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24 March 1965

Dear

Pursuant to our recent conversations, the following represent my understanding of the general format for the demonstration:

- a. Four platforms will be available complete for the demonstrations. We will use the receiving equipment at the two sources for 110 volts with the platforms in the field. [of some description for this purpose will be necessary.]
- b. S/N improvement demonstration involving taped inputs and outputs will be ready. Due to the shortness of time, it may be that this demonstration should be put on tape and simply played to the spectators at the demonstration site (see attached general structuring).
- c. The volume increase/attention to a particular sound demonstration could possibly also be taped for play back as in b. above.
- d. A general discussion concerning the theory vis-a-vis the cover.
- e. A general discussion regarding anticipated [tentative and can be deleted if you desire].
- f. The [system can be demonstrated if it is available. I would anticipate that this would require an evening session in the laboratory.]

As we previously agreed, it is my understanding that you will carry out all necessary procedures for the four platforms above except installation [which will be postponed until 2 - 3 weeks prior to the

demonstration. Per attachment, the additional studies to be initiated here will hopefully produce an advance in the state-of-the-art in time for incorporation into your demonstration platforms. If not, then the old style will be used. I will be in further communication with you as data accumulate.

I am looking forward expectantly to successful demonstrations and am sure that once done, we can then address ourselves to follow-on tasks of great interest.

Very truly yours,

SECRET

General Protocol for S/N Improvement
Measuring System

1. A taped calibrated input for both S and N at equivalent sound pressure levels. A taped calibrated output (corrected for 10 - 12 db pinna and meatus gain). It may be possible to also have scope photographed displays of the same data. It is important, I believe, to also have a standard mike listen to the same taped calibrated input with the same output display for comparison purposes.
2. The above should give a direct measure of S/N improvement for both the platform performance and conventional mike performance.
3. This same technique, it seems to me, could be put to valuable use for quantitative calibrations