

## MISSION NO. FY 78-3 (Revision)

LAWRENCE LIVERMORE LABORATORY AND UNIVERSITY OF HAWAII

March 7 - March 29, 1978

I. REVISION

Implementation of the original Operations Plan transmitted by Director/PASO memorandum dated January 5, 1978 was delayed due to logistics support problems created by typhoon Mary and tropical storm Nadine. The University of Hawaii Lagoon Circulation Study was subsequently delayed until about August 1978, although the LLL and U of H Team #1 (Dr. Buddemeier) will proceed with only minor changes in requirements.

II. PROGRAM BACKGROUND

Lawrence Livermore Laboratory (LLL) and the University of Hawaii have DOE sponsored programs involving the sampling, measurement, and cycling characteristics of radionuclides in soil, water and biota. These investigations are aimed at producing results which will better enable the United States Government to fulfill its commitments to rehabilitate Marshall Island Atolls for the safe use by the former residents.

III. DESCRIPTION OF MISSION

## A. LLL

1. Take groundwater samples on Enjebi, Enewetak and Japtan.
2. Run an air sampler on Enjebi for two weeks, and
3. Take reef samples.

## B. U of H, Team #1

1. Drill test wells on Enjebi and obtain core samples of water table rock.
2. Perform hydrologic tests and measurements on above wells.
3. Sample in conjunction with LLL, old and new wells for chemical and radiochemical analysis; and
4. Sample selected wells on Enewetak and Medren.

IV. RESPONSIBILITIES

The Party Chief for LLL is Dr. Kai Wong. Dr. Robert Buddemeier is Party Chief of the U of H team.

V. SCHEDULE

	<u>Hono</u>		<u>Enewetak</u>		<u>Dep. Hono</u>
	<u>Arr.</u>	<u>Dep.</u>	<u>Arr.</u>	<u>Dep.</u>	
<u>LLL</u>					
K. Wong	3/13	3/14	3/14	3/29	OPEN
G. Holladay	3/13	3/14	3/14	3/29	OPEN
J. Brunk	3/13	3/14	3/14	3/29	OPEN
K. Marsh	3/13	3/14	3/14	3/29	OPEN

U of H

R. Buddemeier		3/7	3/7	3/29	
D. Buddemeier		3/7	3/7	3/29	
B. Tilbrook		3/7	3/7	3/29	
S. Goff		3/7	3/7	3/29	
S. Petty		3/7	3/7	3/22	
W. Souza		3/7	3/7	3/22	
S. Wheatcraft		3/7	3/7	3/22	

VI. LOGISTICAL SUPPORT REQUIREMENTSA. PASO-H&N/PTD

- Hotel reservations and one (1) vehicle for LLL personnel:  
Outrigger March 13; Airport Holiday Inn, March 29;  
vehicle at Airport Holiday Inn March 13.
- Travel orders and MAC reservations and entry requests.
- Meet plane March 29 for handling frozen samples.

B. Enewetak Base Support1. Billets

		<u>March</u>	
LLL	K. Wong	14 through 17	27 & 28
	G. Holladay	14 through 17	27 & 28
	J. Brunk	14 through 17	27 & 28
	K. Marsh	14 through 17	27 & 28
U of H	5 men, 2 women	7th	
	1 man	14 through 17	
	1 woman, 2 men	21st	
	1 woman, 3 men	27 & 28	

2. Enjebi Base

- Food, fuel, water truck, backhoe, linens and bunks adequate to support 11 people.

- b. Operational generator
  - c. One (1) 4 x 4 and one (1) mule
  - d. Dump truck and 4 x 4 on Enewetak to carry equipment to Enjebi on LCM on March 8.
  - e. Gas to support vehicles, 3 - 55 gal. drums 80 - 87 octane gas for air samplers (can substitute avgas if necessary); one (1) case aviation ash free motor oil; 10 gal. hydraulic fluid; one (1) case outboard motor oil.
  - f. Aqua-sport and whaler from Kwaj operational.
  - g. Three (3) radios (1 base and 2 handie-talkies).
3. LCM trip to Enjebi March 8 and return March 27 or 28, with possibility of interim round trip March 17 or 18.
  4. Rad-Safe - Request JTG-RCC permission for Party Chief to carry out rad-safe monitoring on Enjebi in same manner performed by LLL Garden Program personnel.
  5. Other - It is highly desirable that there be no blasting or burning on Enjebi during this mission. Request Party Chiefs be advised well in advance should this be necessary.
  6. Request to be cleared with CJTG upon arrival for service of one dri-Enewetak skilled in net fishing.

#### VII. FUNDING

LLL efforts are funded through a Request for Services (SANL) No. 609 issued by the University of California Lawrence Livermore Laboratory under USDOE Prime Contract No. W-7405-48. U of H (Dr. Buddemeier) efforts funded under DOE contract EY-76-C-08-0703.