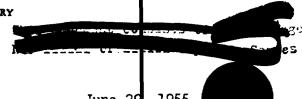
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UNIVERSITY OF CALIFORNIA

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



IN REPLY REFER TO:

H-6-77

June 29, 1955

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

05379

Attention: Ir. C. F. Ksanda

Dear Mr. Ksanda:

In view of the present diversity in the models and methods used by various organizations to compute radioactive fallout patterns, it is considered desirable that operational forecasting for REDWING 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 MEDWING. During TEAPCT, we depended considerably on telephone communication and 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.

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- (2) 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 REDMHIG are still fluid. If jou have a suitable method, and would like to participate, I would appreciate carresportunity to discuss the matter further.

RG 181 AGENCY REDECTUNITY to discuss the metter further.

Location SAN BRUNO FRC

Access No. 181 608 627 Box 10f 7
Folder All Redwing

Tau-Aug 1955 Thirtg

Very sincerely yours,

BEST COPY AVAILABLE

Thomas M. White, Leader
Hadiological Physics Group
Health Division

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