

SPECIFIC GUIDANCE FOR ^{239, 240}PU

< 40 pCi/g NO ACTION

40 - 400 pCi/g ACTION CONSIDERED ON A CASE-BY-CASE BASIS

> 400 pCi/g CORRECTIVE ACTION REQUIRED.

FOR ISLAND SOILS WITH 40-400 pCi/g:

1. DIVIDE ISLANDS INTO TWO CATEGORIES
 - a. TOO SMALL FOR PERMANENT HOUSING
 - b. LARGE ENOUGH FOR PERMANENT HOUSES.
2. REMOVAL OF CONTAMINATED SOIL BETTER JUSTIFIED FOR ISLANDS THAT MAY SOMEDAY HAVE PERMANENT HOUSING.
3. FUTURE OF SMALL ISLANDS UNCERTAIN. THESE ARE OF LESS CONCERN.
4. AMOUNT OF EFFORT PROPERLY GIVEN INCREASES AS SOIL CONCENTRATIONS INCREASE.
5. WHEN ACTION IS TAKEN, OBJECTIVE IS TO ACHIEVE SUBSTANTIAL REDUCTION IN SOIL CONCENTRATION OF PU AND TO REDUCE TO LOWEST PRACTICABLE LEVEL.

BEST COPY AVAILABLE

~~SEVERAL QUESTIONS ON THE BOOK~~

*"A PROPOSED INTERIM STANDARD FOR PLUTONIUM IN SOILS,"
BY J. W. HEALY

**THE VALUE 400 pCi/g WAS RECOMMENDED FOR ALL
PARTICLE SIZES PROVIDED NO MORE THAN 200 pCi/g in
< 100 MM SIZE FRACTION.

COMPARISON OF STANDARDS AND PREDICTIONS

	<u>FEDERAL STANDARDS</u>	<u>AEC GUIDES</u>	<u>PREDICTED DOSE</u>
WHOLE BODY*	0.50	0.25	0.13
BONE MARROW	0.50	0.25	0.15
GENETIC**	5	4	2.2

*REM/YR

** REM/30 YRS

AIR MONITORING RESULTS

YVONNE SOIL SAMPLING

<u>LOCATION</u>	<u>239, 240 PU CONCENTRATION</u>
LAPEL MONITOR	1.6 pCi/m ³
10' DOWNWIND SAMPLING TRENCH	9.5 X 10 ⁻² pCi/m ³
BACKGROUND	7.4 X 10 ⁻³ pCi/m ³

MPC

RADIATION WORKER	2 pCi/m ³
INDIVIDUAL (GENERAL PUBLIC)	6 X 10 ⁻² pCi/m ³

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DEVELOPMENT OF SOIL CONCENTRATIONS
ASSOCIATED WITH MPC FOR ^{239, 240}PU IN AIR

LLL

RESUSPENSION-FACTOR APPROACH	1,000 pCi/g
MASS - LOADING APPROACH	600 pCi/g

LA-5483 - MS*

INTERIM STANDARD - CONSIDERING SEVERAL MECHANISMS OF EXPOSURE	400 pCi/g**
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WHOLE BODY [?]	0.50	0.25	0.13
BONE MARROW	0.50	0.25	0.15
GENETIC ^{**}	5	4	2.2

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AIR MONITORING RESULTS

YVONNE SOIL SAMPLING

<u>LOCATION</u>	<u>239, 240 FU CONCENTRATION</u>
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LAPEL MONITOR

1.6 pCi/m³

10' DOWNWIND
SAMPLING TRENCH

9.5 X 10⁻² pCi/m³

BACKGROUND

7.4 X 10⁻³ pCi/m³

MPC

RADIATION WORKER

2 pCi/m³

INDIVIDUAL (GENERAL PUBLIC)

6 X 10⁻² pCi/m³

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DEVELOPMENT OF SOIL CONCENTRATIONS
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INTERIM STANDARD - CONSIDERING SEVERAL MECHANISMS OF EXPOSURE	400 pCi/g**
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REMEMBER, REM/30 YRS

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1.6 pCi/m³

10' DOWNWIND
SAMPLING TRENCH

9.5 X 10⁻² pCi/m³

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7.4 X 10⁻³ pCi/m³

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DEVELOPMENT OF SOIL CONCENTRATIONS
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LLL

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INTERIM STANDARD - CONSIDERING SEVERAL MECHANISMS OF EXPOSURE	400 pCi/g**
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AIR MONITORING RESULTS

YVONNE SOIL SAMPLING

<u>LOCATION</u>	<u>239, 240 PU CONCENTRATION</u>
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LABEL MONITOR

1.6 pCi/m³

10' DOWNWIND
SAMPLING TRENCH

9.5×10^{-2} pCi/m³

BACKGROUND

7.4×10^{-3} pCi/m³

MPC

RADIATION WORKER

2 pCi/m³

INDIVIDUAL (GENERAL PUBLIC)

6×10^{-2} pCi/m³

b. LARGE ENOUGH ISLANDS

2. REMOVAL OF CONTAMINATED SOIL BETTER JUSTIFIED FOR ISLANDS THAT MAY SOMEDAY HAVE PERMANENT HOUSING.
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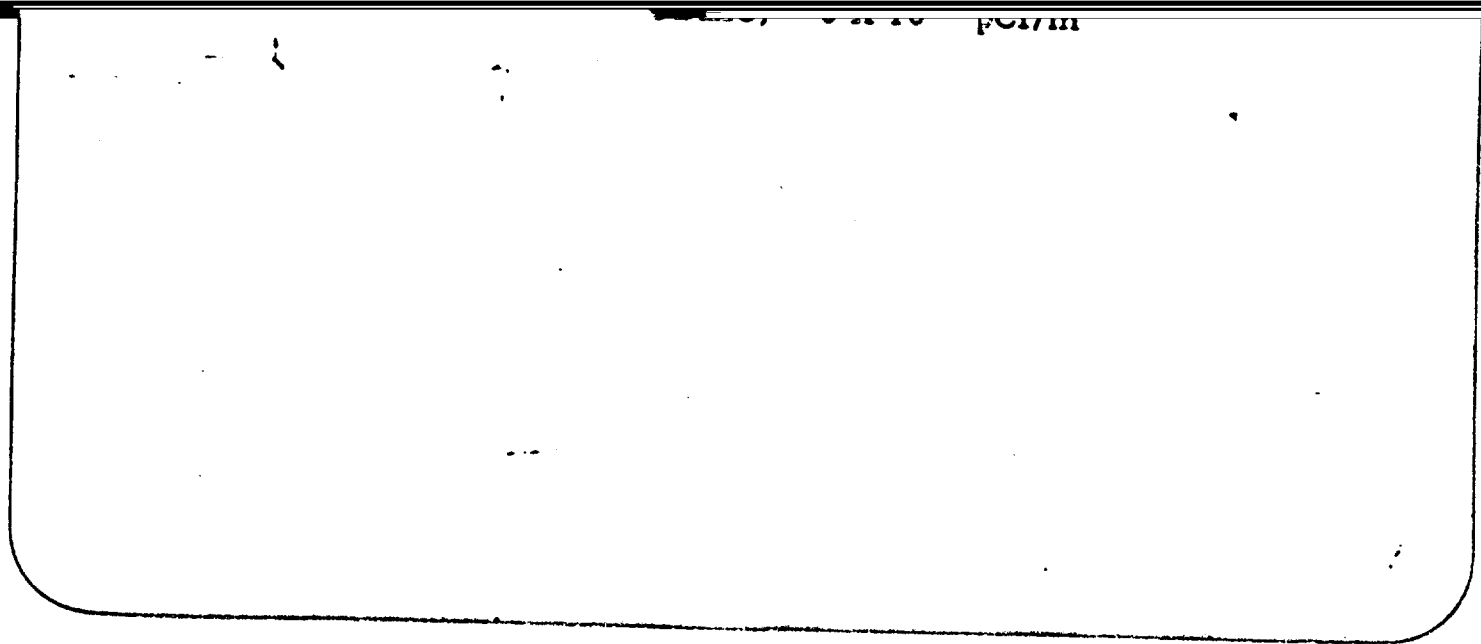
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SEVERAL MECHANISMS OF EXPOSURE

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*REM/YR
** REM/30 YRS

RADIATION WORKER

2 pCi/m³

INDIVIDUAL (GENERAL PUBLIC)

6 x 10⁻² pCi/m³

2. ~~REMOVAL OF CONTAMINATION~~
ISLANDS THAT MAY SOMEDAY HAVE PERMANENT HOUSING.
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UREM/YR
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AIR MONITORING RESULTS

YVONNE SOIL SAMPLING

LOCATION

239, 240²³⁸ PU CONCENTRATION

LAPEL MONITOR

1.6 pCi/m³

10' DOWNWIND
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9.5 X 10⁻² pCi/m³

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... .. per/m

ISLANDS THAT MAY SOMEDAY BE RE-EVALUATED

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REPOSITORY PNNL
COLLECTION Marshall Islands
BOX No. 5686
FOLDER Miscellaneous Information

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by R. Schmitt Date 5/1/97