## SANE Short Term Run Plan -<u>Sat. 2/21 day/eve - Sun. 2/22 owl</u>

## **<u>RUN PLAN</u>** (SAVE previous run plans in the Run Plans binder)

Sat. 2/21 day to Sun. 2/22 owl. Opportunistic accesses: when switching targets, during anneals (check with the target experts) or to delay or move up anneal times to avoid annealing between midnight and 6:00 AM. Keep < 30 min. long if possible.

BEAM (for production runs):

Current : 95 nA

- check that the <u>SR is ON</u> and configured with New Settings for 5.9 GeV Beam as explained in hclog entry 175618 (20 mm dia.) spiral: 1.37 V; circles 1 & 2: 1.28 V
- fast raster 1 x 1 mm
  beam at x = -1.0, y = -0.66 mm on BPM 3H00A;
  x = -1.5, y = -0.3 mm on BPM 3H00B
- Enter all required variables in the on-line Run Sheets, including the target polarization at the beginning and end of each run

## DATA:

HMS: should be set at central momentum to 4.17 GeV/c, 22°, protons for ep elastics.

- Check target and beam centering with cross hairs target. Take a short run (<10 min) and look at the slow raster ADC plot. The cross hairs should look reasonably centered (within 1 mm) in the vertical and horizontal, and the rim of the cup should not be visible at the edges of the raster. Use target encoder values of hclog **176791**.
- If beam centering is needed, follow run plan for 2/13/09, in the binder and on the wiki. *Don't steer the beam more than* +/- 0.5 *mm from above positions*.
- <u>Make sure all detectors are ON, LED's off and retracted, prescale factors and trigger</u> type correct, etc. before starting
- Take data with the BOTTOM target with **NEGATIVE** polarization. Watch the polarization rate of increase. Wait up to 30 min. from the start of polarizing:
- If it takes (or took) *more than 30 min to get to 50%*, it probably can use some beam. Ask for **110 nA** and start taking data, continue for up to 4 h total time.
- If the polarization rises *above 60% in*  $\leq$  30 *min*, ask for **95 nA**, take ~1 h long runs. Continue with 1 h runs until the polarization is at ~ 0.75 of its maximum value.
- Take data with the TOP target with **NEGATIVE** polarization, **95 nA**, until polarization is at  $\sim 0.75$  of its maximum value.

ANNEAL

## p. 1/2 02/20/09

1. Target experts will conduct the anneal.

2. Put the C target in beam to help boiling off He in the nose. Ask for <u>150 nA</u>. The HMS is set for protons so it is not necessary to take HMS data.

3. Target experts will finish the anneal. Continue with NH3 production data. No need to take EMPTY or C+He runs.