

License: 09-29398-01MD

**AUTHORIZED NUCLEAR PHARMACIST TRAINING AND
EXPERIENCE AND PRECEPTOR ATTESTATION
[10 CFR 35.55]**

APPROVED BY OMB: NO. 3150-0120
EXPIRES: 3/31/2012

Name of Proposed Authorized Nuclear Pharmacist
Rena Hamilton

State or Territory Where Licensed
Montana

PART I -- TRAINING AND EXPERIENCE
(Select one of the two methods below)

* Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the nuclear pharmacy uses.

RECEIVED

OCT 14 2011

DNMS

1. Board Certification

- a. Provide a copy of the board certification.
- b. Skip to and complete Part II Preceptor Attestation.

2. Structured Educational Program for Proposed Authorized Nuclear Pharmacist

- a. Classroom and Laboratory Training.

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation	Purdue University West Lafayette, IN 47907	85	July 2011 - Sep 2011
Radiation protection	Purdue University West Lafayette, IN 47907	46	July 2011 - Sep 2011
Mathematics pertaining to the use and measurement of radioactivity	Purdue University West Lafayette, IN 47907	23	July 2011 - Sep 2011
Chemistry of byproduct material for medical use	Purdue University West Lafayette, IN 47907	40	July 2011 - Sep 2011
Radiation biology	Purdue University West Lafayette, IN 47907	21	July 2011 - Sep 2011

Total Hours of Training: 215

576216

**AUTHORIZED NUCLEAR PHARMACIST TRAINING AND EXPERIENCE
AND PRECEPTOR ATTESTATION (continued)**

2. Structured Educational Program for Proposed Authorized Nuclear Pharmacist (continued)

b. Supervised Practical Experience in a Nuclear Pharmacy.

Description of Experience	Location of Experience/License or Permit Number of Facility	Clock Hours	Dates of Experience*
Shipping, receiving, and performing related radiation surveys	PharmaLogic MT 4404 Expressway Road, Ste 109 Missoula, MT 59808 NRC Lic# 09-29398-01MD	90	July 5, 2011 - October 7, 2011
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and, if appropriate, instruments used to measure alpha- or beta-emitting radionuclides	PharmaLogic MT 4404 Expressway Road, Ste 109 Missoula, MT 59808 NRC Lic# 09-29398-01MD	122	July 5, 2011 - October 7, 2011
Calculating, assaying, and safely preparing dosages for patients or human research subjects	PharmaLogic MT 4404 Expressway Road, Ste 109 Missoula, MT 59808 NRC Lic# 09-29398-01MD	240	July 5, 2011 - October 7, 2011
Using administrative controls to avoid medical events in administration of byproduct material	PharmaLogic MT 4404 Expressway Road, Ste 109 Missoula, MT 59808 NRC Lic# 09-29398-01MD	40	July 5, 2011 - October 7, 2011
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures	PharmaLogic MT 4404 Expressway Road, Ste 109 Missoula, MT 59808 NRC Lic# 09-29398-01MD	57	July 5, 2011 - October 7, 2011
Total Hours of Experience: 549			
Supervising Individual Cynthia Tindall, PharmD			

c. Go to and complete Part II Preceptor Attestation.

**AUTHORIZED NUCLEAR PHARMACIST TRAINING AND EXPERIENCE
AND PRECEPTOR ATTESTATION (continued)**

PART II – PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each.

First Section

Check one of the following:

Board Certification

I attest that _____ has satisfactorily completed the requirements in
Name of Proposed Authorized Nuclear Pharmacist

10 CFR 35.55(a)(1), (a)(2), and (a)(3) and has achieved a level of competency sufficient to function independently as an authorized nuclear pharmacist.

OR

Structured Educational Program

I attest that Renae Hamilton has satisfactorily completed a 700-hour structured
Name of Proposed Authorized Nuclear Pharmacist

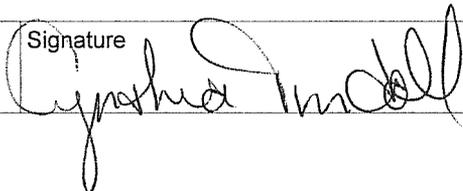
educational program consisting of both 200 hours of classroom and laboratory training, and practical experience in nuclear pharmacy, as required by 10 CFR 35.55(b)(1) and has achieved a level of competency sufficient to function independently as an authorized nuclear pharmacist.

Second Section

Complete the following for preceptor attestation and signature:

I am an Authorized Nuclear Pharmacist for PharmaLogic MT ,
Nuclear Pharmacy or Medical Facility

09-29398-01MD .
License/Permit Number

Name of Preceptor Cynthia Tindall	Signature 	Telephone Number (406) 830-3421	Date 10/07/2011
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PURDUE UNIVERSITY

memo

TO: Renae Hamilton
FROM: Kara Duncan Weatherman, PharmD, BCNP, FAPhA
DATE: September 28, 2011
SUBJECT: Nuclear Pharmacy Certificate Program Completion

Renae –

Congratulations on completing the Purdue University Nuclear Pharmacy Certificate Program! Enclosed are a number of documents that will be necessary as you apply for Authorized Nuclear Pharmacist status:

- **COMPLETION LETTER:** this is an official letter (on Purdue letterhead) stating that you have successfully completed the training program and met all of the requirements that have been set forth by both the Nuclear Regulatory Commission and Purdue University. I generally send two original copies – one for submission and one for your records.
- **FINAL CERTIFICATE:** a copy of this can also be included in your request for AU status and if you so desire, can be framed for your personal use.
- **SYNOPSIS OF CLOCK HOURS:** this document summarizes the hourly breakdown of your training in the categories specified by the U.S. Nuclear Regulatory Commission. Please note, page 5 of the document, entitled "Training Received in Basic Radioisotope Handling Techniques", summarizes the total breakdown of course content for both the distance and campus sessions in chart form. This document contains my signature as Director of Nuclear Pharmacy Training Programs.

Keep in mind, Purdue certifies your 200 hours of didactic training only – you will need to have an Authorized Nuclear Pharmacist from your facility (or from previous training experiences if you are counting hours earned during a summer internship or other experience) submit an affidavit indicating 500 hours of practical experience. Please let me know if we can be of any additional assistance in this process. It is usually helpful if you make copies of all of the documents and keep them in your personal files in case you change jobs and need to resubmit your AU status to a different state. I also keep electronic files of all paperwork associated with the program. Just give us a call if you ever need them.

In conclusion, I would like to wish you the best as you embark on this new phase of your career. Nuclear pharmacy is a fantastic area of practice, and hopefully, you will find that you enjoy it as much as I have in my career. I would encourage you to continue your education in nuclear medicine and nuclear pharmacy. An excellent method is to become active in your local nuclear medicine technology organization or to become a member of the American Pharmacist Association's section on nuclear pharmacy. Purdue's Certificate Program has given you a foundation that you can build on, and our faculty remains available to you if you have questions at a later date. Please do not hesitate to contact us if we can be of ANY help.

Enclosures

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PURDUE UNIVERSITY

WEST LAFAYETTE, INDIANA

COLLEGE OF PHARMACY
DEPARTMENT OF PHARMACY PRACTICE
NUCLEAR PHARMACY PROGRAMS

THIS CERTIFICATE IS AWARDED TO

Renaë Hamilton

AS EVIDENCE OF COMPLETION OF THE

NUCLEAR PHARMACY CERTIFICATE PROGRAM

September 28, 2011

Kara D. Weatherman

Director of Nuclear Pharmacy Training Programs

NUCLEAR PHARMACY CERTIFICATE PROGRAM

Synopsis of Clock Hours of Training

*Rena Hamilton
Certificate Program #74
Campus session: August, 2011*

College of Pharmacy
Department of Pharmacy Practice
Nuclear Pharmacy Programs
Purdue University
West Lafayette, Indiana 47907

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Nuclear Pharmacy Certificate Program Outline:

Contents:

1. Program Concept
2. Synopsis of Clock Hours of Training
3. DVD and Workbook (Self-Study Portion) Clock Hours
4. Campus Portion Laboratory and Lecture Clock Hours
5. Instructional Staff

Abbreviations Used:

RPI:	Radiation Physics / Instrumentation
RP:	Radiation Physics
MA:	Math
RB:	Radiation Biology
RC:	Radiochemistry

Nuclear Pharmacy Certificate Program Concept

The School of Pharmacy and Pharmacal Sciences at Purdue University offers a Certificate Program in Nuclear Pharmacy. The goal of the certificate program is to provide fundamental information to post-graduate pharmacists that will serve as a foundation for attaining competency as practitioners in nuclear pharmacy. The program follows the guidelines for nuclear pharmacy training prepared by nuclear pharmacists in the American Pharmaceutical Association, Section on Nuclear Pharmacy Practice.

This student completed the videotaped distance learning portion of the certificate program. This training module utilizes self-study concepts, including lectures on videotape and correlated reading assignments. The nuclear pharmacy manager, or other qualified nuclear pharmacist at the practice site, serves as the clinical instructor and mentor for the pharmacist in training. This portion is self-paced by the trainee with regular examinations returned to Purdue to assist in monitoring the learning process.

Form Updated 08/10

TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES*

Trainee: RENAE HAMILTON

Date issued: SEPTEMBER 28, 2011

Location of Training	Date(s) of Attendance	Nuclear Pharmacy Certificate Program	Total Clock Hours of Course	Breakdown of Course Content in Clock Hours				
				Radiation Physics & Instrumentation	Radiation Protection	Math Pertaining to Radio-activity	Radiation Biology	Radio-pharmaceutical Chemistry
Purdue University	July 2011 - Sept. 2011	DVD-Workbook	150	51	33	13	21	32
	August 2011	On-Site	65	34	13	10	0	8
Total Hours Received			215					
Hourly breakdown by topic				85	46	23	21	40

* This form is representative of that which is used to apply for an NRC license amendment for an authorized user.

Director of Nuclear Pharmacy Training Programs:

Kara D. Weatherman

Kara Duncan Weatherman, PharmD, BCNP, FAPhA
Clinical Assistant Professor of Pharmacy Practice
Purdue University
Nuclear Pharmacy Programs

Nuclear Pharmacy Certificate Program
DVD and Workbook (Self-Study Portion) Clock Hours

DVD	Instructor	Hours
Physics and Overview Disc 1-4	Dr. Stanley M. Shaw	RP/I: 11 RP: 4 MA: 1
Radiation Protection Disc 1-2	Dr. Paul Ziemer	RP: 8
Instrumentation Disc 1	Dr. Kara Weatherman	RP/I: 4
Radiopharmaceuticals Disc 1-3	Dr. Kara Weatherman	RP: 3 RB: 3 RC: 6
Math Review Disc 1	Dr. Kara Weatherman	MA: 4
Radionuclide Generators Disc 1	Ms. C. Anne Smith	RP/I: 2 MA: 2
Kit Preparation Disc 1	Dr. Kara Weatherman	MA: 4
Quality Control Disc 1	Ms. C. Anne Smith	RP/I: 2 MA: 1 RC: 1
Radiopharmaceutical Formulations (Disc 1)	Mr. James Ponto	RP/I: 1 MA: 1 RC: 2
Health Physics and Recordkeeping (Disc 1)	Dr. Brigitte McGhee	RP/I: 2 RP: 2
Radiation Biology Disc 1-3	Dr. Stanley M. Shaw	RP/I: 3 RB: 9
Late Effects of Ionizing Radiation (Disc 1)	Dr. William R. Widmer	RP/I: 1 RB: 3
Radiation Safety in Pregnant and Breastfeeding Patients (Disc 1)	Mr. James Ponto	RP/I: 1 RP: 3
Adverse Drug Reactions (Disc 1)	Mr. James Ponto	RP/I: 1 RP: 2 RB: 1
Radiopharmaceutical Updates (Disc 1-3)	Dr. Richard Kowalsky	RP/I: 9 RB: 3
Blood Pool Imaging (Disc 1)	Dr. Ronald Calahan	RP/I: 1 MA: 1 RC: 2
Clinical PET	Dr. Laura Boles Ponto	RP/I: 1 RP: 1 RC: 2
Nuclear Pharmacy Regulations (Disc 1-2)	Dr. Stanley M. Shaw	RP: 8
Radiopharmaceutical Chemistry (Disc 1-4)	Dr. Mark A. Green	RC: 16

Nuclear Pharmacy Certificate Program On-Campus Portion Clock Hours

Session	Instructor	
On-Campus portion:	Dr. Kara Weatherman	RP/I: 34 RP: 13 MA: 10 RB: 0 RC: 8

Nuclear Pharmacy Certificate Program Instructional Staff

Dr. Stanley M. Shaw, Ph.D.
 Professor of Nuclear Pharmacy
 Purdue University
 West Lafayette, Indiana 47907

Dr. Paul Ziemer, Ph.D.
 Professor Emeritus of Health Physics
 Purdue University
 West Lafayette, Indiana 47907

Dr. Kara Weatherman, PharmD, BCNP, FAPhA
 Assistant Professor of Nuclear Pharmacy
 Purdue University
 West Lafayette, Indiana 47907

Ms. C. Anne Smith, M.S., B.C.N.P.
 Nuclear Pharmacy Program Director
 Purdue University
 West Lafayette, IN 47907

Mr. James A. Ponto, M.S., B.C.N.P.
 Division of Nuclear Medicine
 University of Iowa Hospitals and Clinics
 Iowa City, Iowa 52242

Brigette McGhee
 Staff Pharmacist
 Central Pharmacy Services, Inc
 Jacksonville, FL

Dr. William R. Widmer, D.V.M.
 Associate Professor of Diagnostic Imaging
 Department of Veterinary Clinical Sciences
 School of Veterinary Medicine
 Purdue University
 West Lafayette, Indiana 47907

Dr. Richard J. Kowalsky, PharmD, BCNP, FAPhA
 Associate Professor Pharmacy and Radiology
 University of North Carolina
 Chapel Hill, North Carolina 27599

Dr. Ronald Callahan, PhD
 Harvard Medical School
 - Associate Professor of Radiology
 Massachusetts General Hospital
 - Director of Nuclear Pharmacy
 Boston, Massachusetts 02114

Dr. Laura Boles Ponto, PhD
 Division of Nuclear Medicine
 University of Iowa Hospitals and Clinics
 Iowa City, Iowa 52242

Dr. Mark A Green, PhD
 Professor of Industrial and Physical Pharmacy
 Division of Nuclear Pharmacy
 Purdue University
 West Lafayette, Indiana 47907

From: (423) 285-7399
Cynthia Tindall
PharmaLogic Montana
4404 Expressway, Ste 109

Missoula, MT 59808

Origin ID: MSOA



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Ship Date: 12OCT11
ActWgt: 0.5 LB
CAD: 102540209/NET3210

Delivery Address Bar Code



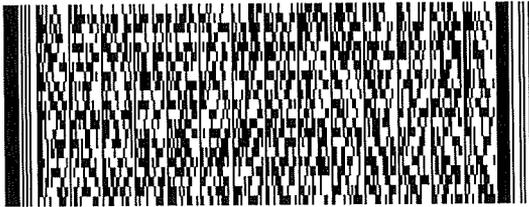
Ref #
Invoice #
PO #
Dept #

SHIP TO: (800) 368-5642 **BILL SENDER**
Attn: Jackie Cook
U.S. Nuclear Regulatory Commission
US NRC

WASHINGTON, DC 20555

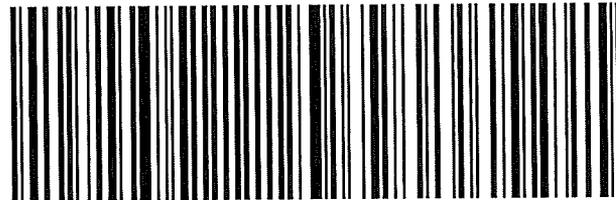
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After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

10/26/11

DATE

This is to acknowledge the receipt of your letter/application dated 10/7/11, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card:

The action you requested is normally processed within 90 days.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 576216.
When calling to inquire about this action, please refer to this mail control number.
You may call me at 817-860-8103.

Sincerely,

Carol R. Hice
Licensing Assistant

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM LTS

Program Code: 02500
Status Code: Pending Amendment
Fee Category: 3C
Exp. Date: 01/31/2021
Fee Comments:
Decom Fin Assur Req: N

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: PHARMALOGIC MT. INC.
Received Date: 10/14/2011
Docket Number: 3038401
Mail Control Number: 576216
License Number: 09-29398-01MD
Action Type: Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: _____

Colleen Murahan

Date: _____

10-18-2011

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered)

1. Fee Category and Amount: _____

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

Amendment: _____

Renewal: _____

License: _____

3. OTHER _____

Signed: _____

Date: _____