ROM 0685-36

June 19, 1985

John Glenn
Nuclear Materials and Safeguard Branch
Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

RE: License number 20-21227-01MD (Boston)

Dear Dr. Glenn:

Please amend license number 20-21227-01MD to show John Heavin III as an authorized user. Copies of his training and work history are enclosed.

A Two hundred thirty dollar check is enclosed.

Thank you for your assistance in this matter.

Sincerely,

NUCLEAR PHARMACY, INC.

Robert O. McClintock

Robert O. McClintock
Vice President of Regulatory Affairs

ROM/gav

Enclosures

cc: Central File
Reading File
License File
Jeff Steffey
Steve Dessel

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Applicant.....
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Type of Fee. Amd
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JUN 24 1985

nuclear pharmacy incorporated
P.O. Box 25141 Albuquerque, New Mexico 87125 505/345-3551 1-800-545-6554

NRC FORM 313M SUPPLEMENT A (9-81) U.S. NUCLEAR REGULATORY COMMISSION

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER	2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE
John William Heavin III	

3. CERTIFICATION

SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING	
		LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D
a. RADIATION PHYSICS AND INSTRUMENTATION	Mercer Univ. School of Pharmacy April 8 - May 10, 1985	68	17
b. RADIATION PROTECTION	Mercer Univ. April 8 - May 10 1985	31	14
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	Mercer Univ. April 8 - May 10 1985	16	04
d. RADIATION BIOLOGY	Mercer Univ. April 8 - May 10 1985	20	
e. RADIOPHARMACEUTICAL CHEMISTRY	Mercer Univ. April 8 - May 10 1985	30	

5. EXPERIENCE WITH RADIATION. *(Actual use of Radioisotopes or Equivalent Experience)*

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE

MERCER

Southern School of Pharmacy
Department of Pharmaceutical Sciences

Date: May 10, 1985

TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

Name: John Heavin, III

Field of Training	Location and Date(s) of Training Mercer University Southern School of Pharmacy Atlanta, Georgia 30312	Type and Length of Training	
		Lecture/ Laboratory Courses (Hours)	Supervised Laboratory Experience (Hours)
A. Radiation Physics and Instrumentation	April 8 - May 10, 1985	68	17
B. Radiation Protection	April 8 - May 10, 1985	31	14
C. Mathematics Pertaining to the use and Measurement of Radioactivity	April 8 - May 10, 1985	16	04
D. Radiation Biology	April 8 - May 10, 1985	20	
E. Radiopharmaceutical Chemistry	April 8 - May 10, 1985	30	
TOTALS:		165 hrs.	35 hrs.

MERCER UNIVERSITY
345 Boulevard, NE
Atlanta, Georgia 30312
(404) 688-6291

Michael P. Kavula, Jr., Pharm.D.
Associate Professor of Pharmaceutical Sciences

FIGURE 2. DOCUMENTING RADIOISOTOPE HANDLING EXPERIENCE

EXPERIENCE WITH RADIOACTIVE MATERIAL. (Actual Use of Radioisotopes Under the Supervision of an Authorized User)

ISOTOPE	MAXIMUM AMOUNT USED AT ONE TIME (mCi)	WHERE EXPEREINCE WAS GAINED	DURATION OF EXPERIENCE (actual clock hours)	TYPES OF USE 1, 2, 3, 4, 5, 6 (see key below)
Tc99m	15,000	Nuclear Pharmacy,	Full time employ-	456
Mo99	16,000	Inc. (Phoenix, AZ)	ment with NPI	1456
I131	150	"	(>900 hrs)	1456
I123	2.5	"	"	13456
Xe133	1,400	"	"	13456
P32	5	"	"	1456
I125	0.05	"	"	13456
Co57	5	"	"	2
Ba133	0.01	"	"	2
Cs137	0.2	"	"	2
T1201	20	"	"	1456
Ga67	20	"	"	1456
In111	3	"	"	13456

Key for "Type of Use"

The number or numbers entered under "Type of Use" correspond to experience in the following activities:

1. Ordering, receiving, and unpacking radioactive materials safely, including performance of related radiation surveys.
2. Calibration of dose calibrators, scintillation detectors, and survey meters.
3. Calculation, dispensing, and calibration of patient doses, including proper use of radiation shields.
4. Appropriate internal control procedures to prevent mislabeling errors.
5. Emergency procedures to handle and contain spilled materials safely, including related decontamination procedures, surveys, and wipe tests.
6. Elution of technetium-99m generator systems, assay and testing of the eluate for molybdenum-99 contamination, and processing the eluate with reagent kits to prepare technetium-99m labeled radiopharmaceuticals.