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June 22, 1960

Dr. C.E. Falk - Directors Off.

Dr. E.E. Stickley

ABC letter: June 1960

Medical Research Reactor

Permission has been received for operation of the MRR at a power level of 5 megawatts for brief periods. In measurements to date, there is no essential deviation from linearity in either output or neutron-to-gamma ratios throughout this power range, although periodic calibration of neutron flux at the irradiation apertures is now a more critical need.

Operation at this level is being used to gain the best advantages accruing from short irradiation times. Two patients have been treated with the new conditions and continue under observation in the hospital of the Medical Research Center.

Other work being continued includes the experimental treatment for control of tumors implanted in thigh muscle of the mouse and the further study of physical characteristics of the useful reactor radiations.

The latter work is to establish neutron spectra and intensities by scanning induced activities in rapid sequence using 100-channel pulse-height analyzers.

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