

**BROOKHAVEN NATIONAL LABORATORY**  
**ASSOCIATED UNIVERSITIES, INC.**  
 UPTON, L. I., N. Y. 11973  
 TEL. AREA CODE 516 YAPHANK 4-6262

REFER:

MEDICAL DEPARTMENT

November 25, 1968

Dr. John R. Totter, Director  
 Division of Biology & Medicine  
 U. S. Atomic Energy Commission  
 Washington, D. C. 20545

Dear Dr. Totter:

In regard to the return of the Bikini people to their home island the Committee of which I was a member, in passing on the radiological safety of this move recommended that the returning people be checked at intervals for internal absorption of radioactive materials as an added safeguard to their safety. As a preliminary measure we are collecting urine samples on the Bikini people now at Kili in order to obtain base line information. When the people return it will be necessary to carry out gamma spectrographic analyses and urine assays on individuals at Bikini. Such analyses should be carried out soon after the people are returned and at intervals of a year or two thereafter. We feel that this procedure can most logically be carried out, at the same time that the examinations are done on the Marshallese people visiting Bikini on the way to Rongelap. The same electronic equipment could be used for both groups. A lead shielded set-up is required for this analysis and since the shielding lead weighs 6 tons it is recommended that a permanent set-up similar to the one already at Rongelap, be established on Bikini. The building housing this equipment can either be constructed in conjunction with the dispensary, where it could be used between surveys by the health aide, or a separate building could be established.

The general specifications recommended are as follows:

Building Plans: The attached drawing shows the recommended size of the building and rooms which includes a waiting area, area for shielded counter and electronic equipment, and dressing and shower room facilities.

Floor: A 4" concrete slab floor is necessary to support the lead bricks. The concrete should be made from sand brought in from non-contaminated areas (not from Bikini atoll).

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 BOX No 1227, "ERDA # 2"  
BIKINI SURVEY (BIO-MED)  
 FOLDER January - 1969

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Water: The building should be near the lagoon so that salt water may be pumped to the building for showers of persons to be counted. In addition a roof catchment with a 250 gallon tank should be available to provide a fresh water supply.

Generator Shed: A 10 x 10 foot generator shed for housing of 2 5 KW diesel generators, located at least 50 feet from the building. The electric wiring of the building will be handled by our group.

It is suggested that we notified by the Trust Territory as to when and where to ship the 6 tons of lead bricks so that they can be hauled to Bikini along with other building supplies. It is suggested that these be bricks be stacked within the building out of the weather.

Sincerely,

Robert A. Conard, M.D.

RAC:jr  
encl.

cc: Mrs. R. Van Cleve  
The Honorable W. R. Norwood  
AEC Nevada (J. E. Reeves)  
AEC Honolulu (W. A. Bonnet) ✓  
AEC Brookhaven (E. L. Van Horn)  
Dr. V. P. Bond  
Dr. E. P. Cronkite  
Col. A. A. Gomes