



RHTG # 47,649

Unclassified extract  
from INTRODUCTION

BOX # 303

407789



1. The statement of key program assumptions set forth herein is to be used as a planning guide by the Managers of Operations and other Commission personnel in developing detailed obligational requirements for the fiscal year 1951.

2. The program assumptions are designed to be a realistic projection of the scope and level of major Commission activities in 1951 and 1952. The stated assumptions, however, do not represent either final decisions or the authorization of particular activities, projects or schedules. The assumptions, while prepared primarily for budget planning purposes, will correspond to those currently being used for operational planning as well.

3. The level of wage rates, prices and construction and equipment costs prevailing during 1951 and 1952 is assumed to be the same as that in the first quarter of calendar year 1949.

4. "Service Medicine" and "Service Health" or "Radiation Control" will not be included in the 600 budget for 1951. Each program budget will provide for this service under the operation to which it is related. The procurement of radiation detection instruments will continue on a decentralized basis, therefore, each Operations Office will budget for its own requirements under the using program.

REPOSITORY OAK RIDGE National LAB.  
COLLECTION PUBLIC READING Room  
BOX No. 303  
FOLDER NOT SPECIFIED

BIOLOGY AND MEDICINE (600)

Scope

1. To develop research on the application of the products of atomic energy to human diseases, including cancer.
2. To stimulate research on the protection of animals and food crops from the injurious effects of radiation as well as to exploit in the biologic field the benefits that may be obtained by radiation-induced alterations.
3. To develop research on problems of detection and control and handling of radioactive materials, and the protection of personnel coming in contact with radiation hazards.
4. To develop a training program, including fellowships, to increase the pool of trained personnel and overcome the critical shortage in these fields.
5. To develop, as a staff responsibility, a program of "Service Medicine" for the maintenance of the health of employees at Commission facilities and for the safeguarding of the health of adjacent populations. (See "B" below for explanation.)
6. To develop, as a staff responsibility, a program of "Service Health" or "Radiation Control" for the protection of personnel from hazardous radiation, including a program of personnel monitoring, development of exposure standards, and control of radioactive contamination. (See "B" below for explanation.)

A. Program 600 - Categories to be Used in Budget Submissions and as a guide in preparing Program Assumptions

Sub-Program 610 - Production (Isotopes)

Isotope production is to be budgeted under sub-program class 610. Under sub-program class 620 funds will be budgeted for the securing of isotopes for research and for free distribution under the cancer program on a reimbursable basis.

Sub-Program 620 - Research and Development

Medicine - Research program at Commission Laboratories and conducted at private institutions through Direct Contracts is to be itemized by contract and explained.

Cancer - Identifiable cancer activities to be itemized, and other contracts to be listed with a pro-ration for cancer work.

Isotope Distribution - Oak Ridge only. (cancer program)

Biology - See Medicine above.

Bisphysics - See Medicine above.

Special Training - (1) All on-the-job training costs are to be itemized; (2) All formal training courses, educational conferences and seminars are to be itemized and explained; (3) All exhibits, films and related activities to be listed and explained.

Sub-Program 630 - Plant and Equipment

Only that construction directly related to the Biology and Medicine program should be carried under Program 630. Other incidental construction will be carried under the budget of the Division which in each instance has over-all primary laboratory responsibility.

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B. General Explanation

It should be noted that the categories "Service Health" and "Service Medicine" have been dropped from Program 600. Such activities in the future will be included as part of the various program costs (i.e. monitoring cost for biology activities of Carbon Carbide would be included in cost of biology program; such expenses would also be included as costs of activities in Programs 400, 500, etc., when applicable). However, under the justifications of the various programs, the number of staff involved, and the total direct costs of such services should be explained. Periodic reports of such activities, including costs, will be required for staff review by Division of Biology and Medicine, and accounting reports should take cognizance of this requirement.

620 - Research and Development

Oak Ridge Operations Office

Isotope Distribution Program

\$450,000 annual level. (free distribution under the cancer program)

University of Tennessee Contract

Maintain an operating level of \$200,000 annually, subject to program review.

Oak Ridge Institute of Nuclear Studies

1. Maintain a training program in the basic techniques of use of radioactive isotopes.
2. Develop a clinical cancer research program concerning the application of the products of atomic energy to cancer research, including diagnosis and treatment. Annual level of \$400,000.

Monsanto-Chemical Company Contract

\$200,000 annual budgetary support.

Carbon and Carbide Contract

1. Study the fundamental effects of radiation on inheritance in biological material and on metabolic processes in plants and animals.
2. Study the characteristics of animal and plant tissue in relation to toxicity to and accumulation of specific radioactive substances.
3. Study the potentialities of utilizing certain stable isotopes in physiological research.
4. Function as a service and advisory unit to other research agencies in applicable instances.
5. Participate in the Clinical Cancer Research Program of ORINS.
6. Studies on detection and measurement of radiation.
7. Annual budgetary level to be at approximately the present level of \$2,200,000 subject to review of program requirements and adjustments within the total amount approved for the over-all contract operations.