and the second	M NRC-313 I U.S.	NUCLEAR REGULATORY		1. APPLICATION FOR: (Check and/or complete as appropriate)		
(1-75	A STATE OF THE STA			(Uneck and/or comprise as appropriate)		
	APPLICATION FOR B	YPRODUCT MATERI	AL LICENSE	a. NEW LICENSE		
See a	ttached instructions for details.			b. AMENDMENT TO:		
amp	leted applications are filed in dup	licate with the Division of F	uel Cycle and Material Safety,			
Nachi	of Nuclear Material Safety, and Sington, DC 20555 or applications	may be filed in person at the	e Commission's office at	c. RENEWAL OF:		
717	H Street, NW, Washington, D. C.	or 7915 Eastern Avenue, Sil	ver Spring, Maryland.	X 34-13845-01		
. API	PLICANT'S NAME (Institution, firm	n, person, etc.)	3. NAME OF PERSON TO BE APPLICATION	CONTACTED REGARDING THIS		
В	icron Corporation		R. R. Dayton			
TEL	EPHONE NUMBER: AREA CODE	- NUMBER EXTENSION	TELEPHONE NUMBER: AF	REA CODE - NUMBER EXTENSION		
- 27	216) 564-2251 PLICANT'S MAILING ADDRESS (Include Zip Code)		1 E LICENSED MATERIAL WILL BE USE		
1	2345 Kinsman Road		(Include Zip Code) 12345 Kinsman	Pond		
	embury, Chio 44065		Newbury, Ohio			
	(IE MORE SPACE IS N	HEEDED FOR ANY ITEM	USE ADDITIONAL PROPE	RLY KEYED PAGES.)		
i. IN	DIVIDUAL(S) WHO WILL US see Items 16 and 17 for required train	E OR DIRECTLY SUPER	VISE THE USE OF LICENSE	DMATERIAL		
13	FULL NAM	NAME OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.		TITLE		
R. R. Dayton			Director Product	Research		
b. W. P. Novak			Quality Assurance	Quality Assurance Director		
ŭ.						
7. RADIATION PROTECTION OFFICER R. R. Dayton			Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.			
		8. LICENSE	ED MATERIAL			
L	ELEMENT	CHEMICAL	NAME OF MANUFACTURE	MILLICURIES AND/OR SEALED		
N E	AND MASS NUMBER	AND/OR PHYSICAL FORM	MODEL NUMBER (If Sealed Source)	SOURCES AND MAXIMUM ACT VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIM		
NO.	Α	В	С	0		
1)	See Attachment Numb	er 1				
(2)						
(3)						
(4)						
			LICENSED MATERIAL			
(1)	Bicron manufactur	rers NaI(T1) Soint	dllation datastons	and was the tiese		
(2)	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bicron manufacturers NaI(T1) Scintillation detectors and uses the listed sources for detector test and calibration.				
and particular	som oss Int. mara	ment taur and dall	wration.	ADD 2.1 1000		
(3)						
(3)	(81012605	77	L EJEUS!	APH = 1 1900		

		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		SEALED SOURCE	ES	7
J-2E0	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED.			NAME OF MANUFACTURER 8.		MODEL NUMBER
(1)	Sources are stored in a 2" thi		thick	ick Bieron Corporation		M/A
21				***		
3)	for detector test or calibration		vation			
4)						
examinate de		10. RAD	DIATION DETE	CTION INSTRUM	ENTS	
L-NEO.	TYPE OF INSTRUMENT	MANUFACTURER'S NAME	MODEL NUMBER	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)	M.C.A.	Bicron Test System	N/A	N/A	Alpha/Gamma	≤.005 MR/HR.
2)						
3)						
4)						
-		11. CALIBRA	TION OF INST	RUMENTS LISTE	D IN ITEM 10	Anna anna managan anna anna anna anna ann
) a.	CALIBRATED BY S	ERVICE COMPANY		Attach a separat	ED BY APPLICANT	d, frequency and standard
□ a.		ERVICE COMPANY AND FREQUENCY		Attach a separal used for calibrat	te sheet describing metho ting instruments.	
□ a.	NAME, ADDRESS,	ERVICE COMPANY AND FREQUENCY 12. PER		Attach a separal used for calibrat	te sheet describing metho ting instruments.	
	NAME, ADDRESS,	ERVICE COMPANY AND FREQUENCY 12. PER	SONNEL MON	Attach a separal used for calibrat	te sheet describing metho ting instruments.	aily.
	NAME, ADDRESS, A	ERVICE COMPANY AND FREQUENCY 12. PER	SONNEL MON	Test and TORING DEVICE SUPPLIER (Service Company)	te sheet describing metho ting instruments.	exchange Frequenc
J (1	NAME, ADDRESS, A	ERVICE COMPANY AND FREQUENCY 12. PER tre as appropriate.)	SONNEL MON	Test and TORING DEVICE SUPPLIER (Service Company)	te sheet describing metho ting instruments.	EXCHANGE FREQUENC C
Ü(1	(Check and/or complete) FILM BADGE THERMOLUMINES	ERVICE COMPANY AND FREQUENCY 12. PER tre as appropriate.)	SONNEL MON	Test and TORING DEVICE SUPPLIER (Service Company)	te sheet describing metho ting instruments.	EXCHANGE FREQUENCE C
O(1)	TYPE (Check and/or comple A) FILM BADGE) THERMOLUMINES DOSIMETER (TLD)	ERVICE COMPANY AND FREQUENCY 12. PER tre as appropriate.)	SONNEL MON	Test and TORING DEVICE SUPPLIER (Service Company)	te sheet describing metho ting instruments.	EXCHANGE FREQUENCE O MONTHLY OUARTERLY
IJ(1 □(2	TYPE (Check and/or complete A) FILM BADGE) THERMOLUMINES DOSIMETER (TLD.) OTHER (Specify):	ERVICE COMPANY AND FREQUENCY 12. PER tre as appropriate.)	SONNEL MON	Test and ITORING DEVICE SUPPLIER (Service Company) 8	to sheet describing methoting instruments. I calibration describing to the control of the contr	EXCHANGE FREQUENCE MONTHLY OUARTERLY OTHER (Specify):
(1) (2)	TYPE (Check and/or comple A) FILM BADGE) THERMOLUMINES DOSIMETER (TLD)) OTHER (Specify): X/A 13. FACILITIES	12. PER 12. PER 12. PER 13. PER 14. PER 15. PER 16. PER 16. PER 17. PER	eck were approp	Test and Togrice Company) Briate and attach as	to BY APPLICANT to sheet describing metho ting instruments. I calibration do ES	EXCHANGE FREQUENCE MONTHLY OUARTERLY OTHER (Specify):
] (1] (2] (3	TYPE (Check and/or comple A) FILM BADGE) THERMOLUMINES DOSIMETER (TLD:) OTHER (Specify):	TIES, CONTAINERS, SPEC	eck were appropries, FUME HORIZIAL SHIELDING	Test and Tost a	to sheet describing methoring instruments. I calibration do ES Innotated sketch(es) ar	EXCHANGE FREQUENCE MONTHLY OUARTERLY OTHER (Specify):
](1)](2)](3)](3)	TYPE (Check and/or comple A) FILM BADGE) THERMOLUMINES DOSIMETER (TLD) OTHER (Specify): X/A 13. FACILITIES LABORATORY FA STORAGE FACILI REMOTE HANDLI	12. PER 12. PER 12. PER 13. PER 14. PER 15. AND EQUIPMENT (Ch. 16. CILITIES, PLANT FACILI	eck were appropries, FUME HORITES, FUME HORITES, ETC.	Test and Tost a	ED BY APPLICANT te sheet describing metho ting instruments. I calibration d ES Innotated sketch(es) ar an, if anyl, ETC. raryl, ETC.	EXCHANGE FREQUENCE MONTHLY OUARTERLY OTHER (Specify):
(1) (1) (2) (3) (3) (4) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	TYPE (Check and/or comple A) FILM BADGE) THERMOLUMINES DOSIMETER (TLD) OTHER (Specify): X/A 13. FACILITIES LABORATORY FA STORAGE FACILI REMOTE HANDLI	AND FREQUENCY 12. PER 12. PER 13. PER 14. PER 15. CENCE 16. CENCE 17. CENCE 18. CENCE 19.	eck were appropries, FUME HORIT, ETC.	Test and Tost a	ED BY APPLICANT te sheet describing metho ting instruments. I calibration d ES Innotated sketch(es) ar an, if anyl, ETC. raryl, ETC.	EXCHANGE FREQUENCE MONTHLY OUARTERLY OTHER (Specify):
O (1)	TYPE (Check and/or complete A) FILM BADGE) THERMOLUMINES DOSIMETER (TLD)) OTHER (Specify): N/A 13. FACILITIES LABORATORY FA STORAGE FACILI RESPIRATORY PR	AND FREQUENCY 12. PER 12. PER 13. PER 14. PER 15. CENCE 16. CENCE 17. CENCE 18. CENCE 19.	eck were appropries, FUME HORIT, ETC. 14. WAST	Test and Test and Test and Test and Test and Toring Device Supplier (Service Company) B Disposal (fixed and/or tempor	ED BY APPLICANT te sheet describing metho ting instruments. I calibration d ES Innotated sketch(es) ar an, if anyl, ETC. raryl, ETC.	EXCHANGE FREQUENCE MONTHLY OUARTERLY OTHER (Specify):

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:

See attachments Mumber 2 and Mumber 3.

- 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.
 - a. 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.

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.

a. LIUENSE FEE REQUIRED (See Section 170,31, 10 CFR 170)	b. CERTIFYING OFFICIAL (Signature)		
	c. NAME (Type or print)		
8110,00	R. R. Dayton		
(1) LICENSE PEE CATEGORY:	d. TITLE Director of Product Research		
(2) LICENSE FEE ENCLOSED: \$ 110.00	October 15, 1980		

FORM NOC 212 1 (1 70)