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March 22, 1960

Dr. Charles Falk

Dr. R.E. Stickley

Medical Research Reactor: March 1960

Analysis of neutron and gamma ray output of the MRR is being carried further for both personnel protection and research applications. A special point is the determination of the levels of fast neutron flux passed by the shutter in its closed position. Techniques rely principally on foil activation and ionization chamber methods for both shielded and for tissue equivalent situations.

Preliminary experiments for radiation effects in tissue by in situ activation of metallic implants have been started. In conjunction with the dosimetric aspects of this work, the activity induced in normal tissue itself by reactor radiations is being analyzed. A specialized problem related to this field is just under way for evaluation of the influence of neutron exposure on visual response of the eye, as analyzed by electroretinographic procedures.

cc: Dr. L.B. Farr

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