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Paul P. Foster, ~~Director~~
General Manager

July 7, 1958

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FALLOUT ECOLOGY AT ENiwETOK

SYMBOL: BMES:AMS

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In response to the memorandum of June 20 from Dr. Libby to you about the same subject as this memorandum, the data on the calcium content of the samples reported in UWFL-50 will be obtained and forwarded to Dr. Libby at the earliest time possible. This information will permit the calculation of "strontium units" formerly called "sunshine units".

The calcium data was not included in UWFL-50 as the purpose of the report was to record the observed changes in radioactivity with time in one area with one species of organism. Also, since the levels of calcium in crab tissues are reasonably constant, the importance of including the calcium data for these specific samples did not seem great at the time of writing the report although it is now recognized that these data will provide additional information.

I have been informed that Dr. Libby's request that calcium data should accompany all strontium data was received after UWFL-50 had been completed but before the report was published. Since Dr. Libby's request, the University of Washington Laboratory has reported their data in terms of strontium units. Reference is made to Tables 26 and 27 in "Radioactive Contamination of Certain Areas in the Pacific Ocean from Nuclear Tests" (edited by Dr. Dunning); the table submitted on February 11, 1958, "Comparison of Sr-90 Levels in Land Crabs Collected at Rongelap Atoll in July, 1956 and July, 1957"; the table submitted in May, 1958, "Strontium-90 in Bone Samples From Rats Collected at Rongelap Island, March, 1958"; the letter of June 5, 1958 which reports the strontium units of pig bone; and the letter of June 13, 1958 which includes a table on the "Sr-90 in the Skeletons of Land Crabs Collected at Rongelap Atoll". As these data have not been published, other than the two tables in the Dunning report, copies of the tables are attached.

Attachment:
As stated above

cc: Dr. W. F. Libby
Mr. A. Tomare

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SURNAME ▶		AS Seymour:pas	<i>[Signature]</i>	<i>[Signature]</i>		
DATE ▶		7/7/58	<i>[Signature]</i>	7/8/58		