Form AEC-31: (2-57)	λ.Ρ	ATOMIC ENERGY COMMISSION APPLICATION FOR BYPRODUCT MATERIAL LICENSE						
only Items 1 mental sheet Commission, application, ance with the	NS.—Complete Items through 7 and indicc s where necessary. P. O. Box E, Oak Rid the applicant will reco	1 through 16 if this is an initia ite new information or changes Item 16 must be completed ge, Tenn. Attention: Isotopes eive an AEC Byproduct Material contained in Title 10, Code of	application. If application is for renew in the program as requested in Items 8 to on all applications. Mail two copies Extension, Division of Civilian Application License. An AEC Byproduct Material Li Federal Regulations, Part 30 and the lice	through 15. Use supple- to: U. S. Atomic Energy n. Upon approval of this icense is issued in accord-				
		PLICANT. (Institution, firm, hospital,	(b) STREET ADDRESS(ES) AT WHICH BYPRODUC	T MATERIAL WILL BE USED. (IF				
person, etc.		tor Division	different from 1 (o).) Curtiss-Wright Corporation Nuclear Power Department Research Reactor Division Quehanna, Pennsylvania					
DEPARTMENT TO USE BYPRODUCT MATERIAL			3. PREVIOUS LICENSE NUMBER(S). (If this is license, please indicate and give number.)	an application for renewal of a				
	Nuclear Power	Department	37-2416-2 + Al, A2 and A3. 37-2416-3063 + Al					
		f individual(s) wha will use ar directly training and experience in Items 8 and	 RADIATION PROTECTION OFFICER (Name of p tection officer if other than individual user. Att perience as in Items 8 and 9.) 					
		nated by the Iso- ee, J. L. Donovan,	J. L. Donovan					
	T MATERIAL. (Elements number of each.)		CRM AND MAXIMUM NUMBER OF MILLICURIES OF SESS AT ANY ONE TIME. (If sealed source(s), also ximum activity per source.)					
والمراجع والمرجعين والمرجع	Promethium - 147	3000 millicurie hydrochloric aci	s processed solution in di d.	lute				
			DUPLI FOR DIV.	CATED OF INSP.				
	• .							
		•						
plated in liau of		terial is in the form of a sealed source, in	product material is far "human use," supplement A (include the make and model number of the storag					
	solution onto	steel plates and en	odeposited from a non-aque capsulated for use as beta dividual sources will be 2	gage				
13.	baboratory in will be in a	a ventilated cave b guarded area, adequa	remotely in the hot radioc ehind 4 inches of lead. S tely shielded. Waste prom hielded metal drums for ul	torage // hethium-147				

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Form AEC-313 (2/57)			<u> </u>						e		Page 1wo
	NG AND EXPE	RIENCE OF E/	ACH INDIVIDU	AL NA	MED IN ITEA	44 (Use supplement	ntal sheel	s if necessary)	
8. TYPE OF TRAINING			WHERE T						ON THE JOB Lircle answer)		COURSE answer)
a. Principles and practice protection						[Yes No	Yes	No	
 B. Radioactivity measurements tion and monitoring tec 								Yes No	Yes	No	
struments	See previous applications										
c. Mathematics and calculat use and measurement of								Yes No	Yes	No	
d. Biological effects of radi						 		Yes No	Yes	No	
9. EXPERIENCE WITH RADIA	—	~		nt exper							
ISOTOPE MAXIMUM AMOU		IERE EXPERIENCE	IERE EXPERIENCE WAS GAINED DURATION OF EX					PERIENCE TYPE OF USE			
· ·		•		1						s	
		SEE	PREVIOUS	3 API	LI CATI ON	NS					
		·		1	1						
*				!	ļ		·				
10. RADIATION DETECTION			nental sheets if ne	T		T					
TYPE OF INSTRUMENTS (Include make and model number of each)			RADIATION DETECTED		ffivity RANGE (mr/hr)		OW THICKNES (mg/cm²)		USE (Monitoring, surveying, measuring)		
		SEE ·	PREVIOUS	Į	APPLICAT	TION	5		• .		
			110112000	Í	**************************************	1.	•				
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			1 1		1						
			1 '	1	I						
11. METHOD, FREQUENCY, A	ND STANDARDS .!	USED IN CAUBR		VIS LIST	ED ABOVE.	L	<u>-</u>		·		
			PREVIOUS		PPLICATI	ONS					
12. FILM BADGES, DOSIMETE	RS, AND BIO-ASS	AY PROCEDURE!	S USED (For film	1 badges,	, specify method	of calib	rating and proc	essing, o	r name of supp	lier.)	
		SEE	PREVIOU	is	APFLI	CATI	ONS				
	IN	TOPMATIO	TO BE SUR				AL CUTETC			<u> </u>	
13. FACILITIES AND EQUIPME			N TO BE SUBI					fume hoo	ods, etc. Exp	lanatory ske	rtch
of facility is attached. (C		Yes No			ous appli				above.	•	
14. RADIATION PROTECTION			ation protection pro	-				-			
testing procedures where a icing, maintenance and re			revious ap	•		ind arrai	ngemenız tor p	errorming	i filliai roaland	on survey, a	erv-
A WASTE DISPOSAL IF O						<u></u>	·	11- al al an			
15. WASTE DISPOSAL. If a be used for disposing of r	radioactive wastes	and estimates of	is employed, space of the type and am	ount of c	activity involved.	Onerw Onle	ise, submit dete Ridgo No	allea aesi att an	Tiption or men	hods which -	will F
<u> </u>	CF	RTIFICATE	(This item mu	ust be	completer	d by (ntage in	auron	ar nave	ISTOLA	•
16. THE APPLICANT AND AN PREPARED IN CONFORMIT SUPPLEMENTS ATTACHED	NY OFFICIAL EXEC	CUTING THIS CE	ERTIFICATE ON BE	EHALF C	OF THE APPLICA		AED IN ITEM T				
		······································					•	:	• •		
- Curtiss-Wright Corporation											
•		Applicant named in item 1									
DateJune_	25, 1958				By: 11V	$\sqrt{1}$	<u>. 12e</u> 0	m			
				•	Roor	+	Toolth '	Dhrei	mi et.	•	
-	•	•	Title of certifying a				Health Physicist				
			•	a	nd Sourc	:e <u>Cu</u>	stodian				
WARNING.—18 U.S.C representation to any depart							f offense to r	nake a v	willfully false	statement	or

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