OFFICE MEMORANDUM

LOS ALAMOS, NEW MEXICO 87545
Telephone Ext:

TO M. Kligerman, MS 815 Logged

DATE December 21, 1979

712966

FROM J. Bradbury

SUBJECT BEAM AVAILABILITY PROJECTION

SYMBOL MP-3

MAIL STOP 844

In response to your memo of December 20, please note that the most important and most accurately determined datum with respect to beam availability is the long-term average availability of 80-85%. This has been true for several years and is not expected to change significantly. Your group has accumulated about 4000 hours of experience (something like a factor of 10 greater than most experimental teams) with the LAMPF beam production characteristics and it seems to me that this experience, examined in terms of your budget constraints, should be the dominant factor in determining the proper number of patients to access.

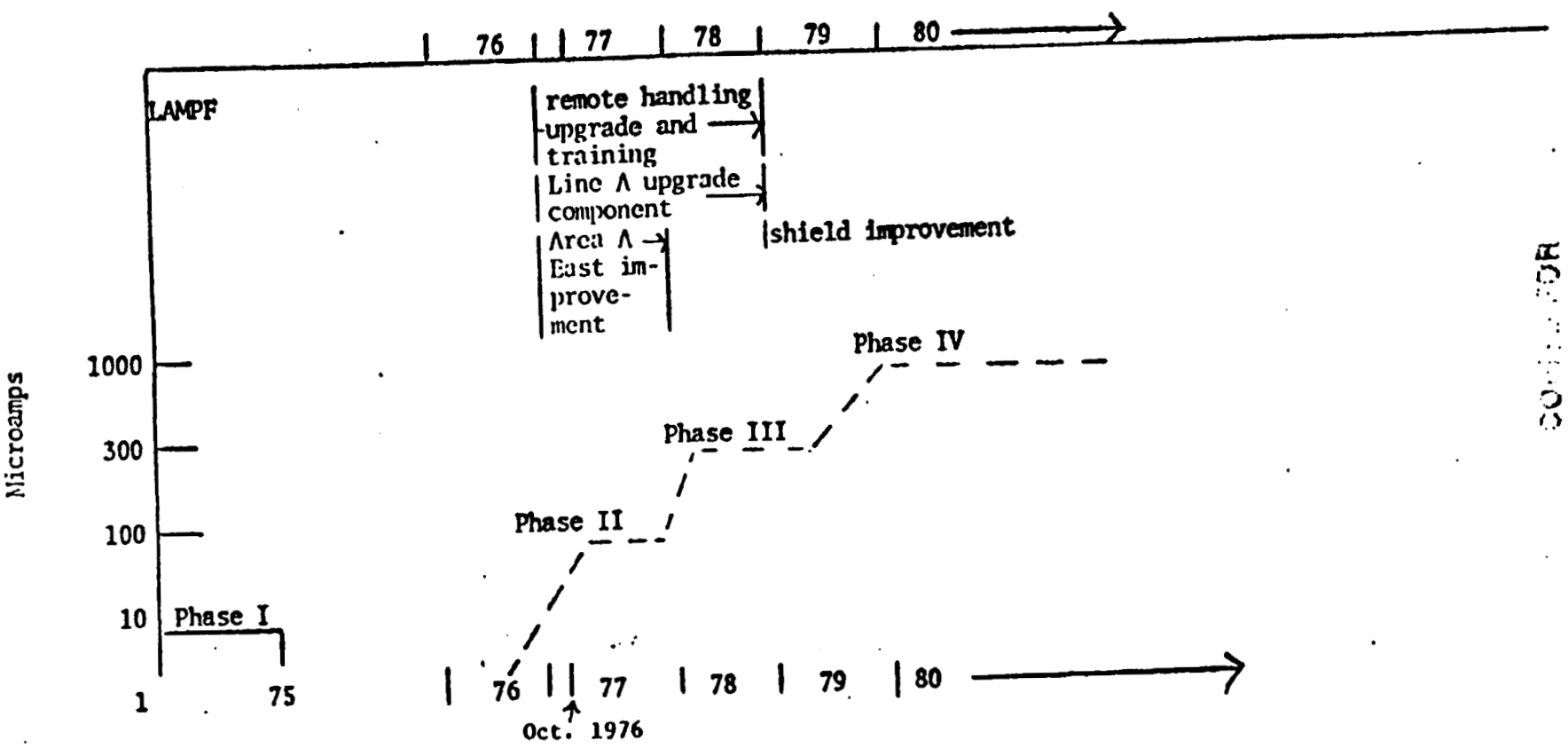
The probabilities you requested are listed below but be aware they are derived from data acquired during the summer of 1979 under operating conditions very different from those at present.

BEAM HOURS	APPROXIMATE PROBABILITY
13 out of 16	.70
14 out of 16	.45
15 out of 16	.30
14 out of 17	.70
15 out of 17	.45
16 out of 17	.30
17 out of 17	.00
14 out of 18	.75
15 out of 18	.50
16 out of 18	.30
17 out of 18	.20
18 out of 18	.00

Enclosed also is Rosen's 1976 schedule for LAMPF current upgrading. Until now we have been on (or ahead of) schedule. Rosen tells me that present budgeting restrictions will preclude our meeting the schedule in FY 80.

Let me know if further information would be useful. I am available for discussion at any time.

Enc. a/s



Schedule for LAMPF Current Upgrading (Fiscal Year)