1st Memo Ind.

Washington, D.C., December 17, 1936 – To: O.L.G., Research and Development Division, OCSigO.

1. Upon the occasion of the recent visit by the undersigned to the Signal Corps Laboratories, this matter was discussed with laboratories personnel, with the result that the proposed system appears more feasible than was formerly thought by them. It was also brought out that it is possible that the system might have distinct military applications, especially in view of the increase in use of radiotelephony.

2. For the foregoing reason, it is requested that this case be resubmitted to the Signal Corps Patents Board for reconsideration of previous action.

Harrod G. Miller,
Captain, Signal Corps.

Attached (no change)

William F. Friedman.

Approved for Release by NSA on 09-11-2013 pursuant to E.O. 13526
I have discussed this matter with a qualified engineer who gave an opinion that magnetization can be added algebraically on a steel tape. Contingent upon the correctness of this, I believe the system is theoretically sound and practically possible.

Recommend that patent application be filed.

H.G. Miller

6-20-36
1. R&D WP&T For your information and comments. L.H.J. 6-6-36

2. WP&T Mr. Friedman & Capt. Miller For comment
   in turn H.L.P.K. 6-11-36

3. Mr. Friedman

   1. I do not feel qualified to go further into operating
      Capt. details, and am not in a position to offer experimental data
      Miller other than those in the literature and in certain reports of
      the Signal Corps Laboratories.

     2. By the time the patent can be prepared and issued, advances
        in the art may obviate the difficulties referred to.
        In this connection, I understand that great advances have
        been made in the art in the past several years, especially
        by the Western Electric and Bell Telephone Laboratories.

     3. Therefore, despite questions regarding practicability
        of the proposed system and admitted difficulties inherent
        therein, it is recommended that patent application be filed W.F.P.
        as soon as practicable.