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RG 326 US ATOMIC ENERGY COMMISSION

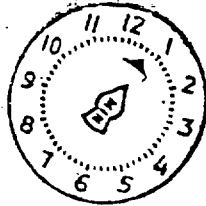
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Reviewed by Carl Wilson 8/16/83  
J. Diaz 10/16/85

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PAREN PAGE ONE OF TWO PAGES PAREN FOR ALVIN GRAVES CMM PASS TO E PD  
P PD CRONKITE FM THOMAS L SHIPMAN PD PRESENT STATUS OF RESULTS OF URINE  
ANALYSIS OF RONGELAAP NATIVES AND AIR WEATHER SERVICE PERSONNEL ARE  
AS FOLLOWS CLN INITIAL TOTAL BODY DOSE OF IODINE ONE THREE ONE APPEARS  
TO BE ABOUT FIVE ZERO MICROCURIES ACCOMPANIED BY SHORTER LIVED IODINE  
ISOTOPES ENERGETICALLY EQUIVALENT TO ABOUT FIVE MILLICURIES OF IODINE  
ONE THREE ONE AT THE TIME OF UPTAKE PD THE ESTIMATED TOTAL INTEGRATED  
DOSE TO THE THYROID CMM ASSUMING TWO ZERO PER CENT UPTAKE OVER ABL  
PERIOD OF TWO FOUR HOURS ANXD APPROPRIATE REDUCTION IN DOSE OF VERY  
SHORT LIVED IODINE ISOTOPES IS ABOUT ONE THREE ZERO REP OF WHICH  
FIVE ZERO PER IS FROM IODINE ONE THREE ONE. THE ESTIMATED BODY

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BURDENS OF OTHER NUCLEIDES ARE AS FOLLOWS CLN PL IUM LESS THAN  
ONE TENTH OF THE ACCEPTED MAXIMUM PERMISSIBLE AMOUNT PAREN PERHAPS,  
ABOUT ZERO POINT ZERO TWO MICROGRAMS PAREN PD STRONTIUM EIGHT NINE  
ABOUT ONE MICROCURIE PD BARIUM ONE FOUR ZERO ABOUT TWO MICROCURIES PD  
RUTHENIUM ONE ZERO THREE ABOUT ZERO POINT ZERO FIVE MICROCURIES PDI  
PARA THE ESTIMATED NUMBER OF FISSIONS INHALED AND SLANT OR ICGESTED  
ARE PAREN END OF PAGE ONE PAREN

PAGE TWO

AS FOLLOWS CLN BASED ON IODINE ONE THREE ONE THE VALUE IS FIVE TIMES  
TEN TO THE THIRTEENTH FISSIONS PD BASED ON STRONTIUM EIGHT NINE THE  
VALUE IS ONE TIMES TEN TO THE THIRTEENTH FISSIONS PD BASED ON BARIUM  
ONE FOUR ZERO THE VALUE IS ONE TIMES TEN TO TMS THIRTEENTH FISSIONS PD  
PARA IN ORDER TO GET BODY BURDENS FROM THE ABOVE VALUES IT IS NECESSARY  
TM APPLY APPROPRIATE RETENTION FACTORS PD PARA THE AIR WEATHER SERVICE  
PERSONNEL SEEMED TO SHOW VALUES WHICH ARE CONSISTENTLY ONE TENTH OF  
THOSE GIVEN FOR THE RONGELAAP NATIVES FOR ALL ACTIVITIES MENTIONED  
ABOVE PD REF HOW HYPHEN ONE ONE TWO PD END OF MESSAGE

13/2140Z APR 54

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