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Dr. Thomas L. Shipman

July 10, 1953

As soon as Dick Johnston's report is available I will send you a copy. The performance of the system under field conditions was excellent despite the quarter-watt power. We interference was encountered even with transmission over 70 miles. The system was also used with radiotelephone with beautiful results. In principle, the system will accept any measurement where the transducer can convert the phenomena observed to a voltage signal of the proper pagnitude. This signal is simply admitted to the input of the system and after proper calibration the values may be elemined in permanent record form at the receiving station.

For use at Enimetok it would be necessary to put the data station in a small bunker, or, if desired, within one of the large bunkers with the detector presenting to the exterior under an aluminum dome. The signal could then be conducted by wire underground a sufficient distance for the repeater station entenna to withstand any damage. From this point the transmission would be line-of-sight by radio. The data stations as well as the repeater are self-powered as are self-contained units.

I will keep you informed of any new developments in this field.

Sincerely yours,

John C. Bugher, H.D. Director, Division of Biology & Medicins

cc: Dr. A. C.Graves, LASL

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