

SANE Short Term Run Plan –Wed. 2/11 eve – Thur. 2/12 owl/day/eve

RUN PLAN (SAVE previous run plans in the Run Plans binder)

Wed. 2/11 eve to Thur. 2/12 eve. 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 SR is ON** 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**, 3H00A x=-0. y=-0.66 3H00B x=-0.5 y=-0.3
beam at **x = -0., y = -0.66 mm on BPM 3H00A;**
x = -0.5, y = -0.3 mm on BPM 3H00B (per hclog 175661)
- 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 3.1 GeV/c, 15.4°, electrons ($Q^2 = 1.3 \text{ GeV}^2$, $W = 2.2 \text{ GeV}$) for packing fraction.

- 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 is over annealed. Ask for **110 nA** and start taking data, continue for up to 4 h total time.
- If the polarization gets *above 60% in $\leq 30 \text{ min}$* , ask for **95 nA**, take ~1 h long runs. Continue with 1 h runs until the polarization is down to 60% or 4 h total time, whichever comes later.
- Take data with the TOP target with NEGATIVE polarization, **95 nA**, until polarization is at 0.75 of its maximum value.

ANNEAL

1. Target experts will conduct the anneal.
2. Put the C target in beam to help boiling off He in the nose. Ask for **100 nA**.
IMPORTANT: Take a ½ h long run *AFTER the nose is empty*. Watch the HMS or BigCal rates: *the nose will be empty when the rates stop changing after dropping, start a new run then.*
3. Target experts will finish the anneal. *Target expert should access the Hall to open by-pass valve to cool the nose quickly.*
4. Once the anneal is complete and there is LHe in the nose, take a ½ h run with the EMPTY (a.k.a. cross hairs) target(*enter Cross Hairs + He in run sheet*), and another ½ h run on C+He, both at **100 nA**.