Blumberg

NO. 1

Vertical Beam Size Measurements (data 4/25/13)

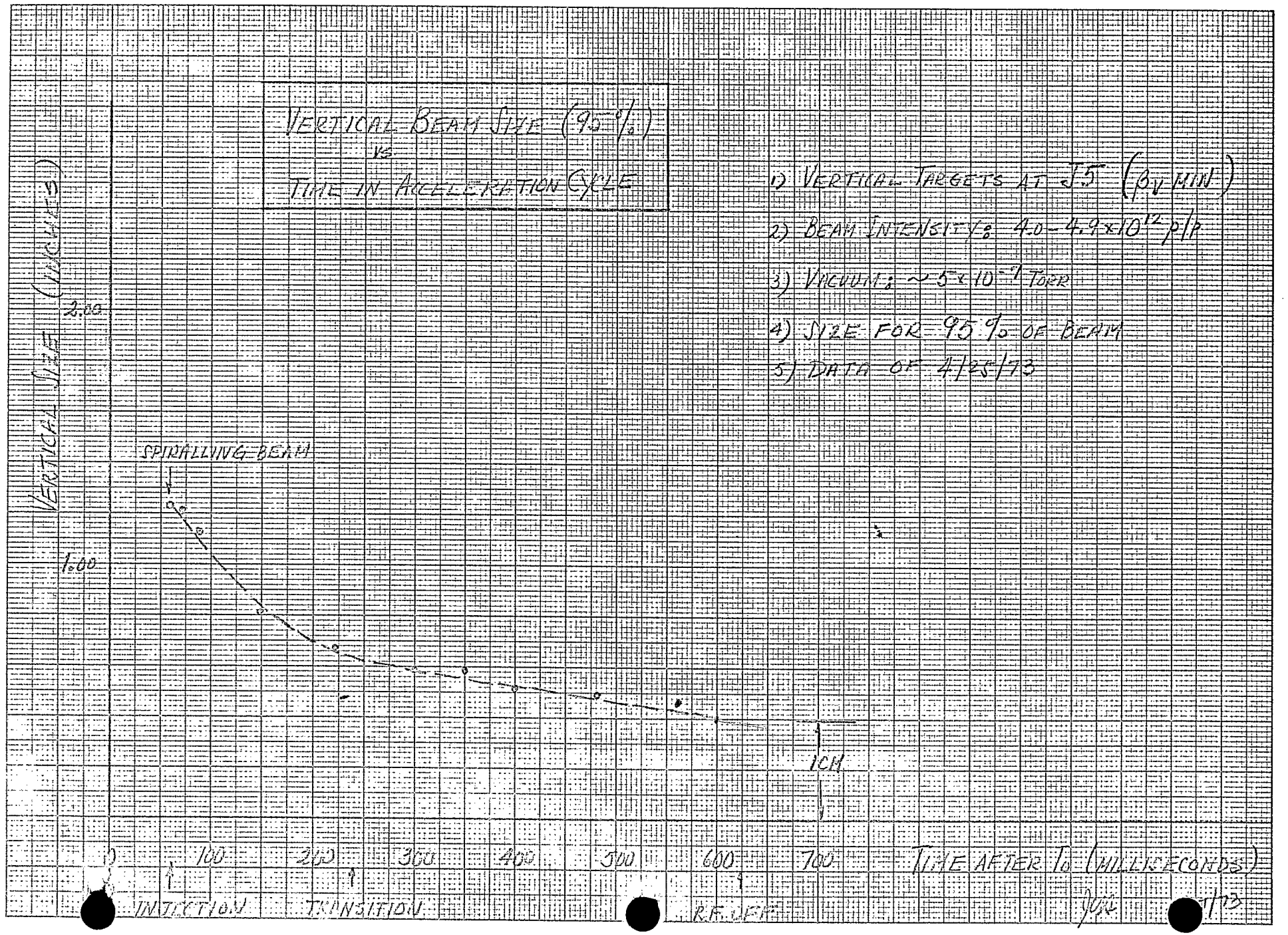
Measurements of the vertical beam size were made for the entire acceleration cycle.

Conditions

1) Vertical Targets at J-5 (β_V min)
2) Beam Intensity 4.0 – 4.9 x 10^{12} p/p
3) Size for 95% of beam
4) Vacuum ~ (5×10^{-7} Torr)

Comments

1) During measurements machine ran well: intensity variation pulse to pulse were small.
2) Size at high energy is larger than before the conversion by about 1.4/1.
3) Size at injection is smaller by a ratio of $\frac{1.2}{2.2} \times 1.4 = 0.75$.
4) There is no sign of a change in vertical size in the vicinity of transition energy.

J. Herrera
4/27/13

GRAPH PAPER GRAPHIC CONTROLS CORPORATION Buffalo, New York
Printed in U S A
SQUARE 10 X 10 TO THE CENTIMETER AS-8014-GO