**** SPEAR/Beamline Maintenance list for Tuesday 2/3/04 ****

Guidelines for the SPEAR 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 the 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 Tuesday

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

	SPEAR Lock up and Search Startup: • Test RF HVPS crowbar circuits and verify control cabinet wiring	 PSOE	3 pm 1 hr
	BL:		
	Facilities:		
	Controls:		
	Electrical:		
1.	1) Beam current monitor sub-harmonic evaluation (~ 4 hrs)	Wachter	6 hr
2.	Insertion Device Controls: 1) BL5 - verify the correct operation of EPU#3 [Wallters & Dao - 1 hr] 2) BL5 Gap - optimize motor speed and acceleration time [Wallters & Dao - 1 hr] 3) BL4 Gap - optimize motor speed and acceleration time [Wallters & Dao - 1 hr] 4) BL7 Gap - optimize motor speed and acceleration time [Wallters & Dao - 1 hr] 5) BL9 - modify BL9 motor driver chassis [Theobald, Wallters & Dao - 3 hrs]	Wallters, Dao	7 hr
3.	ID trims, BL 4-7-11, trace and confirm power connection	Dao, Rafael	2 hr
4.	Booster White Circuit:- inspect/replace burned cable	Rafael	2 hr

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	MECHANICAL:		
1.	Mechanical inspections	Eddie Guerra)	.5 hr
2.	Install water channel over building 118 switch gear	Gary Woodcock	3 hr
3.	Replace remaining girder strainer screens Check flow switches as needed	Woodcock, Dellorco	3 hr 1 hr
4.	Investigation of front end LCW trips	Nzeadibe	
5.	Install 2nd water channel over building 118 switch gear	Woodcock	1 hr
6.	BL-5 insertion device • Install new hardstops • Final alignment checks • Checkouts to make device operational	DiMattia, Ernst, Trautwein	8 hr
7.	Install Beam line 11 insertion device cover	Ben Poling, Eddie Guerra	8 hr
8.	Set the RF PS pressure sensor to 160psig trip point	Woodcock	2 hr
9.	Ultra-sound Flow measurements for Ihi Nzeadibe	Woodcock	1 hr
10.	Booster:- investigation of White Circuit noise/vibration	Dellorco	
	RF:		
1.	Set the RF PS pressure sensor to 160psig trip point		
2.	Verify wiring or crowbar circuits	PSOE	1 hr
	Vacuum:		
1.	SP3: Ring in-alcove walkthrough, visually inspectt BL's and Accel. vacuum systems.	Pak, Wiertel	.5 hr
2.	SP3: Replace Ion Pump PS circuit boards to "fix" analog readback problems.	Pak, Ortiz, et al	4 hr
3.	SP3: Continue vacuum system component labelling.	Pak	1 hr
4.	SP3: Add bellows TC's or review TC additions	Jacobson, Pak, Kurita	1 hr
5.	5. SP3: Prepare for IP pump tests on fully instrumented girders 3 and 14.	Pak, Kurita, Morales	1 hr

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6.	SP3: Check RGA RocketPort card and configure software	Rarback, Morales, Pak	2 hr
7.	Inj. BTS: Repair leaky vacuum hose clamp (requires venting the BTS vacuum section).	Nalls	?--4 hr
8.	BL's 4, 5, 6: Verify vacuum component nomenclature, label components accordingly.	Jacobson, Neal	3 hr
9.	BL's: Continue Functional Diagram updates.	Wiertel, Neal	3 hr