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December 22, 1952

Francis Scott Smyth, M.D., Dean
University of California School of Medicine
San Francisco, California

Dear Dean Smyth:

I am transmitting herewith seven copies of the proposed budget and program of the Radiological Laboratory for the period July 1, 1953 to June 30, 1954. This is an extension of Contract AT-11-1-GEN-10, Project No. 2, with the Atomic Energy Commission. This proposed budget and program is to provide the basis for negotiations with the Atomic Energy Commission.

Adequate space and facilities are available for carrying out this program. The project will be housed in the Radiological Laboratory Building, in Room 342 in the University of California Hospital, and in the small laboratory in the dental x-ray pavillion adjacent to the x-ray wing on the third floor of the Hospital. All of this space is now in use by this project. Some of the activities now occurring in Room 342 UCH are being transferred from the jurisdiction of the Radiological Laboratory to that of the Department of Radiology of the Hospital.

There will be no alterations required in the hospital area occupied by the project and only slight modifications of the areas in the Radiological Laboratory Building. Such modifications will be taken care of by the project.

We do not contemplate any additional means of communication nor any changes or additions to the utility services.

The animals and animal housing are taken care of in the Radiological Laboratory Building. The sanitation has been passed on by the necessary authorities.

The safety hazards to employees will be largely those of radiation and radiation safety rules of the University will be closely adhered to and followed.

I am submitting this proposed budget and program to you prior to December 29th with the expectation that it will be forwarded to the President's office in sufficient time for action at the Regents' meeting in January.

Yours sincerely,



Robert S. Stone, M.D.
Director
Radiological Laboratory

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THE RADIOLOGICAL LABORATORY PROJECT

I. STATEMENT OF NATURE AND PURPOSE

This project is listed in the Twelfth Semiannual Report of the Atomic Energy Commission as one of the "Major Research and Development Installations of the U. S. Atomic Energy Commission." It is housed mainly in the Radiological Laboratory Building erected on the San Francisco Campus by the University with Atomic Energy Commission funds. The program centers around the 70 million volt synchrotron provided by the Atomic Energy Commission. Both the building and synchrotron have been accepted by the University, and the research program will reach full activity in fiscal year 1953-54. The presently active contract for the operation of this Laboratory was initiated in 1949, but prior work under other contracts, including that of the Radiation Laboratory, was started in 1942.

The main purpose of the project is to investigate the usefulness of the 70 million volt synchrotron as a medical tool. The objective of the Laboratory is to improve the efficiency of the radiation treatment of cancer by the use of multimillion volt x-rays, by the use of multimillion volt electrons, or by any other means that may be discovered. The earlier studies of this project on the effects of total body irradiation on the blood of patients and on the means of using radioiodine in diagnosing and treating thyroid diseases are gradually being terminated. The study of methods of treatment of cancer of the thyroid with radioiodine will be the last of these to be terminated.

II. REASONS FOR THE GOVERNMENT'S INTEREST

The Atomic Energy Act makes the Atomic Energy Commission responsible for investigating the biological effects of ionizing radiations, including the effect on cancer. Congress has appropriated funds and allocated them to the Atomic Energy Commission for such work from year to year. The Atomic Energy Commission is discharging its responsibilities through contracts with national laboratories, university laboratories, etc. They have selected the University of California School of Medicine, San Francisco, as the place where methods of radiation therapy can be studied with special emphasis on the radiations from the 70 million volt synchrotron, and they have allowed us to continue on a diminishing basis the studies on the use of radioiodine in thyroid diseases and the effects of total body irradiation on the blood of patients.