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**Office Memorandum • UNITED STATES GOVERNMENT**

TO : Dr. Shields Warren

DATE: 6 June 1951

FROM : N. E. Tolbert

403884

SUBJECT: Mice from Operation Greenhouse.

Attached is a letter from Dr. Furth listing the condition of the mice which he has received from Operation Greenhouse. Dr. Furth has indicated that he had expected to receive 250 KV controls in addition to the stress controls. Arguments for the irradiated controls are determining the LD 50 for this strain of mice, additional studies on longevity, and pathological changes.

Dr. Zelle states that at the meeting in the fall of 1950 in Oak Ridge when this program was discussed it had been indicated that X-ray controls would be sent back from Eniwetok. Dr. Zelle and Dr. Brandt at the time expressed objections to these controls on the basis that the mice from the shot would not have received known dosage.

Dr. Cronkite visited Dr. Furth about June 1 on his way back from the Pacific and has discussed the X-ray controls with Dr. Dunham. Dr. Cronkite points out that they do not know what type of radiation and what dosage these mice received. The biological dosimetry experiments are apparently going to disagree with each other. This is probably due to the shielding received from the various containers and also biological variations. There was a lot of soft radiation from the bombs which was partially shielded by the aluminum containers.

From the results of the work at Eniwetok we will know the LD 50 of this strain of mice in terms of a 250 KV machine and in terms of the bomb. This latter value is more important to the mice that Dr. Furth now has than those from X-ray work.

Additional X-ray controls to be run by Dr. Furth would be more of the nature of a whole new research project dealing with pathological changes and longevity of X-radiated mice. Drs. Leon Jacobsen and Lorenz have X-ray longevity studies now in progress but with a different strain. Additional studies may be desirable but this is a separate decision than that of the necessity of X-ray controls for the Greenhouse mice.

CC: Dr. Dunham

MILITARY RESEARCH & APPL - ?

*We feel not Greenhouse  
a suitable JH 882  
their hands a  
plenty full*