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ARMY SERVICE FORCES
UNITED STATES ENGINEER OFFICE
MANHATTAN DISTRICT
OAK RIDGE, TENNESSEE

IN REPLY REFER TO

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CLASSIFICATION CANCELLED
DATE JUN 7 1965
For the Atomic Energy Commission
ROBERT L. JACKSON for the
Chief, Declassification Branch

EIDMT-1

28 February 1946.

Subject: Present Research Program.

MEMORANDUM to the District Engineer, Manhattan District, Oak Ridge, Tennessee. (Attn: Col. Peterson)

1. Research in various phases of Manhattan Engineer District Medical Section has progressed in the following institutions: University of Chicago, University of Rochester, University of California, Clinton Laboratories Oak Ridge, Tenn., Biological Foundation of the Franklin Institute, Newark, Delaware, Cancer Research Laboratory of Columbia University and University of Washington at Seattle.

2. Research studies include hematologic, histologic, biochemical, biophysical, toxicologic and pathologic methods of investigation.

3. University of Chicago. *Acute and chronic studies on experimental animals (rats, mice, guinea pigs, dogs, etc.) of the injection and ingestion of uranium compounds.

*Acute and chronic studies of the effects of radium, plutonium, fission products, beta and gamma rays on similar animals.

Research on radiation instruments required by biologic investigation and health program.

4. University of Rochester. *Acute and chronic studies on animals of the effects of beta and gamma radiation (250,000 - 1 million volts) with the view to fixing more definitely radiation tolerance levels.

Toxicity studies with similar experiments on the effects of uranium compounds, radium, polonium, and fluorocarbons.

Special study on radiation instruments required by biologic investigation.

5. Cancer Research Laboratory of Columbia University. Studies on the effects of fast neutrons on mice at different dose levels.

Research on special instruments for estimating neutron intensity primarily for biologic purposes.

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6. Biological Foundation of the Franklin Institute, Newark, Delaware. Studies on the effects of fast neutrons at different dose levels on dogs.

7. University of California at Berkeley.
*Acute and chronic studies in experimental animals of the distribution and metabolism of fissionable materials, fission products and heavy isotopes of uranium, plutonium, neptunium, etc.
Studies of decontamination of plutonium exposures.

8. University of Washington at Seattle.
Studies on possible pollution of the Columbia River by fission products and the resultant effects on fish (primarily salmon)
Studies of external radiation effects on fish including acute lethal effects and chronic studies involving growth, reproduction and mortality rates.

9. Clinton Laboratories, Oak Ridge, Tenn.
Studies of fast neutron effects on animals. Studies of beta ray effects on animals. Special instrument and industrial research particularly as applied to biologic and health physics problems.

10. Criteria for these studies and their evaluation are obtained by the investigation of biologic effects on the metabolism of the various systems of the animal organisms.

*Acute studies are those of less than 30 day duration.
Chronic studies are those of 30 day - 18 mo. duration.

B. M. BRUNDAGE,
Captain, M.C.