

For file

RADIOLOGY SERVICE
FITZSIMONS GENERAL HOSPITAL
U. S. ARMY
DENVER, COLORADO, 80240

ARM2.950127.006

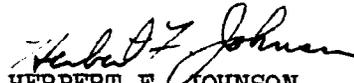
IN REPLY REFER TO
MEDEO-X

15 January 1965

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

SUBJECT: Quarterly Report of the Fitzsimons General
Hospital Radioisotope Committee

The following material comprises the Radioisotope Committee Quarterly
Report in accordance with AR-40-37.


HERBERT F. JOHNSON
Major MC
Recorder, Radioisotope Committee

HFJ:jms

ADDRESS ALL COMMUNICATIONS TO THE COMMANDING GENERAL
FITZSIMONS GENERAL HOSPITAL
"BUY AND HOLD U.S. SAVINGS BONDS"

Washington National Record Center
Office of the Army Surgeon General

The fifth meeting of the Radioisotope Committee, Fitzsimons General Hospital, was called to order at 1317 hours 5 January 1965 in the Bruns Room, Fitzsimons General Hospital. Major Paul E. Siebert, Chief, Radiology Service, presided as Chairman.

All members were notified of the meeting. Members present were:

Colonel Arthur Steer, MC, Chief, Pathology Service
Lt. Col. John E. Canham, MC, Commanding Officer, USAMRNL
Major Paul E. Siebert, MC, Chief, Radiology Service
Major Gerald DeNardo, MC, Chief, Radioisotope Section
Radiology Service
Major Herbert F. Johnson, MC, Post Radiation Safety Officer
Capt. Kenneth E. Kinnamon, VC, Chief, Radioisotope Section,
USAMRNL

Members absent were:

Chief, Department of Surgery
Chief, Department of Medicine, who was represented by Major
James J. Bergin, MC, Assistant Chief, Dept. of Medicine
Chief, Supply and Service Division

Motion was made and approved that reading of the minutes of the previous meeting of the Radioisotope Committee be waived.

There was no old business to discuss.

NEW BUSINESS:

1. It was brought to the attention of the Radioisotope Committee that through erroneous interpretation by two members of the Physiology Division of the USAMRNL of the exemption to AEC title 10, rubidium 86 and C-14 (amino acid) were used in high altitude studies at Pikes Peak, Colorado, in violation of our AEC license. This violation has been investigated and corrective measures taken to prevent recurrence of future violation. (See Appendix I attached hereto.)

2. Application was submitted requesting Roy F. Burlington, Ph.D., be certified as user for non-human use of Carbon-14. Requested certification was approved by the Committee, to be effective 7 February 1965, upon completion of six months' training by Dr. Burlington. Application is attached hereto as Appendix II.

3. Application was submitted requesting James D. Green, Ph. D., be certified as user for non-human use of the following radioisotopes:

Zinc-65
Carbon-14
Phosphorus-32
Calcium-45
Manganese-54

Requested certification was approved by the Committee. Application is attached hereto as Appendix III.

✓ 4. It is requested that the names of Lt. Col. Marion E. McDowell and Capt. John R. Handy be removed from the list of radioisotope users at the USAFRL as they have departed this post.

5. Reports of radioisotopes procured, on hand, and disposed of during quarter 1 October through 31 December 1964 were submitted by the Radiological Safety Officer. Amounts on hand did not exceed limitations of AEC license at any time. The reports were approved by the Committee and are attached as Appendix IV.

6. It is agreed that the next meeting of the Radioisotope Committee will be held at 1315 hours, Tuesday 6 April 1965 in the Research and Development Conference Room, USAFRL, Building 603.

The meeting adjourned at 1430 hours.



HERBERT F. JOHNSON
Major, MC
Recorder, Radioisotope Committee

APPROVED: Radioisotope Committee
Fitzsimons General Hospital

5 January 1964



PAUL E. SIEBERT
Major, MC
Chairman, Radioisotope Committee



C. S. LYSTER
Maj. General, MC
Commanding

RADIOISOTOPES ON HAND AS OF 31 DECEMBER 1964

<u>RADIOISOTOPE</u>	<u>AMOUNT ON HAND</u>
Calcium-45	1,728 uc
Carbon-14	76,469,064 uc
Carbon-14, Standard source	173,2054 uc
Chromium-51	<1.0 uc
Cobalt-60	<1.0 uc
Iodine-125	208 uc
Iodine-131	128 uc
Iron-59	3.9 uc
Molybdenum-99	24.5 uc
Rubidium-86	132 uc
Strontium-89	625 uc
Strontium-90	<1.0 uc
Sodium-22	370 uc
Sulfur-35	14.25 uc
Sulfur-35, standard source	<1.0 uc
Thallium-204	<1.0 uc
Hydrogen-3	4 curies
Hydrogen-3, standard source	<1 mc
Zinc-65	1 mc
I-125 serum albumin	.54 mc
I-125 Hippuran	1.5 mc
Cr-85 Strotape	.3 mc
Ce-75 Sethotape	.8 mc
Co-57	0.2 uc
Cr-51 Echromate	3.6 mc
Fe-59 Radio Ferrous	.04 mc
Au-198 Auocoloid	.2 mc
I-131 Hippuran	1.3 mc
I-131 Oriolide	.5 mc
Ig 205 Hecolytrin	16.8 mc
I-131 Rose Bengal	.1 mc
Xe-133M Xenon	1 cc

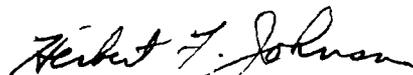
Herbert F. Johnson

HERBERT F. JOHNSON
Major, MC
Radiological Safety Officer

Washington National Record Center
Office of the Army Surgeon General

RADIOISOTOPES PROCURED DURING QUARTER 1 OCTOBER 1964 THRU 31 DECEMBER 1964

<u>RADIOISOTOPE</u>	<u>TOTAL ACTIVITY</u>
I-125 Serum Albumin	4 mc
I-125 Hippuran	4 mc
Sr-85 Strontium	1 mc
Se-75 Selenium	2 mc
Fe-59 Radio-Ferrous	.1 mc
P-32 Sodium Phosphate	22 mc
Cr-51 Radio-Chromate	21 mc
Hg-203 Neohydrin	45 mc
Hg-197 Chlormerodrin	12 mc
I-131 Oriodide	29 ⁴ mc
I-131 Hippuran	6 mc
I-131 Cholografin	12 mc
Au-198 Aurocoloid	105 mc
Xe-133P Xenon	8 curies
I-131 Rose Bengal	1 mc
I-131 Raovin	1.5 mc
Sodium radioiodide I-131	2.0 mc
Rubidium-86	2.0 mc
D-Glucose-C-14	0.5 mc
Citric-1-5-C-14 acid monohydrate	50 uc
Standard Toluene C-14 3.83×10^5 dpm/ml	17 uc
Nicotinic-7-C-14 acid	0.1 mc
Potassium DL-b-Hydroxybutyrate-3-C-14	50 uc
Sodium acetate-1-C-14	0.5 mc
D-Glucose-C-14	0.5 mc
Compressed air C-14 radioactive gas mixture and standard	50 uc
Sodium Radioiodide I-131	2.0 mc
Molybdenum-99	1.35 mc
Molybdenum-99	50 mc
Sodium Carbonate	50 uc
Palmitic-1-C-14 acid	50 uc
D-Glucose C-14	0.1 mc
Citric-1, 5-C-14 acid	50 uc
Nicotinamide-7-C-14	0.1 mc
L-methionine-methyl-C-14	0.1 mc
Potassium DL-b-hydroxybutyrate-3-C-14	50 uc
Radio-L-Thyroxine I-131	0.5 mc
Standard Toluene C-14 3.83×10^5 dpm/ml	17 uc
Citric-1-5-C-14 acid	0.1 mc
DL-Glutamic-1-C-14 acid	50 uc
DL-Glutamic-5-C-14 acid	50 uc
Sodium Acitrate-H-3	25 uc
Sodium Radioiodide I-131	2.0 mc



HERBERT F. JOHNSON
Major MC
Radiological Safety Officer

SEWAGE DISPOSAL OF RADIOISOTOPES FOR QUARTER 1 OCTOBER 1964 THRU 31 DECEMBER 1964

<u>RADIOISOTOPE</u>	<u>DATE DISCARDED</u>	<u>TOTAL ACTIVITY</u>
Rb-86	2 Oct 64	5 uc
Rb-86	5 Oct 64	10 uc
I-131 Oriodide	5 Oct 64	80 uc
I-131 Hippuran	5 Oct 64	20 uc
C-14	7 Oct 64	500 uc
Zn-65	10 Oct 64	50 uc
Zn-65	12 Oct 64	40 uc
I-131 Oriodide	12 Oct 64	100 uc
C-14	14 Oct 64	500 uc
C-14	15 Oct 64	30 uc
Zn-65	19 Oct 64	50 uc
I-131 Oriodide	20 Oct 64	90 uc
Cr-51	20 Oct 64	20 uc
I-125 Serum Albumin	20 Oct 64	10 uc
Zn-65	21 Oct 64	20 uc
I-131 Oriodide	23 Oct 64	42 uc
C-14	26 Oct 64	500 uc
C-14	28 Oct 64	500 uc
C-14	29 Oct 64	10 uc
I-131 Oriodide	30 Oct 64	76 uc
I-131 Hippuran	2 Nov 64	30 uc
C-14	2 Nov 64	20 uc
C-14	2 Nov 64	400 uc
I-131 Oriodide	6 Nov 64	40 uc
C-14	10 Nov 64	200 uc
Rb-86	16 Nov 64	76 uc
I-131 Oriodide	17 Nov 64	96 uc
Au-198 Colloidal Gold	17 Nov 64	50 uc
C-14	18 Nov 64	20 uc
Rb-86	19 Nov 64	25 uc
Rb-86	21 Nov 64	25 uc
Rb-86	22 Nov 64	25 uc
Rb-86	23 Nov 64	25 uc
I-131 Oriodide	24 Nov 64	96 uc
Rb-86	25 Nov 64	25 uc
Rb-86	26 Nov 64	25 uc
C-14	28 Nov 64	25 uc
I-131 Oriodide	1 Dec 64	100 uc
I-131 Oriodide	4 Dec 64	76 uc
C-14	7 Dec 64	5 uc
C-14	8 Dec 64	410 uc
I-131 Oriodide	15 Dec 64	90 uc
C-14	16 Dec 64	10 uc
C-14	17 Dec 64	200 uc
Mo-99	19 Dec 64	10 uc
C-14	21 Dec 64	500 uc
I-131 Oriodide	22 Dec 64	96 uc
Cr-51	29 Dec 64	150 uc

Herbert F. Johnson
 HERBERT F. JOHNSON
 Major MC
 Radiological Safety Officer

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 Office of the Army Surgeon General

One shipment of solid waste was made to U.S. Army Edgewood Arsenal, Maryland in accordance with AR-755-380 containing a total of 6,284 microcuries. Shipment vouchers accompany this report.

Herbert F. Johnson
HERBERT F. JOHNSON
Major MC
Radiological Safety Officer

Washington National Record Center
Office of the Army Surgeon General
Report Form 112

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. U.S. ARMY Medical Research and Nutrition Laboratory
 Fitzsimons General Hospital, Denver, Colorado 80220

2. TO: Transportation Officer
 U.S. Army Edgewood Arsenal, Maryland
 Depot Operation Division
 M/R Radioactive Material Disposal Facility

3. SHIP TO: MARK FOR
 U.S. Army Edgewood Arsenal, Maryland
 Depot Operation Division
 M/R Radioactive Material Disposal Facility

4. ACCOUNTING AND FUNDING DATA
 Acct Class 212040 506-6006 F5011-22-505-015
 FIG 5011.2303.01.28

5. SHEET NO OF SHEETS 1
 6. REQUISITION DATE
 7. DATE MATERIAL REQUIRED
 8. PRIORITY
 9. AUTHORITY OR PURPOSE
 USA Edgewood Arsenal, Edge Wood Arsenal, Chief Depot Operations Division Mr H.L. Lantz
 10. SIGNATURE
 11. VOUCHER NUMBER AND DATE
 12. DATE SHIPPED
 30 Nov. 1964
 13. BILL OF LADING NUMBER
 DEWEET-CRIBBAGO Trucking Co. C-4186099

SECTION II

ITEM NO. d	STOCK NUMBER AND DESCRIPTION OF MATERIEL AND/OR SERVICES b	UNIT OF ISSUE c	QUANTITY REQUESTED d	SUPPLY ACTION e	TYPE CON. TAINER NOS f	UNIT PRICE h	TOTAL COST i
1	RADIOACTIVE WASTE MATERIAL (UNCLASSIFIED) Activity of Content: 6,284 Microcuries Total number of radiation units at surface: 3.04	Dr	8	8	Dr 1-8		
This is to certify that the above-named articles are properly described, and are packed, and marked and are in proper condition for transportation according to the regulations prescribed by the Interstate Commerce Commission. <i>Martin I. Surks</i> Martin I. Surks, Capt., MC Chief: Radioisotope Section Rhy. Div. USAMRML							
17. ISSUED BY CHECKED BY Wallace Murray PACKED BY J.E. ABRINAMITY		TOTAL CONTAINERS 8	TYPE CON. TAINER DR	DESCRIPTION Radioactive Waste Mat. 1,200 lbs	TOTAL WEIGHT 1,200 lbs	TOTAL CUBE	
RECAPITULATION OF SHIPMENT		RECEIPT		18. CONTAINERS RECEIVED AS NOTED		15. SHEET TOTAL	
		QUANTITIES RECEIVED AS NOTED		DATE 12/16/64		BY H.L.L.	
		POSTED		DATE		16. GRAND TOTAL	
		TOTAL		TOTAL		19. RECEIVER'S VOUCHER NO. 12-234-65	

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