

# Happex-III RC Summary, October 20–27, 2009

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Hall A Meeting – October 27, 2009

# Tuesday, October 20, 2009

- 21:14 – Power outage on accelerator site
- Restricted access, magnets down, target warm

# Wednesday, October 21, 2009

- 04:45 – All spectrometer magnets back on cold return, cryo is stabilizing, magnets not ramped up
- Cosmic runs, pedestal runs all day, waiting for beam
- Target cool down postponed until beam for density studies

## Thursday, October 22, 2009

- 00:12 – Beam, problem with BPMs before hall, access
- 05:20 – Beam again, but now fast feedback (FFB) problem
- 09:00 – FFB seems fixed, but access for target cool down
- 11:00 – Planned down time, pass change Hall B (5 → 1)
- 12:30 – Target fan motor loop 3 (25 cm) burned out, changing to loop 1 (20 cm) on Friday
- 13:30 – Right arm sieve slit encoder dead
- 17:30 – Ramping up spectrometer magnet, but fail to reset Q1L and Q3R, keeping down since no FFB and no target
- Night: Møller measurements

## Friday, October 23, 2009

- 00:00–04:00 – Møller measurements
- 02:00–04:00 – Oversampling tests
- 05:00–06:30 – Cavity BPM calibration
- 08:00–09:40 – MCC investigating FFB problem, fixed
- 10:30–15:45 – Access for target loop 1 cool down
- 16:00–17:30 – Ramp up spectrometer magnets: trips
- 20:00 – Ed checks magnet cryo controls
- 23:00 – Q2L PS trips at 500 A, right arm trips, magnets stay off for the night, Compton studies

## Saturday, October 24, 2009

- Until 11:00 – Compton studies
- 11:00 – Controlled access for Ed and Heidi to adjust magnet cryo
- 13:30 – Both spectrometers ramped up to 1.4 GeV
- 15:40–17:40 – Q2R trips, increase in lead flows suggested by Heidi
- 19:00 – Right arm ramped up: harp, raster, hole target
- 21:00 – Target lifter encoder problem, access for Dave
- 23:30 – Production, no target heater beam compensation

## Sunday, October 25, 2009

- 00:00 –  $Q^2$  measurement
- 09:30–14:00 – Møller injector phase studies, tuning
- 15:30 – Q1R trip, problem with lead flow reading
- 16:15 – All other magnets down after trips/quenches
- 18:30 – ESR turbine T2 trip
- 19:30 – Controlled access for Ed, Heidi, Todd
- 22:15 – Restricted access all night, only TO on shift

# Monday, October 26, 2009

- 07:00–16:00 – Work on magnet cryo, then beam permit
- 16:30 – Left arm at 3.14 GeV for Al window thickness
- 18:30 – MCC puts 10  $\mu\text{A}$  unrastered on dummy Al
- 20:00 – Finally raster problems worked around

# Tuesday, October 27, 2009

- 00:00 – Q2R trips
- 00:38 – Power outage on accelerator site
- Restricted access, magnets down, target warm

# Beam Time Accounting

October 20 (owl) – October 26 (swing), 2009

Scheduled	153 hours	% of Scheduled
Actual	75.6	49.4
ABU	39.1	25.5
BANU	76.1	49.7

## Major reasons for BANU

- Power outage (not really BANU)
- Fast feedback problems
- Target fan failure in loop 3, change-over to loop 1
- Spectrometer magnet cryo
- Power outage