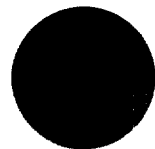




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PACIFIC NORTHWEST LABORATORIES
RICHLAND, WA 99352



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DATE: May 8, 1981

TO: Dr. Bruce W. Wachholz
Department of Energy
Policy Analyst/Environmental
Office of Environment, Safety
and Emergency Preparedness, EV-30
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HEALTH EFFECTS ESTIMATES USING LLL REVISED DOSE DATA

Living Condition	Imported Food	Coconuts from Northern Islands	Maximum Individual Dose (mrem)	Average Whole Body Dose (mrem)	Birth Defects** (% Increase)	Average Bone Marrow Dose (mrem)	Cancer*** (% Increase)
Enewetak, Japtan & Tedran	Yes	No	15.3	100	0.02	120	0.048
	Yes	Yes	48.0	320	0.064	340	0.136
	No	No	33.0	200	0.04	260	0.104
	No	Yes	87.0	560	0.112	630	0.252
Bijire or Aomon	Yes	No	162.0	1100	0.22	1200	0.48
	Yes	Yes	174.0	1200	0.24	1200	0.48
	No	No	303.0	1900	0.38	2100	0.84
	No	Yes	327.0	2100	0.42	2300	0.92
Enjebi	Yes	No	873.0	5700	1.14	6100	2.44
	Yes	Yes	792.0	5200	1.04	5600	2.24
	No	No	1662.0	10,000	2.0	11,000	4.4
	No	Yes	1515.0	9200	1.84	10,000	4.0
	Yes	No*	258.0	1900	0.38	2600	1.04
	No	No*	450.0	2200	0.44	3700	1.48

* No coconuts from Enjebi either.

** Based on BEIR I value of 0.2% increase per rem for birth defects (1% at equilibrium).

*** Based on BEIR I value of 0.4% increase per rem for cancer.

Health Effects Estimates using LLL revised Dose data

May 5, 1981

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Island	Imported ⁸ food	Coconuts from Rattan ³ island	Max. individual ¹⁰ dose (mrem)	Average whole body ¹⁰ dose (mrem)	Birth Defect ^{**} (% increase) ¹²	Average bone marrow ¹¹ dose (mrem)	Cancer ^{***} (% Increase)
Eniwetok, Japen & Median	yes	no	15.3	100	0.02	120	0.048
	yes	yes	48	320	0.064	340	0.136
	no	no	33	200	0.04	260	0.104
	no	yes	87	560	0.112	630	0.252
Bijire & Uomin	yes	no	162	1100	0.22	1200	0.48
	yes	yes	174	1200	0.24	1200	0.48
	no	no	303	1900	0.38	2100	0.84
	no	yes	327	2100	0.42	2300	0.92
Enjeki	yes	no	873	5700	1.14	6100	2.44
	yes	yes	792	5200	1.04	5600	2.24
	no	no	1662	10,000	2.0	11,000	4.4
	no	yes	1515	9200	1.84	10,000	4.0
	yes	no*	258	1900	0.38	2500 2600	1.04
	no	no*	450	2200 2600	0.44	3700	1.48

* No coconuts from Enjeki either

** Based on BEIR I value of 0.2% increase per rem for birth defects (1% at equilibrium)

*** Based on BEIR I value of 0.4% increase per rem for cancer

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Reviewed by A. Schutte Date 5/1/97