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UNITED STATES
ATOMIC ENERGY COMMISSION

718165

Oak Ridge, Tennessee
December 3, 1952

Dr. Lee E. Farr, Chairman
Radioisotope Committee
Brookhaven National Laboratory
Upton, Long Island, New York

Subject: RENEWAL OF GENERAL AUTHORIZATION NO. 12069

Dear Dr. Farr:

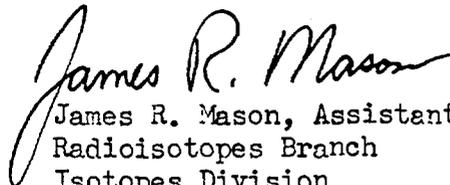
We wish to call to your attention the expiration of your General Authorization for Procurement of Isotopes on December 31, 1952.

If you wish to continue to receive isotopes on a General Authorization, we suggest that you submit a new application to this office on the enclosed Form AEC-313. Any changes in the organization and functions of your local isotopes committee should be indicated on your new application.

It appears that we may receive applications from other investigators for new and unusual uses of isotopes which may have been developed under General Authorization programs. In order to assist the Isotopes Division and our medical advisory committee in the review of such applications, it is requested that your application for renewal of a General Authorization for medical use should include a brief summary of your new and unusual uses of isotopes during the past year.

We look forward to serving your continuing needs for radioisotopes.

Very truly yours,


James R. Mason, Assistant Chief
Radioisotopes Branch
Isotopes Division

Enclosure:
Form 313 w/instructions

REPOSITORY BNL
COLLECTION Human Subjects Research Policies
BOX No. 1
FOLDER _____

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GENERAL AUTHORIZATION FOR USE OF RADIOISOTOPES, REQUEST FOR RENEWAL

The Medical Department of the Brookhaven National Laboratory currently holds general authorization no. 12069F, which expires December 31, 1952. AEC form 313 is being submitted in request for a renewal of this authorization. The following supplementary information indicates the changes which have been made in the past year and includes a brief summary of the new projects which have used isotopes obtained under the general authorization.

The hospital organization has been changed slightly in that there is now a separate hospital division.

The following members have been added to the isotopes committee:

Lewis K. Dahl, M.D., Head, Hospital Division, Brookhaven National Laboratory, July 1952- .

M.D., U. of Pennsylvania 1939.

Resident (Medicine) Massachusetts General Hospital, Boston, 1941-42 and 1946-48.

Captain, U.S. Army Medical Corps, 1942-46.

Assistant Physician, Rockefeller Institute for Medical Research, New York City, 1948-52.

Research in essential hypertension, mechanism of pathological calcification.

Marott F. Sinex, PhD., Biochemistry Division, Brookhaven National Laboratory, 1950- , Executive Officer, Biochemistry Division - July 1951.

M.S., Organic Chemistry, Indiana University, 1946.

PhD., Biochemistry, Harvard Medical School, 1950.

Research in amino acid and protein metabolism, and insulin, Carbon-14 tracer studies.

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The following new projects have been approved by the local committee and human applications made:

H-23 Dr. Gamble Chlorine-38

Chlorine-38 is prepared in the BNL reactor by the activation of ammonium chloride. The sodium salt is injected in activities up to 70 microcuries per kilogram in tracer studies. A technic has been developed which permits the use of Chlorine-38 (in reduced doses) and Na-24 ~~as~~ simultaneously, for comparisons of the volumes of distribution and kinetics of these materials.

H-24 Dr. Meyer Cobalt-60 vitamin B₁₂

Labelled B₁₂ was obtained from Merck and Company, Rahway, N.J., for use in the study of absorption from the gastrointestinal tract. About 0.3 microcuries were administered daily for 7-10 days and the excretion of Co⁶⁰ B₁₂ in the stools determined.

H-25 Dr. Steinfield Krypton 85 and 87

Krypton gas is activated in the BNL reactor and withdrawn for use by freezing into a coil immersed in liquid nitrogen. Experience with animals in the use of radioactive argon and krypton indicated that it would be feasible to use krypton to control pleural effusion and related types of pathological hypersecretion.

H-26 Dr. Steinfield Bromine 80

Bromine-labelled dyes which are selectively excreted by the liver are synthesized and injected to explore the therapeutic effectiveness of direct irradiation upon carcinoma of the liver and the gall bladder. The thyroid is protected from dissociated activity by the use of iodine

or thiouracil. Doses of up to 4000 rep have been authorized.

H-27 Dr. Dahl Sodium-24

The 24 hour exchangeable sodium in hypertensive patients is measured by the use of tracer doses of Na-24.