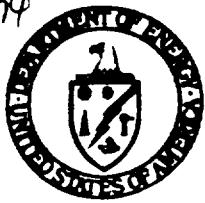


JUL 1, 1988

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**Department of Energy**  
Pacific Area Support Office  
P.O. Box 29939  
Honolulu, HI 96820

**1 JUL 1988**

**Addressees**

OPERATIONS PLAN 88-5 FY 1988, LLNL  
MISSION TO ENEWETAK/BIKINI

The enclosed Operations Plan has been coordinated with Dr William Robison (LLNL), Keith Coberly (USO, Kwajalein), and John Brown (DOE Coordinator, Kwajalein).

Any travel changes are to be made directly with H&N/PO, Judy Honda, Phone (808) 422-9221.

Any other additions, changes, or questions should be directed to H&N/PO, Kent Hiner, phone (808) 422-9221.



J. H. Dryden  
Director

OP-186:KH

Enclosure

John Rudolph's files  
Letter 5765  
Letters - Marshall Islands 1988

OPERATIONS PLAN 88-5  
MISSION NO. 5, FY 1988

BIKINI/RONGELAP

I. BACKGROUND AND PURPOSE

Lawrence Livermore National Laboratory (LLNL) 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 the Bikinians, their Government, and other interested entities. Another major aspect of the program is to conduct experiments aimed at reducing the inventory of radionuclides in the soil so as to otherwise limit their entrance into the food chain.

The Bikini Atoll Rehabilitation Committee (BARC), established in 1982 through the Department of Interior, is authorized and funded by the U.S. Congress to study and report on the feasibility and the cost of rehabilitating Bikini Atoll. A significant task of BARC is to investigate how radioactive contamination of Bikini can be reduced while at the same time respecting the Atoll's biological and environmental integrity.

Since the scientific objectives of the LLNL and the recommendations of the BARC are so complementary and similar with respect to Bikini Atoll, the two organizations have agreed to collaborate on scientific field work on Bikini under DOE sponsorship. The mission and objectives which are for the most part, outgrowths of previous work conducted by LLNL at Bikini, are described below:

II. RESPONSIBILITIES

A. Administration and Support

The Department of Energy, through its integrated contractor, Holmes & Narver, Inc., operates a base camp on the island of Bikini, a satellite camp at Eneu Island, and a 135 foot seagoing vessel based at Kwajalein which is assigned to support missions in the field.

The DOE authority during field missions will be exercised by a Field Representative or, in his absence, by a Senior Holmes & Narver Representative, who will be responsible for overall administration and coordination of support to scientific users, and direction of all logistical management activities, including communications and safety. Day to day camp administration will be provided by the H&N Site Manager.

## B. Scientific Activities and Operations

During the field mission, all scientific activities will be directed by the Party Chief. The Party Chief will request logistical and other support as needed from the DOE Representative and/or the H&N Field Representative.

C. All vessel operations at sea or within the lagoon are under the control and direction of the Captain, who will work in close coordination with the Field Representative and the Party Chief in providing mission support as requested. Final authority as to the movement of the ship and its associated small boats and/or marine activities rests with the Captain.

## III. WORK TO BE PERFORMED

### Bikini

1. Collect plants from initial irrigation and control sites.
2. Collect samples from the second phase irrigation plots.
3. Collect well water samples from Bikini and Eneu.
4. Collect samples from N,P,K plot (coconut, grass, etc.).
5. Collect samples from the "high K" trees on Bikini and Eneu.
6. Fertilize appropriate "high K" trees.
7. Collect samples for the CEE study.
8. Collect samples from the K rate trial experiment.
9. Collect samples from the super K trees.
10. Collect coco fronds from the excavation and control plots.
11. Collect samples from "clino" study.
12. Repeat "old" and "new" methods of collecting coconut meat.
13. Gamma Spectroscopy of all sites including permanent trees.
14. Collect samples from the ion penetration study.
15. Collect samples from accelerated leaching experiments.
16. Annual collection of permanent coconut trees on Bikini.
17. Collect samples from the WR plot.
18. Annual collection of permanent coconut trees on Eneu.
19. Fertilize breadfruit trees on Bikini Island.
20. Apply N, P, K to the N, P, K experimental plot.
21. Collect lettuce, yard-long beans, etc., for PU study.
22. Miscellaneous
23. Young, medium, senescent, recent litter fall for scaevola, messer., B.F., coco fronds, Pandanus leafs, Kona.
24. Complete the soil reprofiles garden B.F., papaya and Pandanus trees on Eneu.

### RONGELAP

1. Collect coconut, breadfruit and Pandanus fruit from Rongelap and Kabelle Islands for env. Ti/2 study.
2. Make gamma exposure measurements inside and outside of houses.
3. Collect Pisonia, messerschmidia and scaevola samples from Rongelap

and Kabelle for environmental half-life study.

IV. PERSONNEL (See attached "AUGUST BIKINI MISSION CALENDAR")

V. ITINERARIES (See attached "AUGUST BIKINI MISSION CALENDAR")

VI. TRANSPORTATION SCHEDULE

a) Airlines of the Marshall Islands

(see attached AMI Schedule)

b) Egabrag

(see attached "AUGUST BIKINI MISSION CALENDAR")

VII. LOGISTICAL SUPPORT REQUIREMENTS

A. Holmes & Narver, Inc.

1. Arrange travel, entry, hotel, vehicle, vans, etc., for LLNL as prescribed in William Robison Ops Plan and other authorized organizations.
2. Provide necessary support staff.
3. Assure that all mission related material and equipment is at the proper location to support the mission.

B. DOE Coordinator, Kwajalein

1. Prepare and coordinate the loading onto the Egabrag all related material and equipment for the mission. Standard equipment should include Sleeping Van and a MatsonWalk-In Freezer.
2. Arrange billeting, retail store ID cards, vehicles, bicycles and other related items for mission personnel during their stay at Kwajalein.
3. Coordinate with Field Stations their requirements for POL and pass those requirements onto the Captain of the Egabrag.

C. DOE Coordinator, Majuro

1. Make arrangements to hire and transport Marshallese workers as requested in support of the mission.
2. Make arrangements for hotel, transportation and other related request as stated in "Operations Plan".

D. USO

1. Coordinate with DOE Coordinator, Kwajalein, on mission preparations.
2. Coordinate fuel requirements with all Field Station Managers through DOE Coordinator.
3. Provide billeting and support as required.

VIII. FUNDING

General program charges are to be levied against existing Financial Plan for support at Bikini, except for specific costs incurred by the various "other" organizations. These costs will be recorded by the Holmes & Narver representative and subsequent billings will be made to users. These reimbursables will then be credited to the "Bikini Support Program".

IX. REPORTS

All Party Chiefs are to file a written report to the Director of PASO with an information copy to the Deputy, Environmental Response and Program Analyses, DOE/NV (H. Brown). These reports must be submitted within 30 days from the completion of the trip.

19

JULY-AUGUST LIKIEP/BIKINI RONGELAP MISSION

B	- Bikini	K	- Kwajalein
CNTR	- AMI Charter	L	- Likiep
BIV	- AMI Diversion	M	- Majuro
E	- Enewetak	R	- Rongelap
H	- Honolulu	T	- Transit
J	- Johnston	TV	- Transit on Vessel

## CALENDAR

organizations			
AGRI	- Agricultural Consultant	H&M/LV	- Holmes & Marver/Las Vegas
BARC	- Bikini Atoll Rehabilitation Committee	H&M/M	- Holmes & Marver Marshallse worker
BIK	- Bikini Community Reps/Others	LLNL	- Lawrence Livermore National Laboratory
DOE	- Department of Energy	PRESS	- Newspaper/Radio/TV
DOI	- Department of Interior	RepMar	- Republic of the Marshall Islands
FCDMA	- Field Command DMA	US AMB	- US Ambassador
H&M	- Holmes & Marver/Honolulu	UofW	- University of Washington
H&M/A	- Holmes & Marver/Albuquerque		

AM

DIV CHTR

DIV CHTB

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july	august												september																								
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## key

**B** - Bikini  
**CHIR** - AMI Charter  
**DIV** - AMI Diversions  
**E** - Energetek  
**H** - Honolulu  
**J** - Johnston

**K** - Khajalein  
**L** - Litrep  
**M** - Majuro  
**R** - Rongelap  
**T** - Transit  
**TV** - Transit on Vessel

## JULY-AUGUST LIV/TEP/BININI RONGELAP MISSION

## CALENDAR

27 KRAHN, Morgan : HNM/A :  
 28 KRUESSBEIN, George : HNM :  
 29 MACDONALD, A. : BN :  
 30 MADISON, C. : HNM/H :  
 31 MADISON, Edward : HNM/H :  
 32 MCCOY, Janet : DOI :  
 33 MIGVAR, Leo : ASR :  
 34 MILNE, Wayne : HNM :  
 35 NAVY DIVE TEAM : NAVY :  
 36 NELSON, Bob :  
 37 NEVISSI, Ahead : HNM :  
 38 NIEDENHALL, J. : BN :  
 39 NOTARIANNI, S. : HNM :  
 40 ODET, David : HNM :  
 41 ORIVAL, Wayne : HNM :  
 42 ORIVER, Pete : Repar :  
 43 PEDAKWIO, Joe : HNM :  
 44 REEDER, John : LLNL :  
 45 ROBISON, Bill : LLNL :  
 46 SELBY, Penny : HNM :  
 47 STORME, Earl : BARC :  
 48 STRIELENICZ, Joe : HNM :  
 49 SWAMP, Marshall : LLNL :  
 50 TARTIUS, Dusty : HNM :  
 51 THOMSEN, Sam : US AMB :  
 52 MILLARD, Bill : HNM :  
 53 YAMAMOTO, Dean : HNM :

## organizations

- Bikini & Marver/Las Vegas  
 - Bikini - Major Marshall worker  
 - Bikini Community Reps/Others  
 - Department of Energy  
 - Department of Interior  
 - Field Command DNA  
 - Holles & Marver/Honolulu  
 - Holles & Marver/Albuquerque

- Holles & Marver Marshall worker  
 - Lawrence Livermore National Laboratory  
 - Newspaper/Radio/TV  
 - Republic of the Marshall Islands  
 - US AMB  
 - University of Washington

## July

## August

## september

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1 - KHJALEIN  
 2 - LITREP  
 3 - MAJURO  
 4 - RONGELAP  
 5 - TRANSIT  
 6 - TRANSIT ON VESSEL  
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## August

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## september

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NAVY DIVE TEAM											

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: KMAJ-BIK: 2 PAX	: KMAJ-BIK: 2 PAX	: KMAJ-BIK: 16 PAX	: KMAJ-BIK: 4 PAX	: KMAJ-BIK: 0 PAX	: KMAJ-BIK: 2 PAX
: BIK-KMAJ: 3 PAX	: BIK-KMAJ: 2 PAX	: BIK-KMAJ: 12 PAX	: BIK-KMAJ: 10 PAX	: BIK-KMAJ: 10 PAX	: BIK-KMAJ: 2 PAX
: BIK-MAJ: 1 PAX	: BIK-MAJ: 0 PAX	: BIK-MAJ: 5 PAX	: BIK-MAJ: 0 PAX	: BIK-MAJ: 19 PAX	: BIK-MAJ: 0 PAX
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