



410154

PACIFIC NORTHWEST LABORATORIES
RICHLAND, WA 99352

TELECOPIER NUMBERS:

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FILL OUT FORM IN BLACK FELT TIP PEN ONLY

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DELAY, SENDER MUST FILL IN FORM COMPLETELY,
NUMBER EACH PAGE CONSECUTIVELY.

DATE: May 8, 1981

TO: Dr. Bruce W. Wachholz
Department of Energy
Policy Analyst/Environmental
Office of Environment, Safety
and Emergency Preparedness, EV-30
E-201, GTN
Washington, DC 20545

TELECOPIER NO: 4-88-233-3870VERIFICATION NO: 4-88-233-3486

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OFFICE PHONE: (509) 375-2421COST CODE: D7C20WORK ORDER NO: A95999PAYROLL NO: 30627THIS TRANSMISSION CONSISTS OF 1 PAGES (EXCLUDING COVER SHEET)

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)
Enwetak, Japtan & Medran	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
Sijire 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

Island	Imported ⁹ Food	Cocconuts from Northern ³ island	Max. individual ¹⁰ "dose (mrem)"	Average whole body ¹⁰ "dose (mrem)"	Birth Defects ** (% Increase) ¹²	Average bone marrow ¹¹ "dose (mrem)"	Cancer *** (% Increase)
Eniwetok,	yes	no	15.3	100	0.02	120	0.048
Japen &	yes	yes	48	320	0.064	340	0.136
Midian	no	no	33	200	0.04	260	0.104
	no	yes	87	560	0.112	630	0.252
Bijire or	yes	no	162	1100	0.22	1200	0.48
Asmin	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	2200 2600	1.04
	no	no *	450	2200 2600	0.44	3700	1.48

* No cocconuts 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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REPOSITORY PNNL
COLLECTION Marshall Islands
BOX No. 5686
FOLDER Eniwetok 1981

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by A. Schutte Date 5/1/97