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April 29, 1985

MS 16
P7

U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

ATTENTION: Dr. John Glenn

Reference License No. 37-10259-02
Docket No. 030-16090
Control No. 03299

Dear Dr. Glenn:

This is in response to your letter of April 15, 1985 in reference to our license application renewal for License No. 37-10259-02 (Mail Control No.) 03299. The information you requested is listed below:

1. Individuals will not be approved for radioisotope usage unless they have had a minimum of forty hours of specific coursework dealing primarily with:
 - a) principles and practices of radiation protection;
 - b) radioactivity measurements, standardization, and monitoring techniques and instruments;
 - c) mathematics and calculations basic to the use and measurement of radioactivity; and
 - d) biological effects of radiation.

Also, before approval, such individuals will be required to have at least six months experience in radioisotope research under a previously approved radioisotope user.

2. A contamination survey is performed after each radioisotope handling procedure. During periods of inactivity, the radioisotope labs are surveyed on a quarterly basis.

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3. In regard to questions concerning P-32 usage:

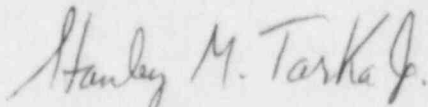
- a) Low density shielding (e.g. plexiglas vial shields and "L" shields) is used in order to minimize Bremstrahlung production. Also, high density shielding is used to protect against Bremstrahlung that is produced.
- b) A radiation survey and wipe test is performed after each use.
- c) P-32 users are required to wear ring badges in addition to whole body badges.
- d) Dry runs are required prior to performance of unfamiliar procedures.
- e) Eye protection is provided for procedures involving ten millicuries or more.

4. A sketch of our facilities is enclosed.

If you have any further questions, please contact me immediately.

Thank you.

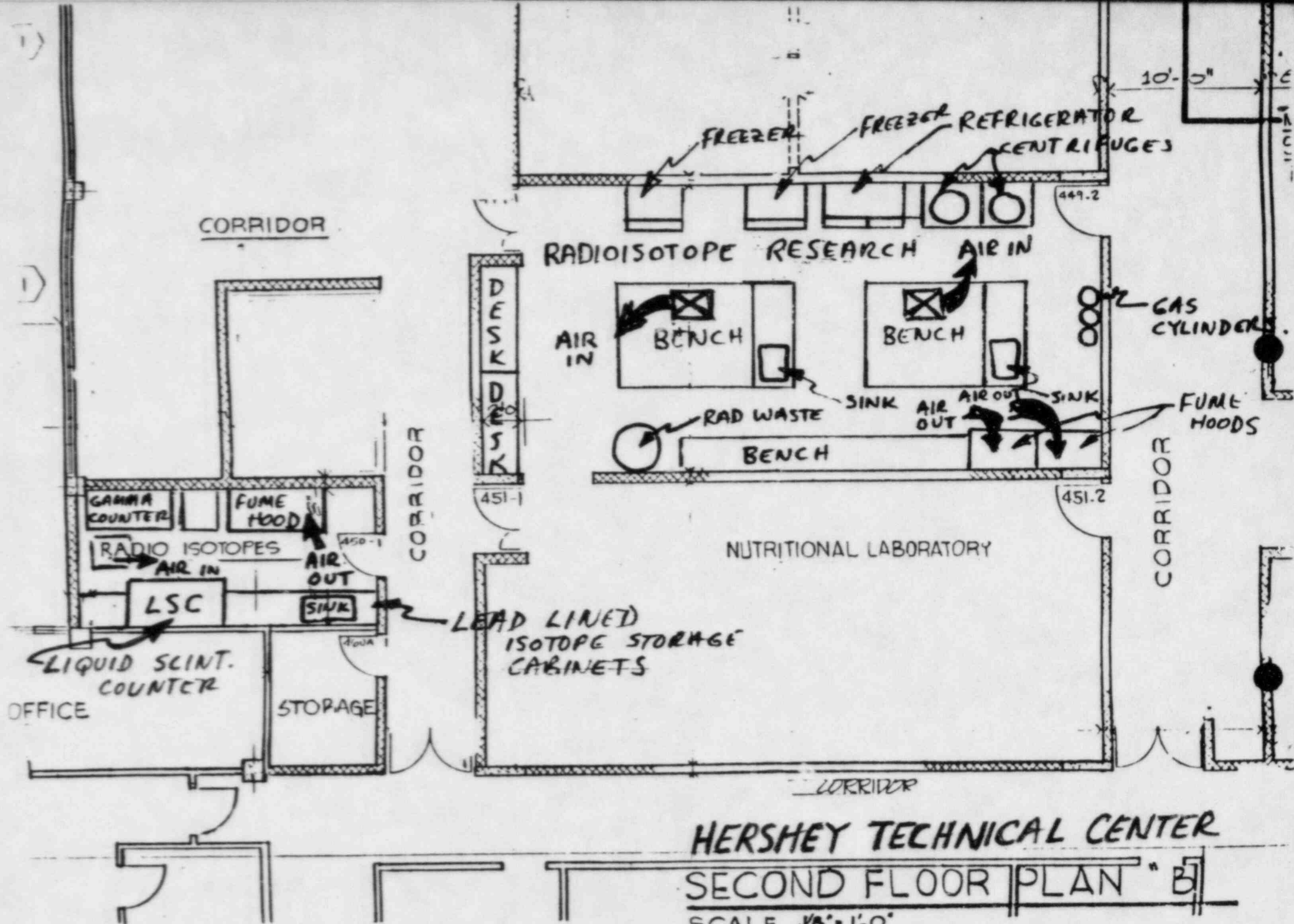
Sincerely,



Stanley M. Tarka, Jr., Ph.D.
Director, Life Sciences
Radiation Safety Officer

SMT:djk

Attachments



4-26-85

K. MILLER