



Hall C – Post Job Feedback February 11-April 3, 2008

April 14, 2008

Post Job Feedback - Why?



- Time available to work in Hall is limited by schedule
- Safety problems or delays lead to delays in startup of beam
- With current budgetary climate and 12 GeV schedule it is becoming harder to make up lost beam time.
- Several major installations before 12 GeV
 - Polarized Target
 - Hypernuclear beamline and spectrometers
 - Compton Polarimeter and beamline upgrade
 - Qweak
- Work in Hall always involves a large group of diverse people
 - Hall C Tech staff, physics staff, users, other Jlab staff
- Always room for improvement
- Feedback and Continuous Improvement an ISM “Core Function”



CF#5 Feedback and Continuous Improvement

- Conduct post job reviews (worker feedback)
- Collect and distribute lessons learned
- Conduct independent, management, and self-assessments



What was the “Job?” - 1



- No major experiment being installed, but large amount of work happened in Hall Feb 11-April 3.
- Installation of SANE detectors
- Removal of SANE detectors
- Moving BigCal
- “Curing” BigCal lead glass
- Replace F1TDC's with fastbus crate (SOS->HMS)
- Pumping Moller lines
- Unpacking and stowing HES spectrometer and splitter parts
- Replace Be beam line dump window, change vacuum pump
- G0 work: decabling, remove FPDs, miniferris wheel work, Gate valve
- Rework target
- Removed lead shielding in HMS hut for F1TDCs
- Removed MINERvA detectors from SOS
- Housekeeping
- ...



What was the “Job?” - 2



- Work was done in midst of ISM hardening in preparation for ISMS review
 - Starting using using HCList for job requests
 - Incorporating safety information into MS Project schedule
 - More paper documentation of
 - Task Hazard Analyses
 - Lift plans
 - Equipment inspections
 - Checklists
 - Much of above available in Hall C document database



Feedback

- Cabling requests come too late in installation period. Months instead of weeks notice would help.
- How often are lift plans done/needed for routine crane ops?
- Formalize notice of new work control documents (TOSP, OSP, SOP).
- Tunnel OSP up for renewal. Any changes needed?
- Is there a way to do difficult one time assembly jobs? A: Review assemblies using existing procedures. Resulting in a TOSP or similar.
- Incorporate current crane/lift practice/rules into design of new equipment.
- Layout installation schedules further in advance.

Lessons Learned

Know and follow PPE/safety requirements with confidence.

Increased rigor of THA's, lift plans, checklists not that onerous.