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Contract #7405-eng-26
OAK RIDGE NATIONAL LABORATORY
 OPERATED BY
CARBIDE AND CARBON CHEMICALS DIVISION
 UNION CARBIDE AND CARBON CORPORATION

DEC
 POST OFFICE BOX P
 OAK RIDGE, TENN.

403885

May 28, 1951

OPENNET ENTRY	
<input checked="" type="checkbox"/> Authorized for Public Release	By: <i>B. J. G. G. G. G.</i> Date: <i>7/11/95</i>
<input type="checkbox"/> Not Authorized for Public Release	By: _____ Date: _____

Dr. George V. LeRoy
 Radioisotope Unit
 Veterans Administration Hospital
 Hines, Illinois

BEST COPY AVAILABLE

Dear Doctor LeRoy:

This is the arrival report on Operation Greenhouse animals. The animals were unloaded on Monday, May 21. A total number of mice received and transferred into individual cages with identity maintained is as follows:

Unshielded; Easy	2,192
Neutron; Easy	151
George	132
Non exposed; stress control	<u>620</u>
TOTAL	3,095

Two trays, involving a total of 240 animals of Stations 71 A & B, were upset before arrival. 212 of these animals were caught, and their further identity is lost except for age designation. They will be handled as unknowns of exposure groups 71 A & B. 39 mice of 71 A and 147 mice of 71 B arrived with identity maintained.

A very few of the animals appear in poor condition; the bulk is in excellent health.

The approximate loss since the loading of the airplanes until today is as follows:

	<u>No. in Group</u>	<u>No. Lost or Dead</u>	<u>% Lost</u>
Unshielded exposure at or above LD-50	384	19	4.9
Unshielded exposure below LD-50	1808	13	0.7
Stress Controls	632	2	0.3
Neutron	285	8	2.9

DEPARTMENT OF ENERGY DECISION REVIEW	
SINGLE REVIEW AUTHORIZED BY <i>BR</i>	DATE: <i>11/10/94</i>
REVIEWER (ADD): NAME: <i>W. L. ROY</i>	DATE: <i>11/10/94</i>
1. DETERMINATION OF (R) (U) (S) (C) (E) (O) (P) (R) (E) (S) (I) (O) (N) (S) 2. CLASSIFICATION AUTHORITY 3. CONFIDENTIALITY INFORMATION 4. CONTROL INFORMATION 5. COORDINATION WITH 6. CLASSIFICATION CANCELED 7. UNCLASSIFIED INFO BRACKETED 8. OTHER (SPECIFY):	

This shows a definite relation of the loss to the exposure intensity.

The major problem at present is to construct individual lids for every cage and fasten lids securely. To have one lid for 6 cages, which has to be lifted to feed the animals, is a constant grave hazard since the identity of the animals is only marked on the cage. The individual lids will be completed and attached within a few days.

We note that for reasons of expediency 250 KV controls were omitted. Since this would mean relatively little supplementary expense, we should like to set this up here if animals of the same stock are still available in the very near future.

We propose: (A) To expose batches of 125 mice of one sex at 2 dose levels below the LD-50 and keep one batch of unexposed mice for controls. (B) For the cataract series we should like to match every other station with an equal number of animals exposed here to X rays, calculating the dose on LD basis. This would mean the addition of 600 to 1,000 mice to those already here. If this plan meets with your approval, would it be possible to arrange breeding of these animals at Bethesda and send them to us immediately after weaning?

Sincerely yours,

JACOB FURTH

JF:jd

cc: Dr. McCrady
Dr. Tolbert
Dr. Langham
Dr. Cronkite