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FOLDER J.S.R. - Con. Sept. 30, 55

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The Medical Research Center

Brookhaven National Laboratory

Upton, L. I., New York

June 28, 1956

Dr. Lee E. Farr

J. S. Robertson

BEST COPY AVAILABLE

Our quarterly progress report is attached. There are several things underway which I would like to mention for your information but which aren't appropriate for the quarterly report at this time:

1. Neutron Dosimetry by Photographic Film

A modification of the photographic film neutron monitoring technique is being investigated, in cooperation with the U. S. Naval Radiological Defense Laboratory. Special exposure and minimum development procedures are combined with densitometric measurements of the exposed field, as contrasted to track counting methods.

2. Europium-155

Two samples activated at the Brookhaven National Laboratory reactor are being studied and the feasibility of getting activations achieved at the MTR is being explored.

3. Cobalt-60

A replacement Co-60 source for the 10^6 r/hr. microbiological device has been constructed and an application for its activation at the MTR has been submitted.

4. Three-compartment Paper

The manuscript has been accepted by J. Lab. Clin. Med. and I am working on making certain revisions, etc., requested by the editor.

5. Exchangeable Water in Children

A manuscript reporting studies conducted with Dr. James is being prepared for publication.

6. Lethal Effects Review

Dr. Bond and I have been asked to prepare a review article to be entitled "Vertebrate Radiobiology (Lethal Actions and Associated Effects)" for Annual Review of Nuclear Science. This will cover material through the end of 1956.

7. Tracer Theory Review

Physiological Reviews has asked me to prepare a review of the uses of mathematical models in biological studies. This is in the field of my strongest interests and I would like to be able to spend quite a lot of time on it.

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