



REPOSITORY PNNL

COLLECTION Marshall Islands

BOX No. 5685

FOLDER East End Outing

Enewetak May 1978

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by P. J. Schmitt Date 4/29/97

Estimates of Annual radiation dose to the population (mrem)

Isotope Type	Clean up level - quarter acre average soil conc. pCi/g	Range	Bores expected	Range	Feet soil depth
Plutonium	40	— to —	7	— to —	1'
Strontium	80	— to —	4	— to —	1'
Cesium	160	— to —	2	— to —	0.5'
Total			13		3

The Advisory Group emphasizes that there are numerous uncertainties in every dose estimate that can be

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PRIORITY

APR 25 1 50 PM '78

PTTUZYUW RUHHDNA0557 1152115-UUUU--RHEGNVC.

ZNR UUUU

P 252115Z APR 78

FM DOE/ERSP ENEWETAK ATOLL MI

TO DOE LAS VEGAS NEVADA

BT

UNCLAS NONWD

PERSONAL FOR JOHN STEWART/BRUCE CHURCH SENDS

SUBJECT: CORRELATION OF SOIL/IMP DATA

REF: TELECON B. CHURCH - J. STEWART 242400 APR 78

1. SUBSEQUENT TO REFERENCED TELECON, PRELIMINARY DATA FROM THE SOIL SAMPLE LABORATORY HAVE BEEN RECEIVED WHICH SHEDS NEW LIGHT ON SOIL/IMP COMPARISONS. WE SUGGEST IT WOULD BE PREMATURE TO DERIVE ANY CONCLUSIONS BASED SOLELY ON EARLIER DATA AND RECOMMEND THAT ANY IN-DEPTH DISCUSSIONS CONCERNING DATA DISCREPANCIES BE DELAYED UNTIL THE NEW DATA CAN BE TRANSMITTED/DELIVERED TO NVO.

2. THE NEW-IMP DATA FROM ALICE INDICATES A RATIO OF NEW/OLD OF 1.72 AVERAGED OVER SIX LOCATIONS THAT WERE REPEATED FROM THE ORIGINAL SURVEYED. THE RATIO FROM FOUR OF THESE LOCATIONS IS 1.8 OR GREATER. FROM FOUR SOIL LOCATIONS THE AVERAGE RATIO INCLUDING A AND B COMPOSITES IS 1.5, HOWEVER SOME A AND B COMPOSITES VARY WIDELY (IN ONE CASE GREATER AN 2). THE SOIL/IMP RATIO IS 1.3 BASED ON TWO LCC-

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ATIONS WITH THE BEST AGREEMENT BETWEEN
COMPOSITE SAMPLES. C AND D COMPOSITES ARE NOW BEING ANALYZED TO
PROVIDE FURTHER DATA. EXPERT CHEMISTRY RESULTS ON A AND B THURSDAY
4/27 AND FROM C AND D ON 5/1.

3. DIFFERENCES IN THE GAMMA SCAN DATA BETWEEN UNBALLMILLED AND BALL-
MILLED ALIQUOTS FROM THE SAME SAMPLE ARE BEING INVESTIGATED. THIS
MAY LEAD TO A BETTER UNDERSTANDING OF GAMMA SCAN RESULTS WHEN COM-
PARED TO FIELD DATA.

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