



ROM 0785-20

July 9, 1985

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U.S. NRC  
LIC. FEES MGMT. BRANCH

William J. Adam, Ph.D.  
Material Licensing Section  
Region III  
U.S. Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

RE: License number 12-18044-01MD (Chicago)

Dear Dr. Adam:

Please amend the above referenced license to include Cheryl Danette Holmes as an authorized user. Her training and experience statements are included for your review.

A check for Two hundred thirty dollars is enclosed.

Thank you for your assistance.

Sincerely,

NUCLEAR PHARMACY, INC.

*Jeanene C. Ondrik*

for Robert O. McClintock  
Vice President of Regulatory Affairs

ROM/gav

Enclosures

8509160045 850709  
REG3 LIC30  
12-18044-01MD PDR

Amount *July 17th*  
Check No. *053761*  
Amount/Fee *\$232*  
Type of Fee *3C and*  
Date Check Rec'd *8/6/85*  
Received By *[signature]*

RECEIVED  
JUL 12 1985  
REGION III

CONTROL NO. 7 9328

JUL 12 1985

nuclear pharmacy incorporated

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

*ML3011*

TRAINING AND EXPERIENCE  
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER Cheryl Danette Holmes, B.S.		2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE		
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 University, Atlanta, GA 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		
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
		See attached		

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	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE (actual clock hours)	TYPES OF USE 1, 2, 3, 4, 5, 6 (see key below)
P-32 Sodium Phosphate	50mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
P-32 Chromate Phosphate	50mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
I-131 Hippuran	100mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
I-131 Rose Bengal	100mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
I-125 Sodium Iodine	100mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
I-131 & I-125 Trioloin	20mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
Ba	1mCi	Nuclear Pharmacy	800 hrs	2
Cs	1mCi	Nuclear Pharmacy	800 hrs	2

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.

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	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE (actual clock hours)	TYPES OF USE 1, 2, 3, 4, 5, 6 (see key below)
Tc-99m Pertechnetate	100 Ci	Nuclear Pharmacy	800 Hrs	1, 3, 4, 5
Tc-99m Labeled Products	500mCi product	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
Mo-99m Generator	45 Ci	Nuclear Pharmacy	800 Hrs	6
Ga-67 Citrate	500 mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
Tl-201 Chloride	200 mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
In-111	10 mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
Co-57	1 mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
Zr-51	10 mCi	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
Xe-133	8 Ci	Nuclear Pharmacy	800 hrs	1, 3, 4, 5
I-131 Sodium Iodine	1 Ci	Nuclear Pharmacy	800 hrs	1, 3, 4, 5

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.

NOTE TO: License Fee Management Branch, ADM

FROM: Region III

SUBJECT: VOIDED APPLICATION

Control Number

379328

Applicant

Nuclear Pharmacy - IL

Date Voided

7/18/85

Reason for Void

Combined with C/W

379330 after review

Glenda  
this was  
an ans info  
to 7/13

Signature

W. Adam (RS)

Attachment:  
Application

OK LFMB

Do refund due  
July 17  
79328  
3C