

# SSRL - Accelerator Maintenance Day Tasks

6/13/2011

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
Access	Conditions:	1 . 6am to 2pm SPEAR Down 6:00 -6:10 Run SPEAR kicker board tests. 6:15 PEM to ZVV SPEAR Di-pole PS 6:30 PEM to ZVV Booster White Circuit 7:00 to 7:15 ZVV SPEAR 17G quad/sext (MSG buss covers)  07:00 - 08:00 B140 AHU Project - move manlift over Booster inspection of B140 ductsox installation area 13:00 - 14:00 - move manlift back out over Booster  09:00 - 12:00 Restricted access in Linac for Laser Alignment			PP1: Beukers Krzaszczak DC3: deLira Gjohnson-PEM		
Access	Conditions:	2 . OUTAGES:					
Access	Conditions:	3 . Recovery: SPEAR - Power Supply Checks - 2 hrs after power restored			DC3: deLira, Johnson-PEM		
Access	Conditions:	4 . RSWCF Open: Booster roof PEA open for crane					

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SPEAR	Computer Control	5 . (1) Reboot all IOCs with digitizers for a DMA driver bug fix and inj eff changes. (2) Reboot SPEAR RF IOC, if needed, to free up the console port. (3) Reboot RHEL4 linux servers, connie and b117-pc12, for new libraries. (4) Reboot matlab soft IOC to add BLDS PVs.	Allison				
Injector	Beam Monitoring and Diagnostics	6 . Inspect camera installations on injector beamline, with an eye toward digital upgrade. Possible participants: Corbett, Gierman, Ernst, Evanson, Scott, Lessard  Access: Linac, SPEAR	Gierman, Corbett				
SPEAR	Beam Monitoring and Diagnostics	7 . Connect signal cable to sodium iodide (NaI) Loss Monitor for resonant spin depolarization experiment. Connect to B117 cable.	Martin		Martin, Wallters		
SPEAR	Beam Monitoring and Diagnostics	8 . Configure Tune Kicker for vertical only kick.	Martin		Martin, Wallters		

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SPEAR	Beam Monitoring and Diagnostics	9 . Inspect SPEAR3 Dipole current interlock hardware inside Dipole power supply.	Martin		Johnson, Martin, Wallters		
Booster	Power Conversion	10 . Inspect CEBAF system wiring	deLira	PCD	Gjohnson, deLira		
SPEAR	Power Conversion	11 . Inspect Hoffman box wiring, Spear HVPS	Lam	PCD	Larrus, Lam		
SPEAR	Power Conversion	12 . SPEAR kicker board repairs, if needed	Beukers	PCD	Krzaszczak, Beukers		
Booster	Power Conversion	13 . Ejection kicker 1 & 2 - inspections	Beukers	PCD	Krzaszczak, Beukers		
SPEAR	Power Conversion	14 . Investigate SPEAR injection kicker K3 tail overshoot and match with K1, K2.	Beukers	PCD			
Access	MPS	15 . LCW monitoring system (if time permits)	Lessard				
Booster	PPS	16 . Remove unused camac cables from racks 311 and 312 in the Booster..	Horton				
LINAC	RF - Linac	17 . 1) swap K2 interlock PCB, re-cal. And test. 2) RF detectors automate calibration. 3) LINAC documentation.	Wachter				
LINAC	Magnets	18 . Name Labels on the magnets inside the Linac tunnel.	Dell'Orco				

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SPEAR	Alignment Engineering	19 .	HLS - refill system with water Inspect for leaks and repair as necessary	Dix	AEG			
Injector	Mechanical	20 .	Access required into Booster ring, Linac and Diagnostics room. Mechanical inspections	Ernst	MSG	1-MSG tech		1
Injector	Mechanical	21 .	Install diagnostics room screen digital camera mount and lead shielding	Ernst	MSG	1-MSG tech		2
Injector	Mechanical	22 .	Install Linac magnet name labels	Ernst	MSG	Ernst, Dell'Orco		3
SPEAR	Mechanical	23 .	Access required. Mechanical inspections	Ernst	MSG	1-MSG tech		1
SPEAR	Mechanical	24 .	Install quadropole conductor covers BM1,BM2 Girder 17 2 ZVV required for G-17 quad magnets.	Ernst	MSG	MSG techs	ZVV	5
SPEAR	Mechanical	25 .	Install beam loss monitor (BLM) & lead shielding near the G3 e-dump QFC chamber.	Ernst	MSG	2-MSG techs		2
SPEAR	Beam Monitoring and Diagnostics	26 .	Connect Australian BLM to existing high voltage distribution cable plant in SPEAR3 and also connect signal cable. After ring is cleared of personnel activate BLM High Voltage power supply to test system components.	Ortiz				
SPEAR	Mechanical	27 .	Install BL-13 ID limit switch lead shielding	Ernst		1-MSG tech		1

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SPEAR	Insertion Device	28 . 2 limit switch shielding lead plates on BL13	Dell'Orco				
SPEAR	Insertion Device	29 . Replace BL4 ID Camac fan.	Ortiz				
Booster	Vacuum	30 . Inspect Booster vac chb for corrosion	Scott				
Injector	Vacuum	31 . Walk thru	Nalls	Vacuum	Vargas		0.5
Injector	Vacuum	32 . BTS-IG1; (can be done any time) 6-9 JV reports NO.	Nalls	Vacuum	Vargas, Ortiz		
Injector	Vacuum	33 . Check all Injector Stoppers for wear, slow operation, ball bearing fall out	Nalls	Vacuum	Vargas		1
Injector	Vacuum	34 . Booster: Replace Boo RF Klystron Varion Ion Pump High Volatge Power Supply with Digitel SPGe power supply. The present interlock cable will need to be reterminated with a new type connector to adapt to new supply. A short non-compliant RG59 cable that runs from and in-line adapter from the supply to the ion pump will be replaced with a properly rated cable.	Nalls	Vacuum	Ortiz, Vargas		2
Injector	Vacuum	35 . Booster Analog Read backs; started 5-10; (can be done anytime) charge # for cable shop 6 ea. Shutdown task. 6-9 JV states dead issue	Nalls	Vacuum	Ortiz, Vargas		

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Injector	Vacuum	36 . 3-IP1 HV cable switchout	Nalls	Vacuum	Vargas		0.5
Injector	Vacuum	37 . Leak check 14SD (21-IG1 area of the Booster).	Nalls	Vacuum	Vargas, Nalls		2.5
Injector	Vacuum	38 . Transport SPEAR Turbo Cart to B140	Nalls	Vacuum	Vargas and Co		1
SPEAR	Vacuum	39 . Walk thru	Nalls	Vacuum	Pak		0.5
SPEAR	Vacuum	40 . 12S-IG1 zero reading	Nalls	Vacuum	Ortiz, Pak		
SPEAR	Vacuum	41 . Remove/ Survey Air Shower frames from SPEAR to prep for RF window replacement.	Nalls	Vacuum	Pak		0.2
Beam Line	BL - Mech/Elec/ Checks	42 . Inspect/measure the overhead design clearance for the BL9 M0 mirror.	Busse/Ra	bedeau			
SPEAR	Vacuum	43 . Investigate magnet in contact with vac chamber at 10QDZ.	Nalls	Vacuum	Pak		
SPEAR	Vacuum	44 . RF IG's; check RF2, RF3 and RF4 function with 330 controller (also check analog output, should work) RF1 checked on 5-16.	Nalls	Vacuum	Pak		1
Beam Line	Vacuum	45 . Walkthru; RB, MJ.	Nalls	Vacuum			0.5
Beam Line	Vacuum	46 . Removal of the red support in alcove old BL3 & 4	Nalls	Vacuum	MK, BH, DW and PG		7
Beam Line	Vacuum	47 . Check BL09 MDP and make entry in Log.	Nalls	Vacuum			0.5

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Beam Line	Vacuum	48 . JT & BH to take pic's and review BL09 in Alcove for down work.	Nalls	Vacuum			0.5
Beam Line	Vacuum	49 . Isolation parts for 9-2, 9-3 Mono JV to measure Z dim of UB bellows and inspect constraints.	Nalls	Vacuum			1
Beam Line	Vacuum	50 . Re-Route N2 boil off way above block roof.	Nalls	Vacuum			
SPEAR	Alignment Engineering	51 . As-built measurements of existing structures	Immfeld	AEG			

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SPEAR	Facilities	52 . Seimic Upgrade - contractor walk-thru 8 am Access: Contractors: Joe Bauer - Peninsula Crane and Rigging Dave Funke - Peninsula Crane and Rigging Steve Rehrmann - Stomper Company Nicholas Buller - Cruz Brothers Mike Fabbri - California Drywall Theron Burch - San Joaquin Steel Dan Fronckowiak - Gordon-Prill Canon Cheung Carlos Rodrigues Tim Carnes  10 am Access: SLAC: C. Rodrigues C. Cheung M. Young Leo Gonzales James Kwon Mike Madaya Satwinder Singh Christian R. Perinet Richard Altieri (Low Voltage Electrical Group)	Rodrigues		Cheung, Rodrigues		
Booster	Facilities	53 . Inspection of B140 overhead area for ductsox installation clearances - use of manlift.	Wu	SLAC Facilities			



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