

I10 Magnet Position vs. Early CBM. I10 Extraction

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FEB COMMISSIONING STUDY

KEANE, CORNISH

scheduled 0001 to 0600

MAY 8, 1974
NO. 67

Blumberg

- I See IFI 10 Magnet causes machine operation at injection
- II EXTRACT FRACTION of INTERNAL beam at I10

RESULTS

I. There was no interference at injection!
I10 magnet position was run at its max. in position (H10 FEB POSITION .375 IN)
I10 basketleg P.S. ran at max current
Ran out past transition with no problem
NOTE: that early radius shift (50 millises) had been set up for hard bre shift

II EXTRACTION at I10

Did get extracted beam on both I13 and I10 flags! Intensity & extraction efficiency unknown.

(a) Had no indication on I13 current transformers & still have computer problems when try to run FEB [25, 75]

(b) With C15/E15 OFF & all other parameters set had notch in circulating beam of $\approx 15\%$ at extraction time. Could reduce notch magnitude by pulling out I10 magnet & turning off I10 bump but could not eliminate completely. Turned off I10 ejector magnet didn't have any effect

(c) With C15/E15 ON circulating beam monitor dropped to about 45% at extraction time

(d) Noted rotated ellipse at I13 flag slightly rotated at I10 flag