

Note:

Entry into Accelerator housing:

- a) All entry by Controlled Access
- b) Valid Job Hazard and Mitigation Analysis (JHAM) required
- c) Tunnel Hazards Training required
- d) Review of SPEAR Tunnel Area Hazard Analysis (AHA)
- e) Review of SPEAR Lock Down and Verification
- f) Review of planned work to identify if Lock and Tag required

Work Authorization:

- a) Prior authorization and completed Job JHAM and AHA processes are required to work on accelerator systems.
- b) For Non-SSRL Workers at SSRL - implement Interim Work Authorization Process

Planning for Safety on the Job:

- a) Apply Integrated Safety and Environmental Management System

Other:

- a) Gray entry doors to SPEAR housing to be kept closed - to preserve temperature stability of Accelerator

Accelerator Maintenance Day Tasks

3/5/2007

			Proj. Mngr	Shop	Task Person	Forms	(hr)
Access	Conditions:	<input type="checkbox"/>	1. SPEAR access: 6:45 to14:00				
			--- late start for pwr test of RF HVPS cntrl				
			--- lock up 14:00hrs or earlier				
			Injector access - NO access				
		<input type="checkbox"/>	2. SPEAR - Power Supply Checks - 2 hrs after power restored				

Accelerator Maintenance Day Tasks

3/5/2007

			Proj. Mngr	Shop	Task Person	Forms	(hr)
Access	Conditions:	<input type="checkbox"/> 3. OUTAGES: Network: 9 to 10 am Database: 10 to 11 am Solaris server (prymatt): 06:30am to 10am <input type="checkbox"/> 4. RSWCF Open:					
Beamlines	BL7-2	<input type="checkbox"/> 5. Install thermistors on BL7-2 m0 mirror LCW in/out lines.	B. Johnson	BLD	Valery Borzenets, Charles Troxel, Van Campen	None	
Injector	GTF	<input type="checkbox"/> 6. Setup and test run rf system for GTF laser operation - 2 hrs Purpose: to verify the rf system can run with the laser as the rf source. During this time the injector would not be available for injection. At the end of the time rf put back to original configuration so it can inject again. Later in March when the laser is ready I will need to swap the rf source again but at least it will be tested so I will only have a laser alignment issue to deal with.	Schmerge				2
Injector/SPE	Vacuum	<input type="checkbox"/> 7. In Alcove:	Neal	Vacuum	as noted	None	
			Proj. Mngr	Shop	Task Person	Forms	(hr)

Accelerator Maintenance Day Tasks

3/5/2007

			Proj. Mngr	Shop	Task Person	Forms	(hr)
AR		<p>Injector Booster Walkthru, Nalls .5 hrs. SPEAR Walkthru, Pak .5 hrs. Beamline Walkthru, Bach/Spector .5 hrs. 1-0 Argon Interspace pumpout, Bach/Spector 1 hr.</p> <p>Out of Alcove: 7-1 Argon interspace pumpout, Bach/Spector 1 hr. 9-1 Argon interspace pumpout, Bach/Spector 1 hr.</p>		Group			
SPEAR	Beam Motion Study <input type="checkbox"/>	8. High priority:- Install new TC in SPEAR3 ring near one HLS-Sensor. starting 7:30	Ortiz	ESG	Ortiz, Scott, Gassner-Alignment	None	
SPEAR	BL4 <input type="checkbox"/>	9. Check for exposed trim terminals on BL4 ID (If so they should be covered at the time of the ID move (shutdown) so the MCOR bulk supply in building 131 does not have to be locked down for SPEAR access.	Scott			None	
SPEAR	Controls <input type="checkbox"/>	10. SCCS will be patching prymatt (our Solaris server) from 10am to about 1pm. During this time, some controls information (like DCCT) will not be available.	Rarback	SCCS		None	
		<input type="checkbox"/> 11. Network outage 9am to 10am (B117)	Wermelsk			None	
			Proj. Mngr	Shop	Task Person	Forms	(hr)

Accelerator Maintenance Day Tasks

3/5/2007

			Proj. Mngr	Shop	Task Person	Forms	(hr)
		Minor SPEAR database maintenance Expect a database outage between 10am and 11am.					
		<input type="checkbox"/> 12. High priority:- Replace ethernet controller filter in B-118	Sekon	ESG	Sekon, Theobald	None	
SPEAR	ESG	<input type="checkbox"/> 13. BL - Instrumentation 1) Evaluate BL13 and BL4 ID cable run options (conduit VS. cable tray). Determine most efficient route path available. Measure distance of each route option, to determine length of cables to purchase.	Dao		[Holmes, Wallters & Dao]		2
		<input type="checkbox"/> 14. Change ethernet air filters. Sekon, Theobald (2 hours)	Sekon	ESG	Theobald	None	2
SPEAR	LCW	<input type="checkbox"/> 15. We are going to switch the control power on 1801 during your maintenance day 3/5/07. There will be small pressure dips and no automatic temperature control during that time. We will start at 7:00 and be complete by 3:00 PM. Let me know if there is any problem with our schedule. We need to complete this work so we can do demolition on the CT1701 chemical hut.	Bill Choate	CEF		None	
SPEAR	Mech Systems	<input type="checkbox"/> 16. Take field measurements around the S13 and S16 areas, as well as to possibly take pictures.	Ibarra	Mech Systems		None	
SPEAR	MPS	<input type="checkbox"/> 17. TS Inspection on 12G	Rafael	ESG	Ortiz	None	
			Proj. Mngr	Shop	Task Person	Forms	(hr)

Accelerator Maintenance Day Tasks

3/5/2007

			Proj. Mngr	Shop	Task Person	Forms	(hr)
SPEAR	MSG	<input type="checkbox"/> 18. Review downtime shielding, shielding dismantling, AC power removal for BL-13, BL-4 ID installations	Ernst	MSG	Ernst, DiMattia		2.5
		<input type="checkbox"/> 19. Review LCW pump off operation, read circuits if necessary			2-MSG technician,		2
		<input type="checkbox"/> 20. Mechanical inspections			1-MSG technician		1
SPEAR	Power Supply	<input type="checkbox"/> 21. SPEAR3 BD-PS Choppers Labelling	Sekon	ESG	Johnson		1
		<input type="checkbox"/> 22. SPR00929 - was disconnected from 04G-COR3V and connected to 04G-QSS3 - squew quad's	Rafael			LOTO	
		<p>B-118 SPR00929 - Removed from B118-45 (spare) and connected B118-44-26-CH7 - MCOR-20 named 04G-QSS3-PS Actions - Hardwire the magnet (rafael) - Done By Monday 3/5, 2pm - Hardwire the MCOR-20 (Taylor/Johnson) By Tues 3/6, noon - Input 04G-QSS3-PS in data base - (Allison) - Install Spare MCOR module (Sekon)</p>					
		<input type="checkbox"/> 23. SPEAR3 walk thru for BL-13 cable plan			Ortiz, Rafael, SLAC Cable Plan, Sekon		
			Proj. Mngr	Shop	Task Person	Forms	(hr)

Accelerator Maintenance Day Tasks

3/5/2007

			Proj. Mngr	Shop	Task Person	Forms	(hr)
SPEAR	Power Supply	<input type="checkbox"/> 24. SPEAR3 Kickers tune up (K2 stack)	Rafael	ESG	Rafael, Sekon		4
		<input type="checkbox"/> 25. SPEAR3 BD-PS Choppers replace - if fault re-appears before Maintenance day.			Sekon and PowerTechs		2
		<input type="checkbox"/> 26. Remove instrumentation and rewire cables in Bias Power Supply			Taylor		4
SPEAR	RF	<input type="checkbox"/> 27. Request summary: 06:00 - 06:30 Inspection of HVPS controller under power 06:30 - 14:00 Four hours of HVPS maintenance 14:00 - 16:00 Two hours of HVPS recovery/verification (with an alternate time of Tuesday around 08:00 - 10:00) As a result of investigations concerning the tripping of the fast orbit feedback circuitry, we investigated the HVPS output, which appears noisier than before. There appears to be at least one bad signal coming from a sensor inside of the power supply. Before opening up the power supply, we would first like to investigate the signal further in the controller. This involves a 30 minute access with the RF system on and no beam. If the tests show that the problem is in the	Sebek	PED	Larrus, PED	LOTO, WAF	

Proj. Mngr Shop Task Person Forms (hr)

controller, this can easily be fixed with the HVPS off.

If the tests show that the problem is in the HVPS, we would then have time to open up and work on the HVPS during the maintenance period.

The time required to access the power supply is 4 hours. If we need to access the supply, we would request time to verify the supply under power. We ask for 2 hours of recovery time for this. Since the PED crew will have been there all day, we either ask for these two hours after the ring is closed at 2pm, or ask for some time on Tuesday morning, during the regular accelerator physics shifts.

- 28. Inspection of HVPS controller under power

[Sebek, Larrus]	
06:00 - 06:30	
Four hours of HVPS maintenance	
[Sebek, Larrus]	
06:30 - 14:00	
Two hours of HVPS	
recovery/verification (with an alternate time of Tuesday around 08:00 - 10:00)	
[Sebek, Larrus]	
14:00 - 16:00 or Tuesday around 08:00 - 10:00	

Larrus

Accelerator Maintenance Day Tasks

3/5/2007

			Proj. Mngr	Shop	Task Person	Forms	(hr)
SPEAR	Vacuum - controls	<input type="checkbox"/> 29. 9S - IG1 move to Zone 3: Install new cable for the GP 330 ion gauge controller to the Ion line driver in B118-23. Run a new analog output cable. <input type="checkbox"/> 30. Add ground cable to IG controllers 09S-IG1, 09S-IG2 and 10G-IG-BL12 in rack B118-23. <input type="checkbox"/> 31. 12A ion pump power supply analog output: Run a new two pair cable, terminate with the larger connector at the power supply to accommodate a dual supply. Connect the other end of the cable to the X-connects. Modify the software to include both 12A and 12B.	Rafael	ESG	Ortiz, Theobald		
					Theobald, Vacuum Ortiz, Theobald, Werml		

Proj. Mngr Shop Task Person Forms (hr)