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UNITED STATES
ATOMIC ENERGY COMMISSION
NEVADA OPERATIONS OFFICE
P. O. BOX 14100
LAS VEGAS, NEVADA 89114


411663

APR 25 1972

Those on Attached List

TRANSMITTAL OF PLANNING AND OPERATIONS DIRECTIVE (NVO-111) - 1972
BIKINI RADIOLOGICAL RESURVEY AND GENERAL RADIOLOGICAL SURVEY AND
CLEANUP STUDY OF ENIWETOK

This document updates Planning Directive (NVO-111) 1972 Bikini
Survey to include the added general radiological survey and cleanup
study of Eniwetok Atoll planned for May 1972.

for 
Robert E. Miller
Manager

PDB:KNJ-289

Enclosure:
As Noted

Addressees:

- R. E. Miller, Manager, NV
- C. E. Williams, Deputy Manager, NV
- W. D. Smith, Jr., Asst. Mgr. for
Engrng and Log., NV
- R. Ray, Asst. Mgr. for Operations, NV
- W. R. Cooper, Asst. Mgr. for
Plans and Budgets, NV
- B. W. Menke, Asst. Mgr. for Admin., NV
- R. H. Thalgott, Nuclear Operations
Control Ofcr., NV
- D. W. Hendricks, Dir., Rad Opns Div., NV
- R. W. Taft, Dir., Plans Div., NV
- W. B. Hills, Dir., PASO, Honolulu, HA
- F. D. Cluff, Deputy Dir., Operational
Support, CP-1
- E. S. Chaput, Dir., Budget Div., NV
- F. W. Baldwin, Dir., Finance Div., NV
- T. O. Fleming, Chief Counsel, NV
- H. G. Vermillion, Actg. Dir.,
Ofc. of Info Services, NV
- P. J. Mudra, Dir., Operations Supt., NV

REPOSITORY DOE History Division
COLLECTION RG-132, Tommy McCraw
Job # 1320
BOX No. 5
FOLDER Radiological Survey

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Addressees (continued)

W. E. Ogle, LASL, Los Alamos, NM
J. E. Carothers, LLL, Livermore, CA
R. R. Brownlee, LASL, Los Alamos, NM
J. H. Scott, SLA, Org. 9200, Albuq., NM
C. R. Mehl, SLA, Org. 5230, Albuq., NM
Maj. Gen. E. B. Giller, USAEC, Asst. Gen. Mgr.
for Military Application, Wash., DC
M. B. Biles, USAEC, Dir., DOS, Wash., DC
T. McCraw, USAEC, DOS, Wash., DC
CAPT. W. W. Gay, USAEC, DMA, Wash., DC
L. M. Groover, USAEC, DMA, Wash., DC
E. W. Held, Laboratory of Radiation Ecology,
University of Wash., Seattle, Wash.
M. W. Carter, Dir., EPA/WERL, Las Vegas, Nevada (3)

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PLANNING AND OPERATIONS DIRECTIVE (NVO-111) - 1972 BIKINI RADIOLOGICAL RESURVEY AND GENERAL RADIOLOGICAL SURVEY AND CLEANUP STUDY OF ENIWETOK

I. Objective and Purpose

The Bikini and Eniwetok Atolls were extensively used during the 1950's for nuclear tests necessitating displacement of individuals who were living on these two atolls. The rehabilitation of the Bikini Atoll and resettlement of people on Bikini and Eneu islands has been approved and the project is now underway. Regarding Eniwetok, it is anticipated that rehabilitation of the atoll and resettlement of people on the atoll is a possibility in the near future.

The Secretary of the Interior has stated he will look to AEC for support in the radiological safety aspects of the Bikini and Eneu resettlement program and NV has been funded by the Division of Operational Safety for participation in the first of a series of periodic Bikini radiological field resurveys, planned for May 1972. In view of the possible rehabilitation of Eniwetok an add-on general radiological survey and cleanup study of the atoll will also be conducted during this period.

The Bikini Atoll radiological survey will include sampling of soil, air, sea and well water, terrestrial and marine organisms and agricultural crops, as well as measurements of radiation levels in any collected scrap metal and gamma levels in and around structures on Bikini Island. Large volume water samples and goat fish will be collected from Eneu Island. A gamma survey will also be made on all islands visited. Soil, fish, and sea water samples will be collected from the region of Bravo crater and Namu Island. Several western and southern islands will also have sea water, coconut crabs, new coconut trees and any

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other agricultural crops sampled. The Bikini survey will be conducted over a period of about eight days.

The major objective of the Eniwetok radiological survey and cleanup study will be to collect further information on the present radiological condition of the islands, which will assist in planning for another extensive survey tentatively scheduled for August/September 1972. In general, the survey will emphasize the islands which have been least damaged or contaminated by nuclear testing and would be most habitable. This will include radiation surveys and collection of soil, vegetation and animal samples where appropriate and time allows. The Eniwetok survey will be conducted over a period of about seven days.

The itinerary for the FY 1972 Bikini and Eniwetok surveys is as follows:

Arrive	Honolulu	April 29	
Leave	Honolulu	May 1	MAC
Arrive	Kwajalein	May 1	
Leave	Kwajalein	May 3	Charter plane
Arrive	Bikini	May 3	
	Survey of Bikini Atoll	May 3 - May 10	
Leave	Bikini	May 10	KMR - LCU
Arrive	Eniwetok	May 11	
	Survey of Eniwetok	May 11 - May 17	
Leave	Eniwetok	May 17	MAC
Arrive	Kwajalein	May 17	
Leave	Kwajalein	May 19	MAC
Arrive	Honolulu	May 19	
Leave	Honolulu	May 20	

The party performing these surveys is expected to include representatives of:

- A. Division of Operational Safety (DOS), AEC;
- B. Office of the Assistant Manager for Operations (AMO), NV;
- C. Western Environmental Research Laboratory (WERL/EPA); and
- D. Laboratory of Radiation Ecology (LRE), University of Washington.

The field surveys themselves will be followed by in-house laboratory analysis of samples by WERL/EPA and LRE; however for the most part this phase of work will be accomplished in FY 73 on the basis of additional funding to be provided separately from that authorized to date by DOS.

II. Policies, Responsibilities and Procedures

In concept, DOS will define the basic objectives to be accomplished by the radiological surveys and the Eniwetok cleanup study and in conjunction with NV will develop the overall scope of work to be conducted. This will be based on detailed technical program concepts and plans developed by WERL/EPA and LRE. The field effort itself will be carried out primarily by NV through NV contractor/agency resources, with guidance and concurrence of DOS participants in the field.

Within NV, the Assistant Manager for Operations will be responsible to the Manager for successful accomplishment of the objectives of the surveys and cleanup study, and preparation of the required survey and study reports. He will be assisted to the extent required

by the Assistant Manager for Engineering/Logistics and the Director, PASO, in matters of field support.

Within this framework, NV's responsibilities to DOS under this project are as follows:

- A. Through its contractor/agency relationships, develop a survey and cleanup study program to meet DOS overall objectives.
- B. Execute the field programs; arrange and provide field support as required.
- C. On completion of the field surveys and cleanup study, perform the required laboratory sample analysis work on which the ultimate evaluations can be based. (Part of this laboratory analysis work will be completed in FY 72 and the remainder will be completed early in FY 73, assuming additional DOS funding in FY 73 is provided).
- D. Develop and submit to DOS the resultant survey and study reports (target date 9 months following completion of the survey).
- E. In all the above functions, work closely with the DOS Project Officer to accomplish overall DOS objectives. (To the extent feasible, the surveys and study should also recognize DBM interest in related fields.)

III. DOS-DBM Evaluation of Findings

On the basis of NV's survey and study reports, it is understood that as in the past, DOS and DBM will be responsible for evaluation of survey and study data and assessment of impact on plans for human resettlement of the Bikini and Eniwetok atolls.

IV. Political Considerations and Program Coordination

With regard to interagency arrangements, DOS was responsible for Washington-level contacts with the Department of the Interior (including Trust Territories administration) to obtain necessary concurrences in AEC survey and study plans. DOS and NV has jointly conducted meetings in the forward area with Trust Territories authorities to discuss specific plans for the field work and to obtain necessary field concurrences and support. (This field coordination was done in early March 1972.)

V. Further Program Definition and Funding Authorization

Following further meetings with project participants to define technical content of program and detailed schedules, the Assistant Manager for Operations will advise the Assistant Manager for Plans and Budgets of more definitive cost estimates required for completion of the surveys and studies and analysis work, identified both by contractor participants and by fiscal year. AM/P&B will then be responsible to advise DOS and other appropriate Washington Divisions and to arrange necessary authorization of FY 72 and FY 73 funds. Target date for submission of cost estimates is June 15, 1972.

Enclosure:
Roster of Project Officers

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PLANNING AND OPERATIONS DIRECTIVE - 1972 BIKINI RADIOLOGICAL RESURVEY
AND GENERAL RADIOLOGICAL SURVEY AND CLEANUP STUDY OF ENIWETOK

Project Officers

Nevada Operations Office	J. D. Stewart O. D. T. Lynch - Alternate
Division of Operational Safety Washington, DC	T. McCraw
Laboratory of Radiation Ecology University of Washington	E. W. Held
Western Environmental Radiological Laboratory - Environmental Protection Agency	W. Moore C. Costa - Alternate

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