



MINOS+ Status Report



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All Experimenters' Meetings
March 24, 2014



Near Detector



Daq

- Run with no problems all week
- Planning to do another network disconnect test this Wednesday or Thursday during the scheduled beam downtime
 - To check we can run the whole system
 - We have about 350 GB disk; each run (one every 24 hours) is about 4 GB; we can run disconnected for ~ 8 days.

Electronics

- Hot Minder channel 6-20-5 will be replaced on Wednesday during the planned beam downtime

Beam

- AD GPS hardware problem (Sat – Mon, March 15-17)
- Wrong timestamp for some devices in IFBeam database
- Values are being manually corrected



Far Detector



Daq



- Worked well whole week (off about 1 hour)

Electronics

- Had to replace the MVME 5500 in Crate 0
 - Had problems handling VME interrupts
 - We also found a spare with a failed Ethernet port
- Ongoing problems with Crate 4 PPS auxiliary system monitor
 - Replaced several components in the Crate (TRC, cables, MVME CPU, etc.) , it still does not work
 - The PPS being timed in crate 4 is a spare system
 - The Main system in Crate 2 is working fine
 - Do not expect affecting data quality
- RPS alarms in Crate 8 this morning
 - Cleaned filter, checked sensors connections
 - In warning now



Far Detector



Network

- Intermittent Network interruptions last Tuesday did not affect data collection or transfer
- More Network upgrades for the pseudo-wires connections between Fermilab and Soudan are being discussed
- Not scheduled yet



MINOS+ Status

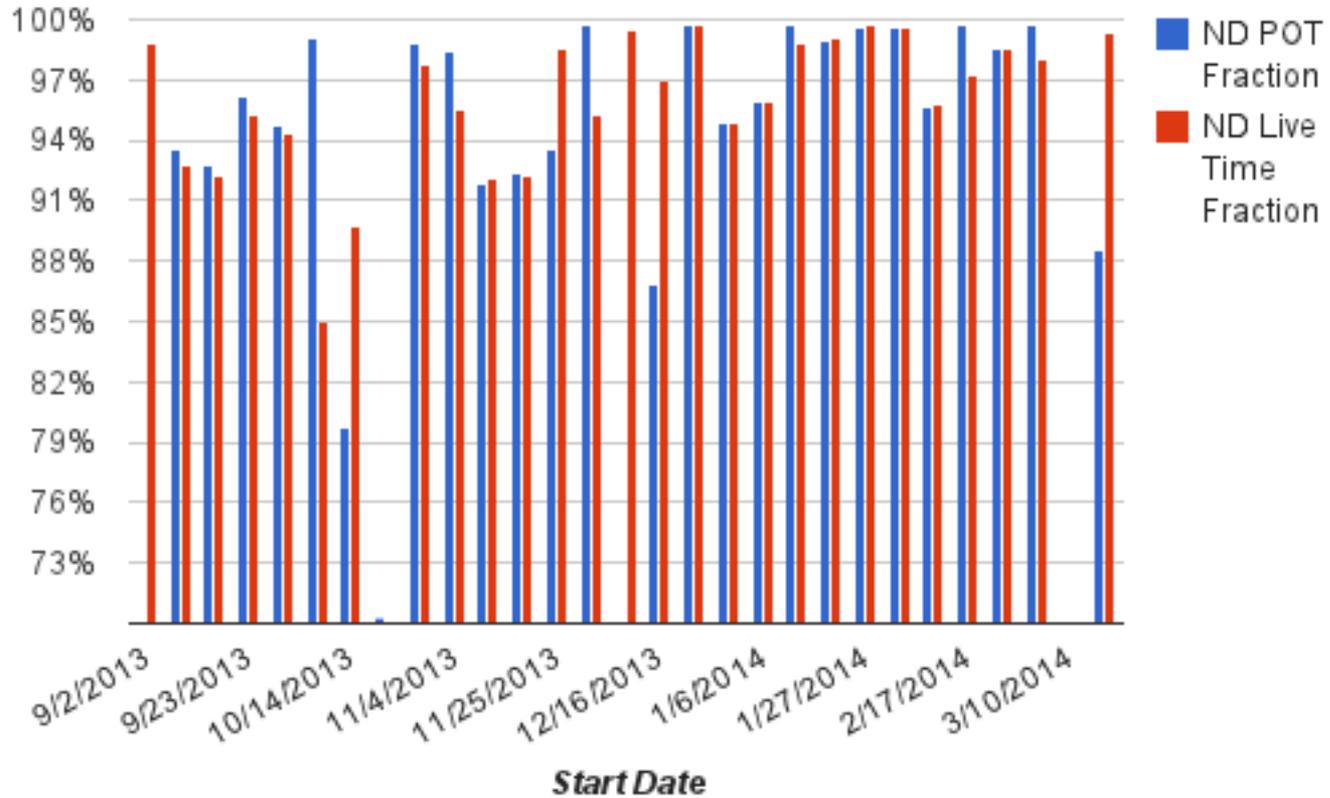


Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
12/30/13 00:00:00	01/06/14 00:00:00	94.9%	94.9%	98.5%	98.5%
01/06/14 00:00:00	01/13/14 00:00:00	95.9%	95.9%	98.7%	98.8%
01/13/14 00:00:00	01/20/14 00:00:00	99.7%	98.8%	99.8%	99.3%
01/20/14 00:00:00	01/27/14 00:00:00	99.0%	99.1%	95.2%	94.8%
1/27/14 00:00:00	2/3/14 12:00 AM	99.7%	99.7%	95.8%	96.6%
2/3/14 00:00:00	2/10/14 12:00 AM	99.5%	99.6%	94.9%	95.2%
2/10/14 00:00:00	2/17/14 12:00 AM	95.7%	95.7%	99.9%	99.0%
2/17/14 00:00:00	2/24/14 12:00 AM	99.7%	97.2%	78.0%	87.0%
2/24/14 00:00:00	3/03/14 12:00 AM	98.5%	98.5%	2.09%	2.13%
3/03/14 00:00:00	3/10/14 00:00:00	99.8%	98.0%	88.0%	84.2%
3/10/14 00:00:00	3/17/14 12:00 AM	33.6%	48.5%	79.8%	99.1%
3/17/14 00:00:00	3/23/14 00:00:00	88.6%	99.4%	88.4%	99.3%

artifact

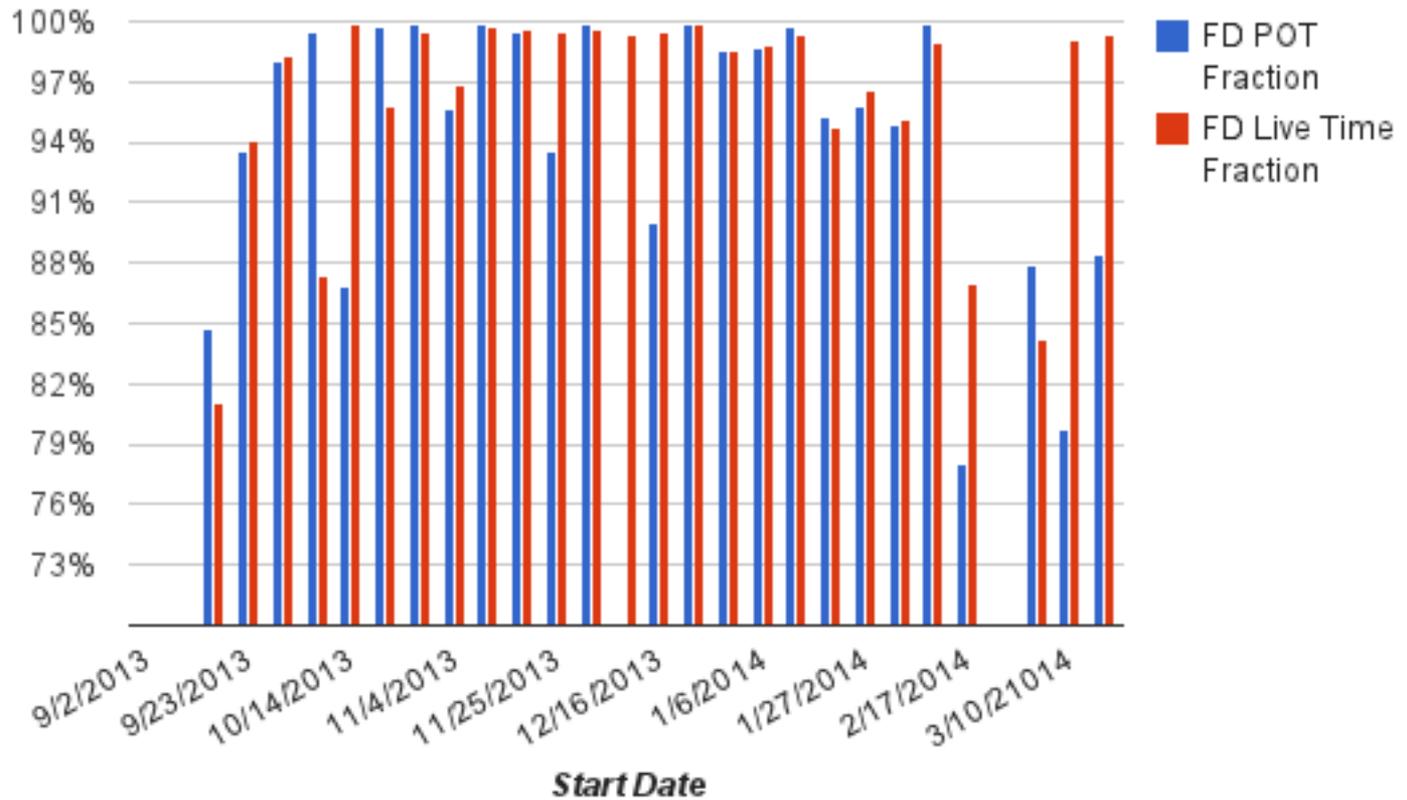


ND POT fraction and Live Time Fraction





FD POT Fraction and Live Time Fraction





Minos+ Status



- New ROC certified last week: UCL (University College London, UK)
- Shifts mostly covered for the next three months
- Taking very good data
 - Many thanks AD