

BIOLOGIC & HEALTH PHYSICS RESEARCH

New Program being Organized

June 10, 1947

RHTG BOX # ~~38566~~ 38566⁷
~~215~~ 215

Considerable time and effort has been spent in designing laboratories and ordering equipment for the Biologic Research Building at Unit #5. It had been anticipated that some work in biologic research could be done in temporary quarters before moving to the permanent site. However, it was not until the latter part of March 1947, that space was obtained in a warehouse. Construction of laboratories for biochemistry and pathology, counting and animal rooms is progressing at a satisfactory rate. Personnel have been hired sufficient for our present quarters. More will be necessary for Unit #5. Supplies have been ordered but delivery on some items has been very slow. The Health Physics Research Section has made some monitoring equipment for the neutron work in addition to activity counters and miscellaneous counters for the Biologic Research Group.

Funds spent from November 20, 1946 to May 21, 1947, are listed below. This does not include cost of animals, animal cages and salaries of personnel who recently joined the group. The payroll is not a true picture since the personnel were added at different times during the above period.

FOLDER HAE # 45	BOX NO. RHTG Box # 215	COLLECTION DRC # 38,566	REPOSITORY Oak Ridge Operations Records Holding Center	Material & Supplies	14,365.56	BEST COPY AVAILABLE
				Travel	231.15	
				Telephone & Telegraph	121.42	
				Gas, Electric, and Water	198.54	
				Freight	43.45	
				Payroll	16,400.75	
				Discount (Income)	218.24	
				Rent	35.00	
				Interview Expenses	295.34	
				Moving Expenses	32.16	
				Medical Expenses	217.40	
				Construction	15,455.98	
				Health Physics Research	10,000.00	
				Total		

A tentative program for biologic research in the temporary quarters and Health Physics Research includes the following problems:

1. Biologic effects of acute exposures to "Q" and "Q" compounds by intravenous and parental administration as well as skin absorption. The LD50 in rats, mice, chicks, and rabbits will be determined. Mechanism of action, correlation of excretion levels with visceral content will be studied.

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Classification Changed to UNCLASSIFIED

By Authority of DAR-1
Classification Authority

By R. V. Anderson, Analyses Corp. 11-8-90
Date

T. Davis 11-9-90

[REDACTED]

2. Study of prophylaxis and therapeutics of ⁹⁰Sr toxic affects. Dietary and metabolism studies as well as affect of various compounds will be investigated in animals given ⁹⁰Sr at various levels.

3. Measurement of ⁹⁰Sr in tissues, especially kidney and lungs to determine maximum permissible levels for these organs.

4. Biologic effects, methods of measurement, and protection against radiation from special neutron sources prepared at Dayton.

5. Study of maximum permissible levels for ⁹⁰Sr for waste disposal. Agricultural research in plants and soil.

6. Development of continuous and other monitoring equipment.

7. Studies in prevention of contamination and decontamination.

Proposed budget for July 1947 to July 1948, for Biologic and Health Physics Research is listed as follows:

Salaries (Biologic)	75,000
Material, Supplies and Equipment	50,000
Miscellaneous Expenses	30,000
Health Physics Research	
Salaries	10,000
Instrument Research Work	75,000
Total	<u>\$240,000</u>

It must be emphasized that only acute type of experiments can be done in the temporary quarters. Chronic experiments cannot be done since provisions have to be made to conduct this type of work in the permanent quarters which are slated to be ready in about a year. The personnel have to be trained in the techniques of handling ⁹⁰Sr. This will involve a repetition of some of the work done at the University of Rochester. Experimental work with some of the larger species of animals cannot be done nor are inhalation experiments feasible in the temporary quarters.

In addition to the health and psychological aspects of animal work, this latter experimentation can be expected to form a basis for future animal studies which should prove applicable to the livestock industry and effective in certain human health problems, particularly cancer.

Considerable interest has been shown by the personnel at Dayton concerning biologic research. They are willing to cooperate in every way possible since they feel that research in this field will aid them in avoiding the potential hazards in handling the products made at Dayton.

J. L. Svrbely

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Distribution:

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 Chief, Medical Division
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