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Electronic Computer Division
Servomechanisms Laboratory
Massachusetts Institute of Technology
Cambridge, Massachusetts

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1.0 GENERAL

(C. R. Wieser)

The Magnecord recorder for pulsed-radar data has been ordered. The equipment includes the basic recording unit, a record-playback amplifier, and an auxiliary spooling mechanism for 2400-foot reels of tape. This will allow recordings of one-half hour at 15 in/sec or one hour at $7\frac{1}{2}$ in/sec. tape speed.

The use of WWI for processing radar data will require an improved cathode-ray tube display. The tube should be at least 12 inches, and long persistence is required for the storage of targets, which are illuminated at 15-second intervals.

Cambridge Research Lab. advised us not to attempt at dark-trace type of display. It is their opinion that dark-trace tubes have not had sufficient development and that such tubes would require an excessive expenditure of time and money. Very few dark-trace tubes are available, and the problem of erasing data is difficult.

At present inquiries are being made to locate a source of 12-inch tubes with electrostatic deflection. So far, the results indicate that these tubes are not in production.

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