

COVER SHEET FOR TECHNICAL MEMORANDA

SUBJECT: Mobile Telephony - Wide Area Coverage - Case 20564

COPIES TO:

- 1 - R. Bown - Dept. 1200 Files
 2 - Case Files ← *THROUGH FOR*
 3 - H.T. Friis-Holmdel File
 4 - Patent Dept.
 5 - B.W. Kendall
 6 - H.A. Affel
 7 - G.W. Gilman
 8 - R.K. Potter
 9 - J.R. Wilson
 10 - J.W. McRae
 11 - E.L. Nelson
 12 - C.B. Feldman
 13 - A.C. Dickieson
 14 - D. Mitchell
 15 - F.B. Llewellyn
 16 - G.C. Southworth
 17 - J.C. Schelleng
 18 - W.R. Young
 19 - K. Bullington
 20 - D.H. Ring

MM- 47-160-37
 DATE 11 December 1947
 AUTHOR D. H. Ring

H.J. Jones

XXXXXXXXX
 ABSTRACT

ABSTRACT

In this memorandum it is postulated that an adequate mobile radio system should provide service to any equipped vehicle at any point in the whole country. Some of the features resulting from this conception of the problem are discussed with reference to a rather obvious plan for providing such service. The plan which is outlined briefly is not proposed as the best solution resulting from an exhaustive study, but rather is presented as a point of departure for discussion and comparison of alternative suggestions which may be made.

The discussion in this memorandum is limited to some problems connected with the efficient utilization of a given frequency allocation for wide area coverage. Only a portion of the total allocation is available at any one point in the plan discussed. It is hoped that a future memorandum can be prepared dealing with the most efficient utilization of the frequency band assigned to a particular small area, i.e., methods of modulation, multiplexing, etc.