

MINUTES OF PROJECT M MEETING NO. 26

Date: November 7, 1958.
Place: Room 27, Microwave Laboratory.
Present: Mozley, Loew, Gallagher, Richter, Pine, De Staebler, Dedrick, Jones, Soderstrom, Goerz, Turner, Neal, Olson, Ginzton, Debs, Wadensweiler, Lebacqz, Jasberg, Mallory, Pindar, Kirk.
Next Meeting: November 14, 1958 at 4:10 p.m. (note new time) in Room 27, Microwave Laboratory.

I. Report of Project Status

Mr. Ginzton began the meeting by reporting on several recent discussions held by the committees in Washington who are considering our proposal. The result of a meeting of the PSAC-GAC sub-committee on accelerators on November 3 was that this group voted to support the Stage I phase of our original proposal. It is probable that the next step will be for the proposal to be considered by some inter-agency board sometime during the latter part of this month.

II. Appointment of Committees

The main order of business of this meeting was to establish committees within the Project M group as a whole for the purpose of considering certain detailed problems which will need attention. It will be the responsibility of the committee chairmen (and any others who may have already been appointed to the committee) to enlist the services of those who will be needed to complete each committee. The following committees have now been established.

- Klystrons - Lebacqz (chairman), Ginzton, Senkin, Soderstrom, Jasberg
- End Station - Mozley, Panofsky, Richter
- Shielding - Dedrick (chairman)
- Beam Dynamics - Panofsky, Chu, Neal
- Drive System and Phasing - Neal (chairman), Gallagher
- Specifications - Panofsky (chairman, if willing), Brown, Neal, Ginzton
- Modulators - Turner (chairman)
- Power - Jones (chairman)
- Instrumentation - Olson (chairman)
- Appropriate Name - everybody

III. Discussion of Various Drive-system Schemes

Mr. Neal outlined for the group two of the possible schemes which might be used in driving the accelerator. The first of these is one which makes use of a single drive line running the length of the machine, and is fed either from one end or from the center. The second scheme considered is one which uses a multiply branching waveguide network in which the feed lines to each klystron are all of the same length. Mr. Neal noted the known advantages and disadvantages of each of these schemes, and there followed a lively discussion of these. Mr. Mozley remarked that the second scheme would seem to require something like 900 miles of waveguide, but it turned out that this rapid estimate was somewhat large. The drive-system question will receive further study, no doubt.

IV. General Notes

A list has been prepared of the committee members and others who are to receive copies of the minutes of these meetings, and also of those who are to receive technical memoranda relating to the project which are generated by any of the various sub-committees or by individuals. Copies of these lists will be on file with Mrs. Mundie, Miss Becker and Miss Graffam. It would be useful to try to provide Mrs. Mundie with a copy of all paper arising from our deliberations, since she will be used as a clearing house for much of this stuff.

Adjourned: 5:30 p.m.