

## MATERIALS LICENSE

Amendment No. 10

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). 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 Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

## Licensee

1. Geisinger - Wyoming Valley Medical Center

2. 1000 East Mountain Drive  
Plains Township  
Wilkes-Barre, Pennsylvania 18711In accordance with letter dated  
September 22, 1992,3. License number 37-19448-01 is amended in  
its entirety to read as follows:

4. Expiration date April 30, 1997

5. Docket or  
Reference No 030-177676. Byproduct, source, and/or  
special nuclear material7. Chemical and/or physical  
form8. Maximum amount that licensee  
may possess at any one time  
under this licenseA. Any byproduct material  
identified in 10 CFR  
35.100B. Any byproduct material  
identified in 10 CFR  
35.200C. Any byproduct material  
identified in 10 CFR  
35.300D. Any byproduct material  
identified in 10 CFR 31.11A. Any radiopharmaceutical  
identified in 10 CFR  
35.100B. Any radiopharmaceutical  
identified in 10 CFR  
35.200 except gasC. Any radiopharmaceutical  
identified in 10 CFR  
35.300

D. Prepackaged Kits

A. As needed

B. As needed

C. As needed

D. As needed

## 9. Authorized use

A. Any uptake, dilution and excretion procedure approved in 10 CFR 35.100.

B. Any imaging and localization procedure approved in 10 CFR 35.200.

C. Any radiopharmaceutical therapy procedure approved in 10 CFR 35.300.

D. In vitro studies.

## CONDITIONS

10. Location of use: Geisinger-Wyoming Valley Medical Center, 100 East Mountain Drive,  
Plains Township, Wilkes-Barre, Pennsylvania.

11. Radiation Safety Officer: Nathaniel H. Wiesenfeld, M.D.

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PDR ADOCK 03017767  
C PDR

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

37-19448-01

Docket or Reference number

030-17767

Amendment No. 10

(Continued)

CONDITIONS

12. Authorized Users:

Material and Use:

Grace K. Boyle, M.D.

35.100; 35.200  
in-vitro studies

Joseph N. Bruno, Jr., M.D.

35.100; 35.200  
In-vitro studies

Ronald I. Harris, M.D.

35.100; 35.300  
In-vitro studies

Joseph Putprush, M.D.

In-vitro studies

Howard L. Spector, D.O.

35.100; 35.200; 35.300 except thyroid  
carcinoma  
In-vitro studies

Joel D. Neuman, M.D.

35.100; 35.200; 35.300  
In-vitro studies

Nathaniel H. Wiensfeld, M.D.

35.100; 35.200; 35.300 except thyroid  
carcinoma  
In-vitro studies

Eli Shapiro, M.D.

35.100; 35.200; 35.300 except thyroid  
carcinoma  
In-vitro studies

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material so that at no time is a quantity of radioactive material possessed in excess of a quantity which requires decommissioning funding in accordance with 10 CFR 30.35(d), 10 CFR 40.36(b), or 10 CFR 70.25(d).

14. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated June 20, 1991
- B. Letter dated March 31, 1992
- C. Letter dated September 22, 1992

For the U.S. Nuclear Regulatory Commission

Original Signed By:

JoAnn V. Stambaugh

Date DEC 21 1992

By

Nuclear Materials Safety Branch  
Region I

King of Prussia, Pennsylvania 19406

DEC 21 1992

License No. 37-19448-01  
Docket No. 030-17767  
Control No. 117288

Geisinger-Wyoming Valley Medical Center  
ATTN: Nathaniel H. Weisenfeld, M.D.  
Radiation Safety Officer  
1000 East Mountain Drive  
Plains Township  
Wilkes-Barre, Pennsylvania 18711

Dear Dr. Weisenfeld:

Please find enclosed an amendment to your NRC Material License.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the Region I Material Licensing Section, (215) 337-5093, so that we can provide appropriate corrections and answers.

Please be advised that you must conduct your program involving licensed radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, please note the items in the enclosed, "Requirements for Materials Licensees."

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, the NRC expects licensees to pay meticulous attention to detail and to achieve the high standard of compliance which the NRC expects of its licensees.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. Failure to conduct your program safely and in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in prompt and vigorous enforcement action against you. This could include issuance of a notice of violation, or in case of serious violations, an imposition of a civil penalty or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C.

Geisinger-Wyoming Valley Medical Center

-2-

We wish you success in operating a safe and effective licensed program.

Sincerely,

Original Signed By:  
JoAnn V. Stambaugh

JoAnn V. Stambaugh  
Nuclear Materials Safety Branch  
Division of Radiation Safety  
and Safeguards

Enclosures:

1. Amendment No. 10
2. Requirements for Materials Licensees
3. Requirements for Medical Licensees
4. NRC Forms 3 and 313

DRSS:RI  
Stambaugh/gc

12/31/92

# Geisinger.

Wyoming Valley Medical Center

September 22, 1992

030-17767

U.S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

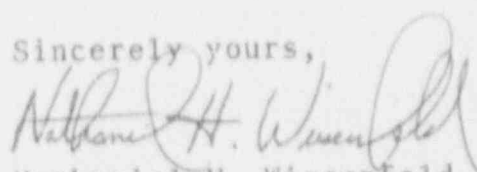
RE: Amendment of U.S. NRC By-Products Materials License #37-19448-01

Dear Sirs:

We request an amendment to Condition 12 of our license to add Dr. Joel D. Neuman as an authorized user.

Supplements A and B are enclosed. An amendment fee of \$460 is also enclosed as required.

Sincerely yours,

  
Nathaniel H. Wiesenfeld, M.D.  
Radiation Safety Officer

NHW/be  
enclosures

Log	Nov. 8 F
Remitter	
Check No.	2487
Amount	\$460
Fee Category	70
Type of Fee	Amendment
Date Check Rec'd	Oct. 19, 1992
Date Completed	Nov. 19, 1992
By	SAC

1992 OCT 19 PM 3:36

117288

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OCT 13 1992

1000 East Mountain Drive  
Wilkes-Barre, PA 18711  
(717) 826-7300

EXHIBIT 2  
SUPPLEMENT A

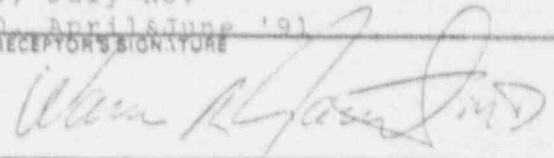
SUPPLEMENT		U.S. NUCLEAR REGULATORY COMMISSION		
TRAINING AND EXPERIENCE AUTHORIZED USER OR RADIATION SAFETY OFFICER				
1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER Joel D. Neuman, M.D.		2. FOR PHYSICIANS, STATE OR TERRITORY WHERE LICENSED PA, FL		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
American Board of Radiology	Diagnostic Radiology	November 1992		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		CLOCK HOURS IN LECTURE OR LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
a. RADIATION PHYSICS AND INSTRUMENTATION	Mount Sinai Medical Ctr Miami Beach 4300 Alton Road, Miami Bch FL 33140	220	350	
b. RADIATION PROTECTION	December 1988, May thru	60	50	
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	July 1989, May 1990, * July thru November 1990, April 1991, June 1991.	40	50	
d. RADIATION BIOLOGY	Total months- 12 " " "	80	90	
e. RADIOPHARMACEUTICAL CHEMISTRY	" " "	90	100	
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	mCi USED AT ONE TIME	LOCATION	CLOCK HOURS	TYPE OF USE
		Please refer to supplement B		

EXHIBIT 3  
SUPPLEMENT B

SUPPLEMENT		U. S. NUCLEAR REGULATORY COMMISSION	
PRECEPTOR STATEMENT			
<i>Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each.</i>			
<b>1. PROPOSED PHYSICIAN USER'S NAME AND ADDRESS</b> <hr/> <b>FULL NAME</b> Joel D. Neuman, M.D. <hr/> <b>STREET ADDRESS</b> 1000 East Mountain Drive Wilkes-Barre, PA 18702 <hr/> <b>CITY</b> _____ <b>STATE</b> _____ <b>ZIP CODE</b> _____		<b>KEY TO COLUMN C</b> <b>PERSONAL PARTICIPATION SHOULD CONSIST OF:</b> 1-Supervised examination of patients to determine the suitability for radiisotope diagnosis and/or treatment and recommendation for prescribed dosage. 2-Collaboration in dose calibration and actual administration of dose to the patient including calculation of the radiation dose, related measurements and plotting of data. 3-Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.	
<b>2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN</b>			
ISOTOPE <small>A</small>	CONDITIONS DIAGNOSED OR TREATED <small>B</small>	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION <small>C</small>	COMMENTS <small>(Additional information or comments may be submitted in duplicate on separate sheet.) D</small>
	Thyroid scan	49	
	Thyroid uptake	92	
	Lung perfusion scan	399	
	Xenon ventilation study	332	
	Aerosol ventilation scan	0	
	Renal flow scan	337	
	Brain scan	73	
	Liver/spleen scan	463	
	Bone scan	1326	
	Gastroesophageal study	0	
	LeVeen shunt study	0	
	Cystogram	0	
	Dacryocystogram	0	
	Cardiac perfusion scan	1901	
	Cardiac stress ventriculogram	0	
	Cardiac rest ventriculogram	185	
	Gallium scan	141	
		Cisternography In-111	
	Blood pool image Tc99	111	



## EXHIBIT 3 (Continued)

PROPOSED PHYSICIAN USER			
Joel D. Neuman, M.D.			
PRECEPTOR STATEMENT (Continued)			
2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)			
ISOTOPE	CONDITIONS DIAGNOSED OR TREATED	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.)
A	B	C	D
P-32 (Soluble)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES	4	
P-32 (Colloidal)	INTRACAVITARY TREATMENT	0	
I-131	TREATMENT OF THYROID CARCINOMA	10	
	TREATMENT OF HYPERTHYROIDISM	18	
Au-198	INTRACAVITARY TREATMENT	0	
Co-60 or Cs-137	INTERSTITIAL TREATMENT	0	
	INTRACAVITARY TREATMENT	0	
I-125 or Ir-192	INTERSTITIAL TREATMENT	0	
Co-60 or Cs-137	TELETHERAPY TREATMENT	0	
Sr-90	TREATMENT OF EYE DISEASE	0	
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR 6 Curie Mo99/Tc	weekly	
Sr-90/ Ir-192	GENERATOR	0	
Tc-99m	REAGENT KITS	avg/day 35	
Other			
3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING			
LOCATION		DATES	CLOCK HOURS OF EXPERIENCE
Mount Sinai Medical Center		Dec 1988, May-	Total hours
Miami Beach		July 1989, May	2,120.
Miami Beach, FL 33140		1990, July-Nov	
		1990, April & June '91	
4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:		5. PRECEPTOR'S SIGNATURE	
a. NAME OF SUPERVISOR			
Warren R. Janowitz, M.D., J.D.			
b. NAME OF INSTITUTION		7. PRECEPTOR'S NAME (Please type or print)	
Mount Sinai Medical Center MB		Warren R. Janowitz, M.D., J.D.	
c. MAILING ADDRESS		8. DATE	
4300 Alton Road		June 9, 1992	
a. CITY			
Miami Beach, FL 33140			
b. MATERIALS LICENSE NUMBER(S)			
#64-3			

EXH-7

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DECOM FIN ASSUR REQD: N

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Crutchfield  
11-11-92