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Form AEC-313
(5-58)

ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved.
Budget Bureau No. 38-R027.4.

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.) LABORATORY OF PERINATAL PHYSIOLOGY NINDS, NIH, PHS, DHEW Stop 8 1/2, Fernandez Juncos San Juan, Puerto Rico, 00906 (Box 5095, Puerta de Tierra, PR, 00906)	(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).)
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2. DEPARTMENT TO USE BYPRODUCT MATERIAL EXPERIMENTAL NEUROPATHOLOGY	3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.) NONE
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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.) AMERICO RIVERA, JR., Ph.D. ALFRED W. BRANN, JR., M.D. JOSE MARTINEZ-DE JESUS, B.S.	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.) AMERICO RIVERA, JR., Ph.D.
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6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.) A) Carbon-14 B) Chlorine-36 C) Chromium-51 D) Hydrogen-3 E) Iron-59 F) Iodine-131 G) Phosphorus-32 H) Potassium-42 I) Sodium-22 J) Sulfur-35 K) Cobalt-60	(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.) A) Any 5 mCi B) Any 1 mCi C) Any 2 mCi D) Any 100 mCi E) Any 1 mCi F) Any 4 mCi G) Any 1 mCi H) Any 2 mCi I) Any 2 mCi J) Any 1 mCi K) One sealed 10-15 mCi source (Picker model T/Q-57T)
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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.)

(A-J) These isotopes shall be used for: 1) in vivo experiments with animals; 2) in vitro experiments with animal tissue and tissue extracts; 3) in vitro preparation of labeled substances; 4) organic synthesis of radioactive compounds.

(K) This sealed source shall be used to calibrate the survey and monitoring instruments in this laboratory.

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