Form AEC-313 (2-57)

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.

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

Curtiss-Wright Corporation Research Division Nuclear Power Department Quehanna, Pennsylvania (b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).)

Same

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

Nuclear Power Department

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

> 37-2416-2 + A1, A2 and A3 37-2416-3063 + A1

 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.)

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

 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

6. (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.)

Strontium - 90

Sr. Cl2 in H Cl solution, carrier free. 5000 millicuries.

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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.)

For incorporation in beta density gage sources for Curtiss-Wright Electronics Division.

The material will be handled remotely in the radiochemistry laboratory in a shielded dry, boxes which will be adequately ventilated and filtered. It will be stored in an adequately shielded, guarded area. All wastes will be collected separately and will be forwarded to ORML encased in concrete inside steel drums.

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orm AEC-313 (2/57) TRAINING AND EXF	ERIENCE OF F	ACH INDIVIDITA	AL NA	MED IN ITEL	A A 11	te tunniama-	al shaate is:	nece::	(179.47) (179.47)	Page Two	
TYPE OF TRAINING	RIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4				, 4 (C	DURATION OF ON THE JOB			FORMAL COURSE		
		WHERE TRAINED				TRAINING (Circle answer)		(Circle answer)			
Principles and practices of radiation	on						Yes	No	Yes	No	
Radioactivity measurement standardiz tion and monitoring techniques and i		See previous applications					Yes	No	Yes	No	
struments	·		<u> </u>						<u> </u>	<u> </u>	
. Mathematics and calculations basic to t use and measurement of radioactivity						Yes	. No	Yes	No		
Biological effects of radiation				<u> </u>		· · · · · · ·	Yes	No	Yes	No	
EXPERIENCE WITH RADIATION. (Actual use of radioisotopes or equivalent WHERE EXPERIENCE WAS GAINED				DURATION OF EXPERIENCE			TYPE OF USE				
SOLOFE MAXIMUM AMOUNT	WHERE EXPERIENCE	HERE EXPERIENCE WAS GAINED DI			RATION OF EXPERIENCE			TIPE OF USE			
	See previous applicati			ons			*				
•											
O. RADIATION DETECTION INSTRUMENT	S. (Use supplem	ental sheets if nec	essary.)				,			
TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE								USE veying, measuring)		
	•			•			-				
1. METHOD, FREQUENCY, AND STANDARD		ATING INSTRUMEN				• .	n	•-			
2. FILM BADGES, DOSIMETERS, AND BIO-A	SSAY PROCEDURE	S USED. (For film	badges	, specify method	of calibra	ating and proce	ssing, or nan	ne of supp	olier.)		
	See pr	evious app	olic	ations							
	NFORMATIO	N TO BE SUBM	AITTE	ON ADDI	TIONA	L SHEETS					
 FACILITIES AND EQUIPMENT. Describe of facility is attached. (Circle answer) 	laboratory facilitie Yes No			ous appli				otc. Exp	lanatory sk	etch	
4. RADIATION PROTECTION PROGRAM. testing procedures where applicable, name	e, training, and e		-	-							
icing, maintenance and repair of the sour	ce.	C	evi	ous appl:	icati	ons					
		see br							thods which	will	
5. WASTE DISPOSAL. If a commercial was be used for disposing of radioactive wast		is employed, speci		e of company.		e, submit deta ORNL	iled descripti	on of mei			
be used for disposing of radioactive wast	es and estimates o	is employed, speci	unt of a	e of company, activity involved.		ORNL	iled descripti	on of mei			
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