

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.) Harry Diamond Laboratories Connecticut Ave. & Van Ness St., N.W. Washington, D. C. 20438	(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).) Diamond Ordnance Radiation Facility Forest Glen Station Walter Reed Army Medical Center Forest Glen, Maryland
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2. DEPARTMENT TO USE BYPRODUCT MATERIAL Nuclear Vulnerability Branch (230)	3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.) Amendment 8-2534-10 30-3490
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4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.) Philip G. Berman Walter L. Gieseler James H. McGarrity	5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.) Thomas B. Grucchi
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6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.) Americium-241	(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND, OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.) Am ²⁴¹ - Be neutron source - 10 curies 1. Monsanto Research Corp. 1515 Nicholas Road, Dayton, Ohio 2. U.S. Nuclear Corp., Box 208, 801 N. Lake, Burbank, Calif. 3. Numecc Instrument & Controls Corp., Apollo, Pa. See Supplemental Sheet 1
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7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

Start-up source for Triga Reactor

71783

(Continued on reverse side)

SUPPLEMENT #6

Item 14. Radiation Protection Program

General.

Per agreement between the Commander, HDL, and the Commander, WRAMC, on site Health Physics service at the Facility is provided by personnel from the Walter Reed Army Medical Center under the direction of the WRAMC Health Physics Officer. The WRAMC Health Physicist on duty at the DORF reactor is known as the DORF Health Physicist. At least one Health Physicist will be on duty at DORF during all operating hours.

A complete Health Physics Office is maintained at the DORF Reactor. Various Beta-Gamma, Neutron, and Alpha radiation detection instruments are available. Specific instruments which are of particular value for monitoring in conjunction with the requested material have been listed in item 10.

Leak testing will be done by either the HDL Radiation Protection Officer or by the DORF Health Physicist. Because the DORF Health Physicist is a member of the US Army and is subject to transfer on short notice, it is not feasible to include any one individual's name, experience and training in this application. However, the position of DORF Health Physicist will be kept filled per the referenced agreement between the Commander, HDL, and the Commander, WRAMC. The actual assignment of personnel will be made by the WRAMC Health Physics Officer.

In case a source is found leaking, it will be returned to the supplier for repair or disposal or transferred to another licensee whose license authorizes him to receive such material.

Sources will be leak tested at intervals not to exceed 6 months.

Leak testing will be done in the following ways:

- a. The source will be wiped with a filter paper and the filter paper will be counted in an internal gas-flow proportional counter.
- b. The source will be swabbed with a piece of cotton, with a suitable solvent, and the swab will be counted in an internal gas-flow proportional counter.

Item 15. Waste Disposal.

Waste disposal will be handled by the US Army Armament Materiel Readiness Command, Rock Island, IL, in accordance with the procedures delineated in Army Regulation 755-15, "Disposal of Unwanted Radioactive Material."



DEPARTMENT OF THE ARMY
HEADQUARTERS US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND
5001 EISENHOWER AVE., ALEXANDRIA, VA. 22333

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DRCSF-P/76-0092

6 October 1976

30-3930

Director
Nuclear Material Safety and Safeguards
US Nuclear Regulatory Commission
ATTN: Materials Branch
Washington, DC 20555

Gentlemen:

Forwarded is an application for amendment to Byproduct Material License Number 08-02534-09 issued to Harry Diamond Laboratories.

The request is that license be amended to reflect that the new headquarters for Harry Diamond Laboratories is located at 2800 Powder Mill Road, Adelphi, Maryland 20783; and to delete name of Keith Camann as Radiation Protection Officer and substitute the name of James E. Stafford.

Please acknowledge receipt of correspondence on enclosed NRC Form (NRC-46) Reply Card.

Sincerely,

DARWIN N. TARAS
Chief, Health Physics
Safety Office

2 Incl
As stated

Cy Furn:
HQDA (DASG-HGH-E) WASH DC 20310
Dir, DARCOMFSA, Charlestown, IN 47111

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