

SSRL - Accelerator Maintenance Day Tasks

5/3/2010

System	Sub-System	Description	PIC	Shop	Task Person	Forms	Hr
Access	Conditions:	1. SPEAR access: 6:15 to 15:00					
Access	Conditions:	2. SPEAR - Power Supply Checks - 2 hrs after power restored					
Access	Conditions:	3. OUTAGES:					
Access	Conditions:	4. RSWCF Open:					
Beam Line	BL - Mech/Elec/C checks	5. BL10 LCW circuits in-alcove. RSWCF posted depending on progress	Van Campen		Kerr, Van Campen		RSWCF
Beam Line	Beam Monitoring and Diagnostics	6. Install cables from B117-12 to B120-734. Installation is within the SPEAR ring area and SSRL buildings 117, 118, and 120. There are three (3) cables to the pull. The pull is approximately 500 feet long. Additional work is installation of 165 ft. of ground wire to ground affected cable trays. Tie into existing ground system. Purpose: to provide timing signals that improve data collection techniques by scientific users of the SPEAR3 accelerator.	Martin		PCD		SOP, JSA

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Beam Line	Beam Monitoring and Diagnostics	7 . Timing cable pull to BL7	Martin		PCD		
Beam Line	MPS	8 . Run the IG analog cables for BL8 IG's in B120.	Lessard				
Beam Line	Vacuum	9 . Beam lines, in alcove walkthrough, BL 8-1 out of alcove. Switch over to new ion pump distribution panel(turn off ion pump power supply to BL8-1). Reconnect and turn 8-1 PS1 back on.	Nalls	Vacuum	Bach		
Beam Line	Vacuum	10 . Inspect every LN2 mono hutch and identify what types of scroll pumps are on each system. Identify what types of Jumo pressure controllers are on each LN2 mono Messer control system but that won't need hutch access.	Nalls	Vacuum	Hollenbeck		

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Beam Line	Vacuum	11 . Reset Mono IG response delays: BL4-1 IG2 10 seconds BL4-2 IG2 10 seconds BL4-3 IG2 10 seconds BL6-2 IG2 none BL7-2 IG2 10 seconds BL7-3 IG2 10 seconds BL9-2 IG2 none BL9-3 IG2 none BL10-2 IG2 10 seconds BL11-2 IG2 10 seconds BL12-2 IG2 none	Nalls	Vacuum			
Beam Line	BL - Mech/Elec/C hecks	12 . BL 9 - review and measurements at the current M0 mirror motion support for future modification option.	Busse				
Beam Line	BL - Mech/Elec/C hecks	13 . Check out a possible encoder problem on bl 10-1's M1 pitch.	Curtis		Maciel, Curtis		
Injector	Beam Monitoring and Diagnostics	14 . Decommission old Transport Line BPM cables.			Martin, Wallters		

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Injector	Beam Monitoring and Diagnostics	15 . Review of Linac K1 hardware.			Martin, Gierman, Wallters, et al.		
Injector	RF - Booster	16 . Booster Klystron Swap: 6 - 7am Disconnect and LOTO 7 - 4pm Mechanical 4 - 6pm Electrical re-connect 6 - 10pm Cathode processing, interlock checks, HV testing	Park	PCD, MSG, Vacuum		LOTO, ELP, SOP	
Injector	Vacuum	17 . LINAC, walkthrough, complete checkout of GTF vacuum system, GTF-IV1 and 2, actuators 1, 2, and 3 E-O chamber, ion gauges check what systems they fault.	Nalls	Vacuum	Jacobson, Vargas		
Injector	Vacuum	18 . Booster, Klystron swap.	Nalls	Vacuum	Jacobson, Vargas		
SPEAR	Beam Monitoring and Diagnostics	19 . Air filter and cable clean-up B116/132.			Martin, Wallters		

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SPEAR	Power Conversion	20 . Change out the following non-EEIP approved power supplies with EEIP approved units. No RSWCF required for these units. MS1-QFX 200V 75A MS1-QDY 125V 80A MS1-QDZ 125V 80A 09S-CD4 30V 165A 06G-QF2 100V 100A 05G-QF2 100V 100A 05G-QF1 100V 100A 09G-QFX 100V 100	Rafael	PCD	Taylor		
SPEAR	Power Conversion	21 . Inspect output voltage divider in BTS-B7H supply for doc updates. Need supply off.	De Lira	PCD			
SPEAR	Power Conversion	22 . Validate ELPs for 02G-QD2, BTS-B7H and MCOR15 supplies in B118. Need to turn supplies on and off for validation.	De Lira	PCD			
SPEAR	Power Conversion	23 . PS system documentation update per as-built. Need access to SPEAR3 accelerator housing.	De Lira	PCD			
SPEAR	Power Conversion	24 . Kicker Bump Mismatch Fix the resistors on one SPEAR kickers. Test the kickers when housing work is complete.	Beukers	PCD		LOTO	

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SPEAR	Alignment Engineering	25 . Check HLS sensor	Gassner	AEG			
SPEAR	Vacuum	26 . Walkthrough 12S-IG1 troubleshooting	Nalls	Vacuum	Pak		
SPEAR	Facilities	27 . Tests of the Emergency Power circuit to the SPEAR complex starting at 8am.	Guerra		SLAC Electricians		
SPEAR	Facilities	28 . Site visit of prospective bidders. They will need access inside the ring to see the BTS area. The estimate number of people is about 30 to 50. We will start entering the SPEAR at about 10:15 am in a group of 10 to 15. The group will be inside in approximately 15 to 20 minutes.	Cadapan				