SINGLE REVIEW AUTHORIZED BY: AA SINJEGALL 11/24

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MI KOLBAY

DETERMINATION [CIRCLE NUMBER(S)]

1. CLASSIFICATION (CIRCLE NUMBER(S))

2. CLASSIFICATION CHANGED TO:

3. CONTAINS NO DOE CLASSIFIED INFO

4. COORDINATE WITH:

5. CLASSIFICATION CANCELLED

6. CLASSIFIED INFO BRACKETED

7. OTHER (SPECIFY):

US DOE ARCHIVES 326 U.S. ATOMIC ENERGY COMMISSION

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DOS ARCHIVES

- (6) Either 110 power or a portable generator available inside the shelter during installation of the instruments. You will not require power or time signals for the operation of the instruments.
- (7) You will not have any requirements for labor crews.

In addition to the above, I want to bring you up to date on the latest plans of the test organization, and to ascertain what effect these changes may have on your operations.

On September 29, the subcommittee (consisting of George Lercy, H. Andrews, and Lt. Comdr. Gronokite) of the Rio. Med. Test Screening Committee met here in Mashington to consider in detail the proposed Biological experiments. At this same meeting, Bob Corsbie outlined the plans for the shelter test, etc.

Present planning seems to indicate that it would be desirable to test the shelter in Fuece Flat completely independent of the Military Effects Program. It would probably be subjected to at least two tower shots. The first shot to be on or about March 1, designed primarily to give the blast pressures necessary to test the structural characteristics of the shelter. The second tower shot would probably give a higher neutron yield and gamma ray dose. Probably the neutron doses (as measured by sulpher) would be of the order of 109 to 1010 M/cm² inside the shelter. These neutron levels would be the minimum range that could be detected by the mice.

Dr. Leroy pointed out that the neutron levels we quote are based on Cd-gold and sulpher measurements. The Cd-gold technique does not measure much above .2 ev, and the sulpher technique does not measure anything below 3 MEV. Therefore, there is a gap between 2 ev. and 3 MEV that is not being measured. There is evidence from the Greenhouse work to indicate that there is biological damage which is believed to be from the neutron in the range. We have requested that copies of the Greenhouse report and the Shelter Test report be sent to you, and they should be there within the next few days.

As you can see from this letter, things are beginning to shape up to a point whereby we should be able to give you the distance from the bomb, expected radiation doses, etc. within the next few weeks.



Dr. G. Failla

We have discussed the question of repeating Bill Chambers' experiments, and since AFSWP has not entirely shut the door on this program, we don't believe there is much we can do until the Military makes up their minds.

As soon as we get more definite information regarding shelter location, etc., we will pass it on to you.

Very truly yours,

L. Joe Boal Radiation Instruments Branch Division of Miology and Medicine

CC: R. L. Corsbie Dr. Bugher

