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MONTHLY STATUS AND PROGRESS REPORT

407677

AUGUST 1953

PART II

(Including Sections A, B, and C)  
Top Secret Appendix Under Separate Cover

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September 11, 1953

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## BIOLOGY AND MEDICINE

### RESEARCH

#### Biophysics

Theoretical Physics - An age theory calculation was made of the neutron spectrum at 1500 yards from a fission neutron source in an infinite medium of air. The result is in good agreement with the threshold measurements made by G. S. Hurst at 1500 yards from Shot No. 1 of the spring test series, 1953. The calculation is being repeated, using a modification of the age theory.

Consultation and Special Problems - A detailed justification of the fencing for the Tower Shielding Reactor was prepared, based on direct radiation estimates. Also, calculations were made of the potential airborne hazards associated with two types of catastrophe for this reactor.

Professional Health Physics Training - The twenty-one AEC Fellows in Radiological Physics completed their field training in Applied Health Physics August 28. Eight of the Fellows were granted extensions of the fellowship to complete the requirements for the Master's degree.

#### Medicine

Cobalt Teletherapy - A small cobalt teletherapy unit has been installed in the Medical Division of ORINS for testing. It has been loaded with a small cesium source for the first phase of the testing program; it will be loaded with a 300-curie cobalt source in about a month.

#### General

Exhibit - The Exhibits Division of ORINS closed its "You and the Atom" traveling show at Riverview Park in Chicago on August 8. The show had opened May 20 and was viewed by more than 331,000 persons. "You and the Atom" was shown at the Illinois State Fair in Springfield August 14-23, and was attended by approximately 750,000 persons.

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