Blumberg
NO. 34

Tuning Studies (0-6; 8/29/73)

Participants: Raka, Gill, Herrera

Purpose: To tune AGS and gain intensity

Conditions:

1) Beam intensity was very erratic due to r.f. arcing in Tank seven of Linac.
2) Max linac current about 40 ma.

Results and Comments

1) Equilibrium orbits were taken at injection time (60 ms after T_0)
   Horizontal $\approx \pm 6$ mm.
   Vertical $\approx \pm 2$ mm.
2) Above orbits were observed with 17 horizontal and 13 vertical electrodes.
3) We tried M. Barton's harmonic corrections but the beam was too erratic. No success.
4) Injection and multipole correctors were tuned
5) Injection r.f. was tuned.
6) We observed a maximum intensity of 5.7×10^{12} p/p with many >5, but erratic.
7) New pue's and computer interface should be completed.

J.C. Herrera 8/31/73