



MINOS+ Status Report



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All Experimenters' Meeting
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Summer 2015 shutdown DAQ work



- Move to local home directories
 - removes the single point of failure of the gateway mounted NFS home directories
 - if gateway had gone down, manual intervention underground would have been necessary. Now DAQ can run autonomously even with both gateways down. Both FD and ND. (FEF)
- Regularizing the installation for puppet management
 - involves reinstalling some of the older machines, FD and ND (FEF)
- Configuring three new server class computers with built-in redundancies for ND so we can retire older machines (FEF)
- Bringing all security and system patches up-to-date, ND and FD (FEF)
- Implement an automatic configuration synchronization system for the Minos DAQ, ND and FD with concomitant email notifications; reorganized the RPM configuration scripts for new home areas (Bill Badgett)
- Implement an automatic alarm SMS text messages when the DCS goes into error state, ND and FD (Bill Badgett)



2015 summer shutdown Detectors' work



FD – all done : ready to take data

- Cleaned all electronic rack filters and do system checks (fan checks, voltages, RPS systems, etc.)
- Tested all detector UPS's
- Replaced one DAQ rack UPS and replace batteries in second one.
- Cycled in the 3 spare MVME cards: if OK, leave them in place
- Annual maintenance on Ling coil power supplies done
- Tested and repair spare RPS electronics
- Tested and reload spare TRC cards

ND – almost done

- Maintenance of ND magnet power supply by Walter Jieskerney
- Replaced ND LCW Compressor with a new one by Steve Hahn
- Cycled and 5 spare MVME and left them in situ

To do:

- Work on LCW skid to include valve control to maintain resistivity ~6 MOhm.
- Replace Master crates fan packs filters & all racks front filters (ordered)
- Replace a few hot Minder channels: next week, to maintain good standing pool of spares



Others



ND

- Since the 08/22 power outage, the magnet booster pump #1 tripped twice:
 - reverted to pump #2 while issue is being investigated
 - probably bad “heater” or short in motor: will be examined by electrician this week
- LI Gain curve is failing
 - recalibrated the associate electronics but it did not fix the problem
 - need to look at the PIN Diodes signals (this week)

High Intensity batches

- The MINOS collaboration has been extensively studying the observed correlation of NuMI beam intensity with the neutrino event rate in the MINOS Near Detector.
 - We now understand this as a reconstruction effect in the Near Detector largely due the increase of intensity in the slip-stacked batches of the the beam.
 - We are not sure whether the reconstruction effect can be fixed and when.