

Accelerator Maintenance Day Tasks

1/9/2006

				Dur. (hr)	6	7	8	9	10	11	12	1	2	3	4	
Access		1. SPEAR - Controlled Access			x	x	x	x	x	x	x	x	x			
		2. RWSCF Open: a) Test stored current interlock b) Klystron window shielding														
		3. OUTAGES:														
		4. Some lights out in B140 - for replacement of ballasts. Coordinate activities with Karen Chan-Hui (8am on), for portable lighting.	Chan-Hui						x	x	x	x	x	x		
		5. SPEAR - Power Supply Checks													x	x
Beam Lines	BPM	6. Seal BL7 BPM for N2 flow	Kerr	1		x										
Beam Lines	Vacuum	7. BL6-2 LN Mono: Adjust encoder to pin center	Jacobson, Neal	1												
		8. Bld. 131 beamline checkouts	Jacobson, Bach	7		x	x	x	x	x		x	x			
		9. Determine quantity of bellows and component covers needed for newly installed beam line components.	Wiertel, Jacobson, Neal	2												
		10. Modify the He window on the BL 7 BPM in alcove	Kerr, Wiertel	2												
		11. BL6-2 BTM N2 leak Calibrate encoder	Jacobson	1	x											
Injector Facilities		12. Walk through Injector / SPEAR to identify defective light fixtures	Chan-Hui, CEF	1			x									
		13. Replacement of lighting ballasts in B140	Chan-Hui, CEF	7				x	x	x	x	x	x			

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Injector	Machine protection	14. Test Booster microphone system	1					x	x					
Injector	Magnet/Power Supplies	15. Verify magnet/power supply for CEBAFs.	1								x			
		16. Booster - labels on magnet	1					x	x					
Injector	Vacuum	17. Ion pump power supply maintenance - blow dust out of chassis	2		x	x								
		18. LINAC vault: Investigate methods to protect the SiC Dummy Load from damage.	1											
SPEAR	Beam Diagnostics	19. BPM Curr Mon adjust signal source to SCI												
		20. Stored Current Interlock (SCI)- Test current ramping circuit												

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SPEAR	Beam Diagnostics	21. Task: Rearrange chassis in the instrumentation racks in B132-102-R05, R06 for installation of additional VME development crate. Install VME crate Details: The instrumentation racks in buildings 116 and 132 were designed to be very similar. Additional equipment in racks in B132 forced us to deviate from the original rack layout. Because of this we cannot fit all of the equipment needed for the development of our single turn BPM system. During the shutdown, the additional equipment was moved to another rack, freeing up the original space. We need to move about 8 chassis, and their associated cables, in two racks of B132.	Sebek, Wachter, Martin	4			x	x	x	x					
SPEAR	Cable Plant	22. Replace cover blown off during the storm TCRF02	PCD, Widmeyer												
		23. Attach Ground to Cable Tray, Overhead tray between B116 and B132.	PCD, Widmeyer												
SPEAR	Insertion Device	24. Remove hard stops on BL-7 ID, check 500 ma lead clearances and set/test minimum jaw gap limits, 8-hours, 2 technicians. Details: remove "B" locks (Ian), rewire mechanical limit switches (Tom Dao), establish software limits (Harvey Rarback).	MSG, R. DiMattia, G. Woodcock, Dao, Evans, Rarback	8	x	x	x	x	x	x		x	x		
		25. Trouble shoot power indicator LED for BL5 Motor Driver Chassis	Dao, Taylor	2				x	x						
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SPEAR	Insertion Device	26. Test BL-5 EPU movement and Ion pump current fluctuations	Poling, Pak, Carr	2									x	x		
SPEAR	Mechanical	27. Check LCW flow switch BL11-WFS7.	1 Tech	0.5						x						
		28. Inspections	MSG, J. Guerra	.5	x											
		29. Task: Plumb auxiliary compressed air line over SPEAR tunnel shielding. Details: Cut and fit copper pipe prior to maintenance day.	2 Tech	4	x	x	x	x								
SPEAR	Power Supplies	30. B118-MCORR03-PS - replace bulk supply	Rafael, Taylor, Johnson	1							x					
		31. MS1-SD1, investigate bitbus ground fault alarm	Rafael, Taylor													
SPEAR	RF	32. Correct minor hardware problems in I/Q modules Details: A measured parameter in the tuner feedback control (the cavity phase) shows small unphysical step changes that cause the tuners to hunt. Consultation with SLAC personnel lead us to believe that the problem is caused by loose connections in some of the hardware modules of the system. We are trying to confirm this diagnosis with the SLAC controls group and, if possible, have them correct the problem. If modules need to be replaced, part of the two hours will be 30 minutes to recalibrate the new or modified modules.	SLAC controls (Mike Browne)	2			x	x								

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SPEAR	RF	33. Add bleed-off port to SPEAR Klystron circulator section of waveguide. Details: Install plumbing in dry air system to enable manual bleed-off for non-ionizing radiation (NIR) test. Replace an elbow with a tee, elbow, short length of tubing, and valve. After plumbing, time bleed-down time of waveguide section for NIR procedure.	1 Tech	2		x	x							
		34. Check air ducting for klystron window cooling Details: During troubleshooting of above problem during the last maintenance day, we discovered that there might be a loose seal in the ducting system that directs air from the blower across the klystron window for cooling. The klystron group will remove the shielding around the klystron window and inspect the air passage in question. We will fill out an RCWF that we will close out once we replace the lead shielding.	SLAC Klystron Group (Hill)	4			x	x	x	x				
		35. Check readback for tuner in cavity C Details: We do not obtain correct readings from a potentiometer on cavity C. Last maintenance day we found one problem that we thought would fix this situation, but unfortunately it has not. We will look for more problems.	SLAC Klystron Group (Hill)	1									x	
SPEAR	Vacuum	36. Move up Vacuum Zone 5 01G-IG-TSP3 power supply in rack #B118-19 closer to 18S-IG1.	Pak, Nalls	1										

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SPEAR	Vacuum	37. Complete pre-startup vacuum checks in B118 Control Room area.	Pak	3											
		38. Connect TCs to 03F-TRP for monitoring BL5 ID chamber	Ortiz, Theobald	4											
		39. Visual walkthrough inspection of Ring and Beam Line vacuum systems.	Neal, Jacobson, Wiertel	1	x										

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