

Run Coordinator Report

for E05-015/E08-005
May 5-May 11, 2009

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May 11, 2009

Overview

- ▶ The last week of E05-015 and E08-005.
- ▶ Finished the productions with 3-pass and 2-pass beam with abundant statistics.
- ▶ BigBite Hadron detectors were calibrated during the last couple of days.
- ▶ Switching over to E05-102 $^3\text{He}(e,e'd)$
- ▶ Major Accesses when beam available: 7 hours
 - 4 h for R-HRS dead time issue
 - 3 h for R-HRS bottom VDC HV

May. 05, 2009, Tue.

- ▶ Production with 3-pass beam: 10uA
- ▶ 07:00 – 14:40 Beam study
- ▶ 17:50 – 19:25 Controlled access: fix high dead time caused by crazy R-HRS T8 -> Loose cable
- ▶ 21:20 – 23:00 Reference cell measurements: H2@135psig
- ▶ 23:00 – 24:00 CHL down due to lightning

May. 06, 2009, Wed.

- ▶ Production with 3-pass beam: 10uA
- ▶ 00:00 – 08:00 CHL down due to lightning
- ▶ 01:00 – 06:00 HRS magnets recovery
- ▶ 08:00 – 21:00 Beam study and recovery.

Controlled access:

- Moved Neutron Detector to 62.5 degrees and 6 m from target
- R-HRS busy signal check: ROC8 busy signal -> Workaround with R-HRS un-buffered mode
- ▶ 23:30 BCM problem starts

May. 07, 2009, Thu.

- ▶ Production with 3-pass beam: 10uA
- ▶ 09:00 – 09:30 Controlled access: Rebooting Happex DAQ ROC26
- ▶ 13:15 – 14:30 MCC RF Power Supply Repair. Controlled access:
 - First attempt to fix BCM
 - Investigation of ROC8 busy signal
- ▶ 17:30 – 21:50 Controlled access to diagnose R-HRS high dead time and identified it as the after pulsing problem from s2 PMTs. Use multi-hit TDC as a workaround.
- ▶ Compton Electron-detector Commissioning

May. 08, 2009, Fri.

- ▶ 00:00 – 12:00 Production with 3-pass beam: 10uA
- ▶ 12:00 – 14:30 Pass change to 2 passes. Controlled access
 - Investigation of ROC8 busy signal problem
 - PVDIS DAQ
 - Fix BCM: faulty DC power supply
- ▶ 16:45 – 21:00 Production with 2-pass beam: 5.5uA
- ▶ 21:00 – 24:00 Reference cell measurements: H2@135psig, Empty, N2@20psig

May. 9, 2009, Sat.

- ▶ Production with 2-pass beam: 5.5uA
- ▶ 09:00 – 11:00 DAQ problem, caused by logging onto a incorrect machine
- ▶ 11:00 MCC raster accident happened! Extreme large raster caused the beam hitting the wall of ^3He cell. Excessive radiation tripped neutron detector and possibly R-HRS VDC HV.
- ▶ 15:15 – 15:50 BigBite scintillator and wire chamber test
- ▶ 15:50 – 18:30 Controlled access: Fix R-HRS VDC#1 HV by switching to local mode and it is only a tempera work around!

May. 10, 2009, Sun.

- ▶ Production with 2-pass beam: 5.5uA
- ▶ BigBite scintillator HV test
- ▶ 12:30 – 15:00 BigBite wire chamber HV scan
- ▶ 15:45 – 18:10 Optics and BigBite scintillator HV test
- ▶ 22:30 – 24:00 MCC power supply failure in east LINAC

May. 11, 2009, Mon.

- ▶ 00:00 – 07:20 MCC power supply failure in east LINAC
- ▶ 07:20 R-HRS VDC HV tripped
- ▶ 07:24 – 08:30 Production with 2-pass beam and L-HRS only: 5.5uA
- ▶ 08:30 End of E05-015 and E08-005
- ▶ 08:30 – 24:00 Cell change and controlled access

3-pass data quality check

