

**Hall A
Run Coordinator
Report
07 Mar - 14 Mar
2018**

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Overview

- Accelerator is recovering from the March 5th power outage:
 - Replacing CHL transformers
 - Maintaining Linacs at 4k/2k
 - Cavity recovery
- Shifted beam schedule:
 - No beam until accelerator back to full power
 - The remained 18 days of spring beam schedule (March 5th->March 23th) are expected to happen between March 23th to April 16th

Hall Status

- Hall is in restricted access
- Target is warm. All shifts before March 19 are canceled.
- HRS magnets are cool, no current.
- L/RHRS at angle 17.58/32.12 degree. A pointing survey were taken on March 12.
- March 13 Bill Gunning noticed a raster fan failure, turned raster off.

KIN/1 $\theta = 17.577$ $\chi = 0.22$ $E' = 3.1$ GeV

Positron Running at 3.1 GeV

1. Carbon Hole check

2. Carbon (single foil) PS8=10 (for both arms) $5 \mu A$

for Raster Calibration

Target	Round I	Round II
	each bar = 1.6 of beam on target	
Empty coll 22.5 μA	<input type="checkbox"/> #e ⁺ =	Dummy 22.5 μA <input type="checkbox"/> #e ⁺ =
He 3 22.5 μA	<input type="checkbox"/> #e ⁺ =	<input type="checkbox"/> #e ⁺ =
Hydrogen 22.5 μA	<input type="checkbox"/> #e ⁺ =	<input type="checkbox"/> #e ⁺ =
D 2 22.5 μA	<input type="checkbox"/> #e ⁺ =	<input type="checkbox"/> #e ⁺ =
H3 (tritium) 22.5 μA	<input type="checkbox"/> #e ⁺ =	<input type="checkbox"/> #e ⁺ =

Target
Good electron
Charge
254
Charge estimate

After any >4hr down,
Carbon Hole SPOT check!

Printer upstream c326 r40 copier 5162
L.H.R.S. Prescaler: ps4=ps2=ps3=2, ps5=0
R.H.R.S. Prescaler: ps4=ps5=ps6=2, rest=0
res=134+600.27
RRS estimate
d. 106, d. 246, He 210, $\Sigma \times 32 d$

Current Run plan

03/07 - 03/10:
(11:55)
Cosmics data taking with T2 & T3 Left
T5 & T6 Right

03/10 - 03/13:
Cosmics data taking with T1 & T2 Left
T4 & T5 Right

03/13 - 03/16:
Cosmics data taking with T3 Left
T6 Right

Collimator Center for $\chi = 0.22$ $\theta = 17.577$
 $X = 2.0$, $Y = 0.5$

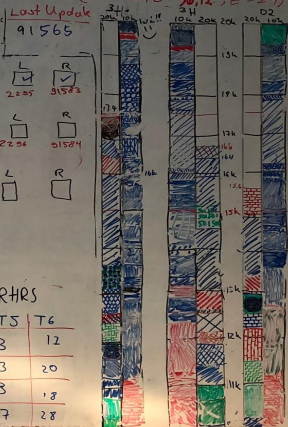
Settings:

① $E = 10.6$ GeV, $I = 22.5 \mu A$
② Raster size: 3.5×15 mic = 2×2 mm target
③ Beam Position:

X	0.5	0.0
Y	0.5	0.0

RHRS Kin ^{16}O Progress BAR

$\chi = 0.22$, $\theta = 17.577$, $E = 3.1$ GeV



Scaler Rates RHRS

Target	T4	T5	T6
3He	12	3	12
3H	15	3	20
d	12	3	18
Dummy	21	7	28

Run Plan

- Marathon collected ~70% of statistics.
- Once 5 pass beam comes back...
 - RHRS parked at 36.12 to continue kin 16 (highest xbj).
 - LHRS at 17.58 degree for systematic check:
 - Polarity is flipped, ready for positron contamination measurement.
 - Boiling study is planned.

Thank you!

Good luck to our next RC: Tyler Hague!