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Jan-March 53Steinfeld

## Publications

Stickley

The Medical Experimental facility on top of the Reactor has been redesigned and put into work. The new facility is expected to provide a higher useful flux, and will incorporate a shutter to allow use for medical experiments without requiring pile shut-down for preparation. Other features are included to lessen the preliminary handling of the removeable shielding blocks. The W-15 facility was used to test the neutron reflecting and absorbing properties of materials considered in the new design.

Standardization experiments have been run to normalize neutron flux values obtained in the phantom head exposures. The exposure site at facility W-15 was included in the program, to allow correlation of experiments at the two sites. Neutron ioc-dose contours have been developed on this basis showing the flux distribution throughout the head during treatments. The gold wire in vivo measurements are being correlated with this data.

Robertson

Preliminary results with revised tritium method are being obtained.

Accumulated data on the Sodium Equilibration studies in nephrotic children is being prepared for publication.

Publications: Chloride papers with Gamble  
Cobalt Source report  
Potassium paper with Tosteson

The Medical Research Center  
Brookhaven National Laboratory  
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