

# Accelerator Maintenance Day Tasks

2/6/2006

				Dur. (hr)	6	7	8	9	10	11	12	1	2	3	4
Access		SPEAR - Controlled Access			X	X	X	X	X	X	X	X	X		
		RWSCF Open: a) Stored Current Interlock (SCI). Two RSWCF will be required													
		OUTAGES:													
		SPEAR - Power Supply Checks	Rafael											X	X
		K3 Arcing inspection - following maintenance, the inspection requires operating K3 above normal operating conditions.													
Injector	Mechanical	1. Review Injector ring penetrations for future warm air venting	B. Poling	1											
		2. Review Injector ring for permanent circulating fan installations	B. Poling	1											
		3. Set SSRL linac e-gun chiller to remote sensing	G. Woodcock	20 min											
Injector - Booster	Power Supply	5. Replace - LTB2 - 20 V - 250 A PS.	ED&M, Rafael	1											
Injector - Booster Ring	Facilities	6. 1) CEF will replace broken lens in Booster Ring per request 69671. 2) Facility (Karen Chan-Hui) will conduct a walk through to check all lights in SPEAR and Booster ring.	CEF, Karen Chan-Hui												

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Injector - Linac	Vacuum	7. LINAC vault: Complete GTF pre-startup checkouts (IP feedthrough inspection).	Nalls	2													
		8. LINAC vault: Review AC power outlet move to a less obstructive location.	Nalls, Morales, Chan-Hui	1													
Injector - Linac:	Power Supply	9. Replace Thyatron filament timing.	ED&M, Rafael	1													
SPEAR	Control System	10. History Database down for about one hour for maintenance. (no HistoryPlot or IOC booting during this time)	Clemens	1													
SPEAR	Facilities	11. Fire extinguisher checks	Ricardo														
		12. 1) CEF will replace all burned lamps in SPEAR per request 69668 (including PPS light ballasts)	CEF, Horton, Karen Chan-Hui														
		2) CEF will take one len sample from the broken len fixtures in SPEAR to find the matching type.															
		3 Facility (Karen Chan-Hui) will conduct a walk through to check all lights in SPEAR and Booster ring.															

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SPEAR	I&C	13. Install 4 each TCs in B116, 2 each over each Bergoz unit.	ED&M, Widmeyer													

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SPEAR	I&C	<p>14. Purpose - add modifications to improve the test current source. Additional purpose is to allow 500 mA operation during the AP program.</p> <p>Description of work:</p> <p>Access system, remove spare SCI chassis. Modify current ramping circuit with engineering changes intended to stabilize test current and current trip point. Test modified chassis on bench. Set trip points for 500 mA operation. Re-install 500 mA chassis and re-certify system. Secure SCI.</p> <p>After completion of 500 mA AP program, access SCI system. Switch chassis for 100 mA operation. Re-certify system. Secure SCI.</p> <p>Inspect SCSI cables, particularly SCSI cables handling analog signals, for evidence of corrosion. Replace or document/tag bad cables, in buildings 116, 132, and 117.</p>	Martin, et al
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SPEAR	Insertion Devices	15. Determine the cause of the blown LED; replacing the LED and the current limiting resistor on BL5 Motor Driver chassis	Theobald, Dao, Wallters (Access not req.)	2													
		16. 1Determine cable route for BL12 ID Controls	Dao	1													
SPEAR	Mechanical	17. Mechanical inspections, J. Guerra, 30-min.	Guerra	.5													
		18. Install BL-5 horizontal chain drive cover,	G. Woodcock, J. Guerra.	1													
		19. Install straight section/ID LCW valve locks	R. DiMattia	3													
		20. Power off return LCW return pump, read all LCW circuits	G. Woodcock, J. Guerra	3													
		21. BL-5 ID skew coil review	B. Poling, D. Ernst	1													
		22. BL-5, 6 ID new cover measurements	B. Poling	2													
SPEAR	Power Supply	23. Dipole Bulk PS checking for SLM interlock relay instalation.  Intermediate PS (2 QD's) fans replace  MCOR voltage limit circuit board - Install Fuse for over current protection.	ED&M, Rafael	4													

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SPEAR	PPS	24. Check quadrant 3 LION cable for resistor terminator box. This cable was removed and reinstalled last summer shut down for BL12 chicane work.	Wallters	1												
SPEAR	RF	25. SPEAR RF : tuner maintenance	Sebek / Hill / Wachter	3												
SPEAR	Vacuum	26. Ring and Beam Lines visual walkthrough inspection.	Pak, Bach, Wiertel	1												
		27. Complete SPEAR pre-startup vacuum checks in B118 Control Room area	Pak	2												
		28. Ring and Beam Line Isolation valves installed--inventory review.	Pak, Jacobson, Neal, Wiertel	2												
SPEAR Beam Lines	BL2	29. Hang "travelers" on BL2 (in alcove) components.	JR	1												
SPEAR Beam Lines	BL7	30. Main items are: Cable pulls MPS slit limit checks. LCW & Controls checks	Van Campen, et al													
		The number of people could range from 1-4.														

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SPEAR Beam Lines	Vacuum	31. BL6-2: Replace BTM nitrogen fill needle valve.	Jacobson, Bach												2		
		32. BL6: Inspect 6-0 IG3 for possible filament failure.	Bach, Wiertel												1		
		33. BL5-1: Replace 5-1 MR3 spherical mirror w elliptical mirror, begin bakeout	Marks, Bach, Rowen, Donghui												6		
		34. BL9-1: Install Monochromator crystal.	Tracey, Hollenbeck, VanCampen												4		
		36. BL9 - adjust mirror limits and hard stops as required - adjust vertical slit limits and hard stops as required - measure stage positions	Wiertel, Busse												5		
		Vac technician - glyptal components after adjustment															
		All BL's: Beryllium Window inventory verification.	Wiertel, Bach, Jacobson, Neal												4		

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