Mem AEC-518					Form approved.
(9-00)	APPLICATI	IN FOR BYPRODUC	I MATERIAL LICE	NSE	Budget Bureau No. 25-Euz
'INSTRUCTIONS only Items 1 mation previo Tennessee, A application, t of an AEC By	: Complete Items 1 through 11 provided usly submitted. M ttention: Isotopes ne applicant will rece product Material L	through 19 if this i that with respect to ail two copies to: U. Extension, Divisio sive an AEC Byprod icense are contained	s a new application o the other items to S. Atomic Energy ( n of Civilian App uct Material Licens in Title 10, Code o	Jiffredan John Jan Dorn John Jan Dorn John Jan Jan Jication. e. General r f Federal Re	Life requested comp and the figure in the figure from approval of equirements for issue gulations, Part 30.
1. (e) NAME AND SHIP (Institution, Arm	PING ADDRESS OF APPLICANT Applial, person, etc.)	· · ·	(b) ADDRESS(ES) AT WHIC (If different from shipping) Research Dis	H BYPRODUCT M.	ATERIAL WILL BE USED
Gurtige-W	right Cornorati		Cartiss-Vris	the Corpor	stion
Quehanna	Penna, Atta.	J. J. Roberts	Quehanna, Pe	nnsylvani	
2. DEPARTMENT TO U	SE BYPRODUCT MATERIAL	· · · · · ·			
3. INDIVIDUAL USER	Name and title of individual(s)	who will use or directly supervise	we of byproduct material)	••••	• • •
C. J. Rob	erts, Radiologi	cal Safety Offic		•	· · · ·
4. RADIOLOGICAL SAF	ETY OFFICER (Name of person	gualified in rediological safety, i	f other than individual user)		· · ·
C. J. Rob	erte			· · · ·	
5. PREVIOUS LICENSE radioisotope procuren	OR AUTHORIZATION NUMBE	R (If this is an application for r	enewal of a license for byprodu	ct material obtained	under a prior license or authoriza
29 - 460		ور موال میں ا	······		· · •
	BYPRODI	ICT MATERIAL OR I	RRADIATION SERVI	CE DESIRED	
6. BYPRODUCT MATE	RIAL (Element and mass number	) 7. CHEMICAL AND/OR PHYS	ICAL FORM (Or catalog	8. MAXIMUM AM	OUNT OF RADIOACTIVITY IN
· 00		n n noerj			OU HILL POSSESS AT ART ON
Sr <sup>90</sup>		Hermetically	sealed sourc	e 2'MI	crocuries
9 IF IRRADIATION S	ERVICE IS DESIRED, STATE	PERTINENT DETAILS SUCH	AS: CHEMICAL COMPOSITIO	N AND WEIGHT	IN GRAMS OF TARGET MAT
RADIOACTIVITY, I	RADIATION TIME IN DAYS,	AND NEUTRON FLUX	••• • •	· · · · · · · · · · · · · · · · · · ·	·····
· ·	· · · ·	و فيد م موجد م	· · · ·	• •	•
	• , • ,		<u> </u>	·	
		STATEME	INT OF USE	····.	· · · · · · · · · · · · · · · · · · ·
10. (a) DESCRIBE PUR is to be used in or	manufactured as a "sealed sour	ce" complete Supplement B in ac	(I) material u for "Ruman u. Idition to this Lem.)	ie" compute Supple	ment A in ucu oj inu uem. Ij i
			• •		
Incorpoi	ated as calil 0.05' mr/h	r 50R/hr In	e Into 'Jordan two ranges	Model A	GB-50-SR
(b) DESCRIBE PROC	EDURES WHICH WILL BE OBSE	RVED TO MINIMIZE HAZARD	FROM HANDLING, STORAGE	AND DISPOSAL OF	THE BYPRODUCT MATERIAL
					•
Source	vill not be re	emoved from 1	n strument	•	
		• • • • •			
-	•		and the first second	- · · ·	•
		CERT	IFICATE		
11. The applicant	and any official executi	ng this certificate on be	half of the applicant n	amed in Item 1	, certify that this applie
is prepared in tion contained	conformity with Title 1 beryin, including any s	0, Code of Federal Regu supplements attached he	lations, Part 30, and dereto, is true and corre	o solemnly swe ct to the best	ar (or affirm) that all inf of our knowledge and
State of	enna	4	Cortiss-Wr	Leht Corpo	ration
County of	Pour	ued	Applicant named in L		1 1-
Subscribed a	nd sworn to before the	this	By Cartyle	y fal	lik
day of	march	JZ	Title of Certifying Off	icial	VIIICET
h.	A DO APS	ilith )	Hareh 7. 10	57	2
Northobil			Date	·	

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(Continued on reverse side)

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Form AEC-818

## ATOMIC ENERGY COMMISSION

Page Two

			IN LOR DIS NOL								
INSTRUCTIONS: ( from subsequent is made in Item	Complete Items applications pr 5 to the applica	12 thro ovided the tion on	ugh 19 if this is here is no change which this infor	a new e in the mation	applica informa appear	tion. This ation previo s.	inform usly su	ation bmitt	may ed, an	be om d refei	itted` rence
TRAINING	AND EXPERIE	NCE WI	TH RADIOACTI	VITY O	F INDI	VIDUAL USE	R NAM	ED I	N ITE	M 3	
12. TYPE OF TRAINING			WHERE TRAINED		DURAT	ION OF TRAININ	G	ON TH (Ctrcle of	E JOB	FORMA (Circle	L COURSE answer)
1. Principles and logical health	practices of radi	o-	``````````````````````````````````````					Yes	No	Yes	No
2. Radioactivity ardization and niques and ins	measurement stan d monitoring tec struments	d- h-						Yes	No	Yes	No
3. Mathematic basic to the us of radioactivit	es and calculationse and measurement	ns nt						Yes	No	Yes	No
4. Biological effe	cts of radiation.	· ·			,			Yes	No	Yes	No
5. Actual use of types and qua plication is bei lent experience	ntities for which a ing made, or equiv	ne -p- / <b>a</b> -						Yes	No	· Yes	No
13. ISOTOPE HANDLING E	XPERIENCE	· · · ·		<u></u> i		·	l_				
ISOTOPE	MAXIMUM AMO	TINC	WHERE EXPERIEN	NCE WAS C	SAINED	DURATION	of exper	IENCE	1	TYPE OF	USE
					•						
14. If Radiological Seprovide equivaler mentary sheet is	afety Officer name nt information on attached (Circle a	ed in Item "Trainin nswer)	4 is different from and Experience	n individ With	dual user Radioact	r named in It ivity of Radi	tem 3, u iological	ise sur Safet	oplemer cy Offic Yes	ntary si er." i	heet to Supple- No
	PHYSICAL FA	CILITIES	, EQUIPMENT,	AND R	ADIATIC	ON INSTRUM	IENTA	TION			
15. RADIATION DETECTIO	N INSTRUMENTS (Use	separate shee	et if necessary)				·				
TYPE OF INSTRU (Include make and model	UMENTS number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSIT RAN (mr/	IVITY IGE IAr)	WINDOW THICKNESS (mg/cm <sup>3</sup> )	USE (	Monitor	ing, auroe	ying, mea	euring)
								, 			
16. FILM BADGES, DOSIME 17. METHOD, FREQUENCY eupplier)	TERS, AND OTHER PER	ED IN CALIB	RATING INSTRUMENTS	LISTED A	BOVE (For	PROCEDURES film badges specify	method of	calibrati	on and p	rocessing,	or name
18. (a) DESCRIBE BRIEFLY	Y REMOTE HANDLING	EQUIPMENT	, STORAGE CONTAINER	RS, SHIELD	ING, AND I	LABORATORY FAC	CILITIES (	Working	arcas, fu	me hoods,	etc.)
(b) SKETCHES OF SUCH	FACILITIES ARE ATTAC	HED (Circle	answer)						Y	es	No
19. DESCRIBE BRIEFLY RA	IDIATION SURVEYING	PROCEDURE	S AND METHODS OF DIS	SPOSING O	F RADIOAC	TIVE WASTES					

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•	-Th AEC-818b (9-55)	APPLIC	DN FOR BYPRODUCT MATERIAL LICEN	SE	Form approved. Budget Bureau No. 35-R028.3.
	If application is f the application fo to manufacture a in the scaled sou omitted provided	or byproduct material t r byproduct material li sealed source should con rce and/or device desig reference is made on li	to be used in or manufactured as a "sealed source rense. Applicant for use of sealed source should of mplete Section II. If information has been subm n or other changes in information submitted pr ne below to the application or other document of	complete Second nitted for pio reviously, det on which this	his applement and attach t will Av applicant/desirfunction of y and there are no change and requested oplow may to information appears:
		•••••••••	SECTION I-USE (See instructions)		······································
	1. IF SEALED SOURCE	OR DEVICE CONTAINING SEA	LED SOURCE IS MANUFACTURED COMMERCIALLY, GIVE FO	DLLOWING INFO	RMATION:
	A. Manufacture B. Make and m C. Person who	r or supplier of sealed a odel number of sealed a will hold legal title to s	source and/or device <b>I.s.atopes</b> Specia source and/or device	liiss-Wrig	o-Burbank
	2. (a) NAME OF PERSO	N WHO WILL PERFORM NECE	SSARY PERIODIC LEAKAGE TESTS (6-month intervals for beta-go	amma; 5-month pe	riod for alpha emitters. See instructio
	(b) IF ABOVE PERSO MENT OF EXPER EVIDENCE OF IT:	IENCE OR TRAINING OF SUC SEFFICACY AND INSTRUMEN	HID FACTORER, NOR A COMMERCIAL LABORATORY ROUTH H PERSON IN TECHNIQUES TO BE EMPLOYED. A STATEM VITATION TO BE USED:	IENT OF LEAK	TESTING PROCEDURES INCLUD
	11 years	experience in h	ealth physics work which includ	ed leak (	testing of a
	miltiplic	ity of sealed s	ources.		· · · · · ·
	Soft cott beta sens	on smears will itive counter a	be taken of the source and the and scaler.	sicars C	cunted on a.
		•			
•	3. ARRANGEMENTS WI DISPOSAL, ETC., OF	IICH WILL PREVAIL FOR PEF THE SOURCE:	RFORMING INITIAL RADIATION SURVEY (if appropriate), SE	ERVICING MAIN	TENANCE, REPAIR, CONTROL, A
•	3. ARRANGEMENTS WI DISPOSAL, ETC., OF Source back to J	AICH WILL PREVAIL FOR PER THE SOURCE: Will remain in forden Electroni	rforming initial radiation survey (if appropriate). Se instrument. If found to be lead .cs, Inc. for replacement.	ERVICING MAIN	TENANCE, REPAIR, CONTROL, A
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•	3. ARRANGEMENTS WI DISPOSAL, ETC., OF <b>Source</b> <b>back to J</b> 4. IF SEALED SOURCE FORM (but not pound 5 THROUGH 12 ON T (a) Quantity of	AICH WILL PREVAIL FOR PER THE SOURCE: will remain in orden Electroni orden Electroni TO BE MANUFACTURED OR F/ 10 COBALT 60, IRIDIUM 192, HIS SUPPLEMENT: byproduct material pe	RFORMING INITIAL RADIATION SURVEY ((fappropriate), SE instrument. If found to be lead .cs, Inc. for replacement. SECTION II—MANUFACTURE ABRICATED BY THE APPLICANT IS DESIGNED TO TRANSMIT GOLD 198, TANTALUM 182, OR THULIUM 170, GIVE FOLLO r source and model number	ERVICING MAIN	TENANCE, REPAIR, CONTROL, A be shipped Ays and contains in element tion and disregard questio
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· · · · · · · · · · · · · · · · · · ·	3. ARRANGEMENTS WI DISPOSAL, ETC., OF <b>Source</b> <b>back to J</b> 4. IF SEALED SOURCE FORM (but not powd 5 THROUGH 12 ON T (a) Quantity of (b) Leak testing (c) Attach anno (d) Describe lal	AICH WILL PREVAIL FOR PER THE SOURCE: will remain in ordan Electroni ordan Electroni fo BE MANUFACTURED OR F/ 74) COBALT 60, IRIDIUM 192, HIS SUPPLEMENT: byproduct material per 5; procedure to be employ otated engineering draw bel to be affixed to sour	<b>SECTION II—MANUFACTURE</b> ABRICATED BY THE APPLICANT IS DESIGNED TO TRANSMIT GOLD 198, TANTALUM 182, OR THULIUM 170, GIVE FOLLO r source and model number byed: ing of source container and holder, if any: ice container and/or source holder (or atlach copy	ERVICING MAIN king will only gamma f wing informa	TENANCE, REPAIR, CONTROL, A be shipped
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SUPPLEMENT B-SEALED SOURCES	Page Two
ALL SEALED SOURCES OTHER THAN THOSE DEFINED IN IT	TEM 4
5. QUANTITY OF BYPRODUCT MATERIAL PER SOURCE AND MODEL OR DRAWING NUMBER	
6. MEANS BY WHICH BYPRODUCT MATERIAL WILL BE DEPOSITED IN SOURCE CONTAINER:	······································
7. ATTACH ANNOTATED ENGINEERING DRAWING OF SOURCE CONTAINER AND HOLDER, IF ANY:	· <u>·····</u> ·····
8. TYPE OF SEAL TO BE USED TO PRECLUDE LEAKAGE OF RADIOACTIVITY TO EXTERIOR OF SOURCE:	• •
9. IF SOURCE HOLDER IS TO BE USED WILL CONTAINER BE PERMANENTLY OR SEMIPERMANENTLY MOUNTED THEREIN	?
	•
10. DESCRIBE LABEL TO BE AFFIXED TO CONTAINER AND/OR SOURCE HOLDER (Or attach copy. See instructions):	
1. EVIDENCE OF STABILITY OF SOURCE CONTAINER MATERIAL TO IRRADIATION FROM BYPRODUCT MATERIAL THEREIN	N (Omit if such stability is obvious):
12. LEAK TESTING PROCEDURE TO BE EMPLOYED INCLUDING EVIDENCE OF ITS EFFICACY AND INSTRUMENTATION TO B	BE USED:
12. LEAK TESTING PROCEDURE TO BE EMPLOYED INCLUDING EVIDENCE OF ITS EFFICACY AND INSTRUMENTATION TO B	SE USED:
12. LEAK TESTING PROCEDURE TO BE EMPLOYED INCLUDING EVIDENCE OF ITS EFFICACY AND INSTRUMENTATION TO B	SE USED:
12. LEAK TESTING PROCEDURE TO BE EMPLOYED INCLUDING EVIDENCE OF ITS EFFICACY AND INSTRUMENTATION TO B DEVICES CONTAINING SEALED SOURCE (Give following information if sealed source is to be mounted in a devi	SE USED: ice)
12. LEAK TESTING PROCEDURE TO BE EMPLOYED INCLUDING EVIDENCE OF ITS EFFICACY AND INSTRUMENTATION TO B DEVICES CONTAINING SEALED SOURCE (Give following information if sealed source is to be mounted in a devi 13. ATTACH ANNOTATED ENGINEERING DRAWING OF DEVICE INCLUDING MODEL NUMBER AND DETAILS OF MOUNTING THE DEVICE:	BE USED: ice) 5 OF CONTAINER OR SOURCE HO
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