The MINERνA Operations Report
All Experimenters Meeting

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Aug 6, 2012

MINERvA Detector

- Jul 2 the detector was powered off for power outage on Jul 10
- Tested Rack Protection System (RPS) to the FIRUS system
  - Blew smoke in smoke detector and RPS trip off MINERvA racks and the alarm was sent by the FIRUS system
  - We thank Linda Bagby for coordinating this task
- The detector power has not been turned back on
  - We started turning on the detector, but the UPS (uninterruptible power supply) stayed on battery power.
  - UPS is heavy (~ 100 lbs) and we are working out a procedure to replace the UPS using a lift truck and a dolly.
- We should be able to replace the UPS toward end of week.

Divider Wall in front of MINERvA & MINOS

- The wall between the construction are and the MINERvA and MINOS detector is being constructed.
- Should be finished by the end of the week

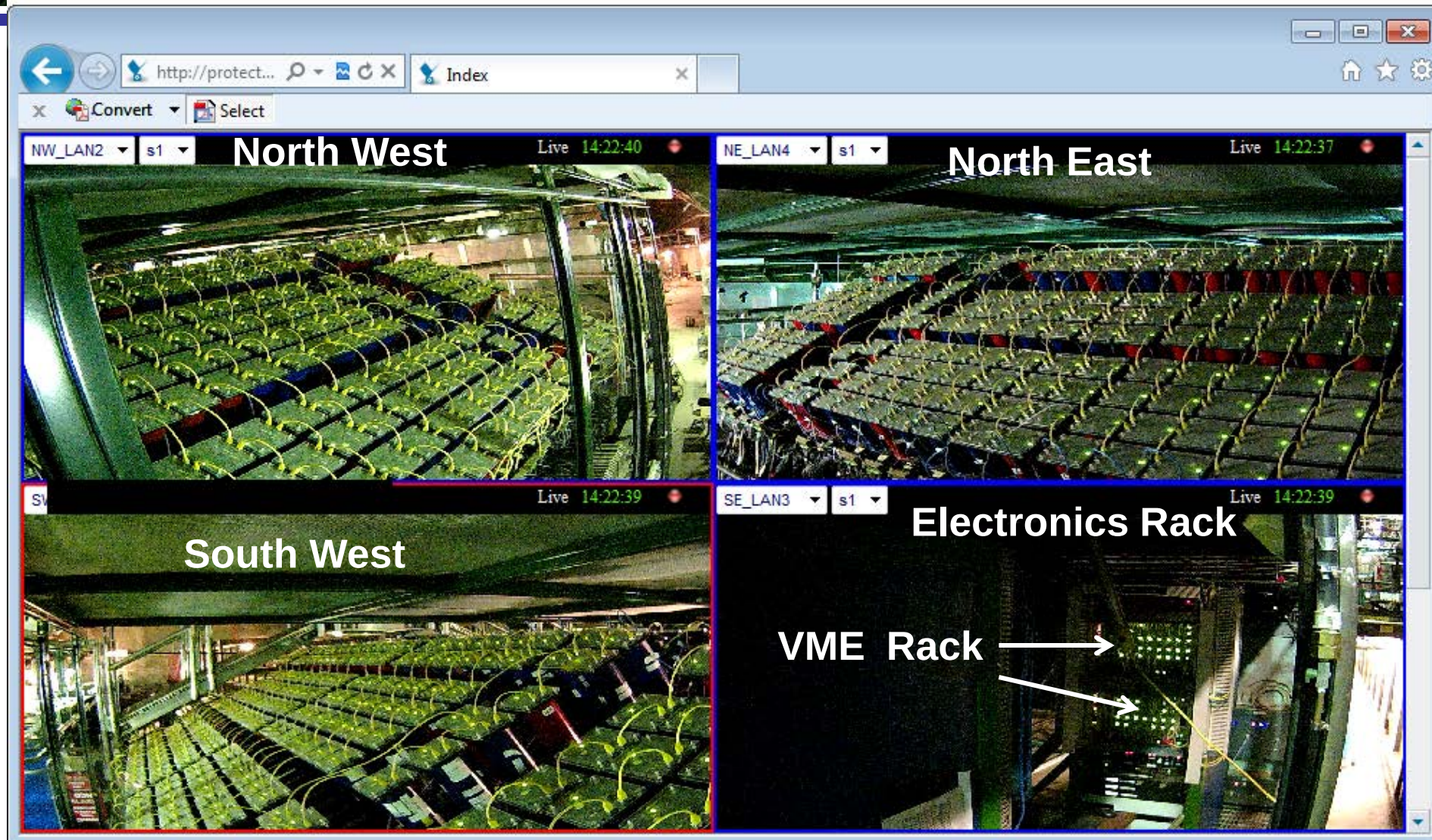
MINERvA Plans for Excavation

- Excavation is scheduled to start on Aug 16
  - The excavation will take place at night
- We planning on running shifts, roughly 2 hours
- Initially, leave HV off overnight
- We will turn on HV at start of shift
  - Run peds and light injection and use online monitoring to look at results.
  - Goal is to insure all PMTS are OK

Plans for Excavation

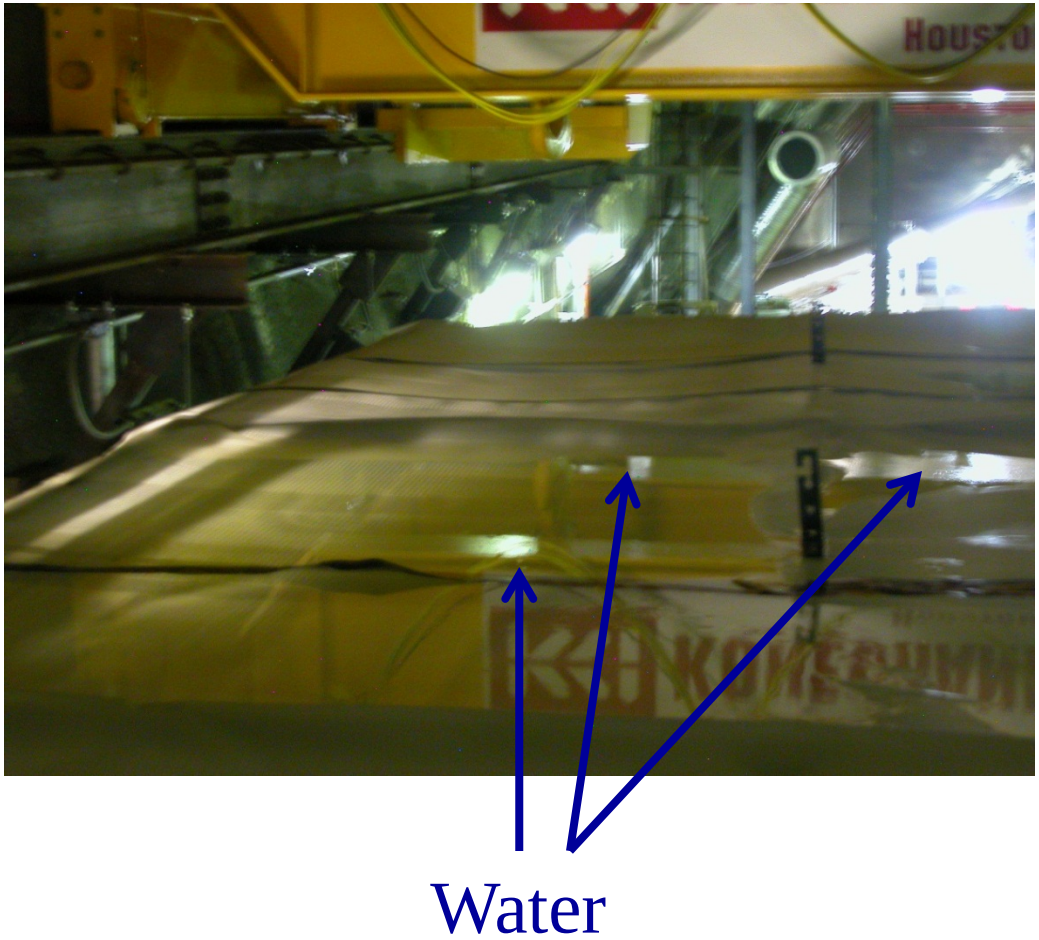
- Shifters will be looking at the 3 vibration monitors over previous day and post plots in elog.
  - Tilt monitors on 4 PMT setup by Linda Bagby and Todd Johnson
  - 2 types of monitors setup by Jim Volk
    - Budker seismometers in back of MINOS
    - Water level sensors
  - All devices readout out in ACNET
    - Thanks to Accelerator Division for this
- ES&H will leave 4 dust monitors over night in the MINOS Hall at night when an excavation will take place

protect-minerva-cam.fnal.gov



- Shifter will look at detector to be sure its OK

Drip Pans Overflowed Last Week



- Drip pans overflowed on to MINERvA roof
- Roof prevented any water from getting on the detector or racks.
- 65 gal was drained from the roof using a shop vac
- Need to clean out drip pans more often
- Thank PPD for addressing this situation
- Looking into replacing roof with something else

Refilling and Draining the Water Target

- In filling and draining the water target we used a flow meter.
  - Put 192.6 gal in the water target.
  - Drained 148.7 gallons,44 gal difference
- Expect 175 gal, Bob Wands calculation
- Refilled target, The barrels were weighted before and after the water was put into the target. No flow meter was used
  - Put in 172.5 gl
- We drained the target
  - Put a drum on the scale and wrote down the weight of the drum before putting water in the drum and after
  - 171.5 gal, 0.6% difference which is fine