

# Accelerator Maintenance Day Tasks

11/13/2006

Dur. (hr)

Access	Access Conditions:	<ol style="list-style-type: none"> <li>1. SPEAR:- 3 HR Controlled Access - 6:30 - 9:30 AM Injector Access - 6:30 to 9:30 AM</li> <li>2. SPEAR - Power Supply Checks - 2 hrs after power restored</li> <li>3. OUTAGES: Electrical Power 10am to ~ 7pm</li> <li>4. RWSCF Open:</li> </ol>		
Maintenance	Alignment	5. Check chicane triplet quads - roll	SLAC MEA	2
Maintenance	ESG	<ol style="list-style-type: none"> <li>6. replace the following supplies:  09S-CD1-PS -&gt; 80Vdc - 60A to 40Vdc - 60A, Reason: Current operation point 3.7Vdc and 20A 09S-CD3-PS -&gt; 50Vdc - 300A to 50Vdc - 300A, Reason: New design and more reliable 09G-QDX-PS -&gt; 150Vdc - 100A to 100Vdc - 100A, Reason: Current operation point 16Vdc and 18A (standard Q's PS)</li> </ol>	Rafael, et al	
Maintenance	Insertion Device Electronics	<ol style="list-style-type: none"> <li>7. Determine cables route for BL13 ID [0.5 hr, SPEAR access required]  Rearrange chassis and install the fan module in Rack B131-609 [2 hrs, no access required]</li> </ol>	Walters, Dao	2.5
Maintenance	MSG	<ol style="list-style-type: none"> <li>8. Mechanical inspections, 1-hour  Review updated LCW flow data list/new components .  Install/test the repaired U-22 I.D. HX-75 chiller</li> </ol>		

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Maintenance	Vacuum	9.	<p>Injector Booster Walkthru-----Nalls .5 hrs.</p> <p>SPEAR Walkthru-----Pak .5 hrs.</p> <p>Beamline Walkthru-----Bach .5 hrs.</p> <p>SLM Move 1 MM towards SPEAR-----Pak/Bach 1.5 hrs.-----In alcove</p> <p>BL5 IP power supply change-----Bach/Spector .5 hrs.-----Out of alcove</p>	Neal, et al
Power Outage Preparation	Controls	10.	Shut down servers and controls hardware at 9am on the 13th, so no one should rely on any controls being operative after 9am.	Rarback, et al
Power Outage Preparation	Insertion Device	11.	<p>Power down the following equipment on early Monday morning (~6:30 AM):</p> <p>1) All of the chassis and the CAMAC crate associate with BL4, BL5 &amp; BL6 IDs in Racks B131-601, 602 &amp; 609.</p> <p>2) All of the chassis and the CAMAC crate associate with BL7, BL9 &amp; BL10 IDs in Racks B120-100 &amp; B120-1006.</p> <p>3) All of the chassis and the CAMAC crate associate with BL11 ID in Rack B131-1100.</p> <p>4) All of the chassis in Rack B116-102-01 for BL12 ID.</p>	Wallters, Dao

Dur. (hr)

For the Accelerator start up, all three CAMAC crates located in Racks B131-601, B120-1006 & B131-1100 need to be powered on first before the rest of the chassis associate the BL IDs can be powered on.

Power Outage Preparation

MSG

12. Before the power outage the following equipment will be powered off.

Ernst, et al

SPEAR:

- A) SPEAR LCW return boost pump and open the bypass valve.
- B) SPEAR HCW pumping system.
- C) SPEAR U-22 I.D. chiller.

Injector:

- A) E-gun chiller.
- B) Linac TCW pumping and heater system.

Power Outage Preparation

Vacuum

13. Prepare the 6-2, 7-2, 7-3, 9-2, 9-3, 10-2 and 11-2 Monos and Messers Wed thru Friday and will be present when the power is changed over to the generators and then back to house power.

Ron Mar,ks,  
Vac

Emergency power for BTS pump so it doesn't vent the BTS up completely.

Otherwise let the power shut off and let the ion gauge controllers and ion pump power supplies turn off with

- the outage.
14. Before the power outage the following equipment will be powered off.
- SPEAR:
- A) SPEAR LCW return boost pump and open the bypass valve.
  - B) SPEAR HCW pumping system.
  - C) SPEAR U-22 I.D. chiller.
- Injector:
- A) E-gun chiller.
  - B) Linac TCW pumping and heater system.

Power Outage Recovery	Controls	15.	We will turn on the servers and controls hardware and verifying everything came back ASAP after the outage. This should be the first order of business before any other checks can occur.	Rarback, et al
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Power Outage Recovery	Insertion Device	16.	For the Accelerator start up, all three CAMAC crates located in Racks B131-601, B120-1006 & B131-1100 need to be powered on first before the rest of the chassis associate the BL IDs can be powered on.	Wallters, Dao
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Power Outage Recovery	MSG	17.	Restart:	Ernst, et al
			SPEAR:	
			A) SPEAR LCW return boost pump and open the bypass valve.	

- B) SPEAR HCW pumping system.
- C) SPEAR U-22 I.D. chiller.

Injector:

- A) E-gun chiller.
- B) Linac TCW pumping and heater system.

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Power Outage Recovery	Vacuum	18.	After the outage make the rounds and make sure all the controllers and supplies power back up.	Neal, et al
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