



# Monitoring & Control Systems

- ✦ Shutdown news (February 27—May 25); for general details see SPL meeting 02/20/2006 (R. Tesarek)
  - Will convert to iFIX 4.0 (new iFIX USB keys/dongles locked inside cases)
    - Requires conversion of “pictures” but no relink of applications
    - However, can’t mix running iFIX 4.0 & iFIX 3.0; until all PCs converted, some will have to run iFIX 4.0 in local mode until all nodes are converted
    - Cannot start until 3/20 (after recovery from outage 3/18) due to detector tests up to that point



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- ✦ (Minor) improvements on individual PCs and associated hardware:
  - MUON3
    - New problem: PC rebooting without user intervention
      - When running iFIX and HVMON++
      - When no applications running
      - When sitting at login screen
    - Mark working on problem
      - Reseated all cards; no good
      - Replaced all memory sticks; current state
      - Maybe power supply?



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## – PISABOX

- System disk killed while powering HV racks down and up for LOTO (known Dell Maxtor problem)
- System restored to 03/2005
- Would like to recover HV readback files from Retrospect Backup (not soon)

## – CLC1

- System disk also killed
- System restored to 07/2003
- Unlike PISABOX, old disk still readable, just not bootable. Contents copied to new disk
- Currently, CPR/CCR CAEN at PREP, so have to put off testing



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## – VOLTMAN

- Ben Whitehouse has implemented changes:
  - Individual crates can be masked everywhere
  - State of masking is stored in Access DB and restored on restarting VOLT.EXE
  - Should be back middle of March for more work
- Continue to investigate high rate of bad reads (RS-422 daisy chains)
- Make power supply monitoring power supply more robust

## – CDFEPHV

- Repair fans in CAEN 527s on plug fixture (upper ones first)
- Repair bad Peltier cooler on PMT box (Dave Dagenhart)

✎ Send me or J.C. Yun your requests (with resources and time needed), comments, etc.



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- ✦ Mark Knapp and Jim Loskot continue installing Norton Ghost on PCs (replacement for Retrospect Backup; disk image on new hard drive which can be booted immediately); also, given experience with Maxtor drives, replacing all with Western Digital drives
  - All CDFS\* PCs in cryo area done
  - VNODE1 VNODE2 SOLENOID2 done (used Ghost disk image to repair SOLENOID2 01/24/06); VOLTMAN installed but not imaged
  - Would suggest following for immediate future while most HV systems down:
    - Finish VOLTMAN
    - PISABOX bringing PMT HV monitoring down temporarily
    - CLC1; will have to image again after Mary restores program
    - CDFEPHV while plug CAENs at PREP
    - More as we continue



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- ✦ Mark Knapp and Jim Loskot have installed new MCS webserver at <http://cdf-fs2.fnal.gov:3000/proficyportal/default.asp> (username/password required); this replaces very old webserver
  - Many pages now work (bold type good links; regular type not yet implemented)
  - However, some problems with some pages or specific tags on some pages (*e.g.*, silicon interlocks)
  - Still a work in progress; also, IP name to change soon