



April 15, 1985

Jenny M. Johansen, M.S.
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 (Woburn)

Dear Ms. Johansen:

On behalf of Nuclear Pharmacy, Inc. (NPI), I would like to request the following amendments to the above license:

1. Please include Patricia Farago as an authorized user. Copies of her didactic training and work history, are enclosed.
2. Include Robert O. McClintock, Vice President of Quality Assurance and Regulatory Affairs as NPI's Corporate Radiation Safety Officer. A copy of his qualifications is enclosed.

Also enclosed please find a check for the required fee.

Thank you for your assistance in this matter.

Sincerely,

NUCLEAR PHARMACY, INC.

Robert O. McClintock
Vice President of Quality Assurance and
Regulatory Affairs

ROM/gav

8505310081 850515
REG1 LIC30
20-21227-01MD PDR

cc: Central File
Reading File
License File
A. Easley
J. Steffey

RECEIVED BY LFMB	
Date...	5/3/85
Leg...	Apr 16 I
By...	Brown
Orig. To...	
Action Compl.	5/6/85

Applicant...	002104
Check No...	230/3
Amendment	5/3/85
	Brown

"OFFICIAL RECORD COPY"

ML10 03720

APR 26 1985

nuclear pharmacy incorporated

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

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER

PATRICIA A. FARAGO

2. STATE OR TERRITORY IN
WHICH LICENSED TO
PRACTICE MEDICINE

3. CERTIFICATION

SPECIALTY BOARD
A

CATEGORY
B

MONTH AND YEAR CERTIFIED
C

Nuclear Medicine Technologist

ARRT 176149
American Registry for Radiologic
Technologists
NMTCB 006456
Nuclear Medicine Technologist

October 1981

September 1981

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

Bunker Hill Community College
1-80 to 5-81

72

40

b. RADIATION PROTECTION

1-80 to 8-80

44

16

c. MATHEMATICS PERTAINING TO
THE USE AND MEASUREMENT
OF RADIOACTIVITY

1-80 to 5-80

32

16

d. RADIATION BIOLOGY

1-80 to 5-80

32

e. RADIOPHARMACEUTICAL
CHEMISTRY

6-80 to 5-81

12

20

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

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
I-131	30mCi	St. Elizabeth's Brighton, MA		Uptake kit prep
99m Tc	up to 1 curie	Massachusetts General, MA	4 Years	and PT. injection
Ga-67	6mCi			PT. injection
Xe-133	30mCi			ventilation
In-111	1mCi	Massachusetts General, MA	4 Years	various scans
Tl-201	2mCi			cardiac imaging
Co-57				RIA
I-125				

PATRICIA A. FARAGO
64 Plummer Ave
Winthrop MA 02152

H 846-3096

CERTIFICATION American Registry of Radiologic Technologists
Nuclear Medicine Certification Board

EDUCATION BOSTON UNIVERSITY - Metropolitan College Jan 1983 -
Boston Massachusetts Jan 1984
Emphasis in computer science
Attended various courses in computer
language and data structure.

BUNKER HILL COMMUNITY COLLEGE Aug 1981
Charlestown Massachusetts
Associates Degree in Liberal Arts
Associates Degree in Nuclear Medicine

CLINICAL MOUNT AUBURN HOSPITAL May 1981 -
INTERNSHIP Cambridge Massachusetts Aug 1981
Concentration in cardiac imaging

ST ELIZABETH'S HOSPITAL Jan 1981 -
Brighton Massachusetts May 1981
Performed daily quality control and
radiopharmaceutical preparation along
with various clinical and cardiac imaging.

MOUNT AUBURN HOSPITAL Sept 1980 -
Cambridge Massachusetts Jan 1981
Participated in radioimmunoassay and
all aspects of clinical imaging

WORK MASSACHUSETTS GENERAL HOSPITAL Nov 1981 -
EXPERIENCE Department of Radiology Present
Division of Nuclear Medicine
Position: Staff Technologist

BALLOONS OVER BOSTON May 1981 -
Boston Massachusetts Sept 1981
Responsible for preparation and formal
delivery of balloon boquets.

BUNKER HILL COMMUNITY COLLEGE Oct 1979 -
Charlestown Massachusetts May 1981
WORK STUDY PROGRAM
Audio Visual Department - duties included
organization, set-up and break-down of
equipment along with video preparation.
Learning Center - responsible for tutoring
various levels of math in areas of need.

REFERENCES Available upon request.

ROBERT O. MC CLINTOCK, CHP

EDUCATION

B.S. Physics, College of William and Mary
M.S. Radiation Biology, University of Rochester

CERTIFICATIONS

Certified Health Physicist by the American Board of Health Physics, 1966
Renewed 1983

Certified Safety Professional by the Board of Certified Safety Professionals

EXPERIENCE

Mr. McClintock has over 20 years experience in radiological safety in reactors, industrial and medical facilities. He is an expert in radiological protection, regulatory affairs, and the management of health physics programs. In his recent work with Nuclear Pharmacy, Inc. and the Nuclear Regulatory Commission he was involved with auditing several thousand different users of radioactive materials.

1983 - March 1985 Senior Radiological Engineer, Radiological Services Division, Hydro Nuclear Services. Provides senior level consulting services in the areas of Health Physics, ALARA, Regulatory Affairs, and Hospital Radiation Safety.

1980 - 1983 Director, Radiation Safety and Regulatory Affairs, Nuclear Pharmacy, Inc. Developed and directed the radiation safety and regulatory affairs program for over 46 nuclear pharmacies. Program included interactions with over a dozen regulatory agencies. Provided formal consulting in radiation safety for over 2000 customer facilities.

1972 - 1980 Section Chief, Materials Radiological Protection Section, Region I, US Nuclear Regulatory Commission. Directed the inspection and enforcement program for over 3000 NRC licensees including major universities, hospitals, government facilities, and industry. Technically evaluated the performance of inspections and investigations by the regional staff involving Health Physics, transportation, waste disposal, and use of radioactive materials.

ROBERT O. MC CLINTOCK
Page 2

1967 - 1972

Division Health Physicist, General Electric Company, Space Division. Directed the Health Physics program for users of radioactive materials, x-ray machines, lasers, and other radiation producing machines. Responsible for safe handling of over 100,000 curies of Plutonium-238. Was Acting Division Safety Engineer and member of several Nuclear Safety Study teams.

1960 - 1967

Reactor Health Physicist, Brookhaven National Laboratory. Directed the Health Physics activities at the Graphite Research Reactor (BGRR) and High Flux Beam Reactor (HFBR) including the initial startup of the HFBR and final shutdown of the BGRR. Was a member of the Reactor Experimental Review Committee and training supervisor.

1958 - 1960

Shift Health Physicist, Westinghouse Electric Company. Directed Health Physics shift activities at the Westinghouse Test Reactor. Participated in cleanup activities following meltdown of a fuel element in the reactor.

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration -

John E. Glenn, Chief
Nuclear Materials Section B
Division of Engineering and
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Nuclear Pharmac., Incorporated, OBA NPI

Application Dated: 4/15/85

Control No.: 03720

License No.: 20-21227-01MD

2. FEE ATTACHED

Amount: \$ 230.00

Check No.: 002104

3. COMMENTS

Signed Brenda Platchek

Date 4/29/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3C \$230

2. Correct Fee Paid. Application may be processed for:

Amendment ✓

Renewal _____

License _____

Signed Frances Brown

Date 5/3/85 49
5/6/85

"SECTION COPY"

NUCLEAR PHARMACY, INC.

P.O. BOX 25141 505-345-3551
ALBUQUERQUE, N.M. 87125

MONCOR
BANK N.A.

002104

(301) 988-0000 P.O. Box 3072, Albuquerque, New Mexico 87102

95-131
1070

PAY

* U.S. Nuclear Regulatory Agency

DATE

4-10-85

AMOUNT

\$230.00**

TO
THE
ORDER
OF

THE SUM \$230.00

[Signature]

⑈002104⑈ ⑆107001313⑆ 05300592⑈0⑆

NUCLEAR PHARMACY, INC.

DETACH AND RETAIN THIS STATEMENT

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

V#71665

#002104 kf

DATE	INVOICE NUMBER	DESCRIPTION	AMOUNT	DEDUCTIONS		NET AMOUNT
				PARTICULARS	AMOUNT	
4-4-85	26295		\$230.00**			\$230.00**