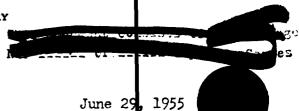
UNIVERSITY OF CALIFORNIA

LOS ALAMOS SCIENTIFIC LABORATORY (CONTRACT W-7405-ENG-36) P. O. Box 1663 LOS ALAMOS, NEW MEXICO



IN REPLY REFER TO:

H-6-77

Commanding Officer U.S. Naval Radiological Defense Laboratory San Francisco 24, California

Attention: Ir. C. F. Ksanda

Dear Mr. Ksanda:

05378

In view of the present diversity in the models and methods used by various organizations to compute radioactive fallout patters, it is considered desirable that operational forecasting for REDWIIG should not be limited to a single model and method. At the suggestion of Dr. Graves, I am inquiring about methods that can be counted upon to be proven in for operational feasibility at the start of PEDWING. | During TEAPOT, we depended considerably on telephone communication and IBM Model 701 calculations. Experience indicates that at Eniwetok. telephone communication to the mainland cannot be relied upon at critical hours. Teletype communication should be adequate for the use of one method of forecasting based in the Z.I., but we expect to rely mainly on analog computers in the forward area, backed up by hand-calculation methods.

As you are doubtless aware, the main requirements for an operational method are:

- (1) It should produce at least one isodose contour within an hour of receipt of a wind forecast. AN BRUNO FRC
- Errors inherent in the method should be less than those arising from other sources (e.g. wind and yield forecasting errors).
- (3) It is very desirable that the method should not require more than one man in the forward area.

The plans for fallout prediction at BEDETIG are still fluid. If jou have a suitable method, and would like to participate, I would appreciate

181 AGENCY NROL ortunity to discuss the matter further.

SAN BRUNO FRC Location

Access No. 181 60B 637 BDX 10F 3

Redwind Folder #11

Distribution:

cy la C. Esanda - C. 2034 Mail & Records

h. Rapp

A. Graves F-6 file

21

