

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License no.

05-00046-13

Docket or Reference number

Amendment No. 40

Department of the Army  
Fitzsimons Army Medical Center and  
U.S. Army Medical Research  
and Nutrition Laboratory  
Denver, Colorado 80240

In accordance with letter dated September 13, 1983, License Number 05-00046-13  
is amended as follows:

Condition 24. is added:

24. The licensee may use the Lineator device for doing linearity tests of  
his dose calibrator provided he follows the procedures in the Atomic  
Products Corporation Lineator Instructions Manual dated June 20, 1983.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date NOV 2 1983

By *Nov 1-83*  
Original Signed By  
Patricia C. Vacca

Material Licensing Branch  
Division of Fuel Cycle and  
Material Safety  
Washington, D. C. 20555

*A/150*

OCT 27 1983  
MATERIALS DATA INPUT - INDUSTRIAL, MEDICAL, SOURCE/SPECIAL NUCLEAR

## A. TYPE OF ACTION AND IDENTIFICATION CODES

<input type="checkbox"/> NEW LICENSE	<input type="checkbox"/> AMENDMENT TO RENEW LICENSE	<input type="checkbox"/> AMENDMENT TO TERMINATE	<input type="checkbox"/> VOID	DOCKET NUMBER	MAIL CONTROL NUMBER	CHANGE NAME/ADDRESS ("X" box)
<input checked="" type="checkbox"/> NEW LICENSE AND NEW LICENSEE	XX OTHER AMENDMENT	<input type="checkbox"/> CLERICAL CHANGE NO AMENDMENT	4	030-01233	16058	<input type="checkbox"/>

## B. INDICATIVE INFORMATION

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	ORGANIZATION NAME (Alphabetic Sequence)	
LICENSEES	Army, Department of the	
	FitzSimons Army Medical Center and U.S. Army Medical Research and Nutrition Laboratory	
ADDRESS	CITY	STATE
5	Denver	CO
6	TYPE OF APPLICATION	U.S. GOVERNMENT AGENCY INDIVIDUAL LICENSEE ORGANIZATIONAL LICENSEE
	DATE REQUEST RECEIVED	10/20/83
7	INSTITUTION CODE	00046
	PENDING PROG CODE	
	ACTUAL PROG CODE	
SECONDARY PROGRAM CODES (As required)		
#1		
#2		
#3		
#4		
#5		
LICENSE NUMBER		
05-00015-13		
DATE LICENSE ISSUED OR ACTION COMPLETE		
NOV 2 1983		
EXPIRATION DATE		

## C. STATISTICAL INFORMATION

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

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

SOURCE MATERIAL CEILING	G - GRAMS	SNM CEILING	G - GRAMS	IF FOR POWER REACTOR					
	Kg KILOGRAMS		Kg KILOGRAMS	("X" here)					
*MATERIAL	AMOUNT	UNIT	CONFIG	ENRICH	*MATERIAL	AMOUNT	UNIT	CONFIG	ENRICH
U5 U235		G	S				G	S	
		Kg	UNS				Kg	UNS	
		G	S				G	S	
U3 U233		Kg	UNS				Kg	UNS	
		G	S				G	S	
PL-Plutonium		Kg	UNS				Kg	UNS	
		G	S				G	S	
UR-Uranium		Kg	UNS				Kg	UNS	
		G	S				G	S	
TH-Thorium		Kg	UNS				Kg	UNS	
		G	S				G	S	
		Kg	UNS				Kg	UNS	
		G	S				G	S	
		Kg	UNS				Kg	UNS	
H3-Tritium		CURIES			RIS CODES				
		MILLICURIES							
		MICROCURIRES							

## MATERIALS DATA INPUT—INDUSTRIAL, MEDICAL, SOURCE/SPECIAL NUCLEAR

## A. TYPE OF ACTION AND IDENTIFICATION CODES

NEW LICENSE	AMENDMENT TO RENEW LICENSE	AMENDMENT TO TERMINATE	VOID	DOCKET NUMBER	MAIL CONTROL NUMBER	CHANGE NAME/ADDRESS ("X" box)
1				030-01238	16028	
NEW LICENSE AND NEW LICENSEE	XX OTHER AMENDMENT	CLERICAL CHANGE NO AMENDMENT	4			

## B. INDICATIVE INFORMATION

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

## RADIOACTIVE MATERIAL LISTED IN:

		INDICATE DESIRED ITEMS	MAXIMUM POSSESSION LIMITS (In millicuries)
1	10 CFR 35.100, SCHEDULE A, GROUP I		As needed
2	10 CFR 35.100, SCHEDULE A, GROUP II		As needed
3	10 CFR 35.100, SCHEDULE A, GROUP III		
4	10 CFR 35.100, SCHEDULE A, GROUP IV		As needed
5	10 CFR 35.100, SCHEDULE A, GROUP V		As needed
6	10 CFR 35.100, SCHEDULE A, GROUP VI		
7	10 CFR 31.11, FOR IN-VITRO STUDIES		
8	AMERICIUM-241 ANATOMICAL MARKER		14 mCi
9	XENON-133: As gas or gas in saline for blood flow and pulmonary function studies		
10	IODINE-131: As iodide for treatment of hyperthyroidism and cardiac dysfunction		
11	IODINE-131: As iodide for treatment of thyroid carcinoma		
12	PHOSPHORUS-32: As soluble phosphate for treatment of polycythemia vera, leukemia and bone metastases		
13	PHOSPHORUS-32: As colloidal chromic phosphate for intracavitary treatment of malignant effusions		
14	DEPLETED URANIUM FOR SHIELDING		Kg

BYPRODUCT	FORM	POSSESSION LIMITS	USE
16	C-14	Any	In-Vitro Studies
17	H-3		Animal Studies
18	I-125	Prepackaged Units	Standard for Instrument Calibration
19	I-131		
20	P-32		
21	Sr-90	Sealed Source	Treatment of Superficial Eye Disease
22	Cs-137		
23	CONTINUED ON THE REVERSE OF THIS PAGE.		

CONDITIONS				USERS	
				NAME	AUTHORIZATIONS
1B	9A	52			
5	9B	53			
6A	9C				
6B	1B	52			
7A	50A				
7B	50B	95			
10A(1)(2)(3)BCDE				OTHER CONDITIONS (Specify)	
11A(1)(2)(3)BCDE					
16b				Add Std Cond 105	
16 APPL. DATED					
LETTERS DATED					
MODEL ALARA PROGRAM					

MAIL TO: *Mc Dermott, Army*

REVIEWER

*Moriarty / PCW*

DATE COMPLETED

*VACCA sign*