Form AEC-313 (2-73) 10 CFR 30 UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved Budget Bureau No. 38-R0027

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention, Materials Branch, Directorate of Licensing, 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 License is subject to Title 10, Code of Federal Regulations, Part 170. The license fee category should be stated in Item 16 and the appropriate fee enclosed. (See Note in Instruction Sheet).

- (a) NAME AND STREET ADDRESS OF APPLICANT (Institution, firm, hospital person, etc. include ZIP Code and telephone number.)
 - U. S. Department of Commerce National Bureau of Standards Boulder Laboratories Boulder, Colorado 80303

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

Same

F+5# 323_3948

- 2. DEPARTMENT TO USE BYPRODUCT MATERIAL
 - A. Thermophysical Properties Division
 - B. Executive Office

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

License Renewal Winston W. Scott, Jr. 05-03166-05

 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.)

Winston W. Scott, Jr. Radiation Protection Officer 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.)

Winston W. Scott, Jr.

- 6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)
 - A. Cesium 137
 - B. Cobalt 60
- (b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYS-ICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of source: and maximum activity per source.)
 - A. Sealed Source (Industrial Nucleonics), Class S-6 4 curies
 - B. Sealed Source (Civil Defense Training Set) 6 capsules, total activity 30 millicuries

COPIES SENT TO OFF. OF INSPECTION AND ENFORCEMENT

- DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct inaterial 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. To be used in Industrial Nucleonics Model SH-302 source holder for density measurements
 - B. For Radiological Civii Defense Training

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TRAINING AND EXPE		-				Page Tw
	RIENCE OF EA	ACH INDIVIDU	AL NAMED IN ITEM	4 (Use supplemental	sheets if necessary)	
TYPE OF TRAINING	WHERE TRAINED		DURATION OF TRAINING	ON THE JOB (Circle answer)	(Circle answer)	
Principles and processes of radiation protection					Yes No	Yes No
Radioactivity measurement standardiza- tion and monitoring techniques and in- struments	SAME				Yes No	Yes No
. Mathematics and calculations basic to the use and measurement of radioactivity					Yes No	Yes No
					Yes No	Yes No
Biological Tects of radiation EXPERIENCE WITH RADIATION. (Actual	use of radious	topes or equivale	nt experience)			
the same of the sa	HERE EXPENIENCE		The second secon	OF EXPERIENCE	TYPE O	FUSE
	SAME					
O. RADIATION DETECTION INSTRUMENTS	(Use supplem	nental sheets if n	cessary.)			
TYPE OF INSTRUMENTS (Include make and model number of pach)	NUMBER	RADIATION DETECTED	SENSITIVITY RANGE	WINDOW THICKNESS (mg/cm²)		ISE veying, measuring)
SAME						
1. METHOD, FREQUENCY, AND STANDARDS	USED IN CALIBR	LATING INSTRUME	NTS LISTED ABOVE			
SAME 2. FILM BADGES, DOSIMETERS, AND BIO-AS				of calibrating and process	ing, or name of supp	olier)
SAME 2. FILM BADGES, DOSIMETERS, AND BIO-AS SAME	SAY PROCEDURE	FS USED. (For Al	m bodges, specify method			slier.)
SAME 12. FILM BADGES, DOSIMETERS, AND BIO-AS SAME INFORMA	SAY PROCEDURE	E SUBMITTED	m bodges, specify method ON ADDITIONA ndling equipment, storag	AL SHEETS IN DUP	LICATE	
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representation to any department or agency of the United States as to any matter within its jurisdiction.