ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved. Budget Bureau No. 38-R027.3.

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 two copies to: U. S. Atomic Energy Commission, P. O. Box E, Oak Ridge, Tenn. Attention: Isotopes Extension, Division of Civilian Application. 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.

 (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.)

> Curtiss-Wright Corporation Research Division Nuclear Power Department Quehanna, Pennsylvania

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

Nuclear Power Department

 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

Persons designated by the Isotopes Committee, J. L. Donovap, President

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).)

Same

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3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)

37-2416-2 + Al, A2 and A3 37-2416-3063 + Al

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.)

J. L. Donovan

 (a) BYPRODUCT MATERIAL. (Elements and mass number of each.) (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.)

Krypton - 85

Gas, 5000 millicuries. To be received in 100 mc glass ampoules from ORNL. Catalog #KR-85-P.

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.)

The krypton will be handled in the intermediate level radiochemistry laboratory junior cave behind 4 inches of lead using a vacuum apparatus and all being adequately ventilated. The gas will be encapsulated as beta gage sources for the Curtiss-Wright Electronics Division using 50 mc for each source.

All operations will be carried out remotely and material will be stored in an adequately shielded and ventilated area. Since krypton is a rare gas no disposal problem is anticipated. However, if some unusable gas remains, it will be absorbed in activated charcoal, sealed, and disposed of in concrete to ORML disposal service.

a. Principles and practices of radiation protection	Form AEC-313 (2/57)	•						13.71	
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