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K. E. Fields, General Manager

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TRANSMITTAL OF REPORTS ON MARSHALL ISLANDS RADIOLOGICAL SURVEY

SYMBOL: BMBP:WDC

Pursuant to the request of Dr. W. F. Libby for data on the radiological surveys of the Marshall Islands, I am sending herewith a copy of the NRDL report and a copy of the University of Washington report.

The draft letter to D. H. Nucker, recommending deferment of repatriation at this time, was based on a thorough study of these two reports by Dr. G. M. Dunning. A sizeable quantity of Dr. Dunning's notes are available in his files, but because of his rush to evaluate the data for the recommendation before he left on a 10-day trip, these notes have not been compiled into a formal summary which I can submit for your consideration.

Briefly, however, they indicate the following:

	<u>Donaldson</u>	<u>NRDL</u>
Edible plants	a) 1.6 x mpc	Gross activity half of Donaldson's
Fish muscle	b) 3.4 x mpc	c) 0.24 x mpc
Fish liver	d) 135 x mpc	c) 10 x mpc
Crab and clam muscle	d) 34 x mpc	c) 2.4 x mpc
Bird muscle	2 x mpc	—
Rooster	—	7 x mpc

BY AUTHORITY OF DEC
BY *[Signature]* DATE 10/5/55

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mpc is maximum permissible concentration, based primarily on Sr content.

- a) Donaldson: 2.2% Sr-90 measured June-July 1955
- b) Donaldson: 5.7% Sr-89 plus Sr-90, estimated 2.8% Sr-90.
- c) NRDL: about 0.3% Sr-90 reported.
- d) Donaldson: Assumed 2.8% Sr-90 - no analyses

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DATE ▶	10/5/55	10/5/55		

