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Safety & Environmental Protection Division

March 19, 1980

Mr. T. F. McCraw
OHER
U.S. Department of Energy
Washington, D.C. 20545

Dear Tom:

The attached report presents the initial results of our personnel monitoring field trip to Enewetak and Ujelang.

Please call me at FTS 666-4250, or Bob Miltenberger at FTS 666-2503 if you have any questions.

With best regards,

N. A. Greenhouse
Project Director,
BNL Marshall Islands Radiological
Safety Program

NAG:lm

cc: A. Hull
H. Pratt
W. Robison
B. Wachholz

body counter with minimal loss of system sensitivity relative to the bed geometry. Smaller subjects have more of their body within the solid angle while larger subjects have somewhat less. Figures 1 and 2 illustrate the counting geometry used and physical arrangement of one side of the whole body counting trailer.

The chair body counters were calibrated for three geometries 1) an adult standard man, 2) an average Marshallese adolescent and 3) an average

~~Marshallese juveniles.~~ The population selected to determine the height and weight of Marshallese adolescents and juveniles was the former Bikini Atoll population. Gamma spectra obtained at Enewetak Atoll and Ujelang Atoll were analyzed using the calibration standards which best matched the sex, height and weight of the individual subject.

Table 1 summarizes the physiological and radiological data obtained from the February field trip. Statistical analysis performed on the mean Cs-137

SAVING OF OTHER ISLANDS IN THE MARSHALLS HAS NOT BEEN MADE AT THIS TIME.

N. A. Greenhouse
R. S. Miltenberger

REPOSITORY PNNL
COLLECTION Marshall Islands
BOX No. 5686
FOLDER Eniwetok Jan-Mar 1980

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Reviewed by R. Schuetter Date 5/1/97