(3-80)	NRC-313 I L	1. APPLICATION FOR: (Check and/or complete as appropriate)				
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL					a. NEW LICENSE	
Comple Office Washin	of Nuclear Material Safety, an opton, DC 20555 or application	duplicate with the Division of Fund Safeguards, U.S. Nuclear Regules his may be filed in person at the C. or 7915 Eastern Avenue, Silve	latory Commission, Commission's office at		c. RENEWAL OF:	
	UNITOR SHIPS SI 310 PORT JERSEY PHONE NUMBER: AREA CO 201-433-9111	ERVICE, INC.	3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION  Richard M. Carlsen, Fire Shop Mgr. TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 201-433-9111			
6. INI	DIVIDUAL(S) WHILL VILL	y Blvd.  W Jersey 07305  S NEEDED FOR ANY ITEM,  USE OR DIRECTLY SUPERV	(Include Zip Code) 310 Port Jerse Jersey City, N  USE ADDITIONAL PROPE ISE THE USE OF LICENSI	ey New	Jersey 07305 YKEYED PAGES.)	
(Se	e Items 16 and 17 for scuired t	aining and experience of each ind	ividual named below)	-	TITLE	
	enneth James Kor		Resume Enclos			
	DIATION PROTECTION OFFIC		16 and 17 and describe his resp	onsi		
			Resume Enclos	sea		
L I N E	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTUR AND MODEL NUMBER (If Sealed Source)	ER	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D	
(1)	Co 60	Sealed Source	Ginge #62A02 Serial #2865		.5 MCI	
(2)						
(3)						
(4)						
	DESCRIBE USE OF LICENSED MATERIAL E					
(1)	Instrument is u	sed to measure CO	2 content of CO	2 c	ylinders.	
RE	07010614 870218 G1 LIC30 -20502-01 PD	R				

FORM NRC-313 | (3-80)

	-	9	STORAGE OF	SEALED SOURC	ES	adam como tradicione de los describeros sentencios con tentro de secuente del tradiciones de particiones de la restr
Z = Z = C		OR DEVICE IN WHICH E STORED OR USED.	ACH SEALED	NAME OF MANUFACTURER B.		MODEL NUMBER
(1)	Locked Box, stored inside in a lead shield. Picture		de it is re enclose	ed Ginge		MD.62A02 Ser. #2865
(2)						
(3)						
(4)						
***********	An order to the desired account of the second second control of the second control of th	10. RA	DIATION DETE	CTION INSTRUM	IENTS	on an extended of the approximation of the second contract of the second
1-Z#2	TYPE OF INSTRUMENT	MANUFACTURER'S NAME	MODEL NUMBER	NUMBER AVAILABLE	RADIATION DETECTED (alpha, beta, gamma, neutron)	SENSITIVITY RANGE (milliroentgens/hour or counts/minute)
140.	A	В	С	D	E	F
(1)	GEIGER, COUNT	TER LUDLUM	#5	1	Gamma	hour
(2)						
(3)						
(4)						
	Arten southern the seven core and account account	11. CALIBRA	ATION OF INST	RUMENTS LISTE	D IN ITEM 10	
Па	CALIBRATED BY S	ERVICE COMPANY		X b. CALIBRATE	D BY APPLICANT	The state of the s
		James Kopeck nited Hosp. M Jersey	ed. Ctr.	used for calibrat	find all pr	od, frequency and standards  ocedures
	(Check and/or comple		SUPPLIER (Service Company)		EXCHANGE FREQUENCY	
	1) FILM BADGE 2) THERMO: UMINESI DOSIMETER (TLD)					Ø MONTHLY  □ QUARTERLY
□ (3	OTHER (Specify):					OTHER (Specify):
		The state of the s				
A PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TO	13. FACILITIES	AND EQUIPMENT (CH	neck were approp	riate and attach ar	notated sketch(es) a	nd description(s).
	A LABORATORY FA D. STORAGE FACILITY C. REMOTE HANDLIN	CILITIES, PLA VT FACILI	TIES, FUME HOC CIAL SHIELDING NT, ETC.	DS (Include filtratio	on, if any), ETC.	d will be Crawing age area in Whse.
				DISPOSAL		The second secon
a. N	ent to them	in original c	ontainer.	/ Under or	rders of gin	ge source to be
BI	E USED FOR DISPOSI	NG OF RADIOACTIVE W	ASTES AND EST	MATES OF THE TY	PE AND AMOUNT OF	F METHODS WHICH WILL ACTIVITY INVOLVED. IF ANUFACTURER, SO STATE.
	•					
FORM	M NRC-313 I (3-80)					

		All Alleria	STORAGE OF	SEALED SOUR	S	ALTERNATURE CONTRACTOR
T-ZEO	CONTAINER AND/OR DEVISION WHAT EACH SEALE SOURCE WILL BE STORED OR USED.			NAME OF WANUFACTORER		MODEL NUMBER
(1)	Locked Box in a lead		Ginge		MD 62A02 Ser. #2865	
(2)	*					002. 0000
(3)						
(4)						
	y	the sign with the experience and the second delication of the contract of the	promise manera recommendation of the department of the professional pr	CTION INSTRUM	MENTS	
L-NEO.	TYPE OF INSTRUMENT	MANUFACTURER'S NAME	MODEL. NUMBER	NUMBER AVAILABLE	RADIATION DETECTED (alpha, beta, gamma, neutron)	SENSITIVITY RANGE (milliroentgens/hour or counts/minute)
(1)	GEIGER, COUNT	ER TUDTUM	C 4 C	1	Camma	hour
-	***************************************	LUDLUM	# 5		Gamma	hour
(2)						
(3)				***************************************	,	
(4)			*******************************			
		11. CALIBRA	ATION OF INSTE	RUMENTS LISTE	D IN ITEM 10	
		James Kopeck nited Hosp. M Jersey	ed. Ctr.	used for calibra	find all pr	cocedures
	(Check and/or completed)	1	(Ser. ce Company)			EXCHANGE FREQUENCY
□ (2) THERMOLUMINESCENCE DOSIMETER (TLD)			R.S. Landauer Jr. & Co.			MONTHLY  QUARTERLY
	OTHER (Specify):					OTHER (Specify):
	13. FACILITIES	AND EQUIPMENT (CH	neck were appropr	iate and attach ar	nnotated sketch(es) a	and description(s).
□ c	STORAGE FACILITY REMOTE HANDLIN	CILITIES, PLANT FACILI	TIES, FUME HOO CIAL SHIELDING ( NT, ETC. ETC.	DS (Include filtration fixed and/or tempor	on, if any), ETC.	d will be drawing age area in Whse.
a. NA	ME OF COMMERCIA	L WASTE DISPOSAL SEE	14. WASTE		rders of gir	ige source to be
b. IF	COMMERCIAL WAST	NG OF RADIOACTIVE W	S NOT EMPLOYED	MATES OF THE TY	PE AND AMOUNT OF	OF METHODS WHICH WILL ACTIVITY INVOLVED. IF IANUFACTURER, SO STATE.
			1,			

## INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

- 15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
- 16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
  - e. Principles and practices of radiation protection.
  - Radioactivity measurement standardization and monitoring techniques and instruments.
  - Mathematics and calculations basic to the use and measurement of radioactivity.
  - d. Biological effects of radiation.
- 17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.
  - All necessary information in these items supplied in enclosed letter.

## 18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, 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.

WARNING.-18 U.S.C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

b. CERTIFYING OFFICIAL (Signature)				
c. NAME (Type or print) Richard M. Carlsen				
d. TITLE Fire Shop Manager				
e. Date October 22, 1981				