

FORM NRC-313M 7-77 10 CFR 30	U.S. NUCLEAR REGULATORY COMMISSION APPLICATION FOR MATERIALS LICENSE - MEDICAL
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INSTRUCTIONS: Complete items 1 through 25 if this is an initial application or an application for renewal of a license. Use supplemental sheets where necessary. Item 25 must be completed on all applications and signed. Mail two copies to: Director, Office of Nuclear Materials Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555. Upon approval of this application, the applicant will receive a NRC Materials License. A NRC Materials License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Parts 19, 20, and 25 and the license fee provision of Title 10, Code of Federal Regulations, Part 170. The license fee category should be stated in Item 25 and the appropriate fee enclosed.

1.a. NAME AND MAILING ADDRESS OF APPLICANT (institution, firm, clinic, physician, etc.) INCLUDE ZIP CODE Veterans Administration Medical Center 4101 Woolworth Ave. Omaha, NE 68105 TELEPHONE NO.: AREA CODE (402) 346-8800, X432	1.b. STREET ADDRESS(ES) AT WHICH RADIOACTIVE MATERIAL WILL BE USED (if different from 1.a.) INCLUDE ZIP CODE
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2. PERSON TO CONTACT REGARDING THIS APPLICATION Alan J. Blotcky TELEPHONE NO.: AREA CODE (402) 346-8800, X432	3. THIS IS AN APPLICATION FOR: (Check appropriate item) a. <input type="checkbox"/> NEW LICENSE b. <input type="checkbox"/> AMENDMENT TO LICENSE NO. _____ c. <input checked="" type="checkbox"/> RENEWAL OF LICENSE NO. 26-00138-10
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4. INDIVIDUAL USERS (Name individuals who will use or directly supervise use of radioactive material. Complete Supplements A and B for each individual.) As approved by the Omaha VA Medical Center Isotope Committee.	5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Supplement A.) Alan J. Blotcky, M.S. (For training and experience see attachment II, application for broad license dated April 12, 1968.)
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6.a. RADIOACTIVE MATERIAL FOR MEDICAL USE					
RADIOACTIVE MATERIAL LISTED IN:	MARK ITEMS DESIRED "X"	MAXIMUM POSSESSION LIMITS (In millicuries)	ITEM	MARK ITEMS DESIRED "X"	MAXIMUM POSSESSION LIMITS (In millicuries)
10 CFR 31.11 FOR IN-VITRO STUDIES			IODINE-131 AS IODIDE FOR TREATMENT OF HYPERTHYROIDISM AND CARDIAC DYSFUNCTION	X	500
10 CFR 35.100, SCHEDULE A, GROUP I	X	AS NEEDED	PHOSPHORUS-32 AS SOLUBLE PHOSPHATE FOR TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA AND BONE METASTASES	X	500
10 CFR 35.100, SCHEDULE A, GROUP II	X	AS NEEDED	PHOSPHORUS-32 AS COLLOIDAL CHROMIC PHOSPHATE FOR INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS.		500
10 CFR 35.100, SCHEDULE A, GROUP III	X		GOLD-198 AS COLLOID FOR INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS.		300
10 CFR 35.100, SCHEDULE A, GROUP IV	X	AS NEEDED	IODINE-131 AS IODIDE FOR TREATMENT OF THYROID CARCINOMA		500
10 CFR 35.100, SCHEDULE A, GROUP V	X	AS NEEDED	XENON-133 AS GAS OR GAS IN SALINE FOR BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES.		3,000
10 CFR 35.100, SCHEDULE A, GROUP VI	X				

6.b. RADIOACTIVE MATERIAL FOR USES NOT LISTED IN ITEM 6.a. (Small sealed sources (up to 3m Ci) used for calibration and reference standards are authorized under Section 35.14(d), 10 CFR Part 35, and NEED NOT BE LISTED)			
ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	MAXIMUM NUMBER OF MILLCURIES OF EACH FORM	DESCRIBE PURPOSE OF USE
A. Any byproduct material with atomic nos. 3-83, inclusive		50 per nuclide except	Medical research diagnosis, and therapy. Research and development as defined under section 30.4(q), Title 10CFR, Part 30. Tracer studies in laboratory animals.
iodine-125	any	100	
iodine-131	any	500	
gold-198	any	300	

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6B continued on attached sheet.

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26-00138-10 PDR

INFORMATION REQUIRED FOR ITEMS 7 THROUGH 23

Submit a detailed description of all the information requested in Items 7 through 23. Begin each item on a separate sheet. Identify the item number and the date of the application in the lower right hand corner of each page. Two copies of each appended sheet should be submitted with the application.

7. MEDICAL ISOTOPES COMMITTEE

- a. Committee's Duties and Responsibilities.
- b. Meeting Frequency.
- c. Name and Specialty of Each Committee Member.

8. TRAINING AND EXPERIENCE.

- a. Authorized User(s). *(Each physician must complete Supplements A and B.)*
- b. Radiation Safety Officer.
(Complete Supplement A, if other than a physician already listed.)

9. INSTRUMENTATION. *(List by manufacturer's name and model number.)*

- a. Survey Instruments.
- b. Dose Calibrator.
- c. Diagnostic Instruments.
- d. Other *(e.g. liquid scintillation counter, area monitor.)*

10. CALIBRATION OF INSTRUMENTS.

- a. Methods.
- b. Frequency.
- c. Standards (Radionuclide and Activity).

11. FACILITIES AND EQUIPMENT. *(Complete description and diagram.)*

12. PERSONNEL TRAINING PROGRAM AND FREQUENCY.

13. PROCEDURES FOR ORDERING AND RECEIPT OF RADIOACTIVE MATERIAL

14. PROCEDURES FOR SAFELY OPENING PACKAGES CONTAINING RADIOACTIVE MATERIAL

15. GENERAL LABORATORY RULES FOR THE SAFE USE OF RADIOACTIVE MATERIALS.

16. EMERGENCY PROCEDURES, INCLUDING NAMES AND TELEPHONE NUMBERS OF PERSONNEL TO BE NOTIFIED.

17. AREA SURVEY PROCEDURES.

18. WASTE DISPOSAL PROCEDURES.

19. THERAPEUTIC USE OF RADIOPHARMACEUTICALS.

- a. Procedures
- b. Precautions.
- c. Personnel Instructions.

20. THERAPEUTIC USE OF SEALED SOURCES.

- a. Procedures.
- b. Precautions.
- c. Personnel Instructions.

21. PROCEDURES AND PRECAUTIONS FOR USE OF RADIOACTIVE GASES. *(e.g., xenon-133)*

22. PROCEDURES AND PRECAUTIONS FOR USE OF RADIOACTIVE MATERIAL IN ANIMALS.

23. PROCEDURES AND PRECAUTIONS FOR USE OF RADIOACTIVE MATERIAL SPECIFIED IN ITEM 6.8.

6B, Cont'd.

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delet
carbon-14 any 100
phosphorus-32 any 500
cobalt-60 any 60
cesium-137 any 150
hydrogen-3 any 10,000

Item 6B
Nov. 11, 1978

24. PERSONNEL MONITORING DEVICES

	TYPE <small>(Check appropriate box)</small>	SUPPLIER	EXCHANGE FREQUENCY
a. WHOLE BODY	<input checked="" type="checkbox"/> FILM	Radiation Detection Co.	Monthly
	<input type="checkbox"/> TLD	Sunnyvale, California	
	<input type="checkbox"/> OTHER (Specify)		
b. FINGER	<input type="checkbox"/> FILM		
	<input checked="" type="checkbox"/> TLD	Radiation Detection Co.	Monthly
	<input type="checkbox"/> OTHER (Specify)		

c. OTHER (Specify)

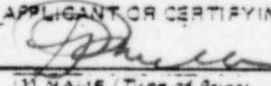
25. FOR PRIVATE PRACTICE APPLICANTS ONLY

a. HOSPITAL AGREEING TO ACCEPT PATIENTS CONTAINING RADIOACTIVE MATERIAL			
NAME OF HOSPITAL		b. ATTACH A COPY OF THE AGREEMENT LETTER SIGNED BY THE HOSPITAL ADMINISTRATOR. c. WHEN REQUESTING THERAPY PROCEDURES, ATTACH A COPY OF RADIATION SAFETY PRECAUTIONS TO BE TAKEN AND LIST AVAILABLE RADIATION DETECTION INSTRUMENTS.	
MAILING ADDRESS			
CITY	STATE ZIP CODE		

26. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 1a certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 20, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

a. LICENSE FEE REQUIRED <small>(See Section 170.31, 10 CFR 170)</small>	b. APPLICANT OR CERTIFYING OFFICIAL (Signature) 
	(1) NAME (Type of Print) T. P. MULLON
(1) LICENSE FEE CATEGORY:	(2) TITLE Director 97365
(2) LICENSE FEE ENCLOSED: \$	c. DATE 11/11/78

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION PROTECTION OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION PROTECTION OFFICER

2. STATE OR TERRITORY IN
WHICH LICENSED TO
PRACTICE MEDICINE

3. CERTIFICATION

SPECIALITY BOARD
ACATEGORY
BMONTH AND YEAR CERTIFIED
C

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING
ALOCATION AND DATE(S) OF TRAINING
B

TYPE AND LENGTH OF TRAINING

LECTURE/
LABORATORY
COURSES
(Hours)
CSUPERVISED
LABORATORY
EXPERIENCE
(Hours)
Da. RADIATION PHYSICS AND
INSTRUMENTATION

b. RADIATION PROTECTION

c. MATHEMATICS PERTAINING TO
THE USE AND MEASUREMENT
OF RADIOACTIVITY

d. RADIATION BIOLOGY

e. RADIOPHARMACEUTICAL
CHEMISTRY