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By Elisabeth Daly 7/19/77
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FROM: HEALTH DIV LOS ALAMOS SCIENTIFIC LAB LOS ALAMOS NMEX
TO: CTG SEVEN PNT ONE ENIWETOK MI/ADSIGN SERIES CHARLIE/
INFO/ DR CHARLES DUNHAM DIV OF BIOLOGY AND MEDICINE USAEC WASH DC
/ASSIGN SERIES DOG/

Handwritten notes:
109 2021
p. 59

CITE: DTG 022130Z APR
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FOR THOMAS L SHIPMAN HEADQUARTERS COPIES FOR AL GRAVES AND E P CONKITE FROM WRIGHT LANGHAM PD VERY PRELIMINARY RESULTS OF URINE ASSAYS INDICATE THE FOLLOWING ORDERS OF MAGNITUDE OF INTERNAL CONTAMINATION OF RONGELAAP NATIVES PD IODINE CONSTITUTES A MAJOR ACTIVITY IN THE URINE AND ASSUMING NORMAL EXCRETION SIGNIFIES ABLE TOTAL BODY BURDEN AT TIME OF FALLOUT OF ABOUT ONE POINT ZERO MILLICURIES PD PLUTONIUM CONTAMINATION IS PRESENT AND URINE ASSAY SIGNIFIES ABLE TOTAL BODY LOAD OF ABOUT POINT ZERO FOUR MICROGRAMS OR ABOUT ONE SLANT ONE ZERO OF TOLERANCE PD BASED ON ONE ZERO ZERO PERCENT ABSORPTION OF IODINE AND ONE PERCENT ABSORPTION OF PLUTONIUM AND THEIR KNOWN EXCRETION RATES THE TOTAL BODY BURDEN OF TOTAL FISSION PRODUCTS AT TIME OF FALLOUT IS ESTIMATED AT ABOUT FIVE MILLICURIES ASSUMING THEY ARE UNIFORMLY ABSORBED TO THE EXTENT OF ONE PERCENT PD FROM THE PRESENT PRELIMINARY RESULTS WE BELIEVE THE INTERNAL RADIATION DOSE TO BE SMALL AND PROBABLY UNIMPORTANT COMPARED TO THE EXTERNAL DOSE ALREADY RECEIVED PD PARA TOTAL URINE GAMMA ACTIVITY MEASUREMENTS INDICATE THAT RATIO OF INTERNAL EXPOSURE OF RONGELAAP NATIVES TO AIR WEATHER PERSONNEL IS ABOUT ONE ZERO TO ONE PD PARA PLEASE REQUEST SHARP AND CHAPMAN ON KWAJALEIN TO COLLECT ADDITIONAL URINE SAMPLES FROM RONGELAAP NATIVES PD CONTAINERS FOR POOLING SAMPLES ARE IN TRANSIT PD JIM PERRINGS IS NOW ON ENIWETOK AND WILL CONTACT THEM REGARDING THESE SAMPLES PD REQUEST BIOPSIES OF LESIONS BE SENT TO LUSBAUGH AT LASL PD REF THIS MSG HOW HYPHEN ONE ONE ONE PD END OF MESSAGE

REPOSITORY LOS ALAMOS NAT LAB
COLLECTION CL-14
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