



DEPARTMENT OF THE ARMY
OFFICE OF THE SURGEON GENERAL
WASHINGTON, D.C. 20315

614 *the*

IN REPLY REFER TO:
MEDPS-PO

29 August 1967

Isotopes Branch
Division of Materials Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

Gentlemen:

Recommend Byproduct Material License Number 10-3997-4 for the Third U. S. Army Medical Laboratory be amended to include the requested standards which are byproduct materials.

Sincerely,

WILLIAM E. FROEMMING
Colonel, M. C.
Preventive Medicine Division

1 Incl
Ltr dtd 22 Aug 67
with incl (in trip)

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LICENSE CONTROL FORM

18. APPLICANT Department of the Army Third U. S. Army Medical Laboratory and U. S. Army Hospital			61. PROG. CODE 614	03. LICENSE NO. 10-03997-04	06. AMDT. 05	09. TASK NO. T05	12. CONTROL NO. 96708			
21. STREET OR BUILDING			63. ASG TO NB	42. PURPOSE OF TASK IN FIELD 09* Amendment						
24. CITY OR POST OFFICE Fort McPherson	27. STATE GA	30. ZIP 30330	33. DATE REC'D YEAR MO. DAY 67 08 31			36. DATE ISSUED YEAR MO. DAY 67 09 08			39. EXPIRATION DATE YEAR MO. DAY 68 12 31	
57. FORM OF THE COMMUNICATION FROM APPLICANT							YEAR	MO.	DAY	
() LETTER () APPLICATION DATED:										
BYPRODUCT			CHEMICAL OR PHYSICAL FORM						POSS. LIMIT	
<p><i>In accordance with application dated August 22, 1967, License No. 10-3997-4 is amended as follows: Item 9.T. is amended to read:</i></p> <p><i>9. T. Analysis of food for possible radioisotope contamination, Standardization, calibration, and quality control of radioisotope procedures and instruments.</i></p>										
MAIL TO: <i>Office of the Surgeon General</i>			DATE MAILED: SEP 8 1967			REVIEWER: <i>[Signature]</i>			DATE COMPLETED: <i>9/16/67</i>	



DEPARTMENT OF THE ARMY
THIRD UNITED STATES ARMY MEDICAL LABORATORY
FORT MC PHERSON, GEORGIA 30330

AJAML

22 August 1967

SUBJECT: Request for Authority to Utilize Radioisotopes

THRU: ~~Commanding General~~
~~Third United States Army~~
~~ATTN: AJASU-M~~
~~Fort McPherson, Georgia 30330~~

CJR
23 Aug 67

TO: The Surgeon General
Department of the Army
ATTN: MEDPS-PO
Washington, D. C. 20315

1. Request is made for permission to utilize the following isotopes for the purpose of standardization, calibration and quality control of radioisotope procedures and instruments. In all cases, the quantity on hand of each individual isotope will not exceed one (1) microcurie:

Strontium-89	Barium-133
Strontium-90	Barium-140
Zirconium-95	Cesium-137
Ruthenium-103	Cer-Promethium-144
Ruthenium-106	Lead-210
	Radium-226

2. A copy of the Standards available as of January 1967 from the National Center of Radiological Health is attached. Request for authorization for up to one (1) microcurie is made to allow for fluctuations in the activities stated.

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as

Clarke T. Harding, Jr.
CLARKE T. HARDING, JR.
Lt Colonel, MC
Commanding

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Analytical Quality Control Service
National Center for Radiological Health

109 Holton St
Winchester

Available Radionuclide Standards as of January 1967

<u>Nuclide</u>	<u>Half Life</u>	<u>Activity (1)(2)</u>	<u>Calibration Date</u>
Tritium	12.3 yrs.	247,020 dpm/g	8/20/54
Sodium-22	2.6 yrs.	42,950 dpm/g	6/30/64
Manganese-54	313 days	25,682 dpm/g	4/22/66
Cobalt-60	5.26 yrs.	27,282 dpm/g	11/9/65
Zinc-65	245 days	136,410 dpm/g	11/11/65
Strontium-89	50.6 days	66,500 dpm/g	1/5/67
Strontium-90	28 yrs.	29,654 dpm/g	1/18/66
Zirconium-95	65.2 days	356,106 dpm/g	5/24/66
Ruthenium-103	39.6 days	152,800 dpm/g	1/11/67
Ruthenium-106	1.0 yrs.	132,410 dpm/g	5/2/66
Barium-133	7.2 yrs.	44,000 dpm/ml	1/28/64
Barium-140	12.8 days	140,100 dpm/g	3/1/67
Cesium-137	30 yrs.	53,197 dpm/g	7/2/64
Cerium-144/Pr-144	235 days	297,985 dpm/g (Total)	10/7/66
Lead-210	22 yrs.	30,834 dpm/g	5/1/64
Radium-226	1650 yrs.	855 dpm/g	5/1/47
Short-Lived			
Phosphorus-32	14.3 days		
Chromium-51	27.8 days		
Iodine-131	8.04 days		

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(1) The activity will be given in terms of dpm/ml or dpm/g.

(2) A cover letter giving the final rating will be issued should there be any changes in the values.

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