Furth AEC-313 (5-58)	APP	ATOMIC ENERGY CO		Form approved. Budget Bureau No. 38-R027.1
plete only items 1 th supplemental sheets w Commission, Washingt	rough 7 and where necess ton 25, D. C cent will re energy regul	ary. Item 16 must be complete . Attention: Isotopes Bronc ceive an AEC Byproduct Mat- rements contained in Title 10	tial application. If application is changes in the program as reque d on all applications. Mail three h, Division of Licensing and Re erial License. An AEC Byproduc , Code of Federal Regulations, I	copies to: U. S. Atomic Energy gulation. Upon approval of thi
(g) NAME AND STREET AD	DRESS OF APP	ICANT. (Institution, firm, hospital,	(b) STREET ADDRESS(ES) AT WHICH BYP different from 1 (o).)	RODUCT MATERIAL WILL BE USED.
U. S. Army Me Fitzsimons Ge Denver 40, Co	eneral Ho	ch & Nutr Lab spital	Same as License No	
DEPARTMENT TO USE BYPRO	DOUCT MATERIA	1 - / · · · · ·	3. PREVIOUS LICENSE NUMBER'S). (If license, please indicate and give number	this is an application for renewal of r.)
Same as Lice	ense No.	5-46-12(L63)	5-46-12(L63) Renewa	
NDIVIDUAL USER(5) (No supervise use of byproduct m 9.)	ame and title of naterial Give I	individual(s) who will use or directly raining and experience in Items 8 and	 RADIATION PROTECTION OFFICER (No. tection officer if other than individual up perience as in Items 8 and 9.) 	ame of person designated as radiation p ser. Attach resume of his training and
Same as Lice	ense No.	5-46-12(L63)	Captain Kenneth	E. Kinnamon
Same as Licens 5-46-12(L63)	se No.	Same as License	No. 5-46-12(L63)	
pleted in lieu of this item.	If byproduct ma	herical is in the form of a sealed source,	yproduct material is for ''human use,'' suppl include the make and model number of	ement A (Form AEC-313a) must be com the storage container and/or device in
DESCRIBE PURPOSE FOR Spleted in lieu of this item which the source will be stor	If byproduct ma	herical is in the form of a sealed source,		ement A (Form AEC-313a) must be com the storage container and/or device is
pleted in lieu of this ithem.	If byproduct ma	erial is in the form of a sealed source,)		ement A (Form AEC-313a) must be com the storage container and/or device i

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8. TYPE OF TRAINING	ERIENCE OF E	ACH INDIVID	UAL NAMED IN ITE	M 4 (Use supplementa	1	T
B. TYPE OF TRAINING		WHERE	TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COURS (Circle answer)
a. Principles and practices of radiatio protection	the second se	License	No. 5-46-12	(163)	Yes No	Yes No
 Radioactivity measurement standardize tion and manitoring techniques and in struments 	P				Yes No	Yes No
 Mathematics and calculations basic to the use and measurement of radioactivity 					Yes No	Yes No
d. Biological effects of radiation	10.00				Yes No	Yes No
	l use of radioisa	tope: or equivale	ent experience.)			<u> </u>
the second s	HERE EXPERIENCE				TYPE O	FUSE
0. RADIATION DETECTION INSTRUMENTS		e No. 5-4	+5-12 (L63)			
and the second	and the second second second		1	WINDOW THICKNEES		ic E
TYPE OF INSTRUMENTS (Include make and model number of each)	AVAILABLE	DETECTED	SENSITIVITY RANGE	WINDOW THICKNESS (mg/cm ²)		ISE reying, measuring)
1 METHOD, FREQUENCY, AND STANDARDS	USED IN CALIBRA	TING INSTRUME	NTS LISTED ABOYE			****
	Say procedures	ame As Li USED. (For film	cense No. 5-	of calibrating and processi	ng, or name of suppl	lier.)
1. METHOD, FREQUENCY, AND STANDARDS 2. FILM BADGES, DOSIMETERS, AND BIO-ASS IN	Sa ay procedures Sa	ame As Li USED. (For Rim ame As Li	cense No. 5-	of calibrating and procession 46-12(L63)	ng, or name of suppl	lier.)
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2. FILM BADGES, DOSIMETERS, AND BIO-ASS IN 9. FACILITIES AND EQUIPMENT. Describe in of facility is attached. (Circle answer)	Sa AY PROCEDURES Sa FOR MATION boratory facilities Yes No escribe the radiat training, and exp	ame As Li USED. (For Rim ame As Li ITO BE SUSA and remote hand Same as ion protection pro- perience of person	cense No. 5- badges, specify method cense No. 5- MITTED ON ADDI dling equipment, storage License No. o gram including control to perform leak tests, a	of calibrating and procession 46-12(L63) TIONAL SHEETS containers, shielding, fum 5-46-12(L63) measures. If application nd arrangements for perfo	e hoods, etc. Expl covers sealed sourc	lanatory skøtch øs, submit leak
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PAGE 1	APPLICAT		approved. iet Bureau No	. 38-RO
		(internal administration of byproduct material, or the radiation therefrom the application for byproduct material license.	o human b	peings
(a) USING PHYSICIAN'S M	and the second	(b) NAME AND ADDRESS OF APPLICANT (If different from 1(a))		
Same as in Li	cense No.	No Change		
		NSED TO DISPENSE DRUGS IN THE PRACTICE OF MEDICINE BY A STATE OR TERRITORY HA, OR THE COMMONWEALTH OF PUERTO RICO. CIRCLE ANSWER	(75)	N
	IF ANSWER IS NO, USE	LADIOISOTOPE EXP_RIENCE (PAGE 3 OF THIS SUPPLEMENT) IS SUBMITTED IN SUPPORT E PAGE 2 OF THIS SUPPLEMENT TO EXPLAIN OR REFER TO OTHER APPLICATION OR TION APPEARS. CIRCLE ANSWER	YES	Ca
		PROPOSED DIAGNOSIS OR TREATMENT		
(Usz page 2 if necessai		Same As License No. 5-46-12(L63)		
		Same As Dicense No. 5-40-12(205)		
(c) DESCRIBE PROCEDURES	5 WHICH WILL BE OBSERV	ED TO MINIMIZE HAZARD FROM HANDLING, STORAGE, AND DISPOSAL OF THE BYPRODUCT	MATERIAL	
			phone and the second second	
The state of the second second second second second	ETCHES OF SPECIAL DEVIC TURE REFERENCES WILL S	CES TO BE USED FOR ADMINISTERING BYPRODUCT MATERIAL TO HUMAN BEINGS ARE	YES	N
 ATTACHED (LITERA ON FILE WITH THE REFER TO APPLICA PROPOSED DOSAGE SCHE 	TURE REFERENCES WILL S ISOTOPES EXTENSION TION NO	UFFICE) CIRCLE ANSWER	YES	ĸ
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	PAGE 2	
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11 #

UNITED STATES ATOMIC ENERGY COMMISSION APPLICATION FOR BYPRODUCT MATERIAL LICENSE

SUPPLEMENT A --- HUMAN USE

This page may be used for providing additional information. Please cross reference to specific items.

Physicians' Radioisotope experience has previously been submitted in connection with License 5-46-12(L63)

N.,

Form AEC-313 (5-58)	APPLICATION FOR BYPRODI		Form approved Budget Bureau No. 38-R027.3
plete only items] the supplemental sheets w Commission, Washingt application, the appli accordance with the g	aplete Items 1 through 16 if this is an in rough 7 and indicate new information o there necessary. Item 16 must be complet ton 25, D. C. Attention: Isotopes Bran cent will receive an AEC Byproduct Ma kneral requirements contained in Title 1 of Federal Regulations, Part 20.	r changes in the program as requeste ed on all applications. Mail three co ich, Division of Licensing and Regu Iterial License. An AEC Byproduct M	id in Items 8 through 15. Usi pies to: U. S. Atomic Energy lation. Upon approval of this Acterial License is issued in
(g) NAME AND STREET ADD person, etc.)		(b) STREET ADDRESS(ES) AT WHICH BYPROL different from 1 (a))	DUCT MATERIAL WILL BE USED. ()
V. S. Army Med Fitasimons Gen Beaver 40, Col		Samo as Lionass No.	5-46-12(163)
	DUCT MATERIAL	3. PREVIOUS LICENSE NUMBER(S). (If this license, please indicate and give number.)	is an application for renewal of a
	ne and title of individual(s) who will use or directly terial. Give training and experience in tems 8 and	5. RADIATION PROTECTION OFFICER (Name of tection officer if other than individual user, perience as in Items 8 and 9.)	of person designated as radiation pro Attach resume of his training and ex
Emm es Lioen	ee Ho. 5-46-12(163)	Ceptein Bonnoth B.	Rimerra
(a) BYPRODUCT MATERIAL and mass number of each		DRM AND MAXIMUM NUMBER OF MILLICURIES SESS AT ANY ONE TIME. (If sealed source(s), o mimum activity per source.)	
8ano eo Lioeneo 5-46-12(143)	No. Same as License	No. 5-46-12(143)	
	IICH BYPRODUCT MATERIAL WILL BE USED. (If by byproduct material is in the form of a sealed source, in and/or used)		
	the supplement A Se	or buingen woo	
	(Continued o		anner van at General and a state of the off the

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8. TYPE OF TRAINING		WHERE	TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COUR (Circle answer)
a. Principles and practices of radiati protection		s Licence	Bo. 5-46-12	(143)	Yes No	Yes No
b. Radioactivity measurement standardiz tion and monitoring techniques and i struments	n-				Yes No	Yes No
c. Mathematics and calculations basic to t use and measurement of radioactivity	he				Yes No	Yes No
d. Biological effects of radiation					Yes No	Yes No
and the second	al use of radiaisa	stepes or equival	ent experience.)			
ISOTOPE MAXIMUM AMOUNT	WHERE EXPERIENC	E WAS GAINED	DURATION	OF EXPERIENCE	TYPE O	FUSE
10. RADIATION DETECTION INSTRUMENTS	. (Use suppler	nental sheets if n				
TYPE OF INSTRUMENTS (Include make and model number of each)	AVAILABLE	DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm ²)	the second se	SE reying, measuring)
2. FEM BADGES, DOSIMETERS, AND BIO-AS	SAY PROCEDURES	USED. (For film	n badges, specify method	66-18(L63) of calibrating and processing), or name of suppl	
	EORMATION	TO BE SUR	MITTED ON ADDI	NONAL CHEFTS		
presentation of the second	and the second se	the state of the s	and the second se	containers, shielding, fume	hoods, etc. Expl	anatory sketch
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a sector density of the second sector in the second sector density of the second sector second sector and the second sector s	the offer an inclusion of the state of the local data and the	of the local day preside a window of the second states of	ust be completed	by applicant)		anerar covand ¹ covarian
THE APPLICANT AND ANY OFFICIAL EXE PREPARED IN CONFORMITY WITH TITLE 10 SUPPLEMENTS ATTACHED HERETO, IS TRU	CODE OF FEDER	AL REGULATIONS	PART 30, AND THAT A	ALL INFORMATION CONTA	INED HEREIN, INC	
	E.	SAEC.	1= Bauman	R. M. DOURLL,	Lt Col, 1	é
WARNING 18 U. S. C., Section 100 epresentation to any department or agency	I, Act of June :	25, 1948; 62-5	the 749; nickes it a interest within its invisdic	criminal offense to make tion.	a willfully false	statement or

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(10-61) PAGE 1	APPLICATIO	N FOR BYPRODUCT MATERIAL LICENSE	8udge	Bureau No.	38-R08
		SUPPLEMENT A-HUMAN USE			
		emal administration of byproduct material, or the rac pplication for byproduct material license.	diation therefrom to	human b	eings
(0) USING PHYSICIAN'S NAME		(b) NAME AND ADDRESS OF APPLICANT (If different from 1(a))			
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OF THE UNITED STATES, THE DIST	TRICT OF COLUMBIA, C	OR THE COMMONWEALTH OF PUERTO RICO.		YES	N
			CIRCLE ANSWER		
		DISOTOPE EXPERIENCE (PAGE 3 OF THIS SUPPLEMENT) IS SUBMIT GE 2 OF THIS SUPPLEMENT TO EXPLAIN OR REFER TO OTHER A	the second se		
RELATED DOCUMENTS ON WHICH	H THIS INFORMATION	APPEARS.	-	YES	NK
and the second second of the second			CIRCLE ANSWER		Concident PL Longe
		PROPOSED DIAGNOSIS OR TREATMENT HAL WILL BE USED INCLUDING SPECIFIC CONDITIONS OR DISEAS			
(6) CHEMICAL FORM ADMINISTER (c) DESCRIBE PROCEDURES WHICH		SORRE AS LLOODOD BD. 5-46-18		MATERIAL	
(d) DESCRIPTION AND SKETCHES (1) ATTACHED (LITERATURE RE		to be used for administering byproduct material to hum cei	IN BEINGS ARE CIRCLE ANSWER	YES	NC
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UNITED STATES ATOMIC ENERGY COMMISSION APPLICATION FOR BYPRODUCT MATERIAL LICENSE SUPPLEMENT A --- HUMAN USE

This page may be used for providing additional information. Please cross reference to specific items.

Physician" Reliciostope experience has provisedly base submitted in conmetics with License 5-46-12(163)

U. S. ARMY MEDICAL RESEARCH AND NUTRITION LABORATORY FITZSIMONS GENERAL HOSPITAL Desver 40. Colorado

24 May 1963

CHANGES IN USAMRNL RADIOISOTOFE COMMITTEE

Dr. John R. Handy has been appointed to replace Dr. William T. Nunes on the Radioisotope Committee for AEC License No. 5-46-11. In addition, Dr. James E. Hanson and Capt. Miller Smith have been appointed as members of the Committee.

Dr. Handy's qualifications have been previously submitted and is now a named user of radioisotopes on our Human AEC License No. 5-46-12.

Dr. Hassen is a Medical Corps officer licensed to practice medicine in the Sta's of California. He has had formal and on-the-job training at Brooke Army Medical Center and the U.S. Army Medical Research and Nutrition Laboratory, Fitzsimons General Hospital, in the principles and practices of radiation protection, radioactivity measurements, monitoring techniques, instruments, etc. Dr. Hansen's primary interests have been infectious disease and pulmonary physiology. He is certified by the Board of Internal Medicine in Medicine and Pulmonary Disease. He is a fellow of the American College of Physicians and a member of the American Thoracic Seciety.

Capt. Smith is a non-voting member of Supply and Service.

	ATOMIC ENERGY C	OMMISSION	
Form AEC-313 (5-58)	APPLICATION FOR BYPRODI		Form approved. Budget Bureau No. 38-R027.3
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U. S. ARMY MEDICAL RESEARCH AND NUTRITION LABORATORY FITZSIMONS GENERAL HOSPITAL Denver 40, Colorado

SPECIAL ORDERS NUMBER 29

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HANSEN, JAMES E.	062 926	Lt Col	MC	Chairman
HANDY, JOHN R. OL	032 496	Capt	MC	
KINNAMON, Kenneth E.	092 080	Capt	VC	
SMITH, MILLER 02	284 890	Capt	MSC (No	n-voting member)
SAUBERLICH, HOWERDE E.		DAC	PL-313	
HARDING, RICHARD S.		DAC	08-13	
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FOR THE COMMANDER:

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H. A. HOTSENPILLER Lt Col, MSC Adjutant

DISTRIBUTION:

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- 1 En Div USAMRNL
- 1 CO, USAMRNI.
- 1 00, FGH
- 1 Radioisotope Lab FCH
- 1 Rec Set
- 1 Ref Set

8. TYPE OF TRAINING	ERIENCE OF	EACH INDIVID	UAL NAMED IN IT	EM A (Use supplements	I sheets if necessary	
	1			DURATION OF		FORMAL COUR
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c. Mathematics and calculations basic to the use and measurement of radioactivity.	Construction in the second second	******			Yes No	Yes No
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U. S. ARMY MEDICAL RESEARCH AND NUTRITION LABORATORY FITZSIMONS GENERAL HOSPITAL Desver 49. Colorado

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