**** SPEAR/Beamline Maintenance list for Tuesday 12/16/03 ****

Guidelines for the SPEAR 8 hour maintenance/down period.

- Beam dumped at 06:00 for maintenance.
- Access ~06:30
- Lock & Tag as necessary upon entry.
- Remove L&T upon leaving!
- Check in with Operations prior to access and after access.
- Inform SPEAR operations of status maintenance task at end of each day.
- The Accelerator Systems Managers MUST be involved with all activities related to their systems.
- SPEAR Operations & Accelerator System Managers MUST confirm that systems are ready for operations prior to 14:00 on Monday

**** SPECIAL instructions:**
**** ES&H Reminders:**

- Lock Out Tag Out as necessary
- Outside contractors complete SLAC Pre-Work Hazard Analysis Form

	GTF:		
1.	GTF modifications…	J. Schmerge	8 hr
	Radiation Shielding:	**I. Evans**	
1.	12QF2: "V" opening in outer wall 12SD2: "V" opening in outer wall 7BD2: grout inner wall chip	Fac	
2.	a) 11BD1: gap high on outer wall b) BL7 rolling door: Pb stack not complete or secured. Gap in door (not closed enough?) 3QF2: gap in outer wall	X-ray	
3.	S10: tap high on outer wall	?	
4.	a) SLM: lead stack not banded b) BL1 block: Pb bricks that "used" to be stacked on the block on the down beam end of the BL1 door block are scattered on top of the SPEAR roof. c) BL11 Cable tray penetration conver (outside ring)	MSG	
	Facilities:		
1.	Emergency light replacement, 8 locations	Outside contractor	8 hr
2.	Mods to transformer secondaries of kly enclosure and B221, ring parking lot	T & M	8 hr
3.	Aisleway striping in b 130	Fac	6 hr
4.	SPEAR roof maintenance	Fac	4 hr

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	Controls:		
	Control Computer will be rebooted after completion of #1,2 & 3 by 11am.		
1.	Check out the remote control and the status bits for BL4 & BL7 Insertion Devices [control system and access required]	Dao, Wallters	3 hrs
2.	Calibrate BL5 horizontal encoder [control system and access required]	Dao, Wallters	1 hr
3.	Check out the motion control for BL5 EPUs {control system and access required]	Dao, Wallters	2 hrs
4.	Hi-pot trim coils on Insertion Devices (Each area to be roped off and no personnel working in area while hi-pot is in progress.)	Dao,Rafael	2 hr
5.	Check cables to Tune Kicker - 1S	Martin	
6.	Investigate noise on DCCT - 1S	Martin	
7.	PR-screen camera adjustment and remote lamp installation and screen micro switch rewiring.	Calloway	2 hr
	Electrical:		
1.	Install several telephone cables around the inside walls of the ring.	Prado, etc	6 hr
2.	MX-BPM time stamp configuration.	Wachter	
3.	SPEAR3 kickers High Voltage Cables Inspection.	Wachter	
4.	Kickers: Signage, front covers, and replace the contactor, if it arrives.	Krzaszczak	4 hr
5.	Install SD and SF bleeder resistors	Bellomo, Widmeyer, Taylor	1 hr
6.	Bulk supply turning on without 480 volt power indication - update software in PLC.		
7.	Dipole power supply grounding hook - modify mounting configuration	Johnson	2 hr
8.	The following task requires that the ring is secure to allow testing of the dipole power supply following replacement of the controller. 1. Dipole: Replace chopper controller	Bellomo, Lipari, Johnson -- 2 hours	2 hr

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9.	Please include the Grounding of the 9S supports(2).	Baltazar	4 hr
10.	1. BTS-B9V Analyze the intermittent problem with BTS-B9V trips: 2 hours Test with PPS permissive (turn the unit on and off): after 2:00 pm 1 hour test)	Antonio deLira	2 hr
11.	Coordinate with Vacuum Group TSP operations: TSP Power Supply response tuning. Fine tune the TSP PS with a dummy load. Designate a time when TSPs are not required and ring is secure:	Antonio deLira	4 hr
12.	BOOSTER Modify blown fuse indication circuit to indicate fuse status.	Johnson	2 hr
	MECHANICAL:		
	SPEAR:		
1.	Mechanical inspections, to include checking mechanical magnet bus connections for signs of overheating, magnet coils for signs of overheating and LCW leak inspections, check pneumatic system pressure settings.	Woodcock	1-hr
2.	Install Insertion device chain covers..BL9, BL10, BL11	DiMattia, Woodcock	7-hrs
3.	Install remaining aluminum cable penetration covers (outside wall, E & W long straights).	Eddie Guerra	7-hrs
4.	LCW & air systems transducer reading verifications to MPS, smart meter calibration if necessary.	Ben Poling	3-hrs
5.	LCW temperature RTD reading verifications to MPS.	Ben Poling	3-hrs
6.	SPEAR LCW sound measurement	Ihi	1 hr
7.	SPEAR LCW flow measurement	Ihi/MSG	4 hr
8.	HCW - install automatic conductivity control pump, transformer, re-start system	Shin, Ernst, etc	2 hr
9.	Install covers or replace fabric bands with steel bands on the shadow walls.	BLD/x-ray	8 hr

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10.	Walk thru inspections of BL front ends.	BLD/x-ray	1 hr
11.	Beam Line Front End LCW: - check setting of metering valve - measure flow rate - trace and document LCW circuits and hardware.	BLD MSG	1 hr
12.	Install second 100 mA min. gap hardstops on BL 4 and 7 ID's, wire limits, do not move magnets or read encoder, install lock	Post/Ringwall/Evans	4 hr
13.	As-built photo's of S1 straight,	Kosovsky/Ringwall	1 hr
14.	BOOSTER: Install temperature monitoring on ring choke (to check operating temperature)	MSG/Scott	.5 hr
	RF:		
1.	Brace movable tuners on 4 cavities.	McIntosh	8 hr
2.	Install conduit on 3 cables to klyston oil tank	Rogers	4 hr
	Vacuum:		
1.	SPEAR3: Ring walkthrough, visual inspection all ring and BL vacuum components. --	Pak, Neal, Wiertel	.5 hr
2.	SPEAR3: Re-arrange Vacuum Zone 2 IP patch panels (IP supplies P5 and P6). Note: Marked up drawings required by Widmeyer showing modifications for drawing updates	Pak, Morales	1 hr
3.	SPEAR3: Add thermocouples onto specific bellows per N. Kurita spreadsheet. Identify location - KURITA Ref plane availability - ORTIZ Routing & conncetion to ref plane (EDM (Taylor, Johnson) Connection to bellows - VACUUM	Jacobson, Kurita	4 hrs

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4.	SPEAR3: Test collector cables on gauges that are turning off (4 cables/gauge), compare 4ma and higher emission current gauges to identify, determine where loss is occurring, and determine corrective actions.	Ortiz, Pak, Neal	6 hrs
5.	SPEAR3: Investigate analog readback cable problems and computer interface (CAMAC) for several ion pump power supplies.	Pak, Ortiz, Morales	3 hrs
6.	BL8: Route and label IP/IG cables to racks.	Wiertel, Bach, Jacobson, Yott	2 hrs
7.	BL10: Route and label IP/IG cables to racks.	Wiertel, Bach, Jacobson, Yott	2 hrs