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**Department of Energy**

Pacific Area Support Office

P.O. Box 29939

Honolulu, HI 96820

17 OCT 1984

Addressees

OPERATIONS PLAN, MISSION NO. 2, FY 1985--LLNL, BIKINI ATOLL

The enclosed Operations Plan covers Mission No. 2, FY 1985 and has been coordinated with LLNL (W. Robison),USO (Captain Keith Coberly), DOE Coordinator (T. Fowler), and H&N/PO (P. Haggerty).

For additional information, please contact Harry Brown or Bill Jackson at (808) 422-9211.

*for W. J. Stanley*  
W. J. Stanley  
Director

OP-563:HUB

Enclosure:  
Operations Plan

Addressees

-2-

Hon. Janet McCoy, HICOM, TTPI  
Hon. Oscar deBrum, Chief Secretary, REPMAR, Majuro  
Hon. Tony deBrum, Minister, Foreign Affairs, Majuro  
Hon. Henchy Balos, Senator, The Nitijela, Majuro  
→ John Rudolph, DP-224, DOE/HQ  
Roger Ray, DPO, NV  
Don T. Schueler, AMA, NV  
William J. Stanley, Director, PASO  
Dr. W. Robison, LLNL  
C. E. Otterman, USO, San Diego  
Col William Spin, Cdr., KMR  
D. K. McLaughlin, Res. Mgr., Global Associates, Kwaj  
Capt. Keith Coberly, USO, Kwaj  
Tom Fowler, DOE Coordinator, Kwaj  
Jiba Kabua, Chief Secretary's Rep., REPMAR, Kwaj  
Kris Morris, DP-224-2, DOE/HQ  
Reynold deBrum, DOE Coordinator, Majuro, MI  
H&N/PO (Brush, Haggerty, Ulrich, Grewe, Koga, Foard)  
H. U. Brown, DOE/PASO  
W. D. Jackson, DOE/PASO

OPERATIONS PLAN  
MISSION NO. 2 FY 1985  
BIKINI ATOLL

I. Background and Purpose

Lawrence Livermore National Laboratory, on behalf of DOE, conducts terrestrial investigations to measure and analyze radionuclides in the environment at Bikini and other atolls in the Marshall Islands. From these investigations, dose assessments to man are formulated and the results are made available to Bikinians, their Government and other interested entities.

Another aspect of the program is to conduct experiments aimed at reducing the inventory of radionuclides in the soil or to otherwise limit their entrance into the food chain.

II. Work to be Performed

A. Bikini Island

1. In-situ Y-counting of 100 M x 100 M irrigation plot and permanent trees.
2. Collect groundwater from all wells.
3. Plant crops in 100 M x 100 M irrigation plot.
4. Plant papaya, squash, and sweet potato in control area near irrigation plot.
5. Collect grasses, scavola, messer, morning glory, etc., from irrigation plot.
6. Collect items in number 5 from control sites near irrigation plot.
7. Collect 50 gallons of soil from irrigation plot (0-25 CM) for use in greenhouse studies at LLNL.
8. Collect vegetation samples.
9. Investigate and determine an area for a second irrigation experiment.
10. Fertilize new "High K" trees.
11. Calibrate meteorological gear weather sensor.

B. Eneu Island

1. Weigh total vegetation in several 1 M2 plots.
2. Sample coco trees for "High K" experiments.
3. Fertilize 3 new "High K" trees.
4. Fertilize stable CS plot.
5. Identify 10 trees; clear all coconuts around them, to count the number of coconuts per year per tree.
6. Samples for 210PO analysis, 2 each of coco meat, coco fluid, breadfruit, pandanus, papaya.
7. In-situ Y-counting of permanent trees.
8. Collect groundwater from all wells.
9. Calibrate meteorological gear and replace sensors.

III. Personnel and Itineraries

A. <u>Name</u>	<u>Organization</u>
William Robison - Party Chief	LLNL
Marshall Stuart	LLNL
William Burke	LLNL
James Johnson	LLNL
John Rehder	LLNL
Bruce Clegg	LLNL
H&N Mechanic	H&N
Marshallese Assistant <sup>1/</sup>	(Local hire, LLNL)

B. Itineraries (West of Honolulu)<sup>2/</sup>

	<u>Ar Kwa</u>	<u>Lv Kwa</u>	<u>Ar Bik</u>	<u>Lv Bik</u>	<u>Ar Kwa</u>	<u>Lv Kwa</u>
W. Robison	11/9	11/13	11/14	11/28	11/29	11/29
M. Stuart	11/9	11/13	11/14	11/28	11/29	11/29
B. Clegg	11/9	11/13	11/14	11/28	11/29	11/29
W. Burke	11/9	11/13	11/14	11/28	11/29	11/29
J. Johnson	11/9	11/13	11/14	11/28	11/29	11/29
J. Rehder	11/9	11/13	11/14	11/28	11/29	11/29
H&N Mechanic	11/9	11/13	11/14	11/28	11/29	11/29

<sup>1/</sup> To be hired from Ebeye.

<sup>2/</sup> All dates are Kwajalein dates.

IV. Liktanur II Schedule<sup>2/</sup>

11/13	Depart Kwajalien for Bikini
11/14	Arrive Bikini
11/28	Leave Bikini for Kwajalein
11/29	Arrive Kwajalein

V. Logistical Support Requirements

A. H&N

1. Provide one mechanic (see Robison's letter of 10/1/84).
2. Hotels, vehicles, reconfirm flights per W. Robison's October 1, 1984 letter to PASO.
3. Send \$1,000 and receipt book to DOE Coordinator, Kwajalein, payable to William Robison.

B. DOE Coordinator Kwajalein

1. All housing, passes, bicycles, etc.
2. Coordinate 3 drums mogas, 3 freezers and pontoon barges to be placed aboard vessel.
3. Coordinate Ebeye "local hire" with Methan from Liktanur II.
4. Work closely with LLNL team to insure all cargo received and put on ship.
5. Work with Dr. Robison to identify storage items which should be either excessed or moved.

C. Liktanur

1. One whaler.
2. Report to PASO any fuel transfers from Liktanur to Bikini.

D. DOE Representative Majuro

1. Procure and send to Kwajalein coconuts, papaya and seeds (see Robison's letter of 10/1/84).

VI. Funding

Program charges for this mission are to be recorded against SANL 417-001.

VII. Reports

The Party Chief is to provide a report on the mission no later than 30 days after completion of the operation to the Director, PASO with an information copy to the Deputy for Pacific Operations, Office of the Manager, NV. This report should be concise and offer any comments or recommendations which will improve future operations.