

# Accelerator Maintenance Day Tasks

4/3/2006

		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. OUTAGES: a) Chilled water off (for B404 switchgear work) - HVAC units in B118, B120, B130 off		X	X	X	X	X	X	X	X	X	X	X
	3. RWSCF Open: a) NONE												
	4. SPEAR - Power Supply Checks	Rafael										X	X
Beam Lines BL10	5. Troubleshoot BL10 mirror and slit tanks	JR, Bagnasco	2										
Beam Lines BL5-4	6. Out-Alcove: Vent BL to replace grating.	Bach, C. Troxel, Neal, DongHui	6										
Beam Lines BL7	7. - place 7-0 IV1 in operational run mode (off bypass), test PPS/MPS interlocks.	Wiertel, Horton, Neal, et al	4										
	8. - final inspection, test, review in-alcove optics and cabling.	VanCampen, Gathright, Wiertel, Neal	4										
	9. - test front end systems	Horton et al											
	10. - optical component testing with BLE - walk-through inspection												
(All optical motion controls have been													

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		11.	tested except two sets of optical limit switches.) - open 7-0 to SPEAR vacuum.													
Beam Lines	BL's6,7,9	12.	Out-Alcove: Check Monochromator gate valve orientation.		Neal, Bach, Wiertel		1									
Injector	Booster Chokes	13.	Lamination clamp installation - glue rubber pads		MSG		6									
Injector	Booster RF	14.	Booster RF Soft Start box: Replace all relay sockets. Inspect relays and other components, replace as required.		Wachter		6									
Injector	BTS (Vacuum)	15.	Install toroid at G10.		Nalls, Pak, Ibarra, Armenta		4									
Injector	GTF	16.	Review Gun Cathode H2 cleaning test configurations.		Nalls, Morales, Gierman, Schmerge		1									
Injector	I&C	17.	Install two coaxial cables (2 pulls of LMR-400-DB)		Burton, Martin		8									
			Origin B140-105, elev. 08 d-estination is inside Booster ring, near													

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Girder 11.  
 Functions of the cables:  
 1. Bergoz ICT Current Toroid  
 2. Bergoz ICT Current Toroid  
 Calibration

Routing involves trays: TD140F19,  
 TC140F03

This work involves installing cable  
 approximately 25'  
 above ground level, though it is  
 probably not necessary for people to  
 work that high, because the Booster  
 enclosure serves as a platform. This  
 work also involves removing and  
 reinstalling fireblocking bags and/or  
 radiation blocking bags or bricks.

Time permitting cables will be  
 terminated.

Injector	LINAC Vault - electrical service	18.	Relocate 110vAC receptacles between Chopper and DLWG#1.	Chan-Hui w/CEF, Nalls	7
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Injector & SPEAR	Mechanical	19.	Mechanical Inspections	Poling et al	1
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SPEAR	Insertion Devices	20.	BL5 ID: Modify BL5 Motor Driver chassis rear panel, pull new cable for the position switches and install BL5 Position Switches Monitor chassis to incorporate the logic to the Motor Driver preventing the Gap to close if the insertion device is not in the correct positions (i.e. 30 period, 15 period, EPU or 10 period)	Wallters, Dao	6
		21.	BL5 - install horizontal drive chain cover	MSG	3

SPEAR	Power Supply	22.	- continue with improvements in MCOR System - install diagnostic equipment in MS1-QF to track down the problem with AUX Supply.	Rafael	
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SPEAR	PPS, MPS	23.	Certify the following hutches and connect them to the Hutch Summary System.  7-0, 7-1, 7-2, 7-3  7-0 will be connected to the Septum Interlock and certified.  Connect the following MPS	Horton, et al	
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components.

- Spear Key
- 7-0 IG1
- Spear Dump
- Dose Limit
- Orbit Permit
- Steering Enable ( BL Open )
- 7-0 F.E. closed ( for orbit interlock )

Test the 7-0 Fast Shutter and 7-0 IV1

SPEAR	Vacuum				
		24.	Ring and Beam Line visual vacuum inspection walkthrough.	Pak, Bach, Wiertel	1
		25.	Review requirements for QFC spacer bar installations at Vacuum Zones 2 and 3.	Pak, Morales	1