

February 22, 2002

**U.S. Department of Energy
Operations Plan No. 02-02**

Marshall Islands Program

Location: Bikini, Enewetak and Majuro Atolls

Statement of Work

The Department of Energy (DOE) in conjunction with the Lawrence Livermore National Laboratory (LLNL) will conduct a mini-mission at Bikini, Enewetak and Majuro Atolls during 26 March – April 15, 2002.

Objectives

Bikini Atoll (26 March – April 5)

1. Conduct the last scheduled sampling of trees from the CLC and KNPK plots before publication of results.
2. Collect samples and re-fertilize 220 and 120 kg/hectare plots in HEJ.
3. Collect coconut and tree cores from quad trees on lysimeter 10 and 11.
4. Re-sample daughter-parent trees and establish a series of new parent-daughter pairs before publication of results.
5. Collection soil cores from the area of lysimeter 12.
6. Process any remaining water samples from the lysimeter collections, and develop/maintain/refurbish lysimeter equipment as required.
7. Take salinity measurements of slotted wells.
8. Collect and process water samples from established wells.
9. Prepare an inventory of equipment items as required for the LLNL Inventory Assets Program.

Enewetak Atoll (5 – 11 April)

1. Review facility setup and controls to maintain adequate levels of cleanliness to collect urine samples in the Enewetak Radiological Laboratory.
2. Initiate the next round of annual urine collections to include 40 new designated individuals plus additional quality control samples to estimate inter-and intra-sampling variability. The latter will allow a direct comparison of results from year-to-year.
3. BN staff will continue the collection and have the samples packaged/shipped to Livermore for analysis.
4. Oversee annual maintenance cycle on the facility.

Majuro Atoll (11 – 15 April)

1. Review program requirements and environmental controls to continue urine collections out of Majuro for the Rongelap PII workers.
2. Oversee and train BN staff on standard protocols for the stabilization and handling/packaging of urine samples for shipment to LLNL.

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Responsibilities

Scientific – Dr. Terry Hamilton, LLNL, or his designee will have responsibility for all scientific aspects of the mission.

The DOE Office of Health Studies' representative, William Jackson, will have the overall authority for the mission. The senior Bechtel Nevada (BN) representative will be responsible for logistics and, in the absence of the DOE's representative, will exercise limited responsibilities over the total mission.

Transportation

BN will coordinate all transportation, including the use and scheduling of the USAKA 1900D and GREAT BRIDGE.

Tasking Letter or Instructions

- Lawrence Livermore National Laboratory (LLNL) to DOE/EH (dated January 29, 2002)
- LLNL to BN (dated January 29, 2002)
- DOE to BN (dated January 29, 2002)
- BN to Majuro Representative & Kwajalein Coordinator (February 22, 2002)
- DOE to U.S. Kwajalein Atoll (USAKA) (February 22, 2002)

Attachments

- Mission Schedule
- Personnel Travel Matrix

MARCH 2002

DOE/LLNL ENVIRONMENTAL/URINALYSIS MINI-MISSION

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22 LLNL/BN depart Hono	23 LLNL/BN team arrive Kwaj
24	25 LLNL/BN team depart Kwaj on Great Bridge	26 Great Bridge arrives Bikini Mission at Bikini	27	28	29	30
31						

February

S	M	T	W	T	F	S
			1	2		
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

April

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

APRIL 2002

DOE/LLNL ENVIRONMENTAL/URINALYSIS MINI-MISSION

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Yamaguchi to Kwajalein	2 Yamaguchi at Kwajalein	3 Yamaguchi to Majuro	4	5 1900D Bikini to Enewetak Great Bridge to Kwajalein Pu Collection at Majuro Pu Mission at Enewetak	6 Great Bridge arrives Kwajalein
7	8 Stuart departs Kwajalein to Honolulu	9	10	11 Hamilton to Majuro	12	13
14	15 Hamilton/Yamaguchi to Honolulu Pu Mission complete at Majuro	16	17	18	19	20
21	22	23 BN staff Enewetak to Kwajalein via 1900D	24 BN staff to Honolulu	25	26	27
28	29	30				

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Personnel Schedule

Department of Energy
 DOE/LLNL Mini-Mission (Lysimeter) - Bikini Atoll
 DOE/LLNL Mini-Mission (Pu Collection) - Enewetak Atoll
 March 25 - April 15, 2002

March

Date Line

Date Line

		HNL	KWA	BIK		KWAJ	MAJ	HNL
		In - Out	In - Out	In - Out		In - Out	In - Out	In - Out
DOE	None							
LLNL	<u>HAMILTON, Terry</u> <u>STUART, Marshall</u>	21 - 22 21 - 22	23 - 25 23 - 25	26 - 26 -				
BN	<u>HONDA, Judith</u> <u>GILES, Richard</u> <u>OLIVAL, Wayne</u> <u>LORENNIJ, Ringo</u> <u>TIBON, Steven</u> <u>AISEIA, Matt</u> <u>LAIBO, Leme</u> <u>RIKLON, Jasper</u>	- 22 - 22 - 22	23 - 25 23 - 25 23 - 25 23 - 25 23 - 25 - 25	26 - 26 - 26 - 26 - 26 - 26 -				at Bikini at Bikini

Personnel Schedule

Department of Energy
 DOE/LLNL Mini-Mission (Lysimeter) - Bikini Atoll
 DOE/LLNL Mini-Mission (Pu Collection) - Enewetak Atoll
 March 25 - April 15, 2002

April

Date Line

Date Line

		HNL	Date Line					HNL
		In - Out	KWA	BIK	ENE	KWA	MAJ	In - Out
DOE								
LLNL	HAMILTON, Terry STUART, Marshall			- 5 - 5	5 - 11		6 - 8 11 - 15	15 8
BN	YAMAGUCHI, Lance HONDA, Judith GILES, Richard OLIVAL, Wayne LORENNIJ, Ringo TIBON, Steven AISEIA, Matt LAIBO, Leme RIKLON, Jasper	- 1	2 - 3	- 5 - 5	5 - 23 5 - 23	23 - 24 23 - 24	3 - 15 6 - 8 8 6	15 24 24 at Bikini at Bikini at Bikini at Bikini