(2/70)
10 CFR 30

BYPRODUCT MATERIAL LICENSE — Amendment No. 34
(Medical - Groups I & II)

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954 as amended, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with application dated February 22, 1974,
1. Department of the Army Fitzsimons Army Medical Center and U. S. Army Medical Research and 2. Nutrition Laboratory Denver, Colorado 80240	3. License Number 05-00046-13 is amended in its entirety to read as follows:
	4. Expiration date April 30, 1979
	5. Reference No.

6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time
A. Any byproduct material listed in Groups I and II of Schedule A, Section 35.100 of 10 CFR 35	A. Any radiopharmaceutical listed in Groups I and II of Schedule A, Section 35.100 of 10 CFR 35	A. As necessary for uses authorized in Subitem 9. A..
B. Iodine 131	B. Iodide	B. 250 millicuries
C. Iodine 131	C. Iodinated Human Serum Albumin	C. 5 millicuries
D. Iodine 131	D. Thyroxine	D. 2 millicuries
E. Iodine 125	E. Iodide	E. 1 millicurie
F. Iodine 125	F. Thyroxine	F. 1 millicurie
G. Iodine 125 or 131	G. Any	G. 5 millicuries
H. Phosphorus 32	H. Soluble Phosphate	H. 50 millicuries
I. Phosphorus 32	I. Colloidal Chromic Phosphate	I. 50 millicuries
J. Gold 198	J. Colloidal	J. 250 millicuries
K. Chromium 51	K. Sodium chromate and chromic chloride	K. 10 millicuries
L. Hydrogen 3	L. Water	L. 25 millicuries
M. Sodium 24	M. Sodium chloride	M. 1 millicurie

Conditions numbered 1, 3, and 7 printed on the reverse side of this page shall apply to this license.

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Continued From Page 1

License Number 05-00046-13

Amendment No. 34

6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radio activity wh licensee may possess at any one time
N. Xenon 133	N. Free gas or in saline	N. 2 curies
O. Technetium 99m	O. Labeled albumin microspheres (human) prepared by the licensee using the 3M kit	O. 150 millicuries
P. Technetium 99m	P. Sulfur Colloid	P. 150 millicuries
Q. Technetium 99m	Q. Pertechnetate	Q. 500 millicuries
R. Technetium 99m	R. Labeled polyphosphates prepared by the licensee using the NEN kit	R. 150 millicuries
S. Technetium 99m	S. Labeled disodium etidronate prepared by the licensee using the Procter & Gamble kit	S. 150 millicuries
T. Molybdenum 99	T. Molybdenum 99/ Technetium 99m Generators (E. R. Squibb and Sons Model Nos. 08871 and 09650; Abbott Labs. Model Nos. 7721 and 6724; NEN Pharmaceuticals Model No. NEP-196; Mallinckrodt Chemical Works Model Nos. 006 through 012 and 100 through 106; Cambridge Nuclear Corp. Model No. CN-4291; and Amersham/Searle Corp. Model Nos. GTC-50, GTC-100, GTC-200, GTC-300, and GTC-400)	T. 2 curies
U. Strontium 90	U. Tracerlab Model RA-1 Sealed Medical Applicator	U. 50 millicuries
V. Any byproduct material with Atomic Nos. 1-83, inclusive	V. Any	V. 500 millicuries each, except: Hydrogen 3 - 5 curies. Total not to exceed 10 curies

6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radio activity wh licensee may possess at any one time
W. Cesium 137	W. Any	W. 1 millicurie
X. Cesium 137	X. Sealed sources (Amersham/Searle)	X. 626 millicuries
Y. Technetium 99m	Y. Iron-ascorbate-diethylenetriamine pentaacetic acid complex (prepared by the licensee using the Squibb kit)	Y. 50 millicuries

9. Authorized use

A. Any diagnostic procedure listed in Groups I and II of Schedule A, Section 35.100 of Title 10, Code of Federal Regulations.
B. Treatment of hyperthyroidism, cardiac dysfunction, and thyroid carcinoma. Diagnosis of functioning metastases from thyroid carcinoma.
C. Placenta localization.
D. Determination of thyroxine turnover.
E. Thyroid imaging.
F. Determination of thyroxine turnover.
G. In vitro studies, tests.
H. Treatment of polycythemia vera, leukemia, and bone metastases.
I. Intracavitary treatment of malignant effusions.
J. Intracavitary treatment of malignant effusions. Interstitial treatment and general treatment of prostatic carcinoma.
K. Determination of gastrointestinal bleeding. Spleen imaging.
L. Determination of total body water.
M. Determination of total exchangeable sodium.
N. Pulmonary function studies. Blood flow studies.
O. Lung imaging.
P. Liver and spleen imaging.
Q. Joint imaging in accordance with protocol dated April 20, 1970.
R. Bone imaging.
S. Bone imaging.
T. Production of technetium 99m pertechnetate.
U. Treatment of superficial eye conditions.
V. Laboratory research in vitro and in lower animals, in vitro testing.
W. Standard for assay of molybdenum content of eluate of Molybdenum generator.
X. Interstitial treatment of carcinoma. For use in medical applicators for the intracavitary treatment of carcinoma.
Y. Kidney imaging.

PRODUCT MATERIAL LICENSE

Supplementary Sheet

License Number 05-00046-13

CONDITIONS

Amendment No. 34

10. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."

11. A. Byproduct material shall be used by, or under the supervision of, individuals designated by the Fitzsimons Army Medical Center Radioisotope Committee.

B. The use of byproduct material in or on humans shall be by a physician.

12. Biological products labeled with radionuclides or kits used to prepare such products shall be procured from a supplier who holds an unsuspended or unrevoked license issued by the Secretary of the Department of Health, Education, and Welfare to propagate, manufacture, prepare, label, or distribute the products. The labeled biological products shall be used only for the medical indications covered by the supplier's Department of Health, Education, and Welfare license.

13. Technetium 99m labeled sulfur colloid preparations which appear flocculent or aggregated shall not be used in humans.

14. Patients containing Cesium 137 implants shall remain hospitalized until the implants are removed.

15. Sealed sources containing byproduct material shall not be opened.

16. A(1) Each sealed source containing byproduct material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, the sealed source shall not be put into use until tested.

(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.

16. continued

B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.

C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the USAEC, Region IV, Directorate of Regulatory Operations, 10395 West Colfax Avenue, Denver, Colorado, describing the equipment involved, the test results, and the corrective action taken.

17. Except as specifically provided otherwise by this license, the licensee shall possess and use byproduct material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated February 22, 1974, and letter dated April 15, 1974.

Date JUN 17 1974

For the U. S. Atomic Energy Commission

Original Signed By
LEO W. ANDERS, JR.

by Materials Branch

Directorate of Licensing
Washington, D. C. 20545

6-17-74

AEC FORM 784 (4 71) jeb

U.S. ATOMIC ENERGY COMMISSION

MATERIALS DATA INPUT MEDICAL

✓1- FILE COPY

A. TYPE OF ACTION:

- [ ] NEW LICENSE
- [x] AMENDMENT TO RENEW LICENSE
- [ ] AMENDMENT TO TERMINATE
- [ ] VOID
- [ ] CHANGE LICENSEE NAME/ADDRESS
- [ ] NEW LICENSE AND NEW LICENSEE
- [ ] OTHER AMENDMENT
- [ ] CLERICAL CHANGE NO AMENDMENT

B. INDICATIVE INFORMATION:

DOCKET NUMBER	MAIL CONTROL NO.	DATE REQUEST REC'D	INSTITUTION CODE	PENDING PROG. CODE	ACTUAL PROG. CODE
030-01233	47342	04/18/74	0046		

SECONDARY PROGRAM CODES AS REQUIRED:

#1	#2	#3	#4	#5

INDIVIDUAL LICENSEES

NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)
NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)
NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)

ORGANIZATIONAL LICENSEES

ORGANIZATION NAME (ALPHABETIC SEQUENCE)

Army, Department of the

DEPARTMENT OR BUREAU

Fitzsimons Army Medical Center and U. S. Army Medical Research and Nutrition Laboratory

TYPE OF ORGANIZATION

- [x] U. S. GOVERNMENT AGENCY
- [ ] EDUCATIONAL INSTITUTION
- [ ] MEDICAL INSTITUTION
- [ ] INDUST
- [ ] OTHER

ADDRESS

BUILDING, STREET	CITY	STATE	ZIP CODE
	Denver	CO	80240

C. STATISTICAL INFORMATION:

LICENSE NUMBER	DATE LICENSE ISSUED OR ACTION COMPLETED	EXPIRATION DATE
05-00046-13	06 17 74	APR 30, 1979

USAGE OF MEDICAL BYPRODUCT:

- [ ] FOR HUMAN USE ONLY
- [✓] FOR HUMAN AND NONHUMAN USE
- [ ] FOR NONHUMAN USE ONLY

POSSESSION OF THE MATERIAL IS AUTHORIZED IN ONE OF THE FOLLOWING AREAS:

- [✓] SAME AS 'STATE' IN ADDRESS
- [ ] ALL STATES
- [ ] ALL AGREEMENT STATES
- [ ] ALL NON-AGREEMENT STATES

AND/OR IN THE STATE(S), TERRITORY(S), COUNTRY CHECKED BELOW:

[ ]	ALABAMA	-AL	[ ]	GEORGIA	-GA	[ ]	MARYLAND	-MD	[ ]	NEW JERSEY	-NJ	[ ]	SOUTH CAROLINA	-SC	[ ]	WYOMING	-WY
[ ]	ALASKA	-AK	[ ]	HAWAII	-HI	[ ]	MASSACHUSETTS	-MA	[ ]	NEW MEXICO	-NM	[ ]	SOUTH DAKOTA	-SD			
[ ]	ARIZONA	-AZ	[ ]	IDAHO	-ID	[ ]	MICHIGAN	-MI	[ ]	NEW YORK	-NY	[ ]	TENNESSEE	-TN	[ ]	AMERICAN SAMOA	-AS
[ ]	ARKANSAS	-AR	[ ]	ILLINOIS	-IL	[ ]	MINNESOTA	-MN	[ ]	NORTH CAROLINA	-NC	[ ]	TEXAS	-TX	[ ]	CANAL ZONE	-CZ
[ ]	CALIFORNIA	-CA	[ ]	INDIANA	-IN	[ ]	MISSISSIPPI	-MS	[ ]	NORTH DAKOTA	-ND	[ ]	UTAH	-UT	[ ]	GUAM	-GU
[ ]	COLORADO	-CO	[ ]	IOWA	-IA	[ ]	MISSOURI	-MO	[ ]	OHIO	-OH	[ ]	VERMONT	-VT	[ ]	PUERTO RICO	-PR
[ ]	CONNECTICUT	-CT	[ ]	KANSAS	-KS	[ ]	MONTANA	-MT	[ ]	OKLAHOMA	-OK	[ ]	VIRGINIA	-VA	[ ]	VIRGIN ISLANDS	-VI
[ ]	DELAWARE	-DE	[ ]	KENTUCKY	-KY	[ ]	NEBRASKA	-NB	[ ]	OREGON	-OR	[ ]	WASHINGTON	-WA			
[ ]	WASHINGTON DC	-DC	[ ]	LOUISIANA	-LA	[ ]	NEVADA	-NV	[ ]	PENNSYLVANIA	-PA	[ ]	WEST VIRGINIA	-WV	[ ]	CANADA	-CN
[ ]	FLORIDA	-FL	[ ]	MAINE	-ME	[ ]	NEW HAMPSHIRE	-NH	[ ]	RHODE ISLAND	-RI	[ ]	WISCONSIN	-WI			

D. POSSESSION LIMITS OF SOURCE AND SPECIAL NUCLEAR MATERIALS AND TRITIUM

TYPE OF MATERIAL	AMOUNT AUTHORIZED	UNIT OF MEASUREMENT	SEALED/UNSEALED CONFIGURATION	MAXIMUM ENRICHMENT
U235		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	
U233		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	'X' HERE IF FOR POWER REACTOR [ ]
PU		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	
URANIUM		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	
THORIUM		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	RIS CODE
TRITIUM		[ ] MICRO-CURIES [ ] MILLI-CURIES [ ] CURIES		

E. FEE CATEGORIES:

[ ]	EX	[ ]	1A	[ ]	1B	[ ]	1C	[ ]	2A	[ ]	2B	[ ]	3A	[ ]	3B	[ ]	3C	[ ]	3D	[ ]	3E
[ ]	4A	[ ]	5A																		

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U.S. ATOMIC ENERGY COMMISSION

MATERIALS DATA INPUT MEDICAL

1- FILE COPY

A. TYPE OF ACTION –

- [ ] NEW LICENSE
- [ ] NEW LICENSE AND NEW LICENSEE
- [ ] AMENDMENT TO RENEW LICENSE
- [X] OTHER AMENDMENT
- [ ] AMENDMENT TO TERMINATE
- [ ] CLERICAL CHANGE NO AMENDMENT
- [ ] VOID
- [ ] CHANGE LICENSEE NAME/ADDRESS

B. INDICATIVE INFORMATION:

DOCKET NUMBER	MAIL CONTROL NO.	DATE REQUEST REC'D	INSTITUTION CODE	PENDING PROG. CODE	ACTUAL PROG. CODE
030-01233	46485	03/25/74	00046		

SECONDARY PROGRAM CODES AS REQUIRED:

#1	#2	#3	#4	#5

Combined With Contract # 4734 ✓

INDIVIDUAL LICENSEES

NAME (LAST, FIRST, MIDDLE)

NAME (LAST, FIRST, MIDDLE)

NAME (LAST, FIRST, MIDDLE)

NAME (LAST, FIRST, MIDDLE)

NAME (LAST, FIRST, MIDDLE)

NAME (LAST, FIRST, MIDDLE)

ORGANIZATION LICENSEES

ORGANIZATION NAME (ALPHABETIC SEQUENCE)
Army, Department of the

DEPARTMENT OR BUREAU
Fitzsimons Army Medical Center and U. S. Army Medical Research and Nutrition Laboratory

TYPE OF ORGANIZATION

- [X] U. S. GOVERNMENT AGENCY
- [ ] EDUCATIONAL INSTITUTION
- [ ] MEDICAL INSTITUTION
- [ ] INDUST
- [ ] OTHER

ADDRESS

BUILDING, STREET

CITY: Denver

STATE: CO

ZIP CODE: 80240

C. STATISTICAL INFORMATION:

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05-00046-13			

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- [ ] FOR HUMAN AND NONHUMAN USE
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- [ ] SAME AS 'STATE' IN ADDRESS
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- [ ] ALL AGREEMENT STATES
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AND/OR IN THE STATE(S), TERRITORY(S), COUNTRY CHECKED BELOW:

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[ ] ALASKA -AK	[ ] HAWAII -HI	[ ] MASSACHUSETTS -MA	[ ] NEW MEXICO -NM	[ ] SOUTH DAKOTA -SD			
[ ] ARIZONA -AZ	[ ] IDAHO -ID	[ ] MICHIGAN -MI	[ ] NEW YORK -NY	[ ] TENNESSEE -TN	[ ] AMERICAN SAMOA -AS		
[ ] ARKANSAS -AR	[ ] ILLINOIS -IL	[ ] MINNESOTA -MN	[ ] NORTH CAROLINA -NC	[ ] TEXAS -TX	[ ] CANAL ZONE -CZ		
[ ] CALIFORNIA -CA	[ ] INDIANA -IN	[ ] MISSISSIPPI -MS	[ ] NORTH DAKOTA -ND	[ ] UTAH -UT	[ ] GUAM -GU		
[ ] COLORADO -CO	[ ] IOWA -IA	[ ] MISSOURI -MO	[ ] OHIO -OH	[ ] VERMONT -VT	[ ] PUERTO RICO -PR		
[ ] CONNECTICUT -CT	[ ] KANSAS -KS	[ ] MONTANA -MT	[ ] OKLAHOMA -OK	[ ] VIRGINIA -VA	[ ] VIRGIN ISLANDS -VI		
[ ] DELAWARE -DE	[ ] KENTUCKY -KY	[ ] NEBRASKA -NB	[ ] OREGON -OR	[ ] WASHINGTON -WA			
[ ] WASHINGTON DC -DC	[ ] LOUISIANA -LA	[ ] NEVADA -NV	[ ] PENNSYLVANIA -PA	[ ] WEST VIRGINIA -WV	[ ] CANADA -CN		
[ ] FLORIDA -FL	[ ] MAINE -ME	[ ] NEW HAMPSHIRE -NH	[ ] RHODE ISLAND -RI	[ ] WISCONSIN -WI			

D. POSSESSION LIMITS OF SOURCE AND SPECIAL NUCLEAR MATERIALS AND TRITIUM

TYPE OF MATERIAL	AMOUNT AUTHORIZED	UNIT OF MEASUREMENT	SEALED/UNSEALED CONFIGURATION	MAXIMUM ENRICHMENT
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U233		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	'X' HERE IF FOR POWER REACTOR [ ]
PU		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	
URANIUM		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	
THORIUM		[ ] GRAMS [ ] KILOGRAMS	[ ] SEALED [ ] UNSEALED	RIS CODE
TRITIUM		[ ] MICRO-CURIES [ ] MILLI-CURIES [ ] CURIES		

E. FEE CATEGORIES:

	EX		1A		1B		1C		2A		2B		3A		3B		3C		3D		3E
	4A		5A																		

AEC FORM 784 (4-71)

U.S. ATOMIC ENERGY COMMISSION

MATERIALS DATA INPUT

MEDICAL BYPRODUCT REFERENCE COPY

[redacted]

DOCKET NUMBER	MAIL CONTROL NO.	DATE REQUEST REC'D	PROGRAM CODE (PRIMARY)
030-01233	47342	04/18/74	

SECONDARY PROGRAM CODES:

#1	#2	#3	#4	#5

INDIVIDUAL LICENSEES

NAME	NAME
NAME	NAME
NAME	NAME

ORGANIZATION LICENSEE

ORGANIZATION NAME: Army, Department of the

DEPARTMENT OR BUREAU: Fitzsimons Army Medical Center and U. S. Army Medical Research and Nutrition Laboratory

TYPE OF ORGANIZATION: X U. S. GOVERNMENT AGENCY | EDUCATIONAL INSTITUTION | MEDICAL INSTITUTION | INDUST | OTHER

ADDRESS

BUILDING, STREET	CITY	STATE	ZIP CODE
	Denver	CO	80240

BYPRODUCT	FORM	USE	POSS. LIMIT
I 125 or I 131	TRIIODOTHYRONINE AND THYROXINE	IN VITRO STUDIES; THYROID IMAGING	
I 131	IODIDE	TREATMENT OF HYPERTHYROIDISM, CARDIAC DYSFUNCTION AND THYROID CARCINOMA	
	IHSA		
		CISTERNOGRAPHY	
Cr 51	CHROMATE		
	LABELED HSA	PLACENTA LOCALIZATION	
P 32	SOLUBLE PHOSPHATE	TREATMENT OF LEUKEMIA, POLYCYTHEMIA VERA, BONE METASTASES	
	COLLOIDAL CHROMIC PHOSPHATE		
		INTERSTITIAL TREATMENT OF CARCINOMA	
Au 198	COLLOIDAL SUSPENSION	INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS	
Cs 137	ANY	FOR USE AS A STANDARD FOR CALIBRATION PURPOSES	
Co 60	ENCASED IN NEEDLES AND/OR APPLICATOR CELLS	FOR USE IN MEDICAL APPLICATORS FOR THE INTRACAVITARY TREATMENT OF CARCINOMA	
Sr 90	SEALED SOURCE	TREATMENT OF SUPERFICIAL EYE DISEASES	
Tc 99m	PERTECHNETATE		
	SULFUR COLLOID	LIVER AND SPLEEN IMAGING	
	DTPA	KIDNEY IMAGING	
	MHSA	LUNG IMAGING	
Mo 99	Mo99/Tc99m GENERATORS	PRODUCTION OF Tc99m PERTECHNETATE	
C 14			
H 3	ANY	IN VITRO STUDIES, ANIMAL STUDIES	
Se 75	SELENOMETHIONINE	PANCREAS IMAGING	
Xe 133	FREE GAS OR SOLUTION	BLOOD FLOW STUDIES	
Kr 85	GAS	PULMONARY FUNCTION STUDIES	
Ir 192	SEEDS ENCAPSULATED IN NYLON RIBBON		
Hg 197	CHLORMERODRIN	RENAL FUNCTION STUDIES	
Sr 85	CHLORIDE OR NITRATE	BONE IMAGING ON PATIENTS WITH KNOWN OR SUSPECTED CANCER	
Group I	Copy Item #6 (application)	4-22-74 Dean Tomich	
Group II	1A, 6, 50A, 54, 53, 9A	Fitzsimons Army Med. Ctr. Radioisotope Committee	9/3.55 B
Group I & II	Orig. cond. 15 & 16, 11 (AU) (2) B C	14 Application Feb 22, 1974 and letter April 15, 197[illegible]	

MAIL TO:	DATE MAILED	REVIEWER	DATE COMPLETE

AEC FORM 784 (4-71)

U.S. ATOMIC ENERGY COMMISSION

MATERIALS DATA INPUT

MEDICAL BYPRODUCT REFERENCE COPY

[redacted]

DOCKET NUMBER	MAIL CONTROL NO.	DATE REQUEST REC'D	PROGRAM CODE (PRIMARY)
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SECONDARY PROGRAM CODES:

#1	#2	#3	#4	#5

INDIVIDUAL LICENSEES

NAME	NAME
NAME	NAME
NAME	NAME

ORGANIZATION LICENSEE

ORGANIZATION NAME: Army, Department of the

DEPARTMENT OR BUREAU: Fitzsimons Army Medical Center and U. S. Army Medical Research and Nutrition Laboratory

TYPE OF ORGANIZATION:

U. S. GOVERNMENT AGENCY	EDUCATIONAL INSTITUTION	
X MEDICAL INSTITUTION	INDUST	OTHER

ADDRESS

BUILDING, STREET	CITY	STATE	ZIP CODE
	Denver	CO	80240

BYPRODUCT	FORM	USE	POSS. LIMIT
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		THYROID IMAGING	
I 131	IODIDE	TREATMENT OF HYPERTHYROIDISM, CARDIAC DYSFUNCTION AND THYROID CARCINOMA	
	IHSA		
		CISTERNOGRAPHY	
Cr 51	CHROMATE	PLACENTA LOCALIZATION	
	LABELED HSA		
P 32	SOLUBLE PHOSPHATE	TREATMENT OF LEUKEMIA, POLYCYTHEMIA VERA, BONE METASTASES,	
	COLLOIDAL CHROMIC PHOSPHATE		
		INTERSTITIAL TREATMENT OF CARCINOMA	
Au 198	COLLOIDAL SUSPENSION	INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS	
Cs 137	ANY	FOR USE AS A STANDARD FOR CALIBRATION PURPOSES	
Co 60	ENCASED IN NEEDLES AND/OR APPLICATOR CELLS	FOR USE IN MEDICAL APPLICATORS FOR THE INTRACAVITARY TREATMENT OF CARCINOMA	
Sr 90	SEALED SOURCE	TREATMENT OF SUPERFICIAL EYE DISEASES	
Tc 99m	PERTECHNETATE	LIVER AND SPLEEN IMAGING	
	SULFUR COLLOID		
	DTPA	KIDNEY IMAGING	
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Mo 99	Mo99/Tc99m GENERATORS	PRODUCTION OF Tc99m PERTECHNETATE	
C 14			
H 3	ANY	IN VITRO STUDIES, ANIMAL STUDIES	
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Xe 133	FREE GAS OR SOLUTION	BLOOD FLOW STUDIES	
Kr 85	GAS	PULMONARY FUNCTION STUDIES	
Ir 192	SEEDS ENCAPSULATED IN NYLON RIBBON		
Hg 197	CHLORMERODRIN	RENAL FUNCTION STUDIES	
Sr 85	CHLORIDE OR NITRATE	BONE IMAGING ON PATIENTS WITH KNOWN OR SUSPECTED CANCER	
Group I	Copy item #6 (application)	4-22-74 Dean Timothy [illegible]	
Group II	1A, 5, 5DA, 54, 53, 9A	Fitzsimons Army Med. Ctr. Radioisotope Committee	9A, 55B
Group I & II	Copy cond. 15 & 16 11 A(1) (2) B C	14 Application Feb 22, 1974 and letter	April 15, 197[illegible]

MAIL TO:	DATE MAILED	REVIEWER	DATE COMPLETE