



July 2, 1984

2208 W. Central Ave
Toledo, Ohio 43606

030-11424
34-16654-01MD

Material Licensing Branch
Division of Fuel Cycle and Material
Safety
United States Nuclear Regulatory
Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Sir:

Please amend our NRC license number 34-16654-01 MD Toledo, Ohio.

To add under Condition No. 12A, the names of the following as
authorized users.

<u>Name</u>	<u>Previous Authorization</u>
<u>Gary R. Klockow</u>	<u>12-18044-01 MD Nuclear Pharmacy Inc.</u>
<u>Pasquale Anthony LaVallo</u>	<u>2364-3250 New York Dept. of Labor</u> ^{SN}
<u>Roy Saylors</u>	<u>Documentation of Training and experience</u> <u>is enclosed</u>

In addition it has been brought to our attention that several names
have been misspelled on the most recent amendment, No.22, under
condition 12A. Following is the correct spelling for those names.

12A line 3	Patrick Bast
12A line 6	Jerry L. Costanzo
12A line 14	Robert Paul Kleine
12A line 19	Cynthia Anne Miller
12A line 23	Ashok J. Shah
12A line 23	C. Anne Smith
12A line 28	David A. Ziolkowski
12A line 30	Kathy Seifert

July-15-1984

Applicant	0133/0141
Check No.	1207-10-3 e
Amount/ Fee Category	Amendment
Type of Fee	7/17/84/8/10/84
Late Check Rec'd.	7/17/84/8/10/84
Received By	CAP. RECEIVED

JUL 05 1984

REGION III

Syncor International Corporation
Health Physics Group
7586 Trade Street
San Diego, California 92121
(619) 578-8400

8512090193 840712
REG3 LIC30
34-16654-01MD PDR

Control No. 77093

Your consideration in this matter is appreciated.

Sincerely,

Frank M Comer

Frank M. Comer
Corporate Health Physicist

FMC/jm

License Category: 3D
Amendment Fee Enc: \$120.00

FIGURE 9-1
RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

Form PI-100

Name Roy Saylor

Location of Training	Date(s) of Attendance	Course Title if Applicable	Total Clock Hours of Course	Breakdown of Course Content in Clock Hours*									
				Radiation Physics & Instrumentation		Radiation Protection		Math Pertaining to Radioactivity		Radiation Biology		Radiopharmaceutical Chemistry	
				A	B	A	B	A	B	A	B	A	B
University of Southern California Los Angeles	4/30/84 6/1/84	Practicum in Radiopharmacy 65L Radiological Safety	209	50	30	45	15	14	5	15	6	19	15
*Column "A" refers to Lecture/Laboratory Course *Column "B" refers to Supervised Laboratory Experience			209	50	30	45	15	14	5	15	6	19	15
			TOTAL HOURS	80		60		19		21		34	

Control No. 77093

EXPERIENCE WITH RADIATION

Form PI-101

Name Roy Saylor

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use
Tc99m	20Ci	Syncor International 5225 Creek Rd. Cincinnati, OH 45242	March 5, 1984 -	Clinical
Mo99	25Ci		April 28, 1984	"
Ga-67	30mCi		June 11, 1984 -	"
I-131	150mCi		July 3, 1984	"
Tl-201	45mCi		(500 hours)	"
Xe-133	500mCi			"
Se-75	1mCi			"
Co-57	1mCi			"
I-123	10mCi			"
I-125	200uCi			"
yb-169	10mCi			"
P-32	10mCi			"
Co-57	5mCi	"		instrument calibration (sealed sources)
Ba-133	280uCi	"		
Cs-137	200uCi	"		

Pharmatopes, Inc.

Item #8

Date July 5, 1984Page of Pages

Control No. 77093

PRACTICUM IN RADIOL. PHYSICS
(Radiological Safety Edition)

Schedule of Classes

DATE	TIME	FIELD	TOPIC	LECTURER
4/30	9:00	RnP	Philosophy - Definitions	Cohen
	10:30	PI	The Radiation Safety Program at Syncon International. I	Cohen
	13:00	PI	The Radiation Safety Program at Syncon International. II	Cohen
5/1	9:00	PI	Radioactivity and Radiation Physics used in Radiopharmacies	Cohen
	13:00	RB	Introduction to Radiobiology	Kessee
5/2	9:00	RnP	Principles of Health Physics	Cohen
	13:00	RPCn	Radiopharmacy and Radiopharmaceuticals	Kessee
5/3	7:30	PI	Interaction of Radiation with Matter	Audiovisual ENR
	8:15	PI	Radioactive Decay Processes	Audiovisual ENR
	9:00	RnP	Dosimetry and Radiation Protection	Audiovisual ENR
	10:00	RnP	Radiation Hazards: alpha, beta and gamma	Cohen
	13:00	PI	Survey Instruments	Dornhalina
	15:00	PI	Calibration of Instruments	Dornhalina
5/4	8:00	RnP	Records	Dornhalina
	9:00	RnP	Personnel Monitors: Film Badges, TLD's.	Dornhalina
	10:00	RnP	The Radiation Safety Program at Syncon International. III	Cohen
	13:00	PI	Operational Characteristics of Nuclear Instrumentation - Laboratory Chase/Rabinowitz, Chapter 3	Wilson, Amarteu
	15:00	PI	Lab: Errors in Radn. Meas. Chase/Rabinowitz: Chapter 4.2	Wilson, Amarteu
5/7	9:00	RnP	Waste Disposal: regulations, Techniques	RSD Staff
	13:00	RnP	Waste Disposal: Records	RSD Staff

DATE	TIME	FIELD	TOPIC	LECTURER
	11:00	RnP	Status of Waste Disposal at Federal and Local Levels	RSD
	13:00	RnP	References: Radiation Protection Guides. NCRP. ICRP	RSD
	14:00	RnP	Title 17. CROR	RSD
	16:00	RnP	Title 10	RSD
5/8	8:30	RnP	Principles of Protection	RSD
	10:30	RnP	Workshop on Radiation Protection	RSD
	13:30	PI	Laboratory: Radioactive Decay Chase. Rabinowitz, Chapter 6	Wilson, Amarteu
5/9	8:00	RnB	Basic Radiation Biology	Audiovisual SNM
	8:45	PI	Structure of Matter	Audiovisual SNM
	9:30	PI	Introduction to Nuclear Physics: binding energies, nuclear forces	Sinoh
	11:00	PI	Radioactive decay: alpha, beta, gamma and X-ray emission. XRF analysis	Sinoh
	13:00	M	Dose Calculations. External	Dorthalina
	15:00	RnP	Surveys: Purpose and Theory	Dorthalina
5/10	9:30	M	Dose Calculations. Internal	RSD
	10:30	RnB	Metabolism of Radiopharmaceuticals	Shani
	13:00	PI	Interactions of Radiation with Matter	Wolf
	14:00	M	Dose Calculation Problems	Dorthalina
	16:00	PI	Laboratory: Gamma Detectors Chase/Rabinowitz 7.4	Wilson, Amarteu
5/11	8:00	PI	Production and Decay of Radionuclides	Audiovisual SNM
	9:30	RnP	Review of Dose Problems	Dorthalina
	10:30	RnCh	Mechanism of Localization of Radiopharmaceuticals	Shani
	13:00	PI	Laboratory: Beta and Alpha Detection	Wilson, Amarteu
	15:00	M	Introduction to Computers	Precher
5/14	8:30	RP	Introduction to the Radiopharmaceutical Laboratory	Kanada, Ederkamp

DATE	TIME	FIELD	TOPIC	LECTURER
	9:00	RnP	Surveys - Practical	Donthalina
	13:00	RP	Radiopharmaceutical Laboratory	Kawada, Eckenkamp
	15:00	PI	Wipe Counting	Donthalina
5/15	8:00	PI	The Scintillation Camera	Audiovisual SSM
	8:45	PI	Scintillation Spectrometers	Audiovisual SSM
	9:30	PI	General Health Physics	RSD
	13:00	RB	Animal Distribution Studies I	Wilson, Amartev
5/16	9:30	PI	Interaction of charged particles, electromagnetic radiation (X and gamma rays), and neutrons with matter	Singh
	11:00	PI	Detection of Ionizing Radiation. Introduction to Nuclear Electronics.	Singh
	14:00	RnB	Introduction to Radiation Biology	Marcus
5/17	9:00	RnP	Contamination and Decontamination Purification Techniques	Donthalina
	13:00	PI	Principles of Radiation Chemistry	Wolf
	15:00	RB	Animal Distribution Studies II	Wilson, Amartev
5/18	8:30	RnP	Exam	RSD
	9:30	PI	Discussion of Radiation Detection Experiments	Singh
	11:22	PI	Recent progress in medical imaging	Singh
	13:30	PI	Operation of Gamma Detectors and Pulse Height Analyzers	Wilson, Amartev
5/21	8:30	RP	Radiopharmaceutical Laboratory	Kawada, Eckenkamp
	9:00	RPCn	Production of Primary Radionuclides	Wolf
	10:30	RPCn	^{99m} Tc- ^{99m} Labeled Radiopharmaceuticals	Wolf
	13:00	RP	Radiopharmaceutical Laboratory	Kawada, Eckenkamp
	15:22	RnP	Package Records: Monitoring and Records	RSD Staff
	17:00	RnP	Surveys: Reviews and Evaluations	Donthalina
5/22	8:30	RP	Radiopharmaceutical Laboratory	Kawada, Eckenkamp
	9:30	RPCn	Synthesis of Compounds Labeled with Radionuclides	Wolf

DATE	TIME	FIELD	TOPIC	LECTURER
	10:30	RPCn	Synthesis of Compounds Labeled with In, Ga and other Radionuclides	wolf
	13:00	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	15:00	RnP	Bioassays	RSD
5/23	6:30	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	10:00	RPCn	Characteristics of Radiopharm.	Audiovisual SNM
	11:00	RPCn	Technetium 99m	Audiovisual SNM
	13:00	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	15:00	RnP	Regulations and Licensing	Donthalina
5/24	6:30	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	12:00	RnP	Survey Techniques	Donthalina
	13:00	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	15:00	PI	ALARA, Concepts and Management Guidelines	RSD
5/25	6:30	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	9:00	RnP	Energy Absorption in Tissues	RSD
	13:00	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	15:00	RnP	Professional Responses to Customer Inquiries	RSD
5/29	6:30	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	9:00	PI	Review of Nuclear Instrumentation	Wilson, Amartei
	13:00	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	15:00	RnP	Biological Effects Related to Permissible Exposures	RSD
	17:00	RnP	Thyroid Counting	RSD
5/30	6:30	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	9:00	PI	Review of Nuclear Instrumentation II	Wilson, Amartei
	13:00	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	15:00	RnP	Laboratory Design and Work Flow Patterns	Donthalina
5/31	6:30	RP	Radiopharmaceutical Laboratory	Kawada, Eberkamp
	10:00	RnP	Regulations and Licensing	RSD

DATE	TIME	FIELD	TOPIC	LECTURER
	13:20	RP	Radio pharmaceutical Laboratory	Kawada, Ebenkamp
6/1	6:30	RnP	Test	RSD Staff
	9:00	RnP	Radiation Safety Practices in Commercial Radiopharmacies	Comer
	13:00	RPCn	Special Radiopharmaceutical Syntheses	Keesee
	17:20		Picture and Concluding Ceremony	