Form AEC-313 (2-73) 10 CFR 30	UNITED STATES ATOMIC APPLICATION FOR BYPRO	Construction of the second	Form approved Budget Bureau Na.
vious applications filed with the specific. Use supplemental shores in the store washington, D.C., 20545, Byproduct Material License. And eral Regulations, Part 30, and	tems 1 through 16 if this is an initial applica the Commission with respect to Items 8 thro neets where necessary. Item 16 must be com a Attention: Materials Branch, Directorate of an AEC Byproduct Material License is issued in the Licensee is subject to Title 10, Code of F The license fee category should be stated in 1	bugh 15 may be incorporated by reference p npleted on all applications. Mail two copies Licensing. Upon approval of this application n accordance with the general requirements rederal Regulations, Part 20, and the license	brovided references are to: U.S. Atomic Energy , the applicant will receiv contained in Title 10, Coo fee provisions of Title 10
1. (a) NAME AND STREET ADDRESS son, etc. include ZIP Code and	S OF APPLICANT. (Institution, firm, hospital per- d telephone number.)	(b) STREET ADDRESS(ES) AT WHICH BYPRO different from 1(a). Include ZIP Code.)	DUCT MATERIAL WILL BE
US Army Electronic Technical Support DELSD-SF Fort Monmouth, New		Evans Are Fort Monmouth, New Jers	
2. DEPARTMENT TO USE BYPRODUC		3. PREVIOUS LICENSE NUMBER(S). (If this is	
	logy & Devices Laboratory	please indicate and give number.)	
	and title of individual(s) who will use ar directly I. Give training and experience in Items 8 and 9.)	S. RADIATION PROTECTION OFFICER. (Name	
Persons designated tion Control Comm	d by the Ionizing Radia- ittee	Stanley B. Potter, RPO Michael J. Davison, Al See Inclosure #1 for r	ternate RPO
6. (a) BYPRODUCT MATERIAL. (Elen and mass number of each.)	ICAL FORM THAT YOU WILL POSSI	ORM AND MAXIMUM NUMBER OF MILLICURIES ESS AT ANY ONE TIME. (If sealed source(s), also s	
Cobalt 60	number of sources and maximum ac	nviry per source.)	.]
		· · · ·	
4			
in lieu of this item. If byproduct m	BYPRODUCT MATERIAL WILL BE USED. (If byp. naterial is in the form of a sealed source, include the r		
and may be use will not be in	urces will be used in res ed in calibration of high rradiated. 7 for information regard	range instruments. Exp	losive materia
		RECORD COPY"	96373

. .

		RIENCE OF E		AL N	MED IN ITEN	A 4 (Use suppleme		ats if n	Cettory)		Page Two
a. Principles and procless of redicities protection pr		,					DURATION OF		ON THE JOB		FORMAL	
2. Redisordivity measurement itanifandiar ban and monitoring techniques and in- summath. 2. Mothematics and calculations built to the use and measurement of calculations. 2. Mothematics and calculations built to the use and measurement of calculations. 2. Experience with ReadAnDON. (Actord use of calculations are experiment.) BOTORY MANIANDA ANDUNT WHERE EXPERIENCE WAS GANED DURATION OF EXPERIENCE 10. RADARDON. (Actord use of calculations are experiment.) BOTORY MANIANDA ANDUNT WHERE EXPERIENCE WAS GANED DURATION OF EXPERIENCE (Monthering, Exception, Marcel 1998) 3. EXPERIENCE WITH REACATION. (Actord use of calculations or experiment.) BOTORY MANIANDA ANDUNT WHERE EXPERIENCE WAS GANED DURATION OF EXPERIENCE (Monthering, Exception, Marcel 1998) 3. EXPERIENCE WITH REACATION. (Actord use of calculations or experiment.) BOTORY MANIANDA ANDUNT WHERE EXPERIENCE WAS GANED DURATION OF EXPERIENCE (Monthering, Exception, Marcel 1998) 3. EXCENTION FLOCANESTS (MONTHER, AND BLOADSAM MOLEDUREST USED) 3. EXCENTION FLOCANEST USED) 3. EXCENTION FLOCANEST 3. EXCENTION FLOCANEST USED 3. EXCENTION FLOCANEST 3. EXCE												
use and measurement of radiuschilding Image: Section 1 Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Biological effects of radiusticity. Image: Vest No Vest No Vest No Vest No d. Recome Not Not Statements Vest No See Inclosure #5 Vest No	 Badioactivity measurement standardiza- tion and monitoring techniques and in- 		Inclosure	#2	<u></u>			+	Yes	No	Yes	No
Biological effect of relations Constrained and a constrained are explored at experience. September 2 See Inclosure #2 See Inclosure #2 See Inclosure #4 See Inclosure #5 See Inclosure #5 See Inclosure #6				. t.	×.		· ·		Yes	No	Yes	No
BOTOM MAXIMUM AMOUNT WHERE EXPERIENCE WAS GAINED DURATION OF EXPERIENCE THE OF USE IO. RADIATION DETECTION INSTRUMENTS. (Use supplemented sheets if meensary.) THE OF USE USE THY OF DISTRUMENTS. (Use supplemented sheets if meensary.) WINDOW THICKNESS (Monitoring. Enverying. measuring) III. ARETHOD, DETECTION INSTRUMENTS. NUMBER AVAILABLE DETECTED Several (WINDOW THICKNESS) III. METHOD, FREQUENCY, AND STANDARDS USED IN CAMBRATING INSTRUMENTS LISTED ANOVE. See Inclosure #5		•			·				Yes	No	Yes	No
10. RADIATION DETECTION INSTRUMENTS (Ute supplemental sheets if necessary). (mulde make of another of anoth				ntexpe							·	
TYPE OF INSTRUMENTS (include make and model number of each) NUMBER AVAILARE RADIATION DEFECTED SetsTRUMEY SANGE (m/h) WINDOW TRICKNESS (m/h) (Maritaring, surveying, meaning) 11. METHOD, FREQUENCY, AND STANDARDS USED IN CAUBANTING INSTRUMENTS USTED ADOVE. See Inclosure #5 See Inclosure #5 (Maritaring, aurveying, meaning) 11. METHOD, FREQUENCY, AND STANDARDS USED IN CAUBANTING INSTRUMENTS USTED ADOVE. See Inclosure #5 See Inclosure #5 12. FILM BADGES, DOSIMETERS, AND BIOLASSAY PROCEDURES USED. for file badget, specify method of calibrating and processing, or nome of supplier.) See Inclosure #6 13. FACUTIES AND EQUIPMENT, Describe Induction of mathing and protein and remark handing equipment, harding, fund heads, etc. Explanatory isletch of tectiny in atteched. (Circle surver) No 14. ADALTION PROCEDING PROCEDURES the addiation protein and remark handing equipment, harding and argument harding equipment, harding completeling, the heads, etc. Explanatory isletch thring process where application. Events a head entimes and the moder measures. It application covers seeled sources, some ling, maintenance and region of the source. See Inclosure #8 13. WASTE DISPOSAL. If a commercial water disposal service is employed and and a drangement for performing initial rediction waters, service indigs, maintenance and region of the source. See Inclosure #8 14. WASTE DISPOSAL. If a commercial water disposal service is employed enclosed and carrier performing initial rediction of method which will be used for display of the source. See Inclosure #8 15. WASTE DISPOSAL. If a commercial water displaced se					DURATION	I OF EXI	PERIENCE			TYPE O	F USE	. <u></u>
(Include make and model number of each) AVAILABLE DEFECTED (mr/hr) (mg/cm) (Memitting, surraying, measuring) (Include make and model number of each) See Inclosure #4 (mr/hr) (mg/cm) (Memitting, surraying, measuring) 11. METHOD, FREQUENCY, AND STANDARDS USED IN CAUBANTING INSTRUMENTS LISTED ABOVE. See Inclosure #5 See Inclosure #5 12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of collibrating and processing, or nome of supplier.) See Inclosure #6 See Inclosure #6 13. FACUTIES AND EQUIPAENT. Describe laboratory facilities and remote handling equipment, storage containers, thirdding, fune hood, etc. Explanatory stork 14. BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. No See Inclosure #6 13. FACUTIES AND EQUIPAENT. Describe laboratory facilities and remote handling equipment, storage containers, thirdding, fune hood, etc. Explanatory stork 14. BADGES, DOSTAME to examine diation protection program including contal measures. See Inclosure #8 15. WASTE DIOPSAL. If a commercial waste diatant protection program including contal measures, tabuit detailed description of methods which will be used for disposing of redirective wastes and entimeter of protect proferms laboraties, tabuit detailed description of methods which will be used for disposing of redirective wastes and entimeter of protect proferms laboraties, tabuit detalled description of methods which will be used for di	10. RADIATION DETECTION INSTRUMENTS.	(Use supplem	ental sheets if ne	cessory.)		·····					
11. METHOD, FREQUENCY, AND STANDARDS USED IN CAURATING INSTRUMENTS LISTED ABOVE. See Inclosure #5 12. FRM BADGES, DOSIMETERS, AND BIOLASSAY PROCEDURES USED. (For film bodges, specify method of calibrating and processing, or nome of supplier.) See Inclosure #6 INFORMATION TO EE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE 13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remains bandling equipment, that cage containers, thirding, fume books, etc. Lice inclosure #6 11. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remains bandling equipment, that cage containers, thirding, fume books, etc. Lice inclosures #1 14. REPORTATION PROCEDURES Describes the nodicine proteins including control measures. If application covers sealed sources, submit leath testing and carrangements for performing initial rediction survey, servicing, maintenance and repair of the source. See Inclosure #8 Inclosure #8 Inclosure #8 Inclosure #7 Intervention protein protein including control measures. If application covers sealed sources, submit leath testing and carrangements for performing initial rediction survey, servicing, maintenance and repair of the source. See Inclosure #8 Inclosure #8 Inclosure #8 Inclosure #10 </td <td></td> <td></td> <td></td> <td>SENS</td> <td></td> <td>WIND</td> <td></td> <td>55</td> <td>(Monito</td> <td></td> <td></td> <td>asuring)</td>				SENS		WIND		55	(Monito			asuring)
See Inclosure #5 12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film bodges, specify method of calibrating and processing, or nome of supplier.) See Inclosure #6 INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE 13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, hume hands, etc. Explored by show the store application covers seeled sources, submit leak testing procedures where applicable, nome, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source. See Inclosure #8 13. WASTE DISPOSAL. If a commercial woste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radiactics wostes and estimate of the source. See Inclosure #8 14. RADIATION PROTECTION PROGRAM. Describe the total disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radiactics wostes and estimate of contrainer. The accordance with AR 755-15 INFORMATION TO FIGURE TO THE ESS OF OUR KNOWLEDGE AND BELLER. FOR THE COMPOMITY WITH THE 10, CODE OF FEDERAL REGULTIONS, PART 30, AND BALLER. INFORMATION OFFICIAL EXECUTING THIS CEMPLATE ON BEAD BELLER. FOR THE COMPOMITY WITH THE 10, CODE OF FEDERAL REGULTIONS, PART 30, AND BALLER. FOR THE COMPOMITY WITH THE 10, CODE OF FEDERAL REGULTIONS, PART 30, AND BALLER.		See Incl	osur o #4				• .			· · ·		
See Inclosure #5 12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film bodges, specify method of calibrating and processing, or nome of supplier.) See Inclosure #6 INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE 13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, hume hands, etc. Explored by show the store application covers seeled sources, submit leak testing procedures where applicable, nome, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source. See Inclosure #8 13. WASTE DISPOSAL. If a commercial woste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radiactics wostes and estimate of the source. See Inclosure #8 14. RADIATION PROTECTION PROGRAM. Describe the total disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radiactics wostes and estimate of contrainer. The accordance with AR 755-15 INFORMATION TO FIGURE TO THE ESS OF OUR KNOWLEDGE AND BELLER. FOR THE COMPOMITY WITH THE 10, CODE OF FEDERAL REGULTIONS, PART 30, AND BALLER. INFORMATION OFFICIAL EXECUTING THIS CEMPLATE ON BEAD BELLER. FOR THE COMPOMITY WITH THE 10, CODE OF FEDERAL REGULTIONS, PART 30, AND BALLER. FOR THE COMPOMITY WITH THE 10, CODE OF FEDERAL REGULTIONS, PART 30, AND BALLER.											, .	
INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE 13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remate handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Image: Star Star Star Star Star Star Star Star		See Inc	losure #5 5 USED. (For film	, bodge:	·	of calib	rating and prov	essing,	ornome	of supp	lier.)	
13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) See Inclosures #11 & #7 14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, agine, training, and experience of person to perform leak tests, and atrangements for performing initial radiation survey, servicing, maintenance and repair of the source. See Inclosure #8 15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify names of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. In accordance with AR 755-15 CERTIFICATE (This form training), be completed by applicant) 16. The APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE (This form training), and that the information control method which will supplement at the type and amount of activity involved. In accordance with AR 755-15 CERTIFICATE (This form training), be completed by applicant) 16. The APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE (This form training), and NUM OFFICIAL EXECUTING THIS CERTIFICATE (This form training), and NUM DER: 2011 23 11 WV 11 43S 826 ERADCOM TSA Conformation control measure in item 1 By: Walter S. MCAFEE Date7 August 1978 Date7 August 1978 WARMING.—18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stot. 749; makes it a criminal offentie to make a willfully, talke statement or the set of carifyting officient to control Contini the set of the set of carifyting officient to control contrained of the set		See Inc	losure #6		• •	•						
ct facility is attached. (Circle aniwer) () No See Inclosures #4 & #7 14. RADIATION PROTECTION PROCRAM. Describe the radiation protection program including control measures. If application covers seeled sources, submit leak testing procedures where applicable, name, training, and experience of person to perform teak tests, and arrangements for performing initial radiation survey, serv- icing, maintenance and repair of the source. See Inclosure #8 15. WASTE DISPOSAL. If a commercial woste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive waste and estimates of the type and amount of activity involved. In accordance with AR 755-15 CERTIFICATE (This them thus?) be completed by applicant) 16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE (This them thus?) be completed by applicant) 16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE (This them thus?) be completed by applicant) 16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE (This them thus?) be completed by applicant) 16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE (This them thus?) be completed by applicant) 16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION IS PREFABED IN CONFORMITY with TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELLEF. FOR THE COMMANDER: Licenso Fee Calegory s	INFORMAT	ION TO BE	SUBMITTED	ON	ADDITIONA	L SH	ETS IN D	UPLIC	ATE	· ·		
14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing proceedures where applicable, nome, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source. 15. WASTE DISPOSAL. If a commerciul waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. 16. WASTE DISPOSAL. If a commerciul waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. 16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CEM BLATE ON SEMAL CONFORMITY WITH TITLE 10, CODE OF FEDERAL REQUESTIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF. FOR THE COMMANDER: 23 11 WV 11 43S 8L/G-ERADCOM TSA Licenso Fee Calegory s				-			ners, shielding,	fume h	hoods, el	к. Ехр	lanatory sk	etch
be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. In accordance with AR 755-15 CERTIFICATE (This form trive) be completed by applicant) 16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE (This form trive) be completed by applicant) 16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALEOID THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF. FOR THE COMMANDER: Licensa Fee Category s Fee Enclosed s Date August 1978 Date August 1978 WARNING18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully talse statement or	testing procedures where applicable, name	, training, and ex	periance of person	n to per	form leak tests, a		• •				•	
16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALOOI THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF. FOR THE COMMANDER: Licenso Fee Calegory S Fee Enclosed S Date 7 August 1978 WARNING18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully talse statement of	be used for disposing of radioactive waste	and estimates a	the type and am	iount of	activity involved	'In a	ccordan	oiled d CO W	lescriptio rith	n of met AR 7	hods which 55–15	wilt
Licenso Fee Calegory s Fee Enclosed s Date 7 August 1978 WARNING18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully talse statement or	16. THE APPLICANT AND ANY OFFICIAL EXE PREPARED IN CONFORMITY WITH TITLE 10 SUPPLEMENTS ATTACHED HERETO, IS TRU	CUTING THIS C , CODE OF FEDE JE AND CORREC	ENDIATE ON B RAL REGULATIONS T TO THE BEST O	EHALD 5, PART FOUR	OR THE APPLICA 30, AND THAT KNOWLEDGE AN	NT NA	NED IN ITEM 1 ORMATION C					
UdAtid 33 WALTER S. MCAFEE D CG1a Representative on Ionizing Radia Title of certifying official tion Control Committee WARNING18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal officiate to make a willfully talse statement or					Applicant	named	in item 1	A	Po	 0		
			ENAED No esta la ta	200 938	WALTE CG's	R S. Repr	MCAFEE esentat	<i>l</i> ive	on I	ioniz 1 Co	ing R	adia-
							offense to	make	a witifu	ily, faise	statemer	nt or