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March 23, 1954

Dr. Walter D. Claus
Division of Biology and Medicine
United States Atomic Energy Commission
Washington, D. C.

Dear Walter:

Would it be possible to have us put on the Weather Bureau mailing list for the current trajectories of the present series of tests, if and when issued? They, of course, are intended for the use of Harry Moses and Glenn R. Hilst of our Meteorological Section.

We have had no fall-out sufficiently high to report on the basis of the TWX reports which call for levels of five times normal background. However, I'm sending the following data just in case you are interested.

Rain ended 3/13; 650 $\mu\text{c/l}$ per liter (\ominus 3 days, i.e. 3/16)

Rain from 2150 - 3/18 to 0330 - 3/19; 850 $\mu\text{c/L}$ (\ominus 3 days)

Air - meteorology tower - 0900 - 3/17 to 0900 - 3/18; 1.5 $\mu\text{c/M}^3$ (\ominus 3 days)

Air - meteorology tower - 0900 - 3/18 to 0900 - 3/19; 1.5 $\mu\text{c/M}^3$ (\ominus 3 days)

Although all these samples were hardly above the normal radon backgrounds when initially counted, i.e., the immediate count, the above "long lived" component is about 10 times higher than normal; for instance, air is usually $< 0.1 \mu\text{c/M}^3$ at 3 days.

We have a little more additional data in more detail if you need it.

Best regards,

Sincerely,

J. E. Rose
Director
Radiological Physics Division

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Department of Energy
Materials Office
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cc: <u>ES DOE ARCHIVES</u> <u>Reading File</u>
RG <u>326 US ATOMIC ENERGY</u> <u>COMMISSION</u>
Collection <u>DBM Files</u>
Box <u>J-1194 B-1</u>
Folder <u>CASTLE - Air, Water, Soil, etc</u> <u>Concentrations</u>

STATUS VERIFIED UNCL
BY Jose Diaz DATE 5/14/81

NON-CCRP

March 29.

Hansen Blatt can't report rain-out higher than normal at Brookhaven.

From a normal rain, they observe from 1 to 2,000 disintegrations per square meter per day. (He thinks this is obtained by collecting the rain in a tray and evaporating to dryness.)

Saturday, March 20th, the rain resulted in 20,000 d/m²/day.

Friday, March 26th, the rain resulted in 55,000 d/m²/day.

F.W.