

"(b) The antenna systems maximum theoretical radiated field which exists between the limits defined by curves 4 and 5 for the pertinent angle of departure Θ (theta) will be used to compute, from Figure 1-A, the interfering signal.

"3. 50% Root-Sum-Square.

"(a) Objectionable interference shall be deemed to exist to a station when the root-sum-square value of interfering field intensities, except in the case of Class IV stations on local channels, is increased to exceed that value obtained by considering the signals in order of decreasing magnitude, adding the squares of the values and extracting the square root of the sum, excluding those signals which are less than 50% of the root-sum-square value of the higher signals already included.

"(b) The root-sum-square value will not be considered to be increased when a new interfering signal is added which is less than 50% of the root-sum-square value of the interference from existing stations, and which at the same time is not greater than the smallest signal included in the root-sum-square value of interference from existing stations.

"(c) It is recognized that application of the above '50% exclusion' method of calculating root-sum-square interference may result in some cases in anomalies wherein the addition of a new interfering signal or the increase in value of an existing interfering signal will cause the exclusion of a previously included signal and may cause a decrease in the calculated root-sum-square value of interference. In such instances, the following alternate method for calculating the proposed root-sum-square values of interference will be employed wherever applicable.

"(d) In the cases where it is proposed to add a new interfering signal which is less than 50% of the root-sum-square value of interference from existing stations or which is greater than the smallest signal already included to obtain this root-sum-square value, the root-sum-square limitation after addition of the new signal shall be calculated without excluding any signal previously included. Similarly, in cases where it is proposed to increase the value of one of the existing interfering signals which has been included in the root-sum-square value, the root-sum-square limitation after the increase shall be calculated without excluding interference from any source previously included.

"(e) If the new or increased signal proposed in such cases is ultimately accepted, the root-sum-square values of interference to other stations affected will thereafter be calculated by the '50% exclusion' method without regard to the alternate method of calculation.

"(f) The 50% root-sum-square rule is recognized as applicable between any and all Class III stations on regional channels and between only Class II stations on clear channels."

I suggest that, if an agreement in the sense of the foregoing paragraphs is acceptable to the Government of Canada, this note and your reply thereto in similar terms be regarded as constituting the terms of an understanding on the subject between the two Governments.

Accept, Excellency, the renewed assurances of my highest consideration.

For the Acting Secretary of State:

GARRISON NORTON