

THIS PRESENTATION IS

UNCLASSIFIED

	US DOE ARCHIVES
RG	326 U.S. ATOMIC ENERGY COMMISSION
Collection	Dos / Deal Files
Box	13 Job 1326
Folder	Marshall Islands 1975-1977

OUTLINE

ISSUE

BACKGROUND OF TESTING

RADIOLOGICAL PROBLEMS IN THE
PACIFIC

INTERAGENCY RESPONSIBILITIES

RECOMMENDATIONS

DOE ARCHIVES

240

SPECIAL BRIEFING FOR
ADMINISTRATOR
ON

LONG TERM AEC/ERDA RESPONSIBILITIES FOR EFFECTS OF WEAPONS
TESTING IN PACIFIC.

OBJECTIVES:

1. REVIEW BACKGROUND AEC/ERDA IN CLEANUP AND
REHABILITATION.
2. PROVIDE BASIS FOR DECISION ON FUTURE ROLE OF
ERDA.

PRESENTATION BY:

DR. JAMES L. LIVERMAN
ASSISTANT ADMINISTRATOR
FOR ENVIRONMENT AND SAFETY

L. JOE DEAL
ASSISTANT DIRECTOR FOR
HEALTH PROTECTION
DIVISION OF OPERATIONAL SAFETY

JUNE 1975

DOE ARCHIVES

ISSUES

POLITICAL

HUMANITARIAN

TECHNICAL

FISCAL

DOE ARCHIVES

242

HUMANITARIAN

PEOPLE EVACUATED FROM HOME.

PEOPLE INJURED BY RADIATION FROM FALLOUT.

POLITICAL

PRESIDENTIAL DECISION TO TEST.

PRESIDENTIAL DECISION TO RETURN BIKINI
AND ENEWETAK.

U.S. ACCUSED OF USING MARSHALLESE AS
GUINEA PIGS.

DOE ARCHIVES

TECHNICAL

- CLEANUP OF RADIATION TO PRE-TEST CONDITIONS IMPOSSIBLE.
- RESIDUAL WEAPONS RADIATION REQUIRE LIVING RESTRICTIONS.

FISCAL ISSUES

- AEC/ERDA BUDGET INADEQUATE.
- ERDA REIMBURSING DOD LOGISTIC COSTS.
- LONG-TERM FOLLOWUP MONITORING COSTS.

DOE ARCHIVES

NUCLEAR TESTING PACIFIC

1946 PRESIDENT APPROVED FOR NATIONAL SECURITY
USE OF BIKINI ATOLL AND ENEWETAK ATOLL.

- 166 BIKINIANS MOVED
- 142 ENEWETAKESE MOVED
- PEOPLE EXPECTED TO RETURN HOME

DOE ARCHIVES

TEST PROGRAM PACIFIC

- 99 TESTS TOTAL
- 42 ENEWETAK
- 23 BIKINI
- 25 U.S. CHRISTMAS ISLAND
- 9 U.K. CHRISTMAS ISLAND

DOE ARCHIVES

TEST ORGANIZATION PACIFIC

- JOINT DOD-AEC
- FLAG OFFICER COMMANDER
- AEC SCIENTIST DEPUTY COMMANDER

DOE ARCHIVES

BIKINI AND ENEWETAK ATOLLS

- BIKINI 1,438 ACRES
- ENEWETAK 1,760 ACRES
- NO MINERAL RESOURCES
- BOUNTIFUL FISH AND SHELL FISH
- ECONOMY BASED ON COPRA - NON-INTENSIVE AGRICULTURE

DOE ARCHIVES

248

TEST ATOLLS

BIKINI

- RADIOACTIVE CONTAMINATION OF ISLAND
- HOUSING RESTRICTED TO BIKINI, ENEU
- 12 CAPITAL SHIPS SUNK IN LAGOON
- 50 HOMES CONSTRUCTED
- SOME FAMILIES RETURNED

ENEWETAK

- RADIOACTIVE CONTAMINATION OF ISLANDS
- HOUSING RESTRICTED TO ENEWETAK, MEDREN, JAPTAN
- ONE ISLAND COMPLETELY DESTROYED
- RUNIT ISLAND HEAVY CONTAMINATED PU

DOE ARCHIVES

249

1954 BRAVO EVENT

- WIND SHIFTED
- EMERGENCY EVACUATION
 - 64 RONGELAP ATOLL
 - 157 UTIRIK ATOLL
 - 18 AILINGANE ATOLL
 - 28 RONGERIK ATOLLS (AMERICAN)
- LONG-TERM RADIATION INJURY IN RONGELAP PEOPLE

DOE ARCHIVES

250

RADIATION INJURY

<u>AGE AT EXPOSURE</u>	<u>THYROID NODULES</u>	<u>SURGERY</u>	<u>MALIGNANT</u>
<u>IN UTERO</u>			
RONGELAP	1 of 3	1	0
<u>< 10 YEARS</u>			
RONGELAP	17 of 19*	15	1
AILINGINAE	2 of 6	1	0
<u>> 10 YEARS</u>			
RONGELAP	5 of 45	4	2
AILINGINAE	4 of 12	3	0

*INCLUDES TWO CASES OF HYPOTHYROIDISM WITHOUT NODULES.

DOE ARCHIVES

REHABILITATION - BIKINI

- 1958 - LAST WEAPONS TESTS AT BIKINI - AEC-DOD
- 1966 - LETTER, SECRETARY OF INTERIOR TO AEC
REQUESTING SAFETY REVIEW
- 1967 - RADIOLOGICAL SURVEY RECOMMENDATIONS - AEC
- 1968 - PRESIDENT'S ANNOUNCEMENT
- 1969 - CLEANUP OPERATIONS - AEC-DOD
- 1970-1975 - AGRICULTURAL REHABILITATION - DOI
- 1972-1974 - HOUSING CONSTRUCTION - DOI
- 1974-1975 - RETURN OF FIRST BIKINI FAMILIES - DOI
- 1975 - TRUST TERRITORY REQUESTS GUIDANCE ON
RESTRICTIONS ON HOUSING & CROPS - AEC/ERDA

DOE ARCHIVES

252

REHABILITATION - ENEWETAK

1972 - ANNOUNCEMENT OF RETURN BY AMBASSADOR WILLIAMS
AND HIGH COMMISSIONER JOHNSTON

1972 - INTERAGENCY AGREEMENTS ON RESPONSIBILITIES -
DOD-DOI-AEC

1972-1973 - RADIOLOGICAL SURVEY OF ENEWETAK ATOLL - AEC

1974 - EVALUATION AND RECOMMENDATIONS - AEC/ERDA

1975 - ENVIRONMENTAL IMPACT STATEMENT - DOD

1976 - CLEANUP OPERATIONS BEGIN - DOD

DOE ARCHIVES

253

RADIATION PROBLEM

- PEOPLE TO LIVE ON ISLANDS CONTAMINATED BY FALLOUT.
- UPTAKE IN SEAFOODS VERY LOW.
- UPTAKE IN AGRICULTURE PRODUCTS HIGH.
- RESTRICTION REQUIRED ON FOODS AND HOUSING.
- LONG-TERM MONITORING ENVIRONMENT AND PEOPLE REQUIRED.
- FEDERAL STANDARDS MAY BE LOWERED.

DOE ARCHIVES

254

IMMEDIATE REQUIREMENTS

- LOCATION FOR PHASE II HOMES - BIKINI
- DOSE DETERMINATION OF FOOD - BIKINI
- HAZARD FROM SUNKEN SHIPS - BIKINI
- DETAILED RADIATION SURVEY OF BIKINI
- DETAILED RADIATION SURVEY OF BRAVO FALLOUT ISLANDS

DOE ARCHIVES

255

NEED FOR DETAILED SURVEYS

- BIKINI SURVEYS USED 1960 TECHNOLOGY
- MODERN TECHNOLOGY IDENTIFIES SPECIFIC ISOTOPES
- KNOWLEDGE FROM ENEWETAK SURVEY
- LOCATION OF HOUSES AND CROPS
- PRESSURE TO MATCH ENEWETAK SURVEY
- REQUEST FOR STATUS OF BRAVO FALLOUT ISLANDS
- LIKELY TERMINATION OF TRUST AGREEMENT
- U.S. OBLIGATION TO DOCUMENT CONDITIONS

DOE ARCHIVES

256

AERIAL RADIOLOGICAL SURVEY

- FASTER
- CHEAPER
- BETTER DEFINITION OF CONTAMINATION CONTOURS
- ISOTOPIC DEFINITION
- COMPLETE COVERAGE OF ISLANDS AND REEFS
- UNIFORM AUTOMATIC DATA HANDLING

DOE ARCHIVES

257

NEED FOR FOLLOWUP MONITORING

- RONGELAP PEOPLE EXPERIENCE DELAYED RADIATION INJURY.
- BIKINI AND ENEWETAK TO BE RESETTLED IN AREA CONTAMINATED BY WEAPONS FALLOUT.
- RADIATION DOSE PREDICTED TO EXCEED STANDARDS FOR GENERAL PUBLIC.

DOE ARCHIVES

258

ERDA PACIFIC PROGRAM COSTS
(IN THOUSANDS)

<u>FUNDED</u>		<u>FY 75</u>	<u>FY 76</u>	<u>FY 77</u>
MEDICAL SURVEILLANCE	- BER	\$ 300	\$ 340	\$ 400
ENVIRONMENTAL SURVEILLANCE	- OS	\$ 125	\$ 300	\$ 325
RESEARCH	- BER	\$ 566	\$ 620	\$ 625
 <u>NOT FUNDED</u>				
BIKINI AERIAL SURVEY			\$ 700	
ALL ISLANDS AERIAL SURVEY			\$1500	\$1500

DOE ARCHIVES

259

RESEARCH

- BIOGEOCHEMISTRY OF TRANSURANICS.
- CYCLING TRANSURANICS.
- MARINE AND TERRESTRIAL FOOD CHAIN STUDIES.

DOE ARCHIVES

260

RECOMMENDATIONS

- CONTINUE LONG-TERM MEDICAL AND ENVIRONMENTAL SURVEYS
- CONTINUE SUPPORTING RESEARCH
- DETERMINE ERDA ROLE IN PACIFIC
- AERIAL SURVEYS OF BIKINI AND OTHER ISLANDS
- SUPPORT DOD FUNDING FOR LOGISTICS

DOE ARCHIVES

261