

PUBLIC/PDR

030-33689

January 27, 1997

U.S. Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60532-4351

Mallinckrodt Medical, Inc.
Diagnostic Imaging Services
2164 Cloverleaf Street, East
Columbus, OH 43232
Telephone (614) 751-9371
Facsimile (614) 751-9376

Material License 24-04206-21MD

To Whom It May Concern,

Pursuant to 10 CFR 32.72(b)(5), I hereby notify the Commission that the following authorized nuclear pharmacists are working at this facility:

James M. Dawson, R.Ph.

Christine Basilone Bortz, R.Ph.

Copies of required documentation are enclosed for review.

Please contact me at (614) 751-9371 if additional information is needed regarding this matter.

Sincerely,

Lisa Leonard Koss, R.Ph., B.C.N.P.
Radiation Safety Officer

ML31/1

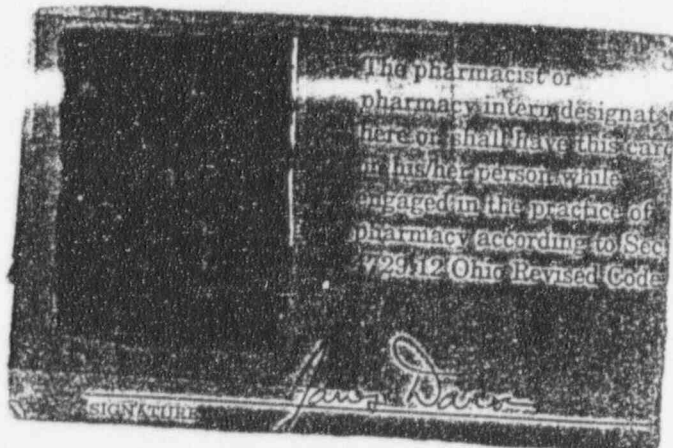
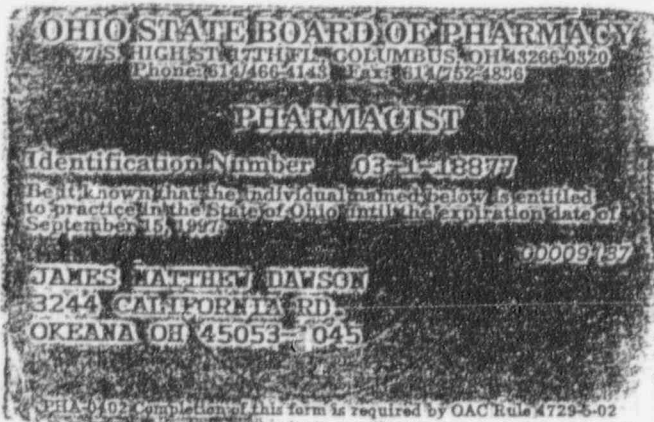
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REGION III

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

34-26239-01MD

Docket or Reference number

030-31889

Amendment No. 02

11. Licensed material shall be used by, or under the supervision of:

Mary Helen Schneider
Mary Ng, R.Ph.
Gerald Cease, R.Ph.
Lawrence Andreatta, R.Ph.
Cathy Bach, R.Ph.
Sandra Kneefel, R.Ph.
James Pancy, R.Ph.
Rebecca M. Fire, R.Ph.
Kevin Boyd, R.Ph.
Anthony Edmond, R.Ph.
Lisa Lay
Randall Brooks
James Dawson

Roy Storey, R.Ph.
Ned Gregorio, R.Ph.
Woodrow Storey, R.Ph.
John Ellis, R.Ph.
Cynthia Stroebe, R.Ph.
Nori Morakawa, R.Ph.
John Zuzack
J. Randall White, R.Ph.
Dennis McCune, R.Ph.
Lester Cooper
Ron Fedeles
Debra K. DeLanghe, R.Ph.
Roy Saylor

Karl Nigg, R.Ph.
Erma Peterson, R.Ph.
Ken DeTurk, R.Ph.
Felix Muniz
Michael Wakefield, R.Ph.
Robert Friessen
Lisa Langston, R.Ph.
Janet Reuther, R.Ph.
Andrea Downey
Kim Travis
William Brockmeyer
John Zehner
Pamela Oard

12. At least one individual named in Condition 11. shall be physically present at the authorized place of use whenever licensed material is being used.

13. The Radiation Protection Officer for the activities authorized by this license is James Dawson.

14. A. (1) The sources specified in Items 7.C., 7.M., and 7.N. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.

(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.

B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.

C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, ATTN: Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.

910007-193-4p

DOCUMENTING EXPERIENCE HANDLING RADIOISOTOPES

(Actual Use of Radioisotopes Under the Supervision of an Authorized User)

Name James Dawson

ISOTOPE	MAXIMUM AMOUNT USED AT ONE TIME	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE (actual clock hours)	TYPE OF USE (see key below)
Tc 99m	7 Ci	MPI Pharmacy Services	300 hours	1,3,4,5,6
Ga 67	30 mCi	344-A Gest Street	25 hours	1,3,4,5
Tl 201	50 mCi	Cincinnati, OH	50 hours	1,3,4,5
I 131	12 mCi	45203	10 hours	1,3,4,5
I 123	10 mCi	(513) 241-5955	30 hours	1,3,4,5
Xe 133	500 mCi		40 hours	1,3,4,5
In 111	2 mCi	June 1990 through	25 hours	1,3,4,5
Cr 51	1 mCi	August 1990	2 hours	1,3,4,5
Co 57	5 mCi		5 hours	1,2,3,4,5
Cs 137	200 uCi		3 hours	2
Ba 133	200 uCi		3 hours	2
Mo 99	11 Ci		15 hours	1,3,5,6

KEY FOR TYPE OF USE

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

1. Ordering, receiving, and unpacking radioactive materials safely, including performing related radiation surveys.
2. Calibrating dose calibrators, scintillation detectors, and survey meters.
3. Calculating, preparing, and calibrating patient doses, including properly using radiation shields.
4. Following appropriate internal control procedures to prevent mislabeling errors.
5. Learning emergency procedures to handle and contain spilled materials safely, including related procedures for decontamination, surveys, and wipe tests.
6. Eluting technetium-99m generator systems, assaying the eluate for technetium-99m and for molybdenum-99, and processing the eluate with reagent kits to prepare technetium-99m-labeled radiopharmaceuticals.

Revised 6/87

TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

NAME James Dawson

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
Purdue University		NUPH 412 Nuclear Pharmacy	47	25	-	6	-	-	-	7	-	9
		NUPH 414 Nuclear Pharmacy Laboratory	45	25		6		6		3		5
		NUPH 530 Applied Nuclear Pharmacy	77	23		12		10		10		22
		NUPH 416 Practicum in Nuclear Pharmacy	45		15		22		8			
Column "A" refers to Lecture/Laboratory Course			214	73	15	24	22	16	8	20	-	36
Column "B" refers to Supervised Laboratory Experience			TOTAL HOURS									

ATTACHMENT B

Ohio State Board of Pharmacy

HEREBY CERTIFIES THAT

Christine Ann Basilone

HAVING GIVEN SATISFACTORY EVIDENCE OF FITNESS AND HAVING COMPLETED THE PRELIMINARY,
PROFESSIONAL, AND ALL OTHER REQUIREMENTS PRESCRIBED BY LAW WAS ON THE
DAY OF THE DATE OF THIS CERTIFICATE DULY REGISTERED AS A

Pharmacist

IN WITNESS WHEREOF, THE SEAL OF THE STATE BOARD OF PHARMACY AND THE SIGNATURES OF THE
MEMBERS AND EXECUTIVE DIRECTOR OF SAID BOARD ARE HEREUNTO AFFIXED



NO. 21828

July 30, 1996

Paul F. Lampert
PRESIDENT*W. H. Conner*
MEMBER*John E. Hines*
MEMBER*Ernest B. Littlejohn*
MEMBER*Joseph J. Macaluso*
MEMBER*Suzanne R. Newber*
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EXECUTIVE DIRECTOR

NRC FORM 374A
(7-94)

U.S. NUCLEAR REGULATORY COMMISSION

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

24-04206-18MD

Docket or Reference Number

030-33336

Amendment No. 02

- E. through I. Any form listed in each group, Groups I, II, IV and V of Schedule A, Section 35.100 of 10 CFR Part 35 (superseded) or authorized by Sections 35.100, 35.200, 35.300 of 10 CFR, Part 35 (effective April 1, 1987), may be distributed to persons licensed pursuant to that Group or Section.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 4702 Payne Avenue, Harrison Township, Dayton, Ohio.
11. A. Licensed material shall be used by, or under the supervision of:

- (1) a pharmacist working or designated as an authorized nuclear pharmacist in accordance with 10 CFR 32.72(b)(2) and (4), or

- (2) authorized nuclear pharmacists:

Steven Alvey
David AskewMargaret Anderson
Brian AugerLarry Andreatta
Terry AustinChristine Bastione
Amy Bettle
Thomas BradyWendy Lou Baumling
Rebecca Blood
John BriggsQuent Bering
David Bock
Barry BrownNancy Cahill
Ross Chang
Matthew Coccato
Cheryl CordumDeborah Cashbaugh
Padmech Chhita
Daniel Coffman
Brian CoxRobert Chandler
Harold Cleveland
Michael Conway
William A. CrawfordDennis Davis
Kenneth DeTurk
Julie DoddMartin Dennis
Lori DeVosRodney Detrow
Vincent DiSpigno

Greg Edquist

Oliver Emberger

Allen Fazekas
James Flynn

Joseph A. Fery

Thomas Firman

Joseph Gatton
Margaret Glennon

Rudolph V. Gilliam

Bonnie Gindling

Kelly Hall
Elaine HaynesDavid Hart
Michael HessDavid Hartter
Richard Hylinski

Radwan Jaber

Henry Jahn

Homan Jarrar

US NRC REGION III

ID: 708-515-1259

AUG 08 '96

14:34 No.004 P.07

NRC FORM 374A
(7-94)

U.S. NUCLEAR REGULATORY COMMISSION

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

24-04206-18ND

Docket or Reference Number

030-33336

Amendment No. 02

11. (Continued)

Lucie Kawaguchi
Tracy Killian
Raymond J. KomosinskiJohn Keenan
Michael KlugAndrew Kelly
Scott KnishkaTim Layne
Paul LukasLisa Leonard
David Lutes

Sam Shen-Shin Ling

Thomas Mabis
John Martin
Barbara MisselJohn Manzi
Thomas McKeanBrad Martin
John Minella

Richard Nickel

Vincent Nizza

Patricia J. Oprish

Michael Palmer
Neal Patel
Karen Pieszala
Steven PughAmit Parikh
Michael Pemberton
David PoydenceRudy Paoia
Craig Petzold
Mark PrzekopCharles Reed
Michael Rossi

Robert Rosar

Debra Russ (Dabrowiak)

Warren Salomon
David Schmitt
Pankaj Shah
Amy Smith
Gary Spence
Christine SurerusBarbara Scavullo
Steve Schultz
Aly Sharaf
James Sorensen
Jeffrey SteffeyRichard Schafer
David Senko
Mary Sue Shrum
Margaret Sotiriou
Michael Stipanovich

Wayne Toal

Sally DuAnn Vanderslice
Tracey VillaSteven Vegliante
Mary Ann Vinyard

Thomas Viering

Donald Warner
Randall Watt
Michael Whyte
Jason WillmanTodd Warren
Larry Weidner
Deborah Wierzba
Brain WongGenevieve Gamboa Watanabe
Henry Weilgosz
Jeff Williams
Richard Wride

David Ziolkowski