Operations Manager Report

Arnd Meyer
June 20, 2002

- Accelerator was very quick in bringing beams back (Friday evening)
- Pbar cooling is at pre-shutdown performance; more work needed before stochastic cooling tanks yield reduced emittance and higher luminosity
- Expect ~ factor 2.3 in luminosity (combined effect of better cooling and new lattice), at least several weeks away
- F4 wet engine failure: down most of Monday
- Two Stores
  - Store 1434 in Tuesday 6am, initial luminosity ~2E30; mostly "re-commissioning"; took 13nb^{-1} of 27nb^{-1} (8hrs)
  - Large pbar losses in the beginning, most HV in standby for the first couple of hours. No Silicon.
  - Special runs: COT HV scan, Minimum Bias run, trigger table tests.
  - Next one (1439) lost Tuesday evening: D11 collimator controller failure, went to limit (on the other side of the beam)
  - Store 1443 in Wednesday morning, initial luminosity ~5E30. Work on reoccuring DIRAC problem (ultimately swapped boards). Integrate Silicon for the first time (fair amount of trouble in doing so). 160/280nb^{-1} as of 11:00
- Since Wed evening: no beam circulating in MI $\rightarrow$ hold on to store 1443

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- Four controlled accesses Sunday/Monday/Tuesday
- Sunday morning (3 hrs)
  - CMP: recovered 12 channels (ASD connector was accidentally unplugged during closing on Friday)
  - COT: one TDC reseated, another one replaced
- Monday morning: Reseated COT repeater card
- Monday afternoon: Bad TDC → reseated
- Wednesday 1am-3am
  - SMX: swapped bad SMXR board (ccal05), SMD board (ccal11); checked possible cable disconnect
  - Silicon: changed bias-shorting jumpers for three ISL supplies
  - Silicon: measure clock width (SB2W10), light output (SB3W8L2)
- Overall, relatively quick start-up after the shutdown!
  - Fully operational and fairly efficient after ~1.5 stores. Last night's owl shift was taking data with 90% efficiency

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- Wednesday night, severely affected by offline (rcpdb corruption) problem: consumers crashing, no calibrations possible
  - Validation procedure being developed to prevent this from happening again
- Annoying e-log problems: duplicate, lost entries
- One of the consumer monitor PCs died last night (b0dap69)
- Newest error handler version hangs on certain event builder errors → Rolled back to previous version.
- Fixed subfarm 4 of Level 3 (replaced Ethernet switch)
- TRACER "Spy" mode readout finally works
  - Necessary to sustain 300Hz L2A with COT TDCs throughout run 2a
  - Final step was a new version of the TRACER firmware to correctly drive VME interrupt lines
  - Quite some software work left
  - Plan to install new firmware in all 20 COT TRACERs over the next few weeks/months

Earthquake

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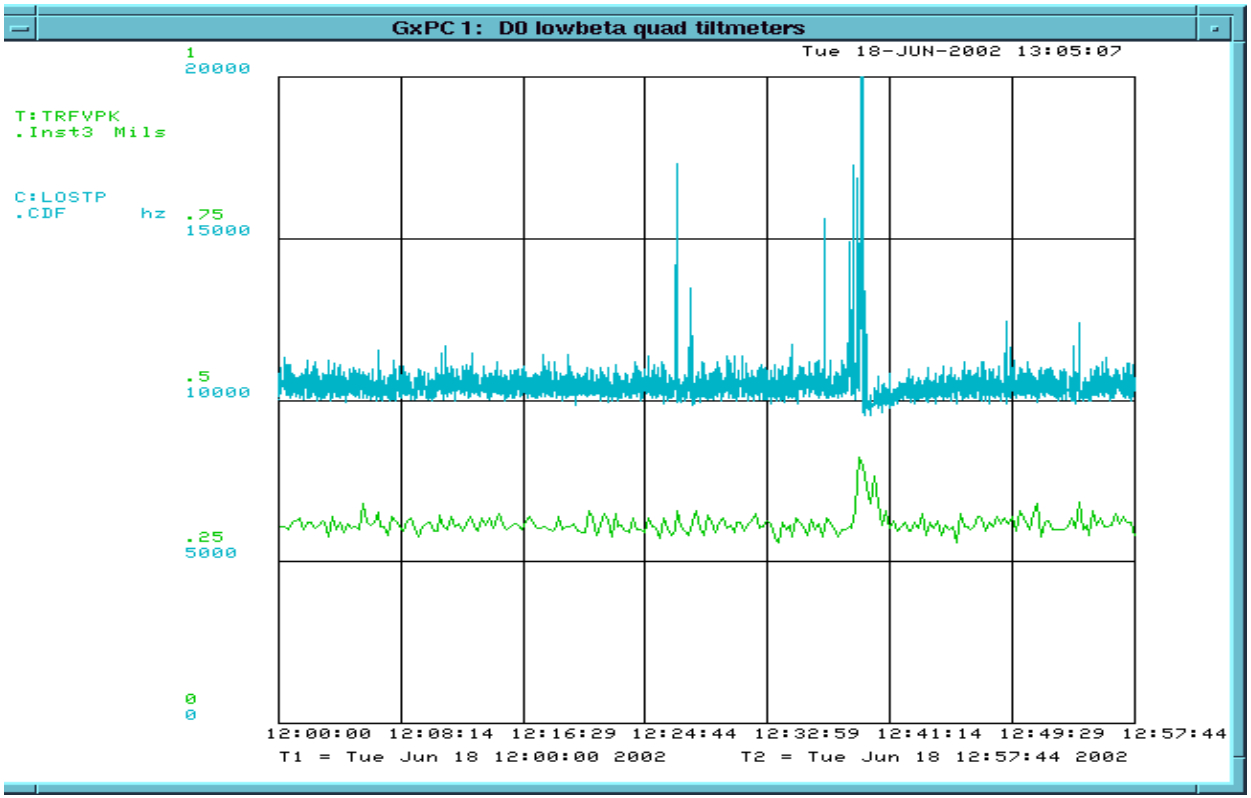
- 12:37 Tuesday: Earthquake (mag 5.0) near Darmstadt Indiana
- 12:39 spike in LOSTP and vibration monitor at F0
- Delay fits the propagation velocity data posted by the US Geological Survey



Vacuum at F11

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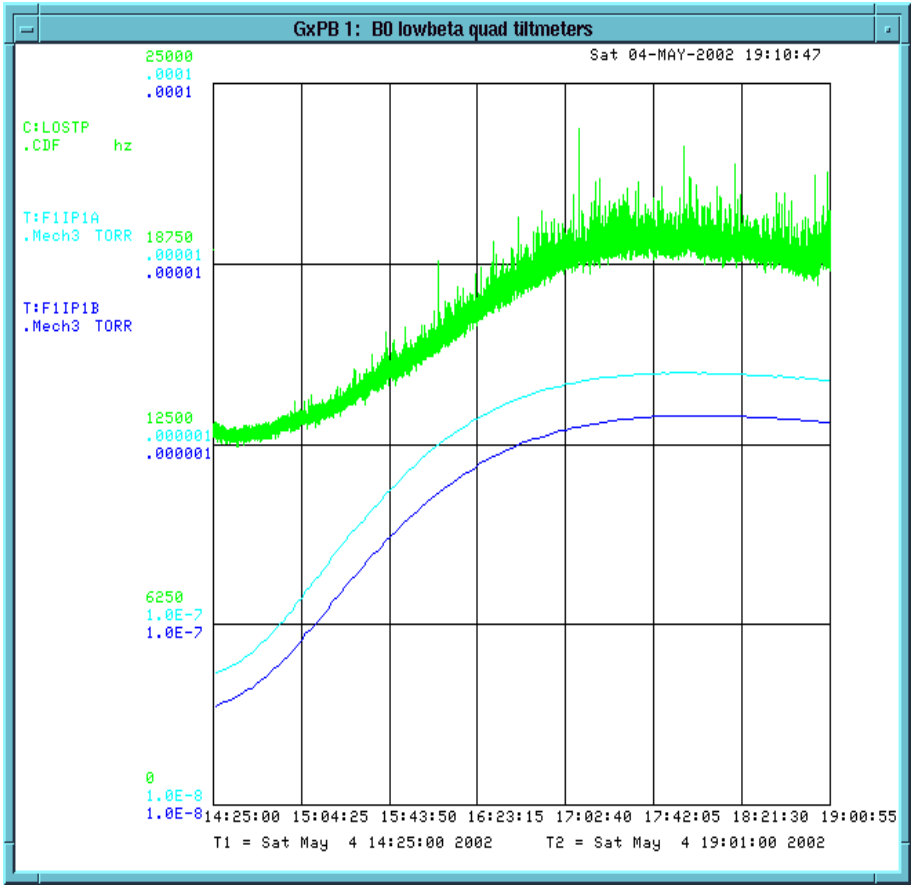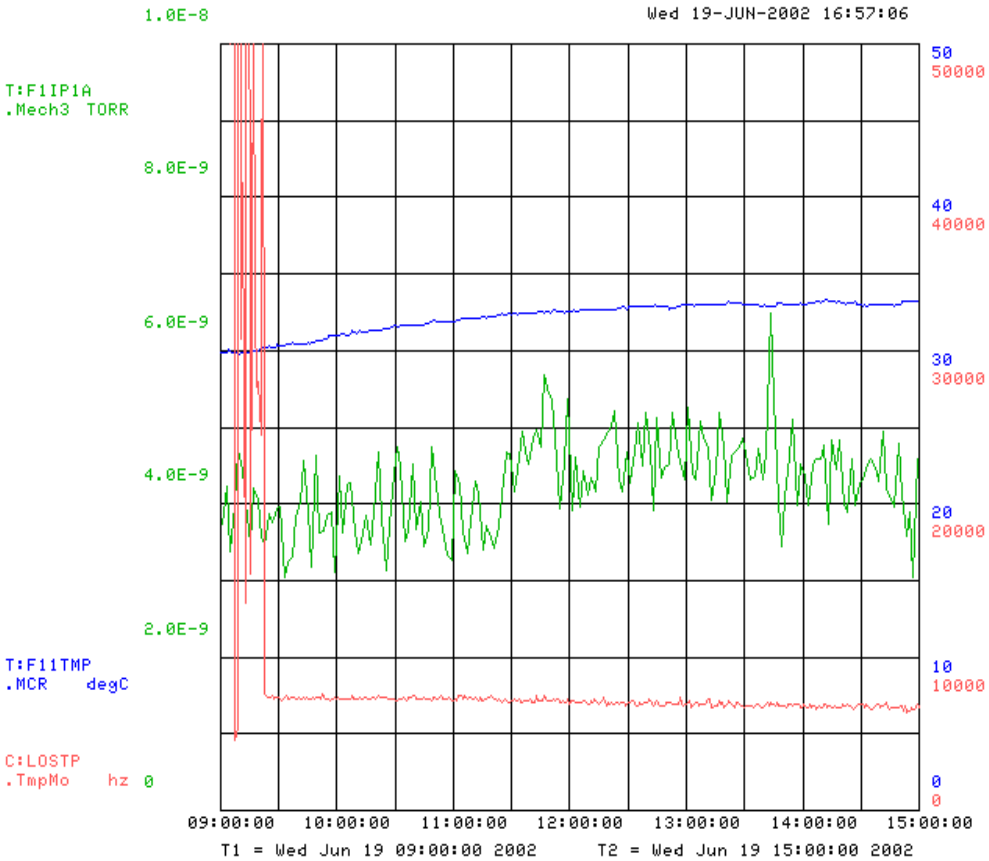
- Vacuum at F11 greatly improved since the new ferrites were installed in June shutdown