

## INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

1. LICENSEE Veterans Administration Hospital 150 Muir Road Martinez, California 94553		2. REGIONAL OFFICE US Nuclear Regulatory Commission Office of Inspection & Enforcement 1990 N. California Blvd., Suite 202 Walnut Creek, CA 94596	
3. DOCKET NUMBER(S)		4. LICENSE NUMBER(S) 04-02956-01	5. DATE OF INSPECTION April 19, 1976
6. INSPECTION FINDINGS The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:  <input checked="" type="checkbox"/> No items of noncompliance or unsafe conditions were found.  The following items of noncompliance related to records, signs, and labels were found:  <input type="checkbox"/> A. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 34.42 <input type="checkbox"/> B. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 34.42 <input type="checkbox"/> C. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d) <input type="checkbox"/> D. Rooms or areas were not properly posted to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(e) <input type="checkbox"/> E. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(f) (1) or (f) (2) <input type="checkbox"/> F. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b) <input type="checkbox"/> G. Form AEC-3 was not properly posted. 10 CFR 20.206(c) <input type="checkbox"/> H. Records of the radiation exposure of individuals were not properly maintained. 10 CFR 20.401(a) or 34.33(b) <input type="checkbox"/> I. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 34.43(d) <input type="checkbox"/> J. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.51, 40.61 or 70.51 <input type="checkbox"/> K. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 34.25(c) <input type="checkbox"/> L. Records of inventories were not maintained. 10 CFR 34.26 <input type="checkbox"/> M. Utilization logs were not maintained. 10 CFR 34.27 <input type="checkbox"/> N. Records of radiation survey instrument calibration were not maintained. 10 CFR 34.24 <input type="checkbox"/> O. Records of teletherapy electrical interlock tests were not maintained as prescribed in your license. <input type="checkbox"/> P. Other _____  8408160318 840803 NMS LIC30 04-02956-02 PDR  Raymond J. Fish, Jr. AEC Compliance Inspector			
7. The AEC Compliance Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.  _____ (Date)  _____ (Licensee Representative - Title or Position)			

NUCLEAR MEDICINE SURVEY

V.A. Hospital  
150 Muir Road  
Martinez, CA 94553

11/11/77

Attention: J. F. Mangum, M.D.  
& Claire Baie, R.T.,  
Chief Technologist

R.E. NRC License # 04-02956-01

General:

A review of the NRC License requirements and a review of the Departments records indicate that proper procedures are being followed. All radionuclides used in the Department are properly listed with adequate quantities (mCi) on the license. All authorized users were also listed.

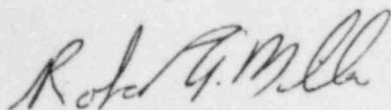
A written procedure manual is available in the Department and is adequately written. The only addition that might be suggested are procedures for remedial action in case of a radioactive spill and nursing instructions for I-131 therapy doses (see attached example).

All records on the Radiopharmaceuticals, such as receipt, disposition and disposal, are adequate. However, every entry in the record book should be accompanied with the initial of the records.

The quality control records are kept on the equipment and the procedure for doing so is written. However, the parameters, such as intensity, percent window and radionuclide is not recorded on each flood field or bar phantom that is performed. It is recommended that the parameters be listed with the polaroid picture on each test.

The nuclear medicine equipment was found to be in good working order. If you have any questions, please contact me.

Sincerely,



Robert A. Miller  
Radiation Physicist  
ABR Certified  
717 Paloma Avenue  
Stockton, CA 95207  
(209) 478-3958

## APPLICATION FOR MATERIALS LICENSE - MEDICAL

**INSTRUCTIONS** - Complete items 1 through 28 if this is an initial application or an application for renewal of a license. Use supplemental sheets where necessary. Item 28 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 35 and the license fee provision of Title 10, Code of Federal Regulations, Part 170. The license fee category should be stated in item 28 and the appropriate fee enclosed.

1.a. NAME AND MAILING ADDRESS OF APPLICANT (institution, firm, clinic, physician, etc.) INCLUDE ZIP CODE

Veterans Administration Hospital  
150 Muir Road  
Martinez, California 94553

TELEPHONE NO.: AREA CODE (415) 228 6800

1.b. STREET ADDRESS(ES) AT WHICH RADIOACTIVE MATERIAL WILL BE USED (if different from 1.a.) INCLUDE ZIP CODE

Veterans Administration Hospital  
150 Muir Road  
Martinez, California 94553

2. PERSON TO CONTACT REGARDING THIS APPLICATION

J. F. MANGUM, M.D.

TELEPHONE NO.: AREA CODE (415) 228 6800

3. THIS IS AN APPLICATION FOR: (Check appropriate item)

a. ☐ NEW LICENSE

b. ☐ AMENDMENT TO LICENSE NO. \_\_\_\_\_

c. ☒ RENEWAL OF LICENSE NO. 04-02956-02

4. INDIVIDUAL USERS (Name individuals who will use or directly supervise use of radioactive material. Complete Supplements A and B for each individual.) Paul A. Farrer, M.D., J. F. Mangum, M.D., Albert Weinshelbaum, M.D., Ildiko Sandford, M.D., E.C. Larkin, M.D., Harold Tinburg, Phd.

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.)

J. F. Mangum, M. D.

## 6.a. RADIOACTIVE MATERIAL FOR MEDICAL USE

RADIOACTIVE MATERIAL LISTED IN:	MARK ITEMS DESIRED	MAXIMUM POSSESSION LIMITS	ITEM	MARK ITEMS DESIRED	MAXIMUM POSSESSION LIMITS
	"X"	(In millicuries)		"X"	(In millicuries)
10 CFR 31.11 FOR IN-VITRO STUDIES	X	As in 10 CFR 31, 1	IODINE-131 AS IODIDE FOR TREATMENT OF HYPERTHYROIDISM AND CARDIAC DYSFUNCTION	X	50mCi
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	20mCi
10 CFR 35.100, SCHEDULE A, GROUP II	X	AS NEEDED	PHOSPHORUS-32 AS COLLOIDAL CHROMIC PHOSPHATE FOR INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS.	X	20mCi
10 CFR 35.100, SCHEDULE A, GROUP III	X	2,3,4 As needed	GOLD-198 AS COLLOID FOR INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS.		
10 CFR 35.100, SCHEDULE A, GROUP IV	X	AS NEEDED	IODINE-131 AS IODIDE FOR TREATMENT OF THYROID CARCINOMA	X	200mCi
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.	X	1 Ci
10 CFR 35.100, SCHEDULE A, GROUP VI					

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 MILLICURIES OF EACH FORM	DESCRIBE PURPOSE OF USE
Rubidium - 86		10mCi	In Vitro Studies