inventory De-post Linac roof Survey Booster extract. Rack	Rafael	PCD	DC3: deLira - Gjohnson-PEM		
Booster	Power Conversion	9 . Replace Booster Modulator K2 focus coil power supply	Rafael	PCD	DC3: deLira, Gjohnson-PEM		1
SPEAR	Power Conversion	10 . SPEAR Kicker board repairs	Rafael	PCD	PP1: Beukers - Krzaszczak - PEM		
Booster	Power Conversion	11 . Booster kicker inspections			PP1: Beukers - Krzaszczak - PEM		
SPEAR	Power Conversion	12 . SPEAR kicker K2 first pulse matching	Rafael	PCD	Beukers		1
LTB	MPS	13 . Install the LTB-B1 screen remote control	Lessard				
LINAC	Gun & Linac	14 . Access the linac vault for laser alignment. Only have qualified laser operators in the vault.	Corbett, Gierman				

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LINAC	Gun & Linac	15 . TDR K2 Helix Coaxial high power RF cable.	Wachter				2
LINAC	Gun & Linac	16 . LINAC RF Diodes Automation Calibration .	Wachter				3
LINAC	Gun & Linac	17 . LINAC System drawing documentation	Wachter				1
SPEAR	Mechanical	18 . Mechanical inspections	Ernst	MSG	1 MSG tech		0.5
SPEAR	Mechanical	19 . Test fit SPEAR 34Q quad magnet conductor cover	Ernst	MSG	1 MSG tech		2
SPEAR	Mechanical	20 . Finish RFHVPS walkway railing	Ernst	MSG	2 Matrix tech		4
SPEAR	Mechanical	21 . Install Hoffman box unistrut support	Ernst	MSG	2 Matrix tech		2
Injector	Mechanical	22 . Mechanical inspections	Ernst	MSG	1 MSG tech, 30min		0.5
Injector	Mechanical	23 . Remove 14SD lower half (note: if tooling is ready)	Ernst	MSG	Ernst, DiMattia, Dell'Oro		3
Injector	Mechanical	24 . No Access: Read and record TCW Honeywell controller settings Inspect TCW unit on booster roof	Ernst	MSG	DiMattia Ernst	RSWCF & de-post area	1

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Injector	Mechanical	25 . Inspect high risk pressure systems: TCW, Bg.# 140 - OS, Risk Level 1 SPEAR Acc Compressed Air System, Bdg.# 100, 120, 131, 140, Risk Level 1	Ernst	MSG	DiMattia Ernst	RSWCF & de- post area	1
SPEAR	Insertion Device	26 . Optimize motions - encoders and limit switches on the EPU row phase motions. No tunnel access needed., but no other work should be done on the ID during the time I might be moving the device (from 9am to noon).	Rarback			Rope of ID with yellow warnin g tape.	3
LINAC	Vacuum	27 . LINAC: Walkthrough Possible repair at power coupler to DLWG flanges.	Nalls	Vacuum			
		Beamlines: Walkthroughs Check MDP pump pressure at BL9 BL3 and BL4 removal for seismic upgrade.					

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Booster	Vacuum	28 . Booster: Walkthrough	Nalls	Vacuum			
BTS	Vacuum	29 . BTS: Walkthrough BTS-IG1 possible collector wire repair	Nalls	Vacuum			
SPEAR	Vacuum	30 . SPEAR: Walkthrough Replace downstream ion gauge on the high pressure test system. Restart bake out to for 1 day.	Nalls	Vacuum			
Beam Line	Vacuum	31 . Beamlines: Walkthroughs Check MDP pump pressure at BL9 BL3 and BL4 removal for seismic upgrade.	Nalls	Vacuum			
SPEAR	Facilities	32 . Gordon-Prill - contractor/sub-contractor walk-thrus - survey work SPEAR 14S area, B131	Stetson	Fac	Stetson, Cheung, up to 8 contractors		