

MARSHALL ISLANDS FILE TRACKING DOCUMENT

Record Number: 82

File Name (TITLE): Letter

Document Number (ID): 59604

DATE: 7/1952

Previous Location (FROM): CIC

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Additional Information: _____

OrMIbox: 5

CyMIbox: 3

22 July 52

59604

Dear Dr. Felt:

I hope you will excuse this informal note, but I just arrived in Washington & received your letter and I want to thank you personally for it.

I want to give you an advance bit of information that may not be present in the Rad defense report. A careful study of the monitor logs indicate the following, which I believe is significant:

(1) In all cases the maximum intensity of fall-out occurred between 2 hrs and $2\frac{1}{2}$ hrs after H-hour. If we use Stokes' Law and assume the particles came from 35,000 ft. then this gives us a peak particle size of 125 μ . which is amazingly close to the 125 to 150 μ range that you mention in your letter.

(2) Instead of using an average wind and trying to estimate the radial distance of this max. from zero point the fall-out plot as prepared by Col. Spohn was used and the max was assumed to occur on the $2\frac{1}{4}$ hr line. This also

gave results that were amazingly accurate.

It is my contention that if we have an analysis of the soil, then by using a simple fall-out plot we can determine not only the radial distance of the maximum from zero point but also the direction of the max from zero (both r & α).

I am now working on the possibility of determining the intensity of the maxima and I believe that it can be solved. When I get any definite information on this matter I will be happy to pass it on to you for your information.

When you do get a copy of the curves for Tumbler/Snapper that you mention in your letter I would be very happy to get it. My present address is

MAJOR N.M. LUKESIAN

Hq. A.R.D.C.

5 BALTIMORE ST.

BALTIMORE, MD.

Sincerely

N.M. Lukesian