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	US DOE ARCHIVES
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OUTLINE

ISSUE

BACKGROUND OF TESTING

RADIOLOGICAL PROBLEMS IN THE  
PACIFIC

INTERAGENCY RESPONSIBILITIES

RECOMMENDATIONS

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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:

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JUNE 1975

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ISSUES

POLITICAL

HUMANITARIAN

TECHNICAL

FISCAL

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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.

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## 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.

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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

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TEST PROGRAM PACIFIC

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

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TEST ORGANIZATION PACIFIC

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

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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

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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

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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

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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>&lt; 10 YEARS</u>			
RONGELAP	17 of 19*	15	1
AILINGINAE	2 of 6	1	0
<u>&gt; 10 YEARS</u>			
RONGELAP	5 of 45	4	2
AILINGINAE	4 of 12	3	0

\*INCLUDES TWO CASES OF HYPOTHYROIDISM WITHOUT NODULES.

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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

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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

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## 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.

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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

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## 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

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## AERIAL RADIOLOGICAL SURVEY

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

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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.

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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

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RESEARCH

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

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## 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

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