

UCI AMS Facility

Restarting after a computer crash
Sep 25, 2010

After the Computer Crash - Summary

1. Power cycle the CAMAC crate – front switch at the bottom
2. Cycle the computer front power switch (inside RH door)
3. Wait for Linux (Red Hat) to reboot. UserID = csadmin, PW = loger
4. Click on the LH upper page icon on the Red Hat icons bar
5. Double click on the AccelNET icon, click on the AccelNET menu, click on START ALL, wait several minutes for AccelNET to wake up. Pages 10 (Source1), 12 (Accelerator Setup), and 13 (System Diagram) will appear.
6. Get STRIP CHART and BPMsetup from the AccelNET menu
7. Get AMS TOOLS from the AMS menu
8. Get RESTORE from the METERS AND KNOBS menu
9. Go to the LH lower page icon on the Red Hat icons bar
10. Double click on the AccelNET icon, click on the AccelNET menu, click on the Control Pages menu, get pg 14 (Dosimetry).
11. Get DOSEmng and HISTmng from the AMS menu
12. On pg 13 (Beamline Diagram Display) turn on Master Power, bouncer (on/off plus HVon), GVM, terminal power (shaft), terminal turbos, put 10 - 12kV on charging system.
13. Check detector vacuum, open detector gate valve, put volts on the ESA (condition up).
14. Check that vacuums and stripper pressure look OK, start the chains.
15. Set GVM to .53MV and switch to Auto if the charging system looks OK.
16. On the System Display (pg 13) turn on both magnets and set 5A, then 100A, then 14C currents (see log book). If the Hall probes seem erratic/wrong, power cycle them (unplug and plug in). Set magnets to 14C gauss settings (log book) then scale to 13C.
17. Set the source wheel to position 0 (set to Local, go into the cage if necessary).
18. On pg 10 (Source) turn on the cooling (S1 INJ), transformer (ITX) and high voltage (HVS)
19. Set source parameters (see log book). HVS and extraction (EXT) and cathode (CAT) may require conditioning
20. On the Beamline Diagram Display (pg 13) set Ellost to 45 kV
21. On the Beamline Diagram Display (pg 13) set all bouncing steerers (see log book) plus set LE MSY to -.1A, HE ESY to -.4kV, HE MSY to +.4A
22. Set bouncer Vcreg values on pg 146 (11.3kV, 5.3kV, .1kV, .1kV – see log book). On pg 13, check bouncer is in Vcreg2 when in Maintenance mode.
23. Set non-standard state timing on pg 145 (see console manual)
24. Set non-standard current integrator settings on pg 101 (console manual)
25. On pg 14 (Dosimetry): set 12C and 13C current ranges to 4 and 6 respectively, double click on CnTDwnR to get to CycBatch, reduce it from 100 to 10, set CollMode to Collect.
26. On the Setup_Restore menu on the Strip Chart, click on Setup Restore 1
27. Bring up the source, check all the usual tuning parameters plus LE MSY, HE ESY, HE MSY.
28. Scale to 14C, pick a sample that should have plenty of 14C in it, start accumulation in the Dosimetry window (pg 14). Adjust XgateMin, XgateMax (and Yscale) in the HISTmng window to put the gate around the 14C peak.

