amend # #1 37-24/6-2

Form AEC-313 (2-57)

ATC NIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

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

is for tenewal of a license, complete INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application 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 hypothesis to: U., 5. 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 subject to 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, (b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (IF person, etc.) Curtiss-Wright Corporation Research Division
 - different from 1 (a).)

Same

2. DEPARTMENT TO USE BYPRODUCT-MATERIAL Nuclear Power Department

Nuclear Power Department Quehanna, Pennsylvania

- PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.) Ammendment to license no. 37-2416-2 dated July 18, 1957.
- 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
- RADIATION PROTECTION OFFICER (Name of person designated as radiation protection afficer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.1

Same as those designated under license 37-2416-2.

C. J. Roberts - Data previously submitted.

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

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 sources and maximum activity per source.)

Under item 8B change "Cobalt-60-110 curies" to read "Cobalt-60 145 curies." It is intended to purchase one 120 curie Co⁶⁰ encapsulated source immediately from Oak Ridge National Laboratories. Capsule is shown on page 158, figure 20 of the ORNL radioisotopes catalog. Additional approx. 15 curie Co60 source to be purchased at a later date.

- 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) For testing of shielding in reactor and hot lab facility and for calibration of high-range gamma detectors.
 - (b) As stated in application for license no. 37-2416-2.

orm AEC-313 (2/57)						Page Tw
TRAINING AND EXPE	RIENCE OF E	ACH INDIVIDU	AL NAMED IN ITEM	M 4 (Use suppleme	ental sheets if necessary) Contract of the contract of
. TYPE OF TRAINING		WHERE 1		DURATION TRAININ	OF ON THE JOB	FORMAL COURSE
Principles and practices of radiation					,	(Circle toswer)
protection		As per application dated			Yes No	Yes No
 Radioactivity measurement standardiza tion and monitoring techniques and in struments 	.	., 1957.			Yes No	Yes No
 Mathematics and calculations basic to the use and measurement of radioactivity. 	1		<u>.</u>		Yes. No	Yes No
f. Biological effects of radiation			_		Yes No	Yes No
EXPERIENCE WITH RADIATION. (Actua	use of radioiso	otopes or equivale	nt experience.)	•		
SOTOPE MAXIMUM AMOUNT W	HERE EXPERIENC	E WAS GAINED	DURATION	OF EXPERIENCE	TYPE C	OF USE
As per applica	•					ř.
O. RADIATION DETECTION INSTRUMENTS	. (Use supplen	nental sheets if ne	cessary.)		•	
TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNE (mg/cm²)		
	·					
As per applic	ation dat	ed July 1	, 1957.			
1. METHOD, FREQUENCY, AND STANDARDS	ucen hi cation	ATING INICTOLING	TE LISTED ABOVE			
As per applica	• •				•	
2. FILM BADGES, DOSIMETERS, AND BIO-AS	SAY PROCEDURE	S USED (For film	badges, specify method	of calibrating and pro	cessing, or name of supp	plier.)
As per applicat	cion date	ed July 1,	1957			
			MITTED ON ADDI			- , ,
 FACILITIES AND EQUIPMENT. Describe In of facility is attached. (Circle answer) 	sboratory facilitie Yes No	AS per	dling equipment, storage application	dated July	fume hoods, etc. Exp 1, 1957.	planatory sketch
4. RADIATION PROTECTION PROGRAM. Desting procedures where applicable, name king, maintenance and repair of the source carried out by taking	remote s	pplication of person in the person in the person of the person of the person of the person of the person in the pe	n dated July capsule ever	y six month	performing Initial radiat Leak tests w s.	ion survey, serv- ill be
5. WASTE DISPOSAL. If a commercial waste be used for disposing of radioactive waster	and estimates of	per appi	ication mate	d July 1, 1	talled description of me	thods which will
6. THE APPLICANT AND ANY OFFICIAL EXE		<u> </u>	UST be completed		CERTIEN THAT THE	APPLICATION IS
PREPARED IN CONFORMITY WITH TITLE 10, SUPPLEMENTS ATTACHED HERETO, IS TRU	CODE OF FEDE	RAL REGULATIONS	, PART 30, AND THAT	ALL INFORMATION C		
	, -	· .		iss-Wright	Corporation	
November 6, 1957.			ву: Сол	lyley/	Cabecta	
				<i>-</i>	0.1 0.001	
				ological Sa	iety Ullicer	