

Linac Group Meeting – March 30, 2009

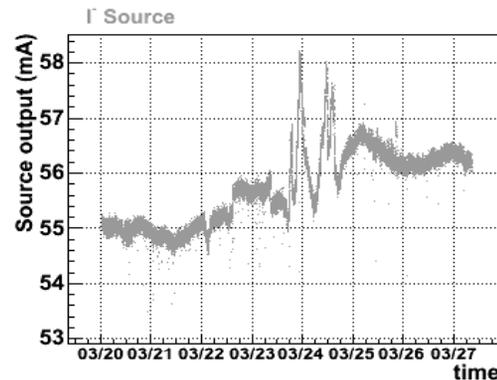
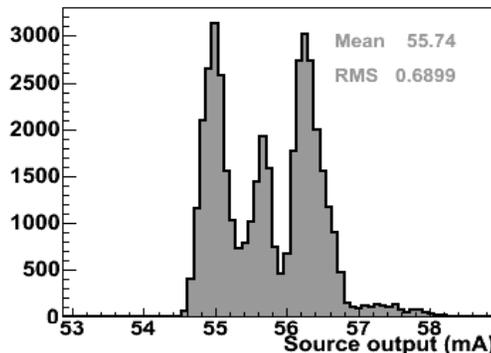
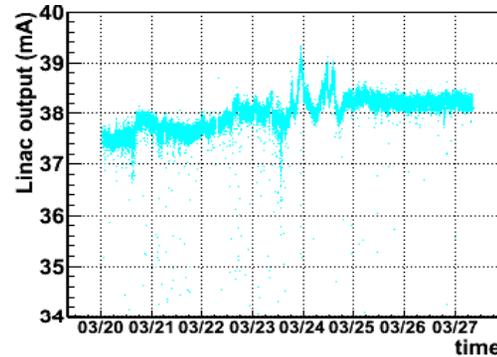
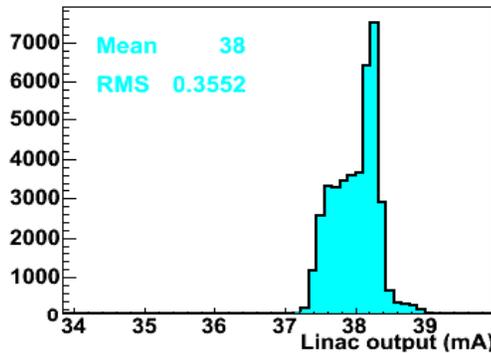
Agenda:

- 1) Linac week's performance
- 2) Ongoing projects – Status report
- 3) AOB

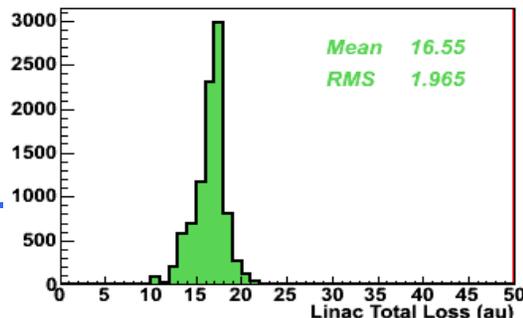


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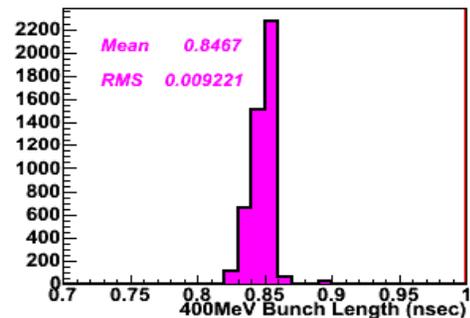
Linac performance



Linac Total Loss Monitor



400MeV Bunch Length



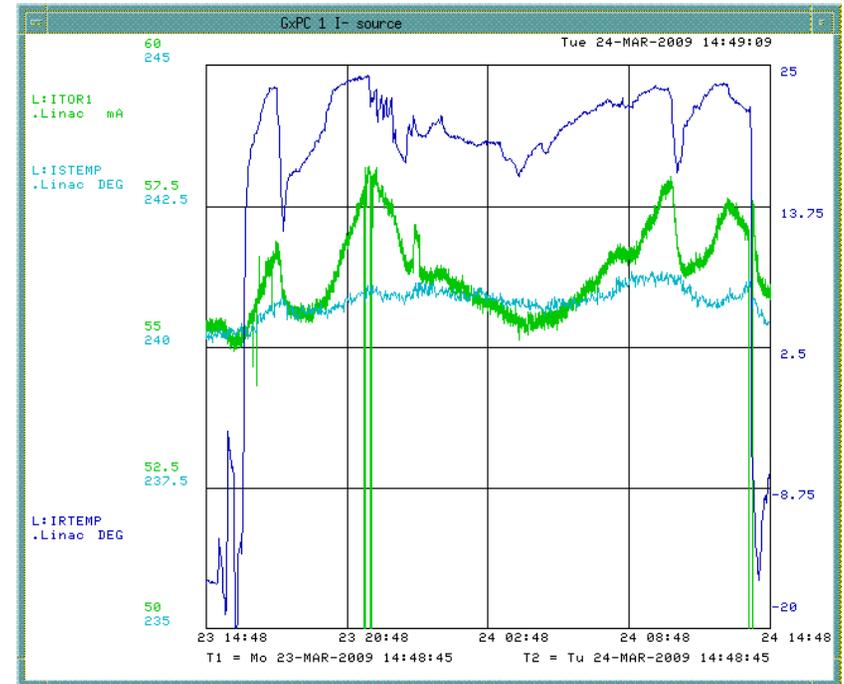
Summary of events

- Pre Acc:
 - Operational source: I^-
 - Output: ~ 55.7 mA
 - Linac output: ~ 38.0 mA
 - H^- source
 - refurbish motor generator
- Highlights (3.4 hrs. downtime)
 - KRF Buncher coil comparator fault (2 hrs)
 - Source trip / no readback (0.5 hr)
 - QPS126, 225, 123, 233 & 102 changed to shunt mode.
 - Excessive 400MeV rad trips.



Activities performed

- General machine tuning
- Reset node LIP610
 - A source trigger event reference for the PLC to update cleared out.
 - Without communication, there was no ACNET alarms
 - Source actually tripped off and would not reset
 - Controls personnel will provide a status bit for this event.
- Source fluctuates early in the week
 - Cs cold trap refrigerator failed and it reached room temperature
 - Access was necessary to reset the valve
- KRF Buncher coil comparator fault
 - A wall breaker had to be reset
- Lots of activities on the H⁻ source
 - Motor generator is being refurbished
- Test Stations
 - 200 MHz:
 - Completed upgrade the AC power center rack for LE station 7. Tests were successful
 - Two (2) 7835 hot spare available
 - Finish assembly of another 7835, moving to station today.
 - 800 MHz: available





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Ongoing Activities

- Pre-Acc
 - New pulse shifter update
 - Waiting for ≥ 2 hrs downtime
 - Chopper PS upgrade
 - Ongoing rebuild of H^- motor generator
- LE
 - LE Test Stand Status
 - Upgrade the breakers in A5 rack
 - Installing a new 7835
 - 4616 support plate is done
 - Use unistrut to make the “cart”.
 - QPS upgrade
 - Installing P4 Rev B. boards
 - Ready for P7 cards also
 - Non-PCB caps power supplies operational
 - P2 cards are also available
- LE (cont.)
 - New LLRF system upgrade
 - Running in ALL stations
 - All LE Linac is locked to the 805 MHz reference line. The old 201.25 MHz reference still being used in the intertank phase system.
 - IN#PHS are left in manual mode.
 - Buncher is connected to the LLRF system at LRF1, if one reboots the VXI chassis, the buncher system should be turned off first.
 - Mobile laptop for Linac Gallery running console working marginally....
- HE
 - 130 kHz noise
 - Order new transformer for HE QPS.
- Dump Area
 - Latest on Working Group: Long term plan for the mom. dump vacuum issue