



Energy Measurements Group • Las Vegas Operations

680 E. SUNSET ROAD, LAS VEGAS, NV • TEL. (702) 739-0461 • MAIL BOX 1912, LAS VEGAS, NV 89101

21 February 1979

RSSD-79-051

410701

Dr. W. L. Robison (L-453)
Lawrence Livermore Laboratory
Environmental Division
Livermore, CA 94550

Dear Bill:

Enclosed are the preliminary external exposure rate results for Bikini and Rongelap Atolls. The results for Rongelap are summarized in the same manner as those I gave you several weeks ago for the other atolls surveyed. For Bikini we have enclosed a complete set of data along with a complete set of island photographs.

Also enclosed are some additional atoll mosaics which you might find useful. We only had one spare mosaic for Rongelap and Utirik Atolls. We would be glad to print some more copies of these two atoll mosaics if you find yourself short.

A conversion scale is attached which should be used for all the data you presently have as well as the Bikini and Rongelap data.

Please let us know if you have any questions about the data.

Sincerely,

A handwritten signature in cursive script, appearing to read 'W. J. Tipton'.

W. J. Tipton
Scientific Specialist

WJT:s1

Encls.

CONVERSION SCALE

<u>Letter Label</u>	<u>Gamma Exposure Rate*</u> <u>(μR/h at 1 meter)</u>
A	< 0.07
B	0.07 - 0.14
C	0.14 - 0.30
D	0.30 - 0.65
E	0.65 - 1.4
F	1.4 - 3.0
G	3.0 - 6.5
H	6.5 - 10
I	10 - 20
J	20 - 30
K	30 - 50
L	50 - 70
M	70 - 100

*Extrapolated from aerial data obtained at an altitude of 38 meters (125 feet). An additional 3.3 μ R/h due to cosmic ray contributions must be added to obtain the total external exposure rate.