FORM (1-79	M NRC-313 I			APPLICATION FOR:		
	FR 30			(Check and/or complete as a		
	APPLICATION FO	OR BYPRODUCT MATER			X a. NEW LICENSE	
See at	tached instructions for detail	18.			b. AMENDMENT TO	
Office Washin	eted applications are filed of Nuclear Material Safety gion, DC 20555 or applica 4 Street, NW, Washington,	Commission's office at		RENEWAL OF LICENSENUMBI		
2. APP	LICANT'S NAME (Institution	on, firm, person, etc.)	3. NAME OF PERSON TO BE I	CON	TACTED REGARDIN	
T	ighe & Bond/SCI	John P. Lambert  TELEPHONE NUMBER AREA CODE - NUMBER EX (413) 527-5600 539 0399		rt = 03		
(4	PHONE NUMBER AREA : 413) 527-5600					
4. APP	LICANT'S MAILING ADDR	IESS (Include Zip Code)	5. STREET ADDRESS WHERE (Include Zip Code)	LIC	ENSED MATERIAL W	
5	O Payson Avenue		50 Payson Av	ren	ue	
		ssachusetts 01027	Easthampton, Massachusetts 0			
	(IF MORE SPACE	IS NEEDED FOR ANY ITEN	LUSE ADDITIONAL PROPER	LY	KEYED PAGES.	
	DIVIDUAL(S) WHO WIL		VISE THE USE OF LICENSED		THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN	
100		NAME	1	T	TLE	
. 37	Inginic Water		The track of the Land Co. The			
. v	irginia Weisse		Laboratory Technician			
b. R	obert Eaton	Laboratory Technician				
C.						
	HATION PROTECTION OF	Attach a resume of person's training and experience as outling 16 and 17 and describe his responsibilities under Item 15.				
J	ohn P. Lambert	8. LICENSE	ED MATERIAL			
L I N E	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source)		MAXIMUM NUM MILLICURIES AND/C SOURCES AND MAX VITY PER SOURCE W BE POSSESSED AT AN	
NO.	Α	8	С		D	
(1)-	Nickel 63	Sealed Source	New England Nucle	ar	15 Millicu	
(2)			See attached sheet			
(3)	- License Fee lafor		for # 8C,			
(4)	on Beverse S	ATTENDED				
	Table 1	DESCRIBE USE OF	LICENSED MATERIAL			
(1)	The sealed detector cell containing Nickel 63 foil shall be used in Perkin					
(2)	which cuts off at 450° ML10 COPIES SENT TO OFF. OF  "OFFICIAL RECOID COPY" TO OFF. OF  "OFFICIAL RECOID COPY" TO OFF. OF  "OFFICIAL RECOID COPY" TO OFF. OF					
131-	which cuts off a	t 450° del COPIES	SENT -			
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*****	ceti	167 manes

" tyring and 15 Just 10"

		9	STORAGE OF	SEALED SOURCE	ES		
Z-ZEO.	CONTAINER AND/O	R DEVICE IN WHICH E ORED OR USED. A.	ACH SEALED	NAME OF MANUFACTURER B.		MODEL NUMBER	
(1)	Deposited o	on gold or plat	inum foil,	Perkin-Elmer		330-0119	
(2)	sealed in D	etector Cell					
(3)							
(4)							
		10. RA	DIATION DETE	CTION INSTRUM	ENTS		
J-2m0.	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)	Faller		N A				
(2)							
(3)							
(4)							
		11. CALIBRA	ATION OF INSTI	RUMENTS LISTER	D IN ITEM 10		
		NA	DEC NINE L MONI	TORING DEVICE	c		
	TYPE	12. PE	NSUNIVEE MON	SUPPLIER	3	EXCHANGE FREQUENC	
	(Check and/or complete	as appropriate.)	-	Service Company)		C	
	) FILM BADGE  THERMOLUMINESCE DOSIMETER (TLD)	NCE	NA			☐ MONTHLY	
□ (3) OTHER (Specify):					OTHER (Specify):		
191							
		ND EQUIPMENT (C				nd description(s).	
[] b	STORAGE FACILITIE REMOTE HANDLING	ES, CONTAINERS, SPE	CIAL SHIELDING				
() d	RESPIRATORY PROT	ECTIVE EQUIPMENT.	AND DESCRIPTION OF THE PROPERTY OF THE PARTY	DIEBOSAL			
	ME OF COMMERCIAL		RVICE EMPLOYED		A C		
h iF BE	COMMERCIAL WASTE USED FOR DISPOSING	DISPOSAL SERVICE I	S NOT EMPLOYED	SUBMIT A DETAIL	LED DESCRIPTION O	and, N.Y. 1407  F METHODS WHICH WILL  ACTIVITY INVOLVED H  ANUFACTURER SOSTA	

FORM NRC 3131 (1-79)

# #-8 C Foil Manufactured by:

New England Nuclear Corporation 575 Albany Boston, Mass. Foil Model NER-002

or

Nuclear Radiation Development Corp. 2937 Alt Blvd. Grand Island, New York 14070 Foil Model N1001

or

Amersham/Searle Corp. 2637 S. Clearbrook Dr. Arling Heights, Illinois Foil Model N.B.C. 7020 This page contains answers to question 15, 16, and 17.

# 15. RADIATION PROTECTION PROGRAM:

Detailed instructions for installing, operating and wipe testing detector cells are contained in the instruction manual supplied with the Model SIGMA 1, 2, 3, and 4 Gas Chromatographs.

Wipe tests for radioactivity are required at 6 month intervals. Instructions for conducting the wipe test are included in the manual and in the wipe test kit (P-E Part No. 009-1667) shipped with the detector cell. The wipe test is to be submitted to one of the following for a radiation survey.

16 and 17.

# Robert M. Eaton, Laboratory Technician

As Environmental Sciences, Holyoke Community College Strong chemistry background:

Inorganic chemistry - 8 hours - nuclear chemistry included Organic chemistry - 8 hours Environmental chemistry - 8 hours Environmental pollution 4 hrs - included nuclear principles.

Mr. Eaton also has formal education and use of the Gas Chromatograph to be purchased; he will also attend the Perkin-Elmer 3 day training program.

## Virginia M. Weisse, Laboratory Technician

B.S. Public Health, University of Massachusetts

Mrs. Weisse via her degree requirement has a great deal of experience with nuclear medicine and radiation or a public health problem; she will attend the Perkin-Elmer 3 day training program.

## John P. Lambert, Laboratory Director

B.S. Biology M. Ed. Biology Springfield College Springfield College

Mr. Lambert has a strong biological background which included several courses dealing with radiation both as a biological tool and as a public health factor. Prior to his employment at Tighe & Bond/SCI, Mr. Lambert was Associate Professor of Environmental Sciences at Berkshire Community College (Pittsfield, Ma.). He will attend the Perkin-Elmer 3 day training program.

#### 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.
  - 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.

SEE ATTACHED SHEET FOR 15, 16, and 17.

### 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 DEFICIAL (Signature)				
C. NAME (Type or print) JUAN P. LAMBERT				
d. TITLE Lab DIRector				
9-23-80				

FORM NRC-313 1 (1-79)

1104 Spectrophetonter. Gas \* 12'XIP' Atomic Absorption Spectrophitemeter! Jemeral Lab 34 x 4 2' Solids Lab Lab is located in basement area of Tight and Bond/SCI building so Payem Ave Easthamaton, MA 01027

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