MINOS Status Report

Benton Pahlka

Live Time: 99.8% good physics data
POT Fraction: 99.8% good physics data

- No problems to report

Live Time: 99.3% good physics data
POT Fraction: 99.8% good physics data

Shutdown Plans

Control Room:

- Update all MINOS software
- Upgrade all computers (SLF6 likely)
- Underground access protocols are now finalized
- Convert to standard beam data logging (current protocol is obsolete)
- All XOC independent but ready

Computing Infrastructure:

- Replace gateway, DCS, and underground utility computers
- Update data archiver software to current standard
- Retire AFS mounting in the control room
- Restructure software installation
- Revisit extended scope of remote shift capability

People involved: Art Kreymer, John Urish, Rennie Scott

Shutdown Plans

At both detector sites:

- General cleaning and dust removal
- Test all detector components (safety/stability)
- Commission the recently pulled/terminated fibers (only near detector)
- Ensure ample supply of spare equipment/hardware (spare parts list)
- Full magnet inspection (near detector work started today)

People involved: Benton Pahlka, Steve Hahn, Howard Budd, Jerry Meier, Alec Habig, Walt Jaskierny, and others

DAQ Refurbishment

- Current MINOS ND DAQ PC's are >8 years old
- Read Out Processors are no longer being made by vendor
- New ones take >3 months to procure and are expensive
- Communication and data would like to be done via ethernet

- Test stand in D0 current addressing these issues
  - Considering Motorola VME5500 instead of old MINOS processors
  - this is not guaranteed but will be big savings of time and money if it does work

- Estimate: < 1 month (left) of testing at D0 and deciding what final system looks like, followed by 2 months of installation and 2 months of commissioning (below ground)

People involved: Donatella Torretta, Bill Badgett, Jeff Savage, Steve Hahn, and combined effort from MINERvA and MINOS

MINOS Publication Breakdown

Journal	# of publications
Phys. Rev. Lett.	11
Phys. Rev. D	9
Phys. Rev. D RC	3
NIM A	16
Astropart. Phys.	3
IEEE TNS	6
Other	5
Dissertations	62

- Does not include proceedings
- More to come this year
- Plenty more to come in the MINOS+ era!

Organizational Matters

- MINOS will be running as much as possible during the shutdown
- We are motivated to:
  - Continue to take cosmic data
  - Ensure stability of Far detector magnets (ND magnet on only for tests)
  - Ensure stability of PMTs
  - Ensure minimal temperature changes to reduce thermal stress
  - Be in a position to test current/new DAQ systems concurrently

- MINOS will not be employing routine shifts, however:
  - Staff at Soudan will be present and will monitor FD during the day
  - Staff at Soudan has automated calling/texting system for problems
  - Fermilab personnel will monitor ND during the day
  - Fermilab personnel will investigate a similar automated system for ND