

SSRL - Accelerator Maintenance Day Tasks

3/7/2011

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
Access	Conditions:	<p>1. SPEAR; 6:00 am to 6:40 (scrape beam to 20mA - RF Cav Noise Test 6:00 to 6:10 am (kicker board tests) Booster 6:00 to 6:15 PEM to ZVV White Circuit SPEAR 7:00 to 7:15 PEM to ZVV Dipole PS, 17G Quads Access: 6:15 am Injector Access: 7:00 SPEAR</p> <p>Access Keys: 09:30 to 10:15 am 10 keys from East Pit (Seismic Upgrade Tour)</p>			PP1: Beukers Krzaszczak DC3: deLira Gjohnson-PEM		
Access	Conditions:	<p>2. Recovery: Injector - White Circuit checks and testing - 3 hrs SPEAR - Power Supply Checks - 2 hrs after power restored</p>					
Access	Conditions:	<p>3. OUTAGES: none</p>					
Access	Conditions:	<p>4. RSWCF Open: Linac and Booster roof deposited 8:00 to 12:00 noon</p>					

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Booster	Beam Monitoring and Diagnostics	5. Install and commission SPEAR/Booster Phase Lock chassis (without feedback).	Martin				1
Booster	Power Conversion	6. Booster clean up - move old kicker PS to trailer 4137	Rafael	PEM	DC3: deLira - Gjohnson-PEM		1
SPEAR	Power Conversion	7. SPEAR kicker K1 work to address first pulse problem	Rafael	PEM	PP1: Beukers - Krzaszczak		6
Booster	Power Conversion	8. Booster access required -Measure WC trim capacitance	Rafael	PEM	DC3: deLira - Gjohnson-PEM		1
Booster	Power Conversion	9. Booster White circuit work (WC BIAS supply)	Rafael	PEM	DC3: deLira - Gjohnson-PEM		5
Booster	Power Conversion	10. *Booster White circuit commissioning	Rafael		DC3: deLira - Gjohnson-PEM		3
Accelerator	BCS	11. Replace BSOIC S8 Remove (no longer needed) BSOICs S10, S11, S13.	Guerra	RPFO			
Beam Line	MPS	12. Access for the BL12-ID T/C diagnostic.	Lessard				

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LINAC	RF - Linac	13 . Access LINAC roof top near Mechanical Phase Shifter to Calibrate Forward and Reflect Cable.	Wachter				
LINAC	RF - Linac	14 . LINAC RF Diode Calibration If LIN-DG1 and LIN-DG4 Trigger available on that day.	Wachter				
LINAC	RF - Linac	15 . LINAC System documentation : LINAC Roof top and LINAC Accelerator housing.	Wachter				
Injector	Mechanical	16 . Perform mechanical inspections	Ernst	MSG	1 MSG tech		1
Injector	Mechanical	17 . Review possible booster ring sextupole install	Ernst	MSG	Ernst, DiMattia, Dell'Orco		1
Injector	Mechanical	18 . If weather permits receive 358 spare klystron	Ernst	MSG	SLAC Riggers/2 MSG techs		
LINAC	Beam Monitoring and Diagnostics	19 . Replace Stripline coupler / detector module on K2 output.	Wachter				
SPEAR	Mechanical	20 . Perform mechanical inspections	Ernst	MSG	1 MSG tech		1

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SPEAR	Mechanical	21 . Cavity C and D waveguide and window inspection MSG will remove the miters pieces on the air side of the windows for cavities C and D, supporting the upstream waveguide as necessary before removing these pieces. We will inspect the air side of the windows and the insides of the spool pieces for evidence of arcing, documenting the surface condition with photographs. The vacuum group may use a boroscope to video the waveguide upstream of the miter to look for other evidence of arcing.	Ernst	MSG	2 MSG tech, Vacuum		4
SPEAR	Mechanical	22 . Review/fab mockup on 18QF2 quadrupole conductor cover	Ernst	MSG	1 MSG tech		1
SPEAR	RF - SPEAR	23 . SPEAR HVPS maintenance will be performed during the Monday maintenance day. PCD will inspect and replace as necessary semiconductor elements in the power supply. Service request S036325 has been submitted to facilities so that the High Voltage Electricians can lock out the supply at 07:30 on Monday.	Sebek	PCD	PEM, Lam, Larrus	LOTO	6

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SPEAR	RF - SPEAR	24 . Inspect and re-terminate, as needed, the fiber optic cables that go from the cavities to the low level controls in B132. We will measure the insertion loss of the fiber cables and if the loss is excessive, we will reterminate the fibers.	Sebek		Ramirez, Sebek		2
SPEAR	RF - SPEAR	25 . Modify the camera arrangement that we currently have viewing the windows in cavities A and C. We will replace at least one of the cameras with a conventional video camera. We will run the output of this camera to a monitor located in B132.	Sebek		Ramirez, Sebek		1
SPEAR	Alignment Engineering	26 . Troubleshoot HLS sensor at BL 11 ID.	Gassner	AED			
LTB	Magnets	27 . Inspect LTB B2 area to evaluate installation of a new sextupole magnet.	Dell'Orco				
LINAC	Vacuum	28 . Walkthrough	Nalls	Vacuum			
LINAC	Vacuum	29 . Leak check RWGN	Nalls	Vacuum			
LINAC	Vacuum	30 . Inspect ion pump cables for UV damage	Nalls	Vacuum			
Booster	Vacuum	31 . Walkthrough	Nalls	Vacuum			

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Booster	Vacuum	32 . Inspect ion pump cables for UV damage	Nalls	Vacuum			
Booster	Vacuum	33 . □Installation of new ion pump power supply @Cavity Klystron.	Nalls	Vacuum			
SPEAR	Vacuum	34 . Walkthrough	Nalls	Vacuum			
SPEAR	Vacuum	35 . Inspect ion pump cables for UV damage	Nalls	Vacuum			
Beam Line	Beam Monitoring and Diagnostics	36 . Inspect BL6-2 M0 mirror for piezo cable, pull/install cable if it doesn't exist.	Van Campen				
Beam Line	Beam Monitoring and Diagnostics	37 . Inspect BL7-1 M0 mirror for piezo cable; pull/install cable if it doesn't exist and if there is enough time and resources. BL6-2 has higher priority.	Van Campen				
Beam Line	Beam Monitoring and Diagnostics	38 . Install high-resolution-line TC cable to BL6-2 M0 mirror LCW - I haven't identified the resources for this yet.	Van Campen				
Beam Line	Beam Monitoring and Diagnostics	39 . Testing BL14-3 optics motors.	Harrington		Harrington +2		

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Beam Line	Vacuum	40 . Inspect ion pump cables in alcove for UV damage.	Nalls	Vacuum			
Beam Line	Vacuum	41 . Start disassembly old beam lines 3 and 4 in alcove components only no shielding removed.	Nalls	Vacuum			
BTS	Vacuum	42 . Walkthrough	Nalls	Vacuum			
BTS	Vacuum	43 . Inspect ion pump cables for UV damage	Nalls	Vacuum			
Accelerator	Facilities	44 . Seismic Upgrade - Contractor Tours	Stetson		Stetson, Cheung, Scott		
Beam Line	BL - Mech/Elec/ Checks	45 . 10-1 mirror-pitch feedback stopper status switches install.	B. Johnson		Abe Maciel		
Beam Line	BL - Mech/Elec/ Checks	46 . 6-2 mirror LCW temperature feedback system heater install.	B. Johnson		Dave Day, Glen Kerr, Bart Johnson.		