

The MINERvA Operations Report All Experimenters Meeting

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MINERvA



- At the beginning of the shutdown, the underground nearline machine quit syncing its online information to BlueArc. Just before the Sep 11 power outage, we have been able to sync the information to BlueArc. The nearline is working.
- We replaced 12 FEBs
 - 10 FEBs were replaced because of a problem with the low readout.
 - The low is only occasionally used in analysis.
- We replaced 2 PMTs
 - Steve Chappa along with newly trained person Brain Hess , both of EED
- ND techs along with the watchful eye of Tim Griffin of PPD removed & replaced the roof
- Working on getting a spare DAQ computer, mnvonline05. The DAQ works on 05, but the DAQ doesn't talk to the serial port, needed for LI, and the nearline computer, needed for online monitoring. We have setup the MINERvA Lab F test stand to try to understand why.
- Add VMware Windows XP instance to readout MINERvA cameras.

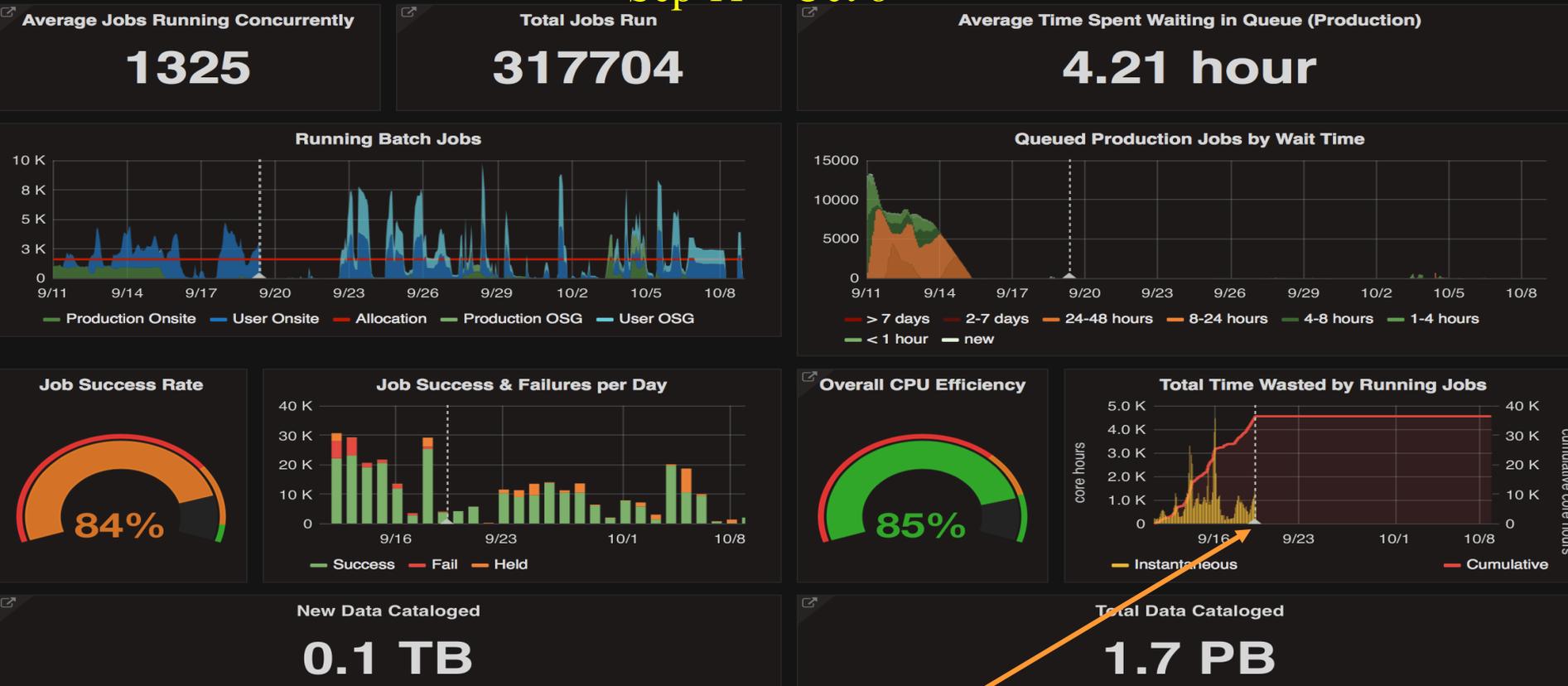


MINOS



- Replace the water for the LCW skid with distilled water. At same time do other work such as replace a flow meter & filters in filter cylinder.
- Check the fans in the DAQ computers. The two computers claim they are hot.
- Replace filters for all the racks & clean dust from the 2 HV crates.
- Some MINDER boards need to be replaced.
- A couple of attempts to fix a MINDER power supply failure have not worked.
- A PMT that seemed to have a problem in the cosmic gate is OK now. Probably the dynode out is flaky. This problem has shown up periodically since 2011. The tube is difficult to replace.
 - The CR trigger is the dynode out. The beam trigger is A9, so this problem does not effect beam data

Sep 11 – Oct 8



- Job success rate and overall CPU efficiency are good (~85%)
 - Efficiencies not reported after Sep 18
- Batch job submission failed after service outage on Sep. 19 (several days) due to missing 32-bit libraries in the new FermiGrid system and it has been recovered after requesting to add libraries
- MINOS keepup and MINOS stage in MINERvA reconstruction jobs have a similar issue (missing 32 bit library) with the new FermiGrid system. Investigation (list of missing libraries) is underway.

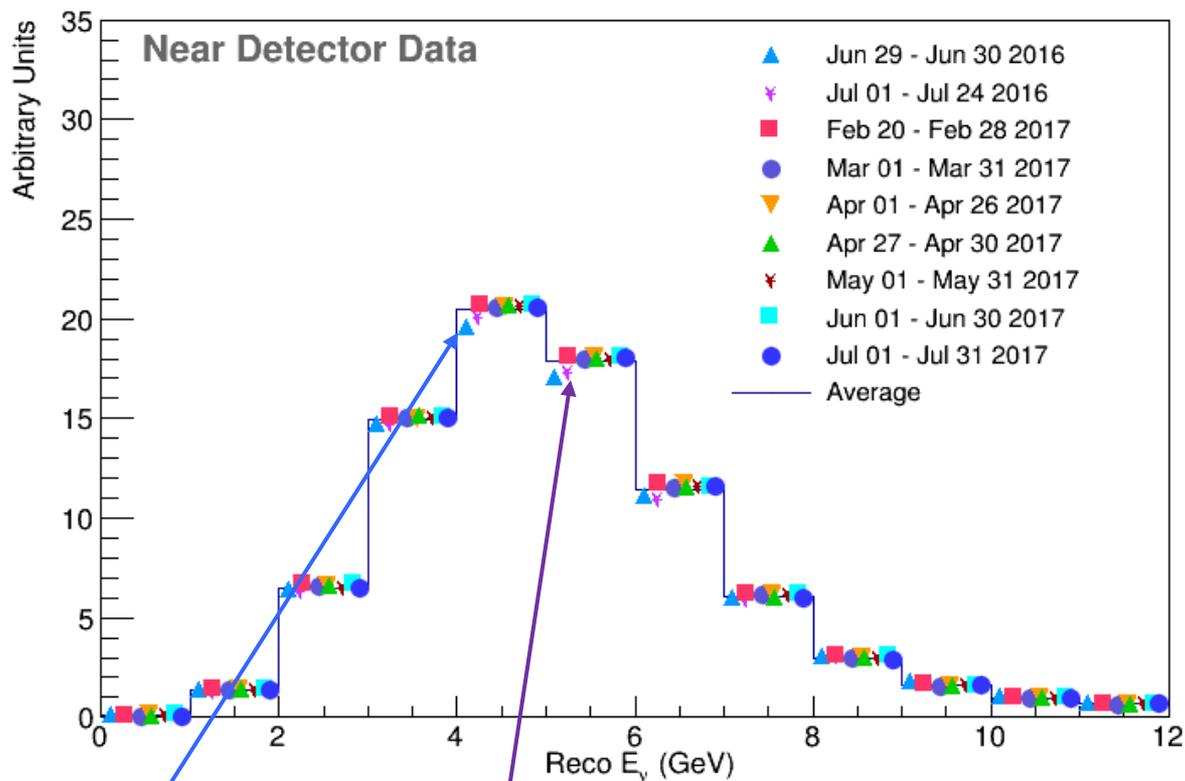


MINOS Energy Stability Plot

Anti- ν Running



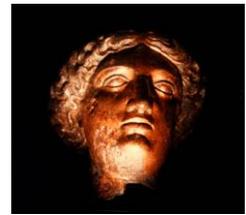
Anti-Neutrino Energy Spectrum Stability_All



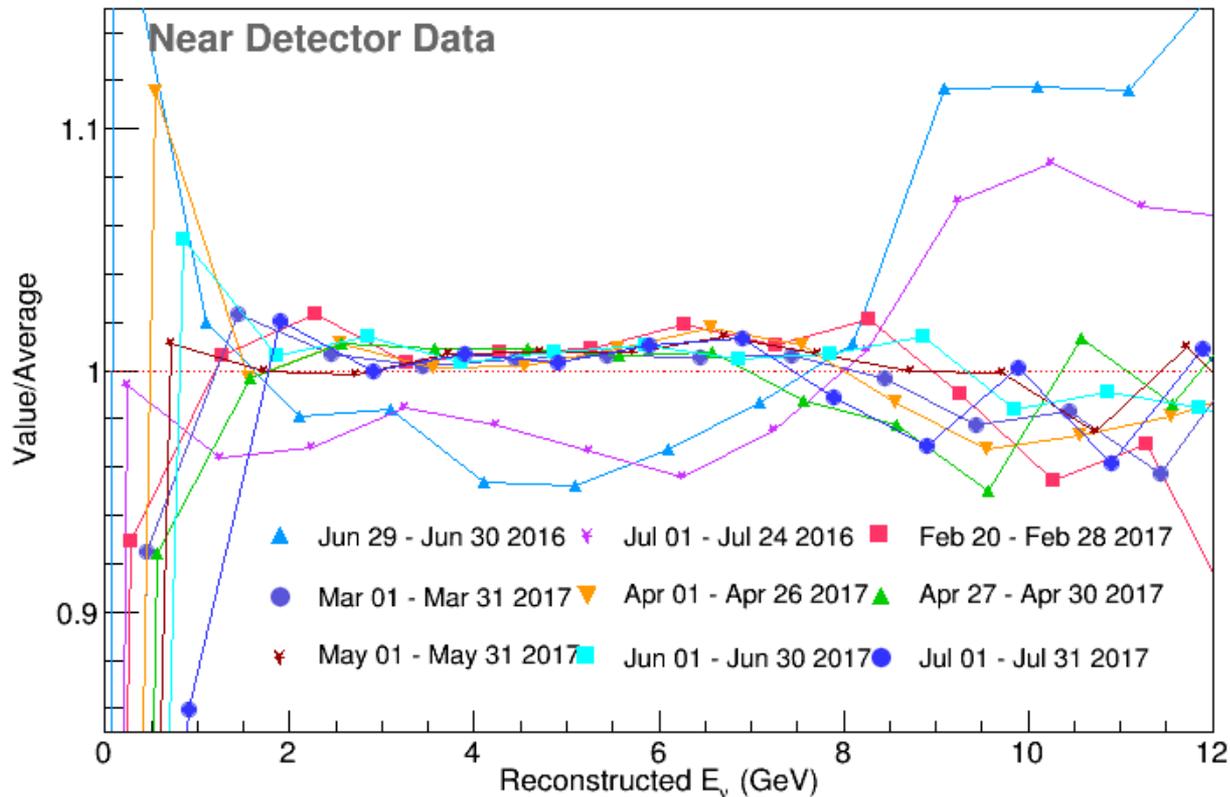
- Shows the stability of the beam over all the ME anti- ν running
- For Jun 29 – Jun 30 & Jul 1 – Jul 24 2016 the horn was tilted.
- Shown by MINOS in previous AEM talks to show the state of the beam



MINOS Stability Plots Ratio to Average



RatioPlot_all



- Value to average. Energy is very stable, except when the horn was tilted. Indicates stability of the NuMI beam even in very high luminosity.